fantech®
a systemair company

Ventilation Solutions

Edition 2016-2018

Details on page 134

5 Pascals

Active **Makeup Air Systems (MUAS)** saves your home from backdrafting caused by as little as 5 Pa depressurization.

5

EPA ranks indoor air pollution as one of the top 5 threats to our health.

Details on page 158

9 built-in features

Serenity™ Bathroom fans offer more of everything. Even piece of mind.

12,000 quarts

The amount of air we inhale per day.

38W

ECM fans help **VHR 200R-EC** deliver 74 cfm of fresh air @ 0.4 in.wg. while using as little as 38W.

Details on page 62

2,200 sq.ft.

The **CM3000 HEPA Filtration System** allows for cleaning the air in an average 2,200 sq.ft. home within one hour.

Details on page 94

90%

of our time is spent indoors.

Sources of Indoor Air Pollution

Chemical Products
Cleaning Products
Glues
Pastes
Personal Care Products

Outdoor Sources
Radon
Pesticides
Pollen
Outdoor Air Pollution

Combustion Sources
Gas & Oil
Kerosene
Woodstoves
Fireplaces
Tobacco Smoke

Building Materials
Insulation
Carpet
Paint & Wood Finishes
Pressed Wood Products

Other Sources Include:
Pet Dander, Dust Mites, Mold and Virus

6.3 million people with asthma are under the age of 18.

Asthma is also the top reason for missed school days.

According to the Centers for Disease Control, 1 in 13 people have asthma.

In the US, 24 million people have asthma- same as the entire population of Texas.

50% of all illnesses are caused by poor indoor air quality.

Effects of Poor Indoor Air Quality

Most people recognize the health concerns that outdoor air pollution poses, but few consider that exposure to poor indoor air quailty has the same ill health effects such as:

Allergies **Heart Problems** **Lung Cancer** **Asthma**

The American Heart Association has linked poor air quality to heart problems while the American Lung Association lists it as a leading cause of lung cancer. Asthma is the leading chronic disease in children.

Each day, 10 Americans die from asthma. And 3,630 die each year.

The Cost of Poor Indoor Air Quality

$3,312.39
Amount homeowners spend on treating asthma each year

$7.9 Billion
Amount spent on treating allergies

15 Million
Office and hospital visits each year

1.3 Million
Number of hospital outpatient department visits with asthma as the primary diagnosis in 2010

10.5 Million
Number of physician office visits with asthma as the primary diagnosis in 2012

13.8 Million
Missed school days each year

Your next project may look a lot like

6 a single family home with a finished basement

180 an industrial facility with office spaces

The answers to all your ventilation challenges can be found in the following pages.

CONTENTS

SIMPLY THE BEST

Marcia Vigil,
Accounts Payable

"At Systemair, our goal is to become the global powerhouse in ventilation. We are well on our way, given Systemair's geographic position, its diversity, product range and international reputation of a global brand built over a 40-year period. By combining these advantages with our strengths, we are establishing ourselves as a leading ventilation company in North America in every product category, in which we choose to compete".

A SPACE THAT IS CUSTOM-MADE FOR YOUR LIFESTYLE

- Stale air to outside
- Fresh air from outside
- Stale air from inside
- Fresh air to inside


Fresh Air Appliance (HRV)
Details on page 50
Fresh Air Appliance (HRV)
Details on page 62

FRESH AIR APPLIANCES (HRVs & ERVs)

FOR RESIDENTIAL AND COMMERCIAL APPLICATIONS


fantech
NEW!
fantech

Residential and Commercial
Fresh Air Appliance Range

If you are unsure which Fantech ERV/HRV product is right for your needs, this simple selection chart will help you find the right product. You can also visit fantech.net/products/select/fresh-air-appliances/ for more details.

		Fresh Air Appliances with Side Duct Connection					
Model		SH 704	Fit 120H | Fit 120E (NEW!)	SHR 1504	SHR 1505R	SHR 2004	SHR 2005R
							
Number of bedrooms	-	1 to 2	1 to 3	2 to 5	2 to 5	3 to 7	3 to 7
Average airflow	cfm @ 0.4" P_s	56	up to 112	149	152	197	201
Duct connection	inch	4	5	6	6	6	6
Voltage / Phase	V / ~	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1
Connection		Side	Side	Side	Side	Side	Side
Connection type		Round	Oval	Round	Round	Round	Round
Rated power	W	48	170	149	180	150	228
Max current	A	0.4	1.8	1.3	1.3	2.1	2.1
Defrost cycle		Fan shutdown	Automatic	Automatic	Recirculation	Automatic	Recirculation
Height	inch	17 1/4	10 1/4 | 8 3/4	16 1/8	17 3/8	20 1/2	20 1/2
Width	inch	18 1/2	31 / 34 1/4	28 3/8	28 3/8	33 3/8	33 3/8
Depth	inch	10 3/16	21 | 19	17 3/8	17 3/8	17 3/8	17 3/8
Shipping weight	lbs	29	42	52	51	61	66
Shipping class		1	1	1	1	1	1
Item #		40356	75064 | 44940	40072	40071	40077	40076
MSRP	USD	763.-	875.- | 1,115.-	972.-	1,170.-	1,189.-	1,385.-
Learn more	Page #	16	18 | 38	20	22	24	26

								Fresh Ai
SHR 3005R	SHR 3205RD	SE 704N	SER 1504	SER 2004	SER 3204D	VH 704	VHR 70R	Flex 100H®
								
3 to 7	3 to 7	1 to 2	2 to 5	3 to 7	3 to 7	1 to 2	1 to 2	1 to 5
231	267	56	134	190	204	56	57	105
6	8	4	6	6	8	4	5	5
120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1
Side	Side	Side	Side	Side	Side	Top	Top	Top
Round	Round	Round	Round	Round	Round	Round	Oval	Oval
336	300	47	150	150	300	48	48	168
2.8	2.5	0.4	1.5	1.9	2.5	0.4	0.4	1.4
Recirculation	Recirculation	None	Automatic	Automatic	Automatic	Fan shutdown	Recirculation	Recirculation
22 1/5	20 1/2	17 1/2	16 1/8	20 1/8	20 1/2	17 3/16	17 3/16	17 8/9
55 1/8	32 7/8	18 1/2	28 3/8	33 3/8	33 3/8	21 1/2	22 1/2	21 1/2
17 3/8	25 1/8	10 1/2	17 3/8	17 3/8	17 3/8	10 3/16	10 1/5	14 1/2
125	103	25	49	66	80	32	30	46
1	1	1	1	1	1	1	1	1
40214	40225	40357	40085	40086	40226	40358	44695	44001
2,141.-	1,807.-	727.-	1,122.-	1,507.-	2,412.-	763.-	862.-	967.-
28	30	34	40	42	44	46	48	50

r Appliances with Top Duct Connection

VHR 150	VHR 150R	VHR 2004	VHR 2005R	VHR 200R-EC NEW!	SHR 6904	SHR 6905R	SHR 8004
							
2 to 5	2 to 5	3 to 7	3 to 7	3 to 7			
159	157	197	201	215	687	685	778
6	6	6	6	6	14 x 8	14 x 8	20 x 8
120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1
Top	Top	Top	Top	Top	Side	Side	Side
Round	Round	Round	Round	Oval	Rectangular	Rectangular	Rectangular
156	156	228	228	250	660	660	636
1.2	1.4	1.8	1.8	3.25	5.5	5.5	5.3
Automatic	Recirculation	Automatic	Recirculation	Automatic	Automatic	Recirculation	Automatic
16 1/4	16 1/4	22 3/4	22 3/4	20	22	24 3/8	35
23 3/4	23 3/4	28	28	28	32 1/2	46 1/2	25 3/4
17 3/16	17 3/16	17 1/4	17 1/4	17	36 1/2	36 1/2	36 1/2
45	52	66	66	74	255	270	228
1	1	1	1	1	3	3	3
44921	44859	40061	40063	75269	40417	41047	40443-1
1,075.-	1,224.-	1,189.-	1,385.-	1,987.-	2,767.-	2,979.-	2,904.-
52	54	56	58	62	68	70	76

HRVs and ERVs with Side Duct Connection

SHR 8005R	SHR 11004	SHR 11005R	SHR 14104	SHR 14105R	SER 6004	SER 9504	SER 13004
							
788	1,053	1,032	1,428	1,428	606	940	1,300
20 x 8	20 x 8	20 x 8	24 x 8	24 x 8	14 x 8	20 x 8	24 x 8
120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1	120 / 1
Side	Side	Side	Side	Side	Side	Side	Side
Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular
636	1,320	1,320	1,272	1,272	660	1,320	1,300
5.3	11	11	10.6	10.6	5.5	11	10.6
Recirculation	Automatic	Recirculation	Automatic	Recirculation	Automatic	Automatic	Automatic
35	22	24 1/5	35	35	22	22	35
36	32 1/2	46 1/2	25 3/4	36	32 1/2	32 1/2	25 7/9
36 1/2	51 2/5	51 2/5	51 2/5	51 2/5	36 1/3	51 2/5	51 2/5
225	310	325	310	327	233	292	252
3	3	3	3	3	3	3	3
40455-1	40419	41048	40438-1	40445-1	75266	75267	75268
3,480.-	3,549.-	3,923.-	3,802.-	4,383.-	3,701.-	5,454.-	5,790.-
78	80	82	84	86	88	90	92

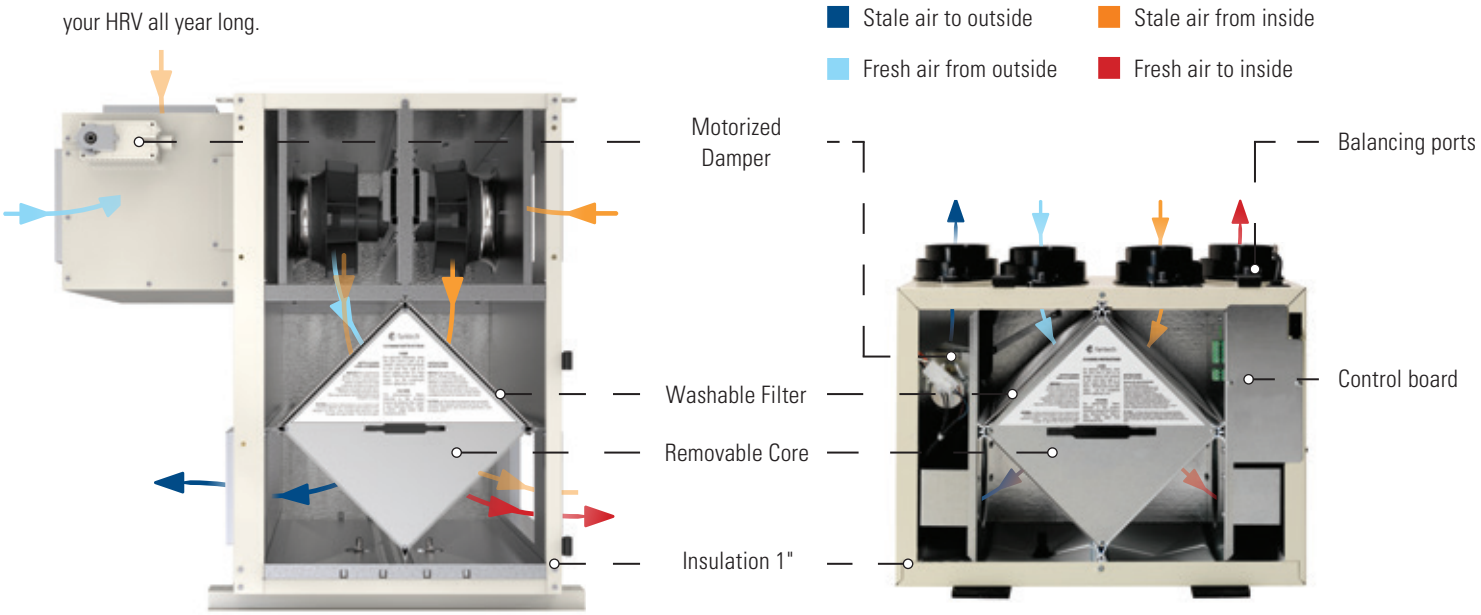
What is a fresh air appliance?

Heat Recovery Ventilators (HRVs)

An HRV is designed to bring a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air, ensuring a balanced airflow through the building envelop. HRVs use what is called a "sensible" heat recovery core. This special aluminum core transfers heat from the exhaust air stream to the incoming air stream. During winter fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system. Fantech HRVs are equipped with automatic defrost mechanisms so even if you live in a cold climate you can use your HRV all year long.

Energy Recovery Ventilators (ERVs)

A Fantech ERV works much like an HRV but it is equipped with a different type of recovery core. The enthalpy core at the center of the unit transfers heat and moisture from the incoming air to the outgoing air that was cooled and dried by the building's air conditioner. The air brought into the living area is cooled and the humidity is reduced for maximum comfort. The load on your air conditioner is reduced saving on cooling costs. During winter, an ERV will not dry the indoor air as much as an HRV; this may make the indoor environment more comfortable as long as there is not too much humidity generated indoors.



Supply fan shutdown defrost function

When frost conditions exist, the supply air fan (the one pushing the fresh air into the building) is stopped intermittently for a few minutes every hour, while the exhaust air fan (the one exhausting stale air from the building to the outside) is set to run on high speed. This allows the energy recovery core to defrost to prevent freezing.

Advantages

- This is a simple and robust frost prevention system

Application note

If you will be integrating the HRV into a central air handling unit we recommend selecting the Recirculation Defrost models (i.e. SHR -R) since they can actively block the outdoor air port with a damper mechanism, preventing outdoor air from entering the building when not being used.

Recirculation defrost function

When frost conditions exist, a mechanical damper in the HRV closes the outdoor air inlet. The exhaust fan shuts off while the supply fan goes on high speed. The supply fan then takes warm building air and pulls it through the heat recovery core and delivers it back to the building. On some models, the 5th duct connection can either remain un-ducted in which case recirculation air is taken from the mechanical room where the HRV is located and used to re-energize the core while on models with only 4 duct connections the air is taken from the return air duct. Alternatively a dedicated duct can be installed so the designer can take the recirculated air from a specific location in the building*.

Advantages

- The most energy efficient and aggressive frost prevention
- Ideal for higher humidity indoor conditions or colder outdoor conditions
- For models with a 5th duct connection, allows the designer to select from where recirculated air is taken
- Provides a 'recirculation' mode that allows for the building air to be recirculated without bringing in fresh air, ideal to avoid stagnant air that may contribute to indoor condensation during the winter

Two simple steps to help you choose
the ideal fresh air appliance for your application

Step 1
HRV or ERV?

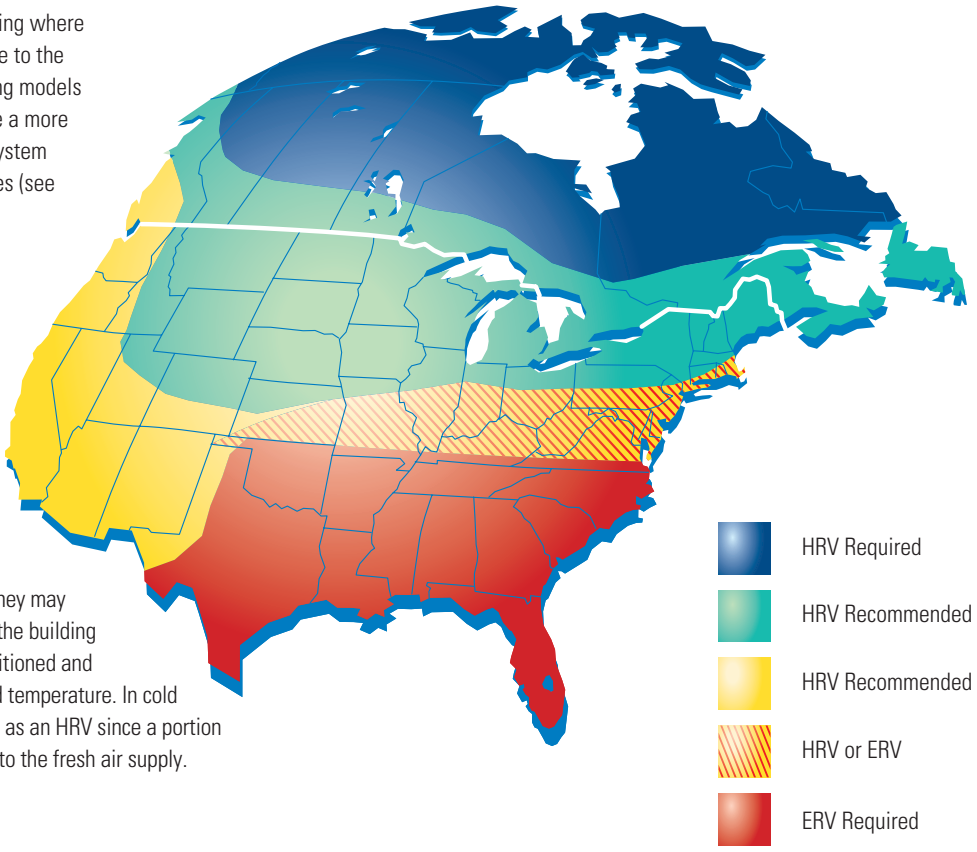
If you are using our equipment to ventilate a building where there is an indoor pool, an HRV should be used due to the high indoor relative humidity. We recommend using models with a Recirculation defrost function (-R) that have a more aggressive and energy efficient frost prevention system needed for indoor pool applications in cold climates (see defrost system explanation on the previous page).

Browse the climate conditions where you live to determine what type of ventilator you need.

HRVs are recommended when the indoor relative humidity will be higher due to the presence of showers, spas, saunas and hot tubs. High occupancy density often results in higher indoor humidity, so HRV are also better in those applications.

ERVs are great in warm and humid climates since they may reduce the amount of outdoor humidity that enters the building through the ventilation air if the building is air conditioned and maintained at a normal indoor relative humidity and temperature. In cold climates, an ERV will not dry the indoor air as much as an HRV since a portion of the exhausted air's humidity is recovered back into the fresh air supply.

U.S. Department of Energy
Climate Zones Map



Step 2
How much ventilation do I need?

The American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) has developed guidelines to evaluate the minimum ventilation needs. Below are two simplified tables from the standards showing ventilation rates for different applications. Note that the full standards and/or a local building code should be reviewed to make the proper selection.

For a residential application refer to ASHRAE Standard 62.2; for a non-residential application refer to ASHRAE Standard 62.1.

Living area	Number of bedrooms				
	0-1	2-3	4-5	6-7	> 7
sq.ft.	cfm				
< 1,500	30	45	60	75	90
1,500 - 3,000	45	60	75	90	105
3,001 - 4,500	60	75	90	105	120
4,501 - 6,000	75	90	105	120	135
6,001 - 7,500	90	105	120	135	150
> 7,500	105	120	135	150	165

Table 1. Ventilation needs of a residential application, ASHRAE 62.2

Room type	CFM / Person	CFM / ft²
Daycare	10	0.12 - 0.18
Classroom	10	0.12 - 0.18
Restaurant dining room	7.5	0.18
Meeting room	5	0.06
Beauty salon	20	0.12
Dance floor	20	0.06

Table 2. Ventilation needs of a non-residential application, ASHRAE 62.1

SH 704
Heat Recovery Ventilator

Application
Fantech's smallest and most compact side duct connection HRV, the SH 704 unit brings a continuous supply of fresh air into a 1 or 2 bedroom home while exhausting an equal amount of contaminated air.

How it works
During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system. SH704 is designed to operate continuously on a single speed.

Defrost cycle
The SH704 is equipped with automatic defrost mechanisms. The automatic defrost cycle consists of a fan shutdown. When the supply air stream temperature goes below 23°F, the supply motor shuts down while the exhaust motor continues to ventilate. Ambient air is passed through the unit for a period of 3 or 5 minutes. The supply motor will then re-start and run at the preset speed.

Certification

- Airflows up to 56 cfm @ 0.4" P_{st}
- 1 to 2 bedroom homes
- Single speed: no controls needed
- Includes easy-mount wall bracket

Maximum continuous airflow

cfm \ in.wg	0.1" P_s	0.2" P_s	0.3" P_s	0.4" P_s	0.5" P_s
Net supply airflow	96	85	67	56	42
Gross supply airflow	100	88	70	58	43
Gross exhaust airflow	104	88	73	59	43

Defrost cycle time

Temperature range °F	Run / Defrost time (min)
23 to 14	40 / 3
14 to 5	30 / 5
5 & lower	20 / 5

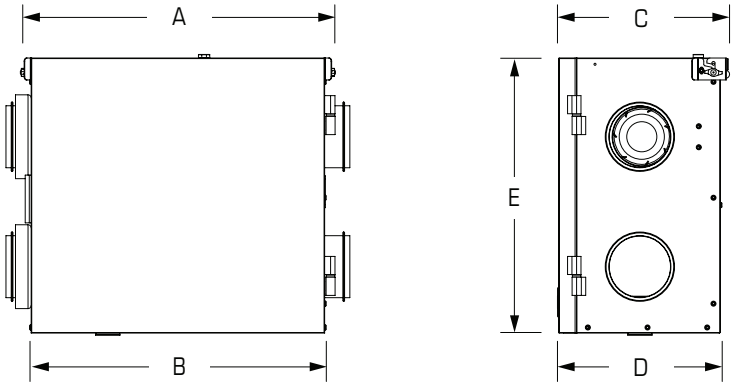
Energy performance

	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
Heating	32	55	36	57	67	-
	32	67	40	55	63	-
	32	84	40	54	60	-
	-13	73	35	53	66	-

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
SH 704	4	120 / 1	48	0.4	56	Side	Fan shutdown	29	1	40356	763.-

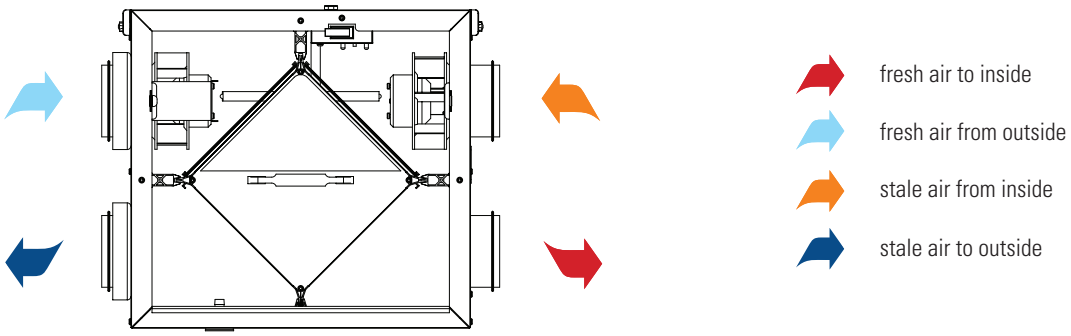
Dimensions



Model	A	B	C	D	E
SH 704	21 5/8	18 1/2	10 11/16	10 3/16	17 1/4

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



Specifications

- Model: SH 704
- Total assembled weight: 25 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 4"
- Mounting: a wall bracket included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Core: Aluminum, 8.5˝ x 8.5˝ x 8˝
- Filters: 2 washable filters, 8.5˝ x 8˝ x 0.125˝

Accessories

FTD 7
7 Day Timer
page 260

FEL
Elbow
page 265

MGS
Supply Grille
page 263

MGE
Exhaust Grille
page 263

COM
Plastic Hood
page 264

FIDT
Insulated Flex Duct
page 265

Fit 120H

Heat Recovery Ventilator

Application

Fantech's newest, low profile fresh air ventilators is ideally suited for condos, apartments as well as for single family homes that have limited space available for HVAC equipment installations.

How it works

The Fit 120H brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle

The Fit 120H is equipped with automatic defrost mechanisms so you can use your HRV all year round.

Certification

- Airflows up to 112 cfm @ 0.4" P_{st}
- 1 to 3 bedroom homes
- Heat transfer capability up to 81%
- Automatic defrost mechanism

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s
Net supply airflow	134	112	88	61
Gross supply airflow	139	116	92	64
Gross exhaust airflow	140	122	104	86

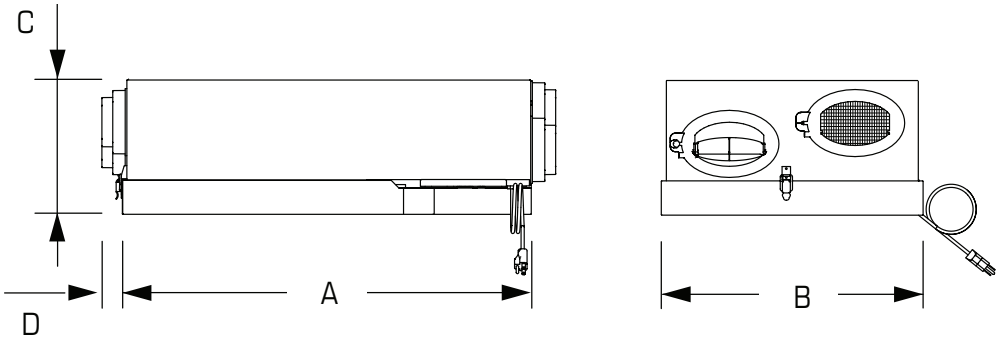
Energy performance

	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
Heating	32	60	66	65	77	0.00
	32	86	96	64	76	0.01
	32	117	148	60	71	0.01
	-13	65	63	56	81	0.00

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
Fit 120H	5 (oval)	120 / 1	170	1.8	112	Side	Automatic	45	1	75064	875.-

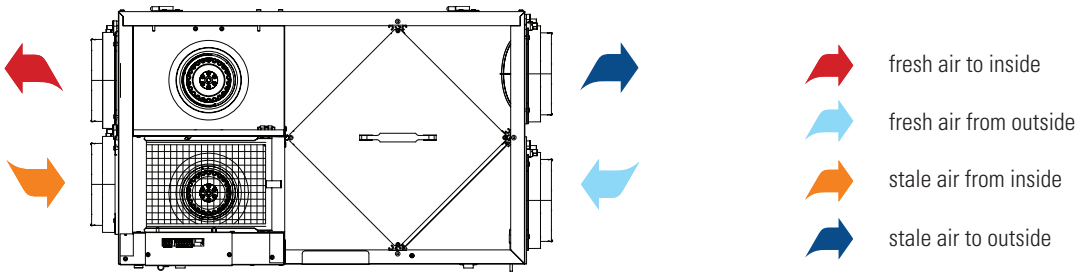
Dimensions



Model	A	B	C	D
Fit 120H	31	21	10 1/4	1 7/8

Dimensional information is in inches.

Operation diagram



Specifications

- Model: Fit 120H
- Total assembled weight: 42 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 5" (oval)
- Mounting: ceiling brackets included
- Insulated with 1" of foil-faced high density polystyrene foam and $^{1}/_{4}$" of closed-cell foam on the top of the unit and meet the requirements of UL 94HF.
- Aluminum heat recovery core, 12˝ x 12˝ x 7.7˝
- Filters: 2 washable electrostatic panel type

Accessories

Eco-Touch®
Wall Control
page 262

EDF 1
Electronic Control
page 262

RTS 2
Electronic Timer
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EDF 7
Electronic Dehumidistat
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MGS
Supply Grille
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MGE
Exhaust Grille
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COM
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FIDT
Insulated Flex Duct
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SHR 1504

Heat Recovery Ventilator

- Airflows up to 149 cfm @ 0.4" P_{st}
- 3 to 5 bedroom homes
- Three speed ventilation control
- Easy access service door

Application

Fantech's side port connection HRV for budget conscious house projects, the SHR 1504 unit brings a continuous supply of fresh air into a 3 to 5 bedroom home while exhausting an equal amount of contaminated air.

How it works

During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle

The SHR 1504 is equipped with automatic defrost mechanisms. A preset defrost sequence is activated at an outdoor air temperature of 23°F and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower switches into high speed to maximize the effectiveness of the defrost strategy. The unit then returns to normal operation, and continues cycle.

Certification

Maximum continuous airflow

cfm \ in.wg	0.1" P_s	0.2" P_s	0.3" P_s	0.4" P_s	0.5" P_s	0.6" P_s	0.7" P_s	0.8" P_s	0.9" P_s	1.0" P_s	1.1" P_s	1.2" P_s
Net supply airflow	181	170	159	149	138	128	116	104	91	77	63	49
Gross supply airflow	184	174	162	151	141	130	119	106	92	79	64	50
Gross exhaust airflow	180	169	159	146	136	125	114	100	87	75	61	46

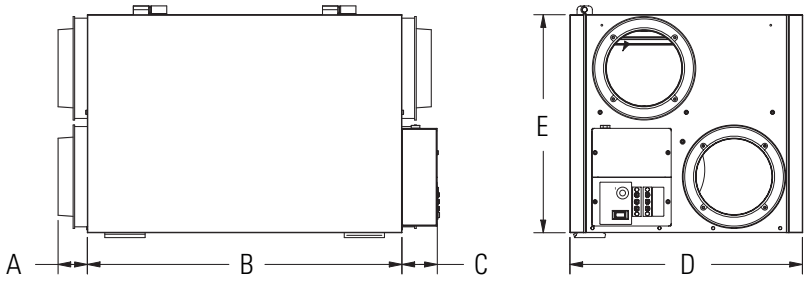
Energy performance

	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
Heating	32	67	72	60	73	-0.11
	32	109	98	59	70	0.00
	32	161	144	55	63	0.00
	-13	68	73	56	77	-0.02

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
SHR 1504	6	120 / 1	156	1.3	149	Side	Automatic	52	1	40072	972.-

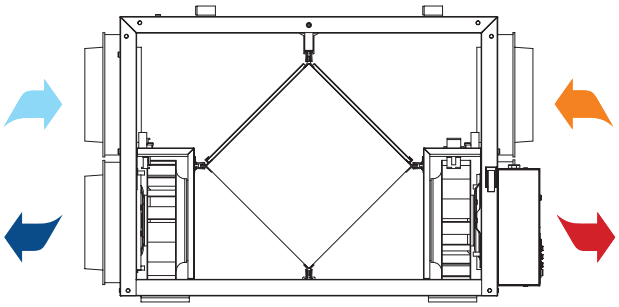
Dimensions

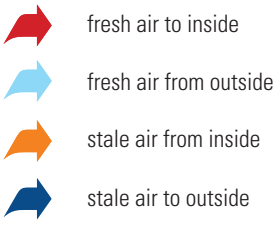


Model	A	B	C	D	E
SHR 1504	2 1/4	23 1/2	2 5/8	17 3/8	16 1/8

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram





Specifications

- Model: SHR 1504
- Total assembled weight: 45 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 6"
- Mounting: ceiling suspended kit included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Core: Aluminum, 9˝ x 9˝ x 15˝
- Filters: 2 washable filters, 8.5˝ x 15˝ x 0.125˝

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SHR 1505R

Heat Recovery Ventilator

- Airflows up to 152 cfm @ 0.4" P_{st}
- 3 to 5 bedroom homes
- Three speed ventilation control
- Recirculation defrost mechanism

Application

Fantech's side port connection HRV for the home provides a higher efficiency at very cold temperatures, the SHR 1505R unit brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air.

How it works

During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the house can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy. During this cycle, household odors from the kitchen or bathroom are prevented from entering the home and the unit will not create negative pressure.

Certification

Maximum continuous airflow

in.wg / cfm	0.1" P_s	0.2" P_s	0.3" P_s	0.4" P_s	0.5" P_s	0.6" P_s	0.7" P_s	0.8" P_s	0.9" P_s	1.0" P_s
Net supply airflow	180	174	164	152	137	121	107	97	87	85
Gross supply airflow	182	178	168	156	139	125	109	97	89	85
Gross exhaust airflow	188	178	168	158	146	133	121	109	95	83

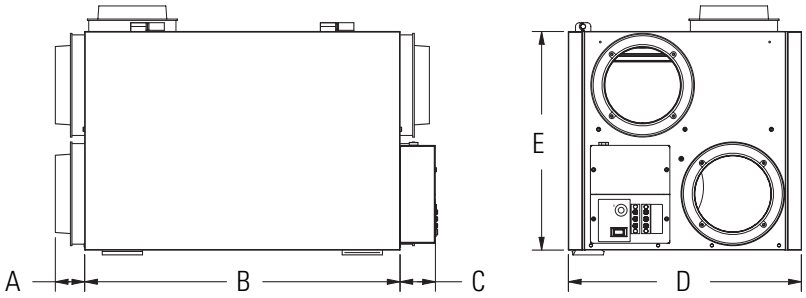
Energy performance

	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
Heating	32	85	70	60	76	-0.02
	32	101	94	62	71	-0.02
	32	159	140	60	68	-0.01
	-13	85	93	63	76	0.00

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
SHR 1505R	6	120 / 1	180	1.3	152	Side	Recirculation	51	1	40071	1,170.-

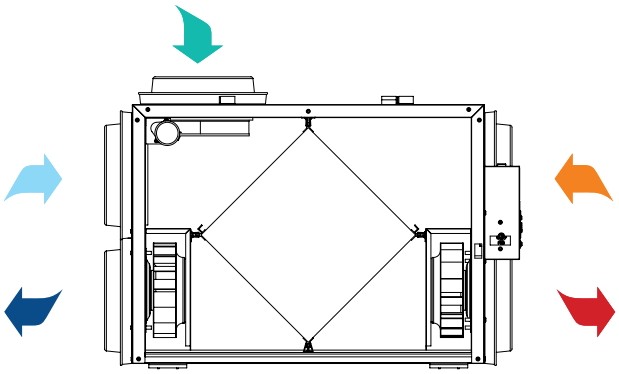
Dimensions



Model	A	B	C	D	E
SHR 1505R	2 1/4	23 1/2	2 5/8	17 3/8	17 3/8

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside
- recirculated air for defrost

Specifications

- Model: SHR 1505R
- Total assembled weight: 45 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 6"
- Mounting: ceiling suspended kit included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Core: Aluminum, 9˝ x 9˝ x 15˝
- Filters: 2 washable filters, 8.5˝ x 15˝ x 0.125˝

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SHR 2004

Heat Recovery Ventilator

Application

Fantech's larger residential, full-featured HRV for budget conscious large house projects, the SHR 2004 is designed for higher static pressure and higher airflow applications.

How it works

During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle

The SHR 2004 is equipped with automatic defrost mechanisms. A preset defrost sequence is activated at an outdoor air temperature of 23°F and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower switches into high speed to maximize the effectiveness of the defrost strategy. The unit then returns to normal operation, and continues cycle.

Certification

- Airflows up to 211 cfm @ 0.4" P_{st}
- 3 to 7 bedroom homes
- Three speed ventilation control
- Easy access service door

Maximum continuous airflow

cfm \ in.wg	0.1" P_s	0.2" P_s	0.3" P_s	0.4" P_s	0.5" P_s	0.6" P_s	0.7" P_s	0.8" P_s	0.9" P_s	1.0" P_s	1.1" P_s	1.2" P_s	1.3" P_s
Net supply airflow	258	238	218	197	176	156	137	118	101	85	71	59	50
Gross supply airflow	261	241	220	199	178	158	138	120	102	86	72	60	51
Gross exhaust airflow	253	241	227	221	194	176	158	141	124	109	97	86	79

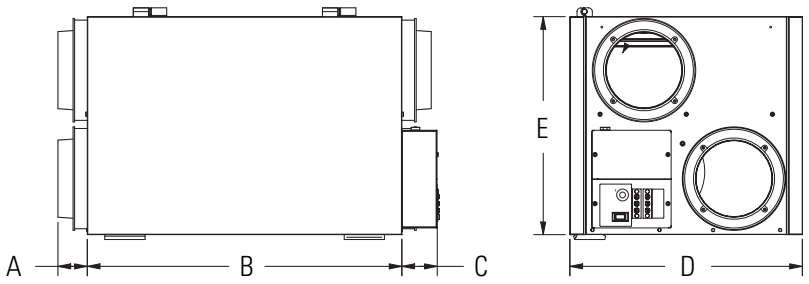
Energy performance

	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
Heating	32	60	108	62	77	0.03
	32	117	154	62	72	0.02
	32	193	246	58	68	0.02
	-13	117	154	59	77	-0.01

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
SHR 2004	6	120 / 1	150	2.1	211	Side	Automatic	61	1	40077	1,189.-

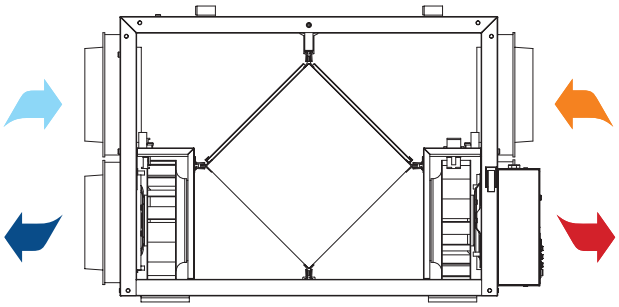
Dimensions

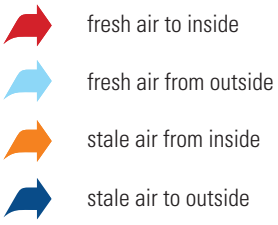


Model	A	B	C	D	E
SHR 2004	2 1/4	27 7/8	2 2/5	17 3/8	20 1/2

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram





Specifications

- Model: SHR 2004
- Total assembled weight: 61 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 6"
- Mounting: ceiling suspended kit included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Core: Aluminum, 12˝ x 12˝ x 15˝
- Filters: 2 washable filters, 11.75˝ x 15˝ x 0.125˝

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SHR 2005R

Heat Recovery Ventilator

Application

Fantech's side port connection HRV for the home provides a higher efficiency at very cold temperatures, the SHR 2005R unit brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air.

How it works

During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the house can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy. During this cycle, household odors from the kitchen or bathroom are prevented from entering the home and the unit will not create negative pressure.

Certification

- Airflows up to 201 cfm @ 0.4" P_{st}
- 4 to 7 bedroom homes
- Three speed ventilation control
- Recirculation defrost mechanism

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s	1.1" P_s	1.2" P_s	1.3" P_s
Net supply airflow	230	201	166	137	112	98	88	78
Gross supply airflow	233	204	168	139	113	99	90	79
Gross exhaust airflow	244	215	184	151	118	108	93	83

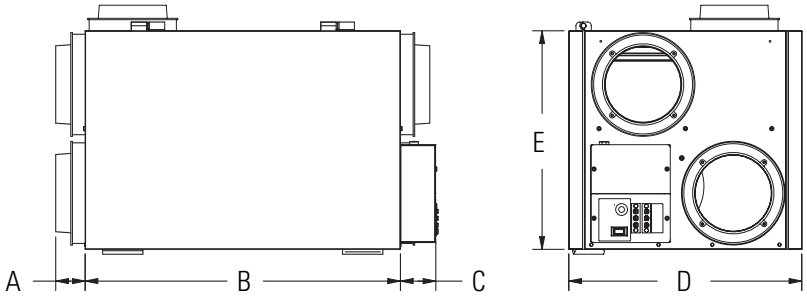
Energy performance

	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
Heating	32	65	108	62	77	0.06
	32	117	154	62	74	0.07
	32	191	246	60	71	0.00
	-13	123	141	64	81	0.00

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
SHR 2005R	6	120 / 1	228	2.1	201	Side	Recirculation	66	1	40076	1,385.-

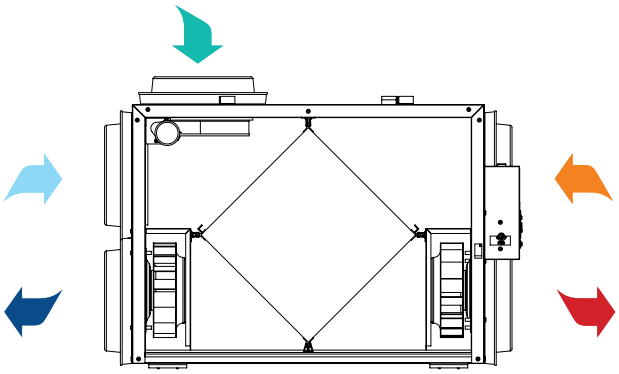
Dimensions



Model	A	B	C	D	E
SHR 2005R	2 1/4	27 7/8	2 5/8	17 3/8	20 1/2

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside
- recirculated air for defrost

Specifications

- Model: SHR 2005R
- Total assembled weight: 62 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 6"
- Mounting: ceiling suspended kit included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Core: Aluminum, 12˝ x 12˝ x 15˝
- Filters: 2 washable filters, 11.75˝ x 15˝ x 0.125˝

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SHR 3005R

Heat Recovery Ventilator

- Airflows up to 231 cfm @ 0.4" P_{st}
- 3 to 7 bedroom homes
- Three speed ventilation control
- Easy access service door

Application

The SHR 3005R's double core configuration provides the greater thermal efficiency needed for homes being built to a higher energy standard.

How it works

The incoming air passes through a first, then a second heat exchanger to provide maximum heat recovery.During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the house can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy. During this cycle, household odors from the kitchen or bathroom are prevented from entering the home and the unit will not create negative pressure.

Certification

Maximum continuous airflow

cfm \ in.wg	0.1" P_s	0.2" P_s	0.3" P_s	0.4" P_s	0.5" P_s	0.6" P_s	0.7" P_s	0.8" P_s	1.0" P_s	1.2" P_s	1.4" P_s
Net supply airflow	268	262	246	231	219	204	196	188	163	147	118
Gross supply airflow	277	270	253	238	226	211	202	194	168	151	121
Gross exhaust airflow	294	279	266	247	236	215	213	200	174	151	123

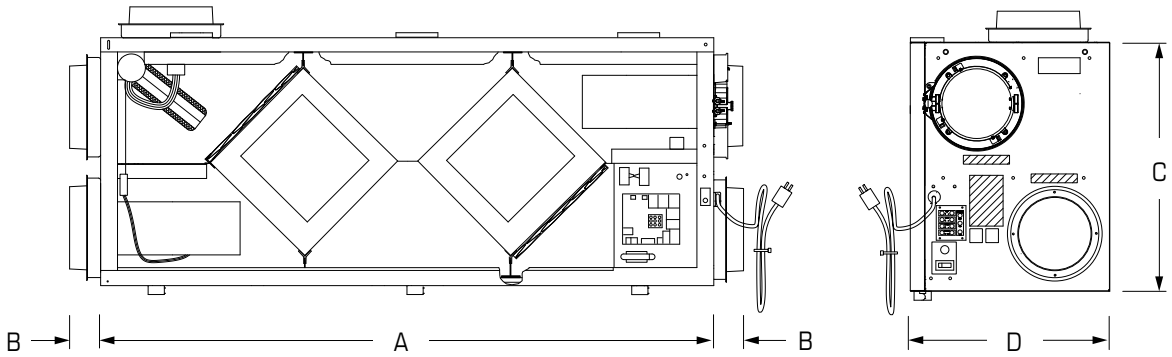
Energy performance

	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
Heating	32	64	126	76	91	0.02
	32	117	212	78	92	0.01
	32	157	262	78	91	- 0.09
	-13	121	224	72	91	0.09

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
SHR 3005R	6	120 / 1	336	2.8	231	Side	Recirculation	125	1	40214	2,141.-

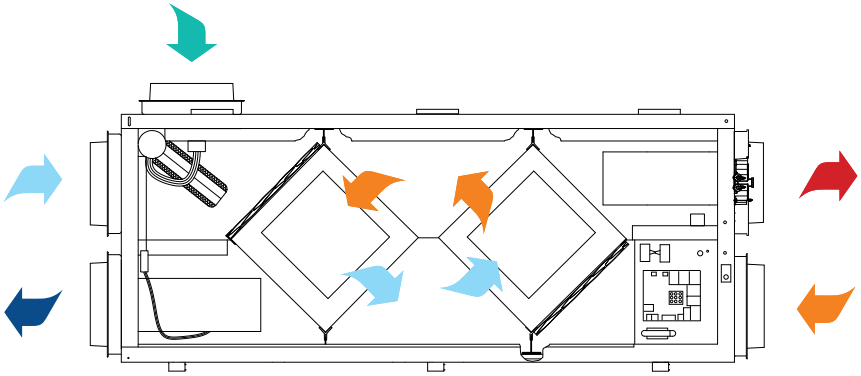
Dimensions



Model	A	B	C	D
SHR 3005R	50 7/8	2 1/5	22 1/5	17 3/8

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core. The unit accomodates two heat recovery cores. Electical box is inside cabinet.

Operation diagram



fresh air to inside

fresh air from outside

stale air from inside

stale air to outside

recirculated air for defrost

Specifications

- Model: SHR 3005R
- Total assembled weight: 90 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 6"
- Mounting: ceiling suspended kit included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Core: 2 pcs, Aluminum, 12˝ x 12˝ x 15˝
- Filters: 2 washable filters, 11.75˝ x 15˝ x 0.125˝

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SHR 3205RD

Heat Recovery Ventilator

- Airflows up to 267 cfm @ 0.4" P_{st}
- Up to 7 bedroom homes
- Multiple installation arrangements
- Recirculation defrost mechanism

Application

Suitable for very large residential or small commercial applications, the compact SHR 3205RD comes with access panels on both sides of the unit for installation versatility.

How it works

The unit is designed for higher static pressure and higher airflow applications. It brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the house can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy. During this cycle, household odors from the kitchen or bathroom are prevented from entering the home and the unit will not create negative pressure.

Certification

Maximum continuous airflow

cfm \ in.wg	0.4" P_s	0.6" P_s	0.7" P_s	0.8" P_s	0.9" P_s	1.0" P_s	1.1" P_s	1.2" P_s	1.3" P_s	1.4" P_s
Net supply airflow	267	222	195	171	147	124	101	81	63	44
Gross supply airflow	275	229	201	176	151	128	103	84	65	46
Gross exhaust airflow	257	209	185	161	136	112	88	63	39	14

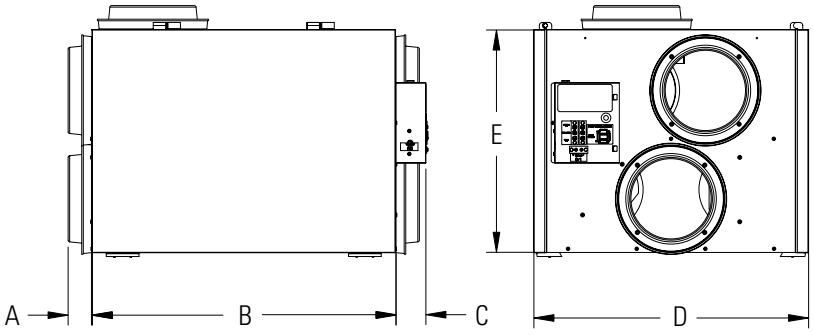
Energy performance

	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
Heating	32	118	136	66	77	0.02
	32	162	182	66	76	0.02
	32	248	272	64	74	0.03
	-13	123	168	67	79	0.05

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
SHR 3205RD	8	120 / 1	300	2.5	267	Side	Recirculation	103	1	40225	1,807.-

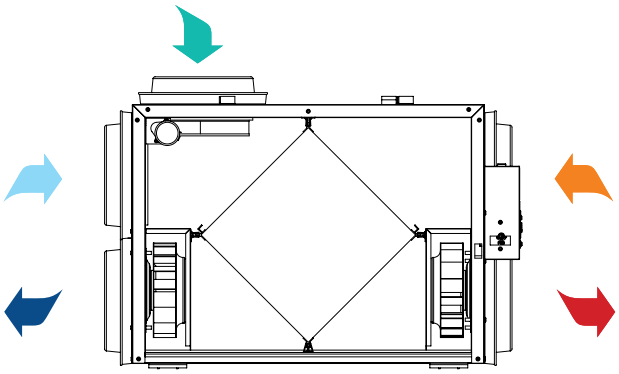
Dimensions



Model	A	B	C	D	E
SHR 3205RD	2 1/4	27 7/8	2 3/4	25 1/8	20 1/2

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside
- recirculated air for defrost

Specifications

- Model: SHR 3205RD
- Total assembled weight: 80 lbs
- Cabinet: 22 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 8"
- Mounting: ceiling suspended kit included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Core: 2 pcs, Aluminum, 12˝ x 12˝ x 15˝
- Filters: 4 washable filters, 11.5˝ x 11.4˝ x 0.125˝

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COMPLETE HOME VENTILATION LOOKS A LOT LIKE PAGE SIX OF THIS CATALOG

Flex 100H®

Fresh Air Appliance (HRV)

967.-

105 cfm @ 0.4" wg,168W. The unit provides up to 150 cfm in the boost mode allowing for exhuasting from multiple locations. **Art. #44001, see p. 50**

VHR 200R-EC

Fresh Air Appliance (HRV)

1,987.-

212 cfm @ 0.4" wg, 250W Equipped with ECM fans, MERV13 supply filter, multiple speed operation, 40/20 recirc./vent. mode. **Art. #75269, see p. 62**

DEDPV-705

Dryer Exhaust Duct Power Ventilator

428.-

max usable 105 cfm @ 0.78' wg, 83W, Duct dia. 4". Includes 2 pair of clamps with cleanouts, wall mount low voltage indicator panel. **Art. 46005, see p. 150**

Fit 120H

Fresh Air Appliance (HRV)

875.-

120V, 112 cfm @ 0.4" w.g., 170W. Superior heat transfer capability, 10 1/4" height, serves 1 to 3 bedrooms or living rooms. **Art. 75064, see p. 18**

Serenity™ Duet

Auto Sensing Everything Bath Fan

1,195.-

Designed to automatically ventilate two bathroom locations matching your needs in creating a comfortable and accommodating environment.UL listed for wet locations. **Art. 47834, see p. 158**

MUAS 650

Makeup Air System

2,158.-

Automatically compensates an exhaust system with up to 650 cfm of fan-powered, proportionally-varying makeup air. **Art. K46000, see p. 140**

SE 704N

Energy Recovery Ventilator

- Airflows up to 56 cfm @ 0.4" P_{st}
- 1 to 2 bedroom homes
- No defrost or drain pan needed
- No balancing required

Application

Fantech's smallest and most compact side duct connection ERV, the SE 704N unit brings a continuous supply of fresh air into a 1 or 2 bedroom home while exhausting an equal amount of contaminated air.

How it works

When it is warm and humid outside, and cool and dry indoors, the ERV pre-cools the fresh incoming air and transfers a portion of the incoming humidity into the exhaust air, reducing the ventilation load. Reducing the load on the home's air conditioner, saves on cooling costs. This unit is designed for warmer, humid climates with longer cooling seasons.

Components

A core, filters and motors can be easily accessed through the latched door. The core conveniently slides out on easy glide core guides. 10" of clearance is recommended for removal of core.

Certification

Maximum continuous airflow

cfm / in.wg	0.2" P_s	0.3" P_s	0.4" P_s	0.5" P_s
Net supply airflow	78	67	56	42

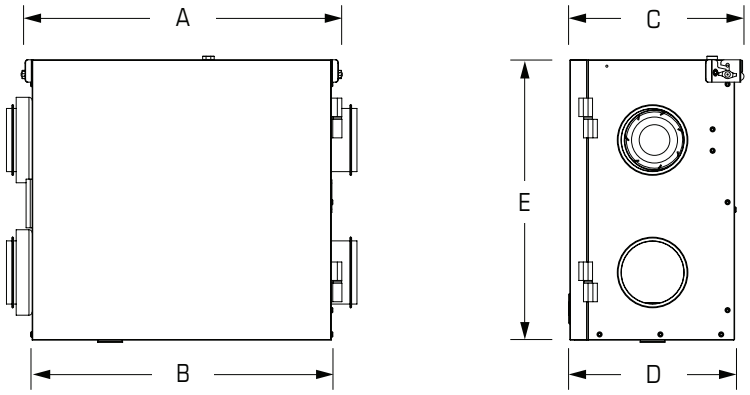
Energy performance

	Supply temperature	Net airflow	Consumed power	Net effectiveness		
				Sensible	Latent	Total
	°F	cfm	W	%	%	%
	35	40	39	62	44	55
Heating	35	60	42	59	41	53
	35	80	43	56	37	50
	95	40	39	62	40	50
Cooling	95	60	42	59	37	46
	95	80	43	56	33	42

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
SE 704	4	120 / 1	47	1.4	56	Side	None	25	1	40357	727.-

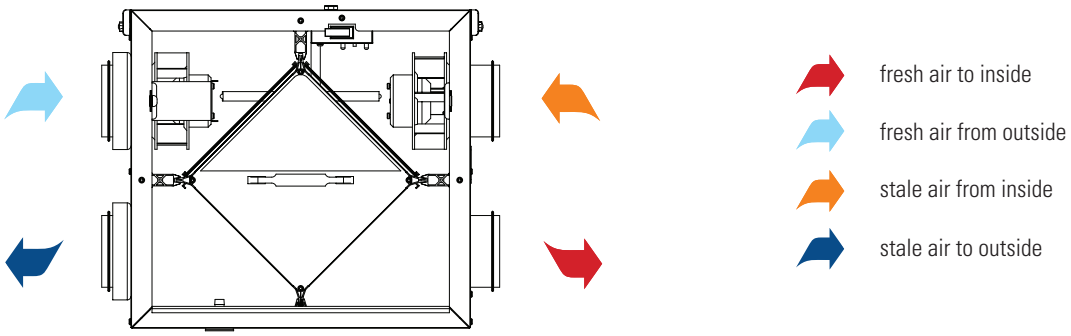
Dimensions



Model	A	B	C	D	E
SE 704N	19 3/4	18 1/2	10 11/16	10 3/16	17 1/4

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



Specifications

- Model: SE 704N
- Total assembled weight: 24 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 4" round
- Mounting: a wall bracket included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Washable polymer membrane enthalpy core, 8.5″ x 8.5″ x 8″
- Filters: 2 washable filters, 8.5″ x 8″ x 0.125″

Accessories

FTD 7
7 Day Timer
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FEL
Elbow
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MGS
Supply Grille
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MGE
Exhaust Grille
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COM
Plastic Hood
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FIDT
Insulated Flex Duct
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NEW!

G90 GALVANIZED HOUSING

The G90 galvanized housing makes the unit more durable than other lightweight products.

QUICK INSTALLATION

The ceiling bracket allows **FIT 120E** for the easiest and fastest mounting of any ventilator on the market.

SLIM PROFILE

At 8 3/4" tall, the compact design of **FIT 120E** allows for clean installation in the tightest of spaces. Ideally suited for condos, apartments as well as for single family homes that have limited space available for HVAC equipment installations.

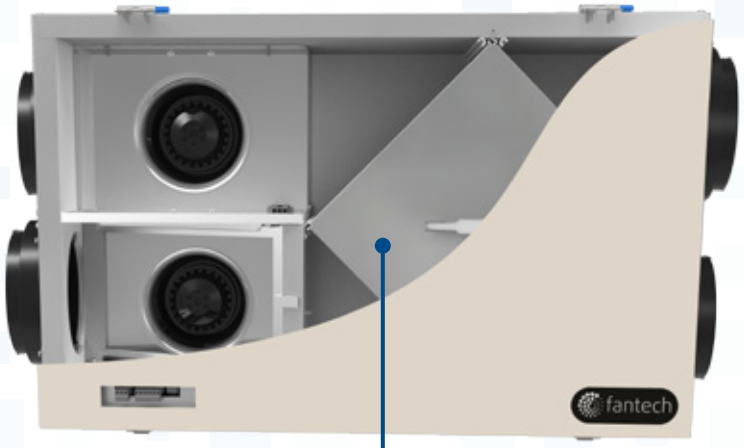
EASY ACCESS LATCHES

The design utilizes two latches for quickly accessing internal components for cleaning and maintenance.

HEAT OR ENERGY RECOVERY

Superior heat and/or energy transfer capability in a smaller package.

DESIGNED TO FIT.


fantech

Fit 120E

Energy Recovery Ventilator

NEW!

- Airflows up to 110 cfm @ 0.4" P_{st}
- 1 to 3 bedroom homes
- Energy transfer capability up to 80%
- Supply fan modulation frost prevention

Application

Fantech's newest, low profile fresh air ventilators is ideally suited for condos, apartments, as well as, for single family homes that have limited space available for HVAC equipment installations.

How it works

The Fit 120E brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. The energy recovery core at the center of the unit transfers heat and moisture from the incoming air to the outgoing air that was cooled and dried by the building's air conditioner.

Defrost cycle

A preset frost prevention sequence is activated at an outdoor air temperature of 14°F and lower. During the frost prevention sequence, the supply blower shuts down and the exhaust blower switches into high speed to maximize the effectiveness of the frost prevention strategy. The unit then returns to normal operation, and continues cycle.

Certification

Maximum continuous airflow

cfm / in.wg	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s
Net supply airflow	125	106	89	70
Gross supply airflow	129	110	93	74
Gross exhaust airflow	129	110	93	74

Energy performance

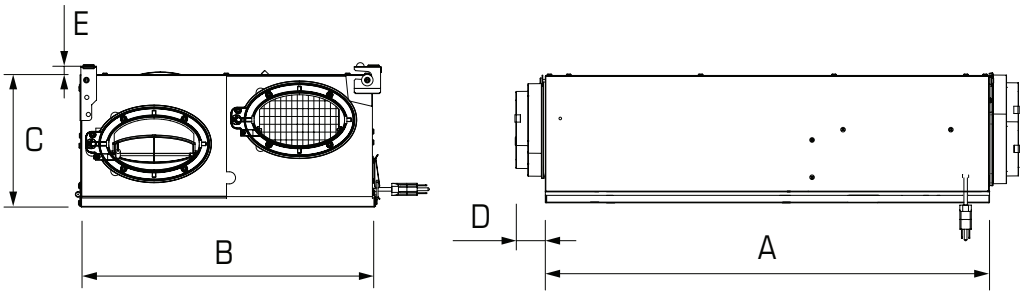
	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
Heating	32	65	82	65	85	55
	32	85	112	64	80	50
	32	98	148	63	78	48
	5	66	82	56	80	45
Cooling	95	47	82	45[1]		

[1] Total recovery efficiency

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
-Fit 120E	5 (oval)	120 / 1	170	1.8	110	Side	Automatic	42	1	44940	1,115.-

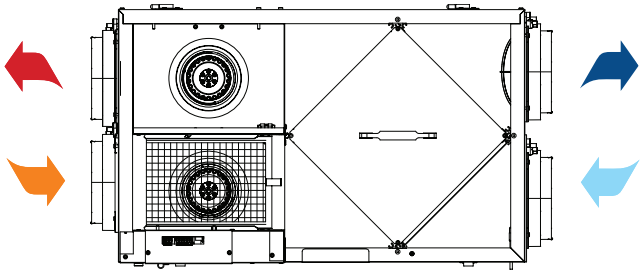
Dimensions



Model	A	B	C	D	E
Fit 120E	34 1/4	19	8 3/4	2	1/2

Dimensional information is in inches.

Operation diagram



fresh air to inside

fresh air from outside

stale air from inside

stale air to outside

Specifications

- Model: Fit 120E
- Total assembled weight: 42 lbs
- Cabinet: 24 ga. G90 galvanized steel
- Fans: backward curved blades
- Mounting: ceiling brackets included
- Insulated with 1" of foil-faced high density polystyrene foam and $^1/_4$" of closed-cell foam on the top of the unit and meet the requirements of UL 94HF.
- AHRI certified core made from water vapor transport durable polymer membrane. Core dimensions:11.5" x 11.5" x 7.8"
- Filters: 2 washable electrostatic panel type

Accessories

Eco-Touch®
Wall Control
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EDF 1
Electronic Control
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RTS 2
Electronic Timer
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EDF 7
Electronic Dehumidistat
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MGS
Supply Grille
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MGE
Exhaust Grille
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COM
Plastic Hood
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FIDT
Insulated Flex Duct
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SER 1504

Energy Recovery Ventilator

- Airflows up to 134 cfm @ 0.4" P_{st}
- 3 to 5 bedroom homes
- Enthalpy core
- Easy access service door

Application

Fantech's side port connection HRV for budget conscious home projects, the SHR 1504 unit brings a continuous supply of fresh air into a 3 to 5 bedroom home while exhausting an equal amount of contaminated air. The enthalpic core at the center of the unit transfers heat and moisture from the incoming air to the outgoing that was cooled and dried by the building's air conditioner.

How it works

When it is warm and humid outside, and cool and dry indoors, the ERV pre-cools the fresh incoming air and transfers a portion of the incoming humidity into the exhaust air, reducing the ventilation load. Reducing the load on the homes air conditioner, saves on cooling costs. This unit is designed for warmer, humid climates with longer cooling seasons.

Defrost cycle

The unit has a built-in defrost mechanism that activates at 23°F in order to prevent the energy transfer core from freezing.

Certification

Maximum continuous airflow

in.wg / cfm	0.1" P_s	0.2" P_s	0.3" P_s	0.4" P_s	0.5" P_s	0.6" P_s	0.7" P_s	0.8" P_s	0.9" P_s	1.0" P_s
Net supply airflow	162	152	143	134	127	121	115	108	98	89
Gross supply/exhaust airflow	162	152	143	134	127	121	115	108	98	89

Energy performance

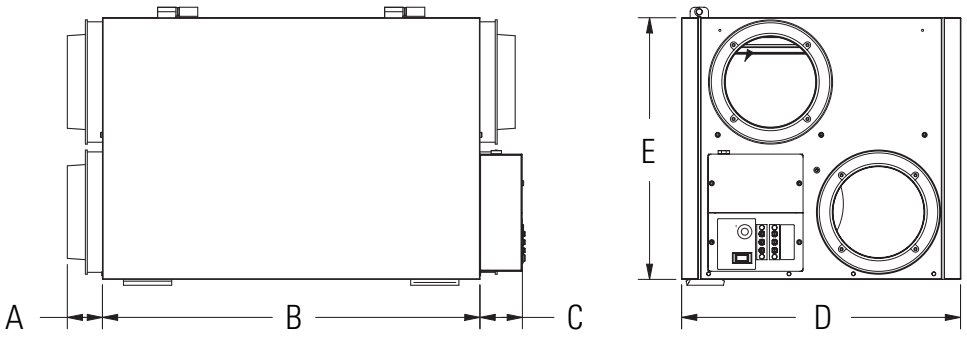
Heating	Speed	Supply temperature	Net airflow	Consumed power	Net effectiveness		
					Sensible	Latent	Total
		°F	cfm	W	%	%	%
Heating	Low	35	75	88	62	44	55
	Medium	35	115	120	59	41	53
	High	35	150	171	56	37	50
Cooling	Low	95	75	88	62	40	50
	Medium	95	115	120	59	37	46
	High	95	150	171	56	33	42

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
SER 1504	6	120 / 1	150[2]	1.5	134	Side	Automatic	49	1	40085	1,122.-

[2] High speed

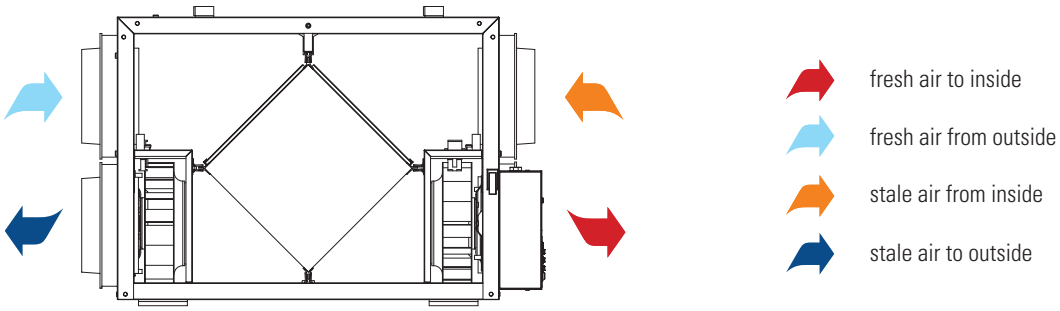
Dimensions



Model	A	B	C	D	E
SER 1504	2 1/4	23 1/2	2 5/8	17 3/8	16 1/8

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



Specifications

- Model: SER 1504
- Total assembled weight: 40 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 6"
- Mounting: ceiling suspended kit included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Washable polymer membrane enthalpy core, 9˝ x 9˝ x 15˝
- Filters: 2 washable filters, 8.5˝ x 15˝ x 0.125˝

Accessories

Eco-Touch®
Wall Control
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EDF 1
Electronic Control
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RTS 2
Electronic Timer
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EDF 7
Electronic Dehumidistat
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MGS
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Exhaust Grille
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COM
Plastic Hood
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FIDT
Insulated Flex Duct
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SER 2004
Energy Recovery Ventilator

- Airflows up to 190 cfm @ 0.4" P_{st}
- 4 to 7 bedroom homes
- Enthalpy core
- Easy access service door

Application
Fantech's larger residential, full-featured ERV for budget conscious large home projects, the SER 2004 is designed for higher static pressure and higher airflow applications. The enthalpic core at the center of the unit transfers heat and moisture from the incoming air to the outgoing that was cooled and dried by the building's air conditioner.

How it works
When it is warm and humid outside, and cool and dry indoors, the ERV pre-cools the fresh incoming air and transfers a portion of the incoming humidity into the exhaust air, reducing the ventilation load. Reducing the load on the homes air conditioner, saves on cooling costs. This unit is designed for warmer, humid climates with longer cooling seasons.

Defrost cycle
The unit has a built-in defrost mechanism that activates at 23°F in order to prevent the energy transfer core from freezing.

Certification
C US

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s
Gross supply airflow	216	190	164	140	116
Gross exhaust airflow	196	170	146	122	100

Energy performance

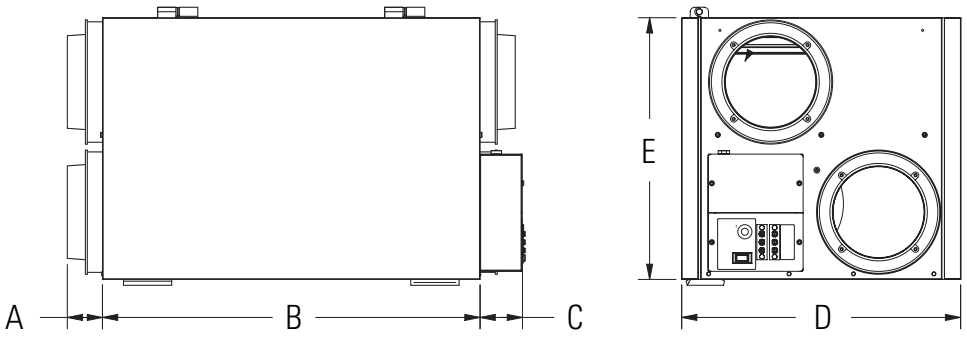
Heating	Speed	Supply temperature	Net airflow	Consumed power	Net effectiveness		
					Sensible	Latent	Total
		°F	cfm	W	%	%	%
Heating	Low	35	100	146	74	59	69
	Medium	35	150	200	70	52	63
	High	35	200	253	66	46	59
Cooling	Low	95	100	146	74	55	63
	Medium	95	150	200	70	48	56
	High	95	200	253	66	42	52

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
SER 2004	6	120 / 1	150[2]	1.9	190	Side	Automatic	66	1	40086	1,507.-

[2] High speed

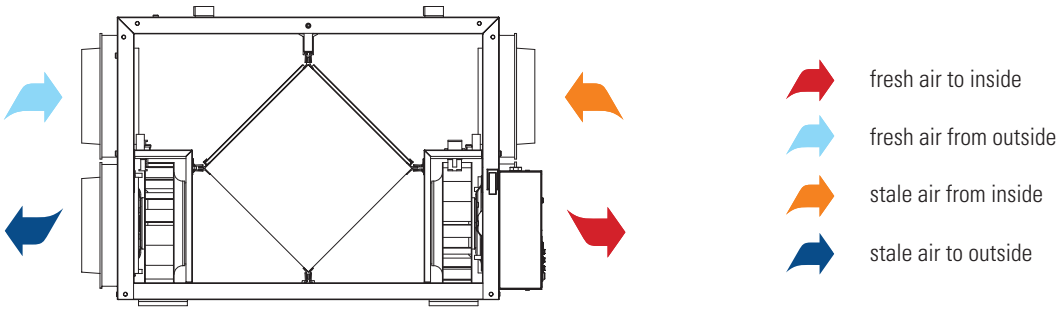
Dimensions



Model	A	B	C	D	E
SER 2004	2 1/4	27 7/8	2 5/8	17 3/8	20 1/2

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



Specifications

- Model: SER 2004
- Total assembled weight: 44 lbs
- Cabinet: 22 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 6"
- Mounting: ceiling suspended kit included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Washable polymer membrane enthalpy core, 12˝ x 12˝ x 15˝
- Filters: 2 washable filters, 11.75˝ x 15˝ x 0.125˝

Accessories

Eco-Touch®
Wall Control
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EDF 1
Electronic Control
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RTS 2
Electronic Timer
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EDF 7
Electronic Dehumidistat
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MGS
Supply Grille
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MGE
Exhaust Grille
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COM
Plastic Hood
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FIDT
Insulated Flex Duct
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SER 3204D

Energy Recovery Ventilator

- Airflows up to 202 cfm @ 0.4" P_{st}
- 4 to 7 bedroom homes
- Enthalpy core
- Easy access service door

Application

Suitable for very large residential or small commercial applications, the compact SER 3204D comes with access panels on both side of the unit for installation versatility. The enthalpic core at the center of the unit transfers heat and moisture from the incoming air to the outgoing that was cooled and dried by the building's air conditioner.

How it works

When it is warm and humid outside, and cool and dry indoors, the ERV pre-cools the fresh incoming air and transfers a portion of the incoming humidity into the exhaust air, reducing the ventilation load. Reducing the load on the homes air conditioner, saves on cooling costs. This unit is designed for warmer, humid climates with longer cooling seasons.

Defrost cycle

The unit has a built-in defrost mechanism that activates at 23°F in order to prevent the energy transfer core from freezing. They also include a condensate drain pan & spout.

Certification

C US

Maximum continuous airflow

in.wg / cfm	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s
Net supply airflow	249	202	157	113	71
Gross supply airflow	256	208	162	117	73
Gross exhaust airflow	259	217	177	138	100

Energy performance

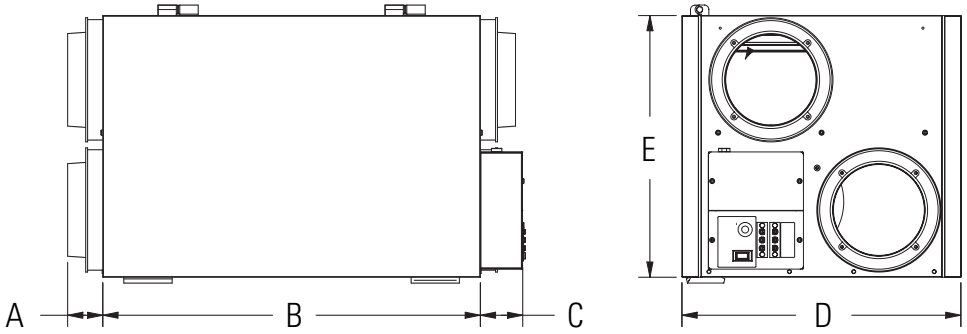
Heating	Speed	Supply temperature	Net airflow	Consumed power	Net effectiveness		
					Sensible	Latent	Total
		°F	cfm	W	%	%	%
Heating	Low	35	100	182	76	63	71
	Medium	35	150	255	74	59	69
	High	35	225	311	70	52	63
Cooling	Low	95	100	182	76	59	65
	Medium	95	150	255	74	55	63
	High	95	225	311	70	48	56

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
SER 3204D	8	120 / 1	300[2]	2.5	202	Side	Automatic	80	1	40226	2,412.-

[2] High speed

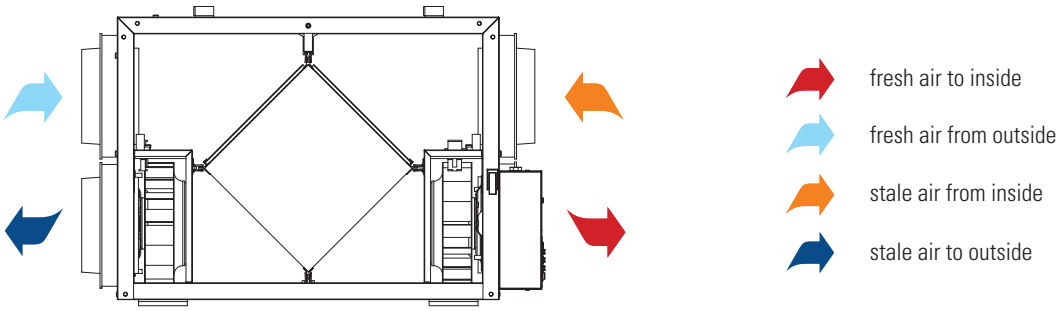
Dimensions



Model	A	B	C	D	E
SER 3204D	2 1/4	27 7/8	2 5/8	25 1/2	20 1/2

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



Specifications

- Model: SER 3204D
- Total assembled weight: 79 lbs
- Cabinet: 22 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 8"
- Mounting: hanging chains and hooks included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Two washable polymer membrane enthalpy core, 12˝ x 12˝ x 15"
- Filters: 4 washable filters, 11.75˝ x 15˝ x 0.125˝

Accessories

Eco-Touch®
Wall Control
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EDF 1
Electronic Control
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EDF 7
Electronic Dehumidistat
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MGS
Supply Grille
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MGE
Exhaust Grille
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FIDT
Insulated Flex Duct
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VH 704
Heat Recovery Ventilator

Application
Fantech's smallest and most compact top duct connection HRV, the VH 704 unit brings a continuous supply of fresh air into a 1 or 2 bedroom home while exhausting an equal amount of contaminated air.

How it works
The unit brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. The unit is designed to operate continuously on a single speed. During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle
The automatic defrost cycle consists of a fan shutdown: when the supply air stream temperature goes below 23°F, the supply motor shuts down, while the exhaust motor continues to ventilate. Ambient air is passed through the unit for a period of 3 or 5 minutes. The supply motor will then re-start and run at the preset speed.

Certification

- Airflows up to 56 cfm @ 0.4" P_{st}
- 1 to 2 bedroom homes
- Single speed: no controls needed
- Includes easy-mount wall bracket

Maximum continuous airflow

cfm \ in.wg	0.1" P_s	0.2" P_s	0.3" P_s	0.4" P_s	0.5" P_s
Net supply airflow	96	85	67	56	42
Gross supply airflow	100	88	70	58	43
Gross exhaust airflow	104	88	73	59	43

Defrost cycle time

Temperature range °F	Run / Defrost time (min)
23 to 14	40 / 3
14 to 5	30 / 5
5 & lower	20 / 5

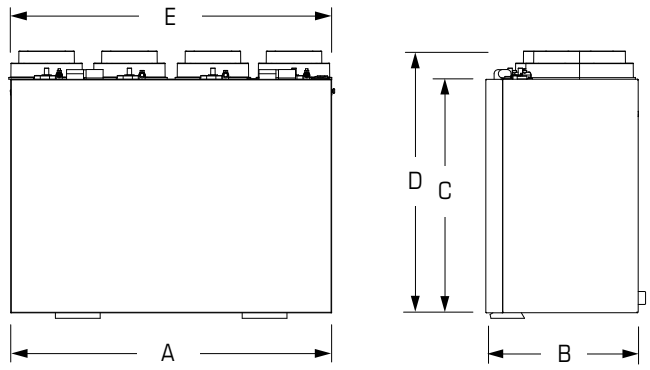
Energy performance

Heating	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
	32	55	36	57	67	0.02
	32	67	40	55	64	0.00
	32	84	40	54	60	0.00
	-13	73	35	53	66	0.01

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
VH 704	4	120 / 1	48	0.4	56	Top	Fan shutdown	32	1	40358	763.-

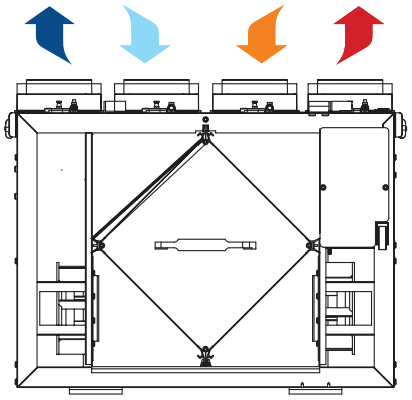
Dimensions



Model	A	B	C	D	E
VH 704	21 1/2	10 3/16	15 5/8	17 3/16	22 1/2

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside

Specifications

- Model: VH 704
- Total assembled weight: 27 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 4"
- Mounting: a wall bracket included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF
- Core: Aluminum, 8.5˝ x 8.5˝ x 8˝
- Filters: 2 washable filters, 8.5˝ x 8˝ x 0.125˝

Accessories

FTD 7
7 Day Timer
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FEL
Elbow
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MGS
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Exhaust Grille
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Plastic Hood
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FIDT
Insulated Flex Duct
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VHR 70R

Heat Recovery Ventilator

- Airflows up to 57 cfm @ 0.4" P_{st}
- 2 to 5 bedroom homes
- Recirculation defrost mechanism
- Three speed ventilation control

Application

Fantech's answer to a heat recovery ventilator (HRV) for home projects that demand better efficiency, the VHR 70R unit brings a continuous supply of fresh air into a 1 or 2 bedroom home while exhausting an equal amount of contaminated air.

How it works

The unit brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle

These units are equipped with an automatic recirculation defrost mechanism so even if you live in a cold climate you can use your HRV all year long.

Certification

Maximum continuous airflow

cfm \ in.wg	0.1" P_s	0.2" P_s	0.3" P_s	0.4" P_s	0.5" P_s	0.6" P_s
Net supply airflow	81	72	66	57	49	42
Gross supply airflow	81	74	66	57	49	42
Gross exhaust airflow	76	70	64	59	53	42

Defrost cycle time

Temperature range °F	Run / Defrost time (min)
23 to 14	40 / 3
14 to 5	30 / 5
5 & lower	20 / 5

Energy performance

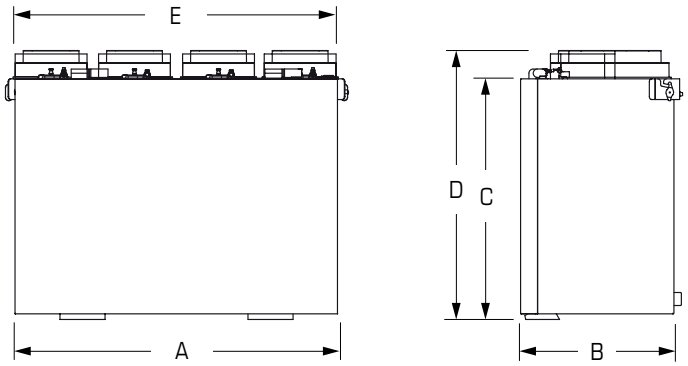
Heating	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
	32	42	36	65	74	0.01
	32	64	48	63	72	0.00
	-13	47	40	62	79	0.02
	-13	70	56	62	80	0.01

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
VHR 70R*	5	120 / 1	48	0.4	57	Top	Recirculation	30	1	44695	862.-

* This product earned the ENERGY STAR® by meeting strict efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR® requirements only when used in Canada.

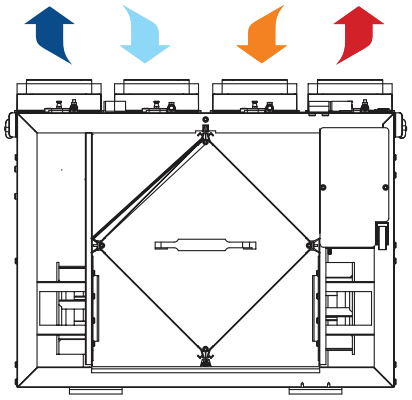
Dimensions



Model	A	B	C	D	E
VHR 70R	22 1/2	10 1/5	16	17 3/16	21 1/2

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside

Specifications

- Model: VHR 70R
- Total assembled weight: 30 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 5"oval
- Mounting: a wall bracket included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Core: Aluminum, 8.5" x 8.5" x 8"
- Filters: 2 washable filters, 8.5" x 8" x 0.125"

Accessories

Eco-Touch®
Wall Control
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EDF 1
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RTS 2 / RTS 5
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EDF 7
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FLEX 100H®

Heat Recovery Ventilator

- Airflows up to 105 cfm @ 0.4" P_{st}
- 1 to 5 bedroom homes
- Up to 50% more exhaust capacity
- Integrated airflow measurement system

Application

As Fantech's masterpiece of versatility, features and efficiency, the Flex 100H® is ideal for high-rise apartment applications, condominiums, single and multi family homes. This unit can be installed in spaces as small as 24 inches.

How it works

During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system. With its exclusive TurboTouch™ feature, the Flex 100H can deliver up to 50% more exhaust capacity to easily meet supplemental ventilation needs whenever additional airflow is required.

Defrost cycle

The FLEX 100H® incorporates a unique and quiet internal recirculation defrost that does not depressurize the home during the defrost cycle. A preset defrost sequence is activated when the outdoor temperature falls below 23°F and automatically adjusts itself based on operating conditions. The fan speed is also adjusted automatically to provide a smooth and quiet transition between Ventilation & Defrost mode.

Certification

Maximum continuous airflow

in.wg / cfm	0.1″ P_s	0.2″ P_s	0.3″ P_s	0.4″ P_s	0.5″ P_s	0.6″ P_s	0.7″ P_s	0.8″ P_s
Net supply airflow	146	129	116	105	96	88	80	73
Gross supply airflow	148	132	118	107	97	89	82	74
Gross exhaust airflow	148	133	120	107	95	84	73	63

Energy performance

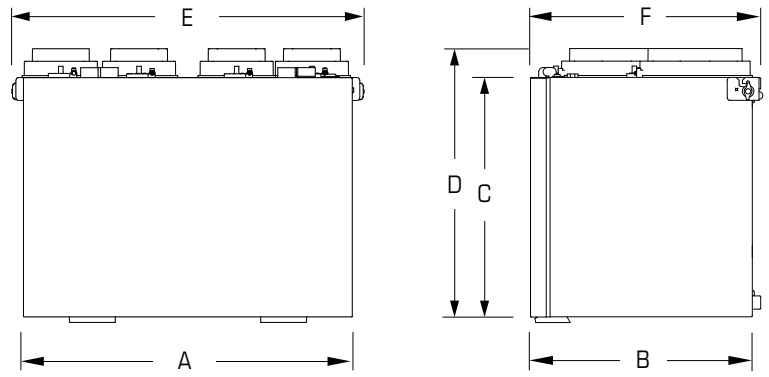
Heating	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
	32	52	46	70	80	-0.08
	32	69	56	67	75	-0.06
	32	99	102	64	73	-0.04
	-13	72	69	66	78	0.00

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average airflow @ 0.4″ P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
Flex 100H*	5 (oval)	120 / 1	168	1.4	105	Top	Recirculation	46	1	44001	967.-

* This product earned the ENERGY STAR® by meeting strict efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR® requirements only when used in Canada.

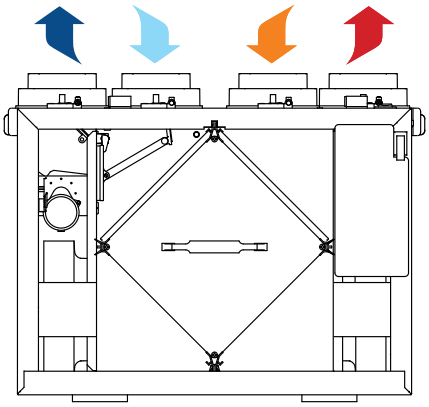
Dimensions



Model	A	B	C	D	E	F
Flex 100H®	21 1/2	14 1/2	15 5/8	17 7/8	22 1/2	15

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside

EXTRA FUNCTIONS AND SAVINGS ALWAYS GO TOGETHER

We believe extra functionality shouldn't cost more. With its exclusive TurboTouch™ feature, FLEX 100H® can deliver up to 50% more exhaust capacity to easily meet supplemental ventilation needs whenever additional airflow is required. Along with the Eco-Touch® wall control panel it delivers an unbeatable combination of improved air quality, energy savings and reliable performance year after year.

Ask for FLEX 100H-K, #47540, 47 lbs, Class 1, $1,019.-

Specifications

- Model: FLEX 100H®
- Total assembled weight: 40 lbs
- Mounting: Wall bracket included as standard
- Fans: Permanently sealed motors, backward curved blades
- Supply & Exhaust ducts: 5"oval
- Insulated with high density polystyrene foam
- Core: Aluminum, 8.5" x 8.5" x 12"
- Filters: 2 washable electrostatic filters 8.5" x 12.5" x 0.125"
- Cabinet: 24 ga. steel w/powder coat finish

Accessories

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VHR 150
Heat Recovery Ventilator

Application
One of Fantech's most popular HRV for home projects, the VHR 150 is designed for higher static pressure applications.

How it works
The unit brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle
A preset defrost sequence is activated at an outdoor air temperature of 23°F (-5°C) and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower switches into high speed to maximize the effectiveness of the defrost strategy. The unit then returns to normal operation, and continues cycle.

Certification

- Airflows up to 159 cfm @ 0.4" P_{st}
- 2 to 5 bedroom homes
- Three speed ventilation control
- Easy access service door

Maximum continuous airflow

in.wg / cfm	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s
Net supply airflow	182	159	128	101	88
Gross supply airflow	186	162	130	103	90
Gross exhaust airflow	187	165	140	114	86

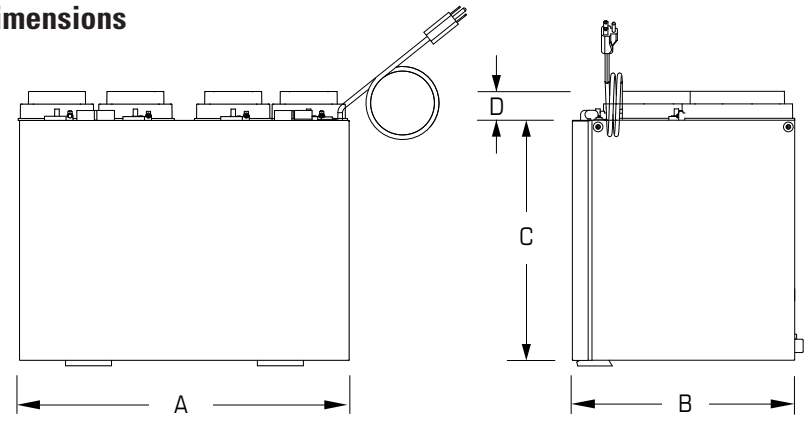
Energy performance

Heating	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
	32	85	70	61	76	-0.02
	32	101	94	63	71	-0.02
	32	159	140	60	68	-0.01
	-13	85	71	58	75	-0.01

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average airflow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
VHR 150	6 (oval)	120 / 1	156	1.2	159	Top	Automatic	45	1	44921	1,075.-

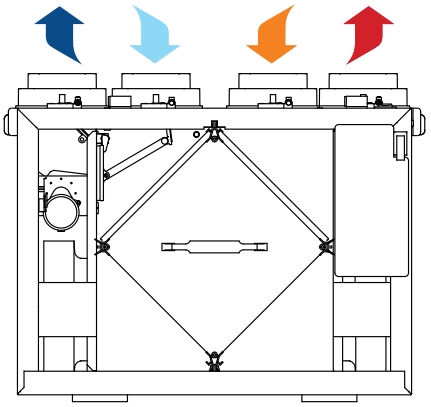
Dimensions



Model	A	B	C	D	Duct
VHR 150	23 3/4	17 3/16	16 1/4	2 3/16	6 (oval)

Dimensional information is in inches. Clearance of 17" (432 mm) in front of the unit is recommended for removal of core. All units feature three foot plug-in power cord with 3-prong plug.

Operation diagram



fresh air to inside

fresh air from outside

stale air from inside

stale air to outside

Specifications

- Model: VHR 150
- Total assembled weight: 48 lbs
- Mounting: an installation kit supplied with unit
- Fans: Permanently sealed motors, backward curved blades
- Supply & Exhaust ducts: 6"oval
- Insulated with high density expanded polystyrene
- Core: Aluminum, 9" x 9" x 15"
- Filters: 2 washable electrostatic filters 8.5" x 15" x 0.125"
- Cabinet: 24 ga. steel w/powder coat finish

Accessories

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VHR 150R

Heat Recovery Ventilator

- Airflows up to 157 cfm @ 0.4" P_{st}
- 2 to 5 bedroom homes
- Motorized damper for defrost sequence
- Integrated airflow measurement system

Application

Fantech's answer to a heat recovery ventilator (HRV) for home projects that demand higher efficiency, the VHR 150R with oval collars is designed for higher static pressure applications and is ENERGY STAR® qualified*.

How it works

The unit brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the house can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy that does not depressurize the home during the defrost cycle.

Certification

Maximum continuous airflow

cfm \ in.wg	0.1" P_s	0.2" P_s	0.3" P_s	0.4" P_s	0.5" P_s	0.6" P_s	0.7" P_s	0.8" P_s	0.9" P_s	1.0" P_s
Net supply airflow	191	180	170	157	144	133	123	110	100	87
Gross supply airflow	195	184	172	161	148	136	125	112	102	89
Gross exhaust airflow	195	184	172	161	148	136	125	112	102	89

Energy performance

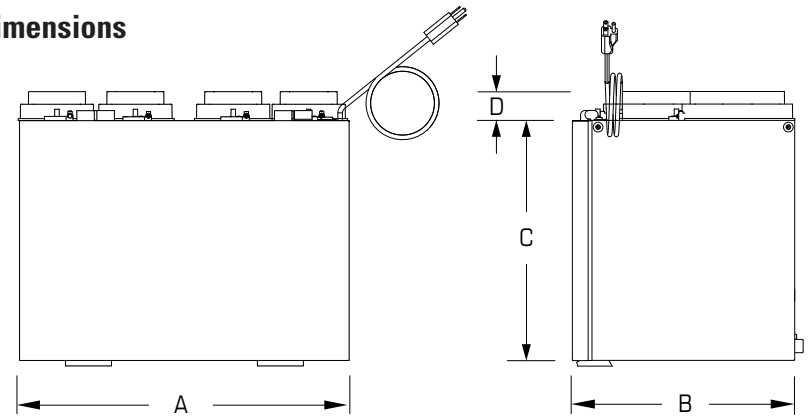
Heating	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
	32	85	70	66	79	-0.01
	32	100	86	66	79	0.01
	32	187	156	55	64	0.01
	-13	89	99	60	72	0.02

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average airflow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
VHR 150R*	6 (oval)	120 / 1	156	1.4	157	Top	Recirculation	52	1	44859	1,224.-

* This product earned the ENERGY STAR® by meeting strict efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR® requirements only when used in Canada.

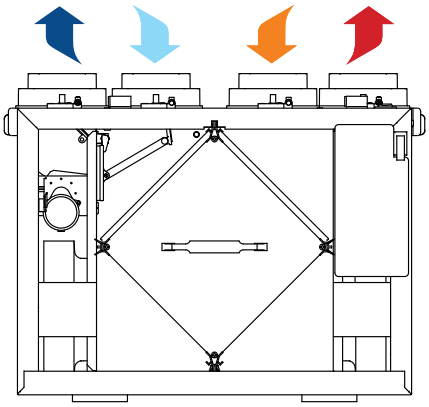
Dimensions



Model	A	B	C	D	Duct
VHR 150R	23 3/4	17 3/16	16 1/4	2 3/16	6 (oval)

Dimensional information is in inches. Clearance of 17" in front of the unit is recommended for removal of core.
The unit features a three foot plug-in power cord with 3-prong plug.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside

Specifications

- Model: VHR 150R
- Total assembled weight: 48 lbs
- Mounting: an installation kit supplied with unit
- Fans: Permanently sealed motors, backward curved blades
- Supply & Exhaust ducts: 6"oval
- Insulated with high density expanded polystyrene
- Core: Aluminum, 9" x 9" x 15"
- Filters: 2 washable electrostatic filters 8.5" x 15" x 0.125"
- Cabinet: 24 ga. steel w/powder coat finish

Accessories

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RTS 5
Electronic Timer
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EDF 7
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VHR 2004

Heat Recovery Ventilator

Application

Fantech's largest residential, full-featured HRV for budget conscious large home projects, the VHR2004 is designed for higher static pressure and higher airflow applications.

How it works

During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle

The VHR 2004 is equipped with automatic defrost mechanism so you can use your HRV all year long. A preset defrost sequence is activated at an outdoor air temperature of 23ºF and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower switches into high speed to maximize the effectiveness of the defrost strategy. The unit then returns to normal operation, and continues cycle.

Certification

- Airflows up to 197 cfm @ 0.4" P_{st}
- 3 to 7 bedroom homes
- Three speed ventilation control
- Easy access service door

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	0.9" P_s	1.0" P_s	1.1" P_s	1.2" P_s
Net supply airflow	238	197	156	118	101	85	71	59
Gross supply airflow	241	199	158	120	102	86	72	60
Gross exhaust airflow	241	211	176	141	124	109	97	86

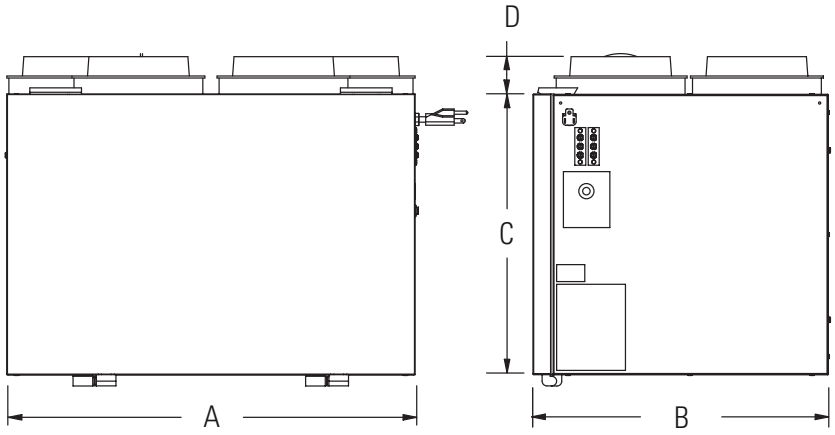
Energy performance

Heating	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	ºF	cfm	W	%	%	-
	32	60	108	62	77	0.03
	32	117	154	62	72	0.02
	32	193	246	58	68	0.02
	-13	117	154	59	77	-0.01

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
VHR 2004	6	120 / 1	228	2.1	197	Top	Automatic	66	1	40061	1,189.-

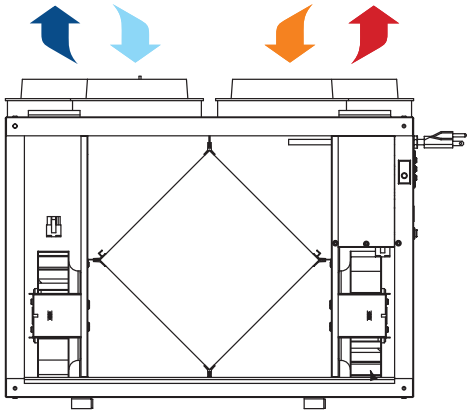
Dimensions



Model	A	B	C	D
VHR 2004	28	17 1/4	20 1/2	2 1/4

Dimensional information is in inches. Clearance of 17" (432 mm) in front of the unit is recommended for removal of core. All units feature three foot plug-in power cord with 3-prong plug.

Operation diagram



fresh air to inside

fresh air from outside

stale air from inside

stale air to outside

Specifications

- Model: VHR 2004
- Total assembled weight: 55 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 6"
- Mounting: ceiling suspended kit included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Core: Aluminum, 12˝ x 12˝ x 15˝
- Filters: 2 washable filters, 11.75˝ x 15˝ x 0.125˝

Accessories

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EDF 1
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RTS 2
Electronic Timer
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EDF 7
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VHR 2005R

Heat Recovery Ventilator

Application

Fantech's larger residential, full-featured HRV for large home projects that demand higher efficiency, the VHR2005R is designed for higher static pressure and higher airflow applications.

How it works

During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Defrost cycle

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the house can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy. During this cycle, household odors from the kitchen or bathroom are prevented from entering the home and the unit will not create negative pressure.

Certification

- Airflows up to 201 cfm @ 0.4" P_{st}
- 3 to 7 bedroom homes
- Three speed ventilation control
- Easy access service door

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s	1.2" P_s	1.4" P_s	1.5" P_s
Net supply airflow	230	201	166	137	112	88	66	55
Gross supply airflow	233	204	168	139	113	90	67	56
Gross exhaust airflow	244	215	184	151	118	93	75	63

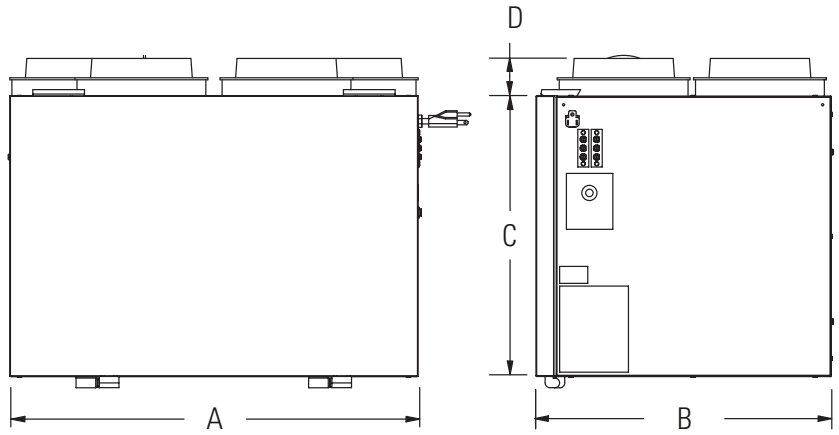
Energy performance

Heating	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
	32	65	108	62	77	0.06
	32	117	154	62	74	0.07
	32	191	246	60	71	0.00
	-13	126	141	64	81	0.01

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
VHR 2005R	6	120 / 1	228	1.8	201	Top	Recirculation	66	1	40063	1,385.-

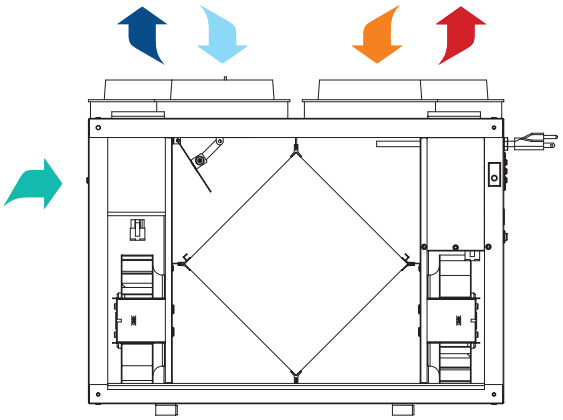
Dimensions



Model	A	B	C	D
VHR 2005R	28	17 1/4	20 1/2	2 1/4

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside
- recirculated air for defrost

Specifications

- Model: VHR 2005R
- Total assembled weight: 55 lbs
- Cabinet: 24 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 6"
- Mounting: ceiling suspended kit included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Core: Aluminum, 12˝ x 12˝ x 15˝
- Filters: 2 washable filters, 11.75˝ x 15˝ x 0.125˝

Accessories

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* - Optional recirculation duct collar for defrost cycle

LIFETIME WARRANTY CORE

The aluminum fixed-plate, cross flow heat recovery exchanger is capable of transferring heat between air streams.

MERV 13 SUPPLY AIR FILTER

The **VHR 200R-EC** comes with a MERV13 supply filter for a higher level of filtration in the home. The unit filters particle size as low as 0.3µm such as Bacteria, droplet nuclei (sneeze), cooking oil, most smoke and insecticide dust, most face powder, and most paint pigments.

MOUNTING BRACKET

The **VHR 200R-EC** is provided with an easy to install wall bracket. The unit can be mounted on the wall in less than 30 seconds. Optional mounting chains are available.

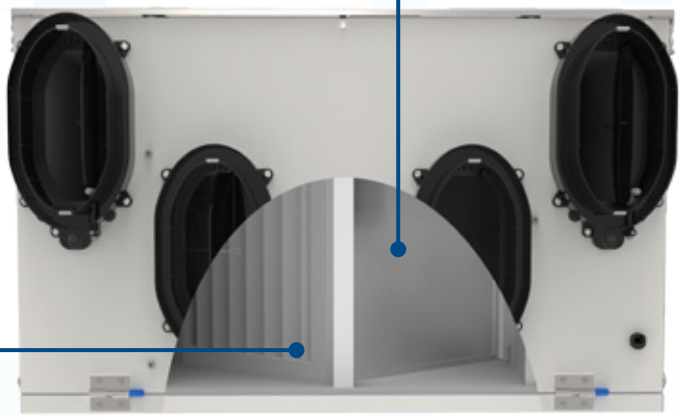
CONTROLLABILITY

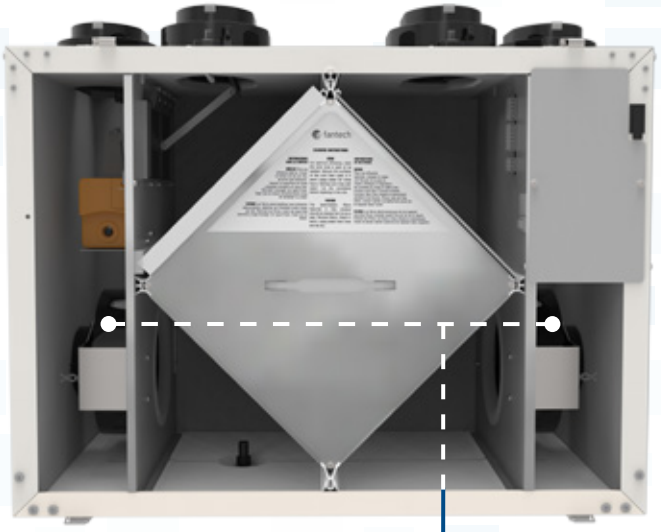
With a demand-controlled technology, the airflow is adjusted to the actual demand. Therefore, only the energy needed to create the desired result is used.

EFFICIENT FAN MOTORS

Built-in ECM fans exhibit the highest operating efficiency, especially when speed is reduced to match air flow rate demand. It means when there's less demand, the fan slows down and uses less energy.

AS MUCH AIR AS NECE
AS LITTLE ENERGY AS





SSARY,
POSSIBLE.

VHR 200R-EC

Heat Recovery Ventilator

NEW!

DRIVEN BY EC TECHNOLOGY

- Airflows up to 207 cfm @ 0.4" P_{st}
- 3 to 7 bedroom homes
- MERV 13 supply filter
- 40/20 recirculation/ventilation mode

Application

The unit was specifically designed for residential applications with airflows that range from 80 cfm to 215 cfm. The HRV utilizes a MERV-13 pleated filter for the supply air that filters particles as small as 0.3µm such as: bacteria, droplet nuclei, cooking oil, most smoke and insecticide dust, most face powder, and most paint pigments.

How it works

During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system. The ventilator is equipped with a recirculation defrost mechanism so you can use your HRV all year long.

Defrost cycle

The unit incorporates a unique and quiet internal recirculation defrost that does not depressurize the home during the defrost cycle. A preset defrost sequence is activated when the outdoor temperature falls below 23° F (-5° C) and automatically adjusts itself based on operating conditions. The fan speed is also adjusted automatically to provide a smooth and quiet transition between Ventilation & Defrost modes.

Maximum continuous airflow

in.wg / cfm	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s
Net supply airflow	222	207	190	173
Gross supply airflow	226	211	194	176
Gross exhaust airflow	244	226	208	190

Energy performance

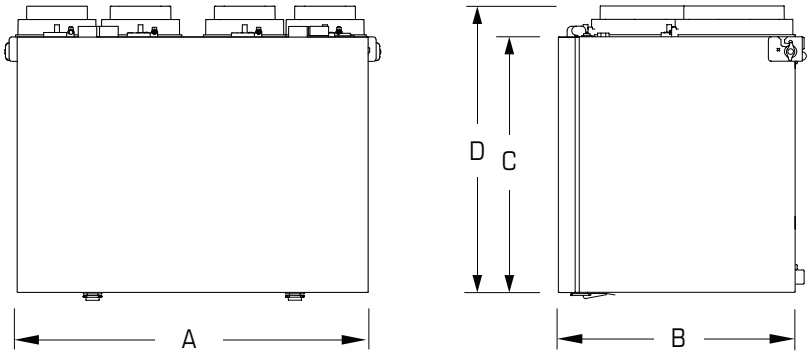
	Supply temperature	Net airflow	Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	cfm	W	%	%	-
Heating	32	75	38	70	76	0.02
	32	116	80	66	74	0.03
	32	200	185	62	70	0.03
	-13	75	70	65	80	0.04

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average airflow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
VHR 200R-EC	6 (oval)	120 / 1	200	2.0	215	Top	Automatic	74	1	75269	1,987.-

* This product earned the ENERGY STAR® by meeting strict efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR® requirements only when used in Canada.

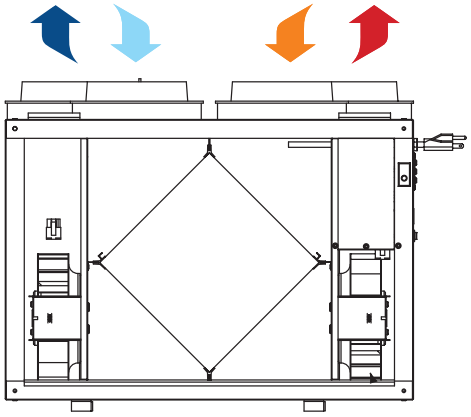
Dimensions



Model	A	B	C	D	E	Duct Dia.
VHR 200R-EC	28	17	20 1/2	22 11/16	22 1/2	6

Dimensional information is in inches. Clearance of 12" in front of the unit is recommended for removal of core.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside

Specifications

- Model: VHR 200R-EC
- Total assembled weight: 74 lbs
- Mounting: the wall bracket is included
- Fans: Permanently sealed ECM fans, backward curved blades
- Supply & Exhaust ducts: 6"oval
- Insulated with high density expanded polystyrene
- Core: Aluminum heat recovery core for efficient cross-flow ventilation
- Filters: MERV 13 (supply), washable electrostatic filter (exhaust)
- Cabinet: 24 ga. steel w/powder coat finish

Accessories

Eco-Touch®
Wall Control
page 262

EDF 1R
Electronic Control
page 262

RTS 5
Electronic Timer
page 262

EDF 7
Electronic Dehumidistat
page 262

MGS
Supply Grille
page 263

MGE
Exhaust Grille
page 263

FIDT
Insulated Flex Duct
page 265

AEV 1000
Air Exchanger

Application
Suitable for temperate climates, where balanced ventilation is needed, an Air Exchanger Ventilator (AEV 1000) is designed to provide fresh air into a 1 or 2 bedroom home while exhausting an equal amount of stale air.

How it works
During the winter months, the incoming cold fresh air is warmed by mixing it with return air before it is supplied to the home. During summer months when the indoor space is air conditioned, the AEV will help in cooling the incoming fresh air with the stale air that is being exhausted.

The unit runs continuous or on intermittent, giving the homeowner complete control over their air quality. Continuous low speed ventilation is recommended, which will help eliminate carbon dioxide, voc's and other gases as well as freshen up the home. Intermittent high speed ventilation can be obtained through a variety of optional remote controls.

Certification

- Airflows up to 68 cfm @ 0.2" P_{st}
- 1 to 2 bedroom homes
- Suitable for temperate climate
- Washable filters

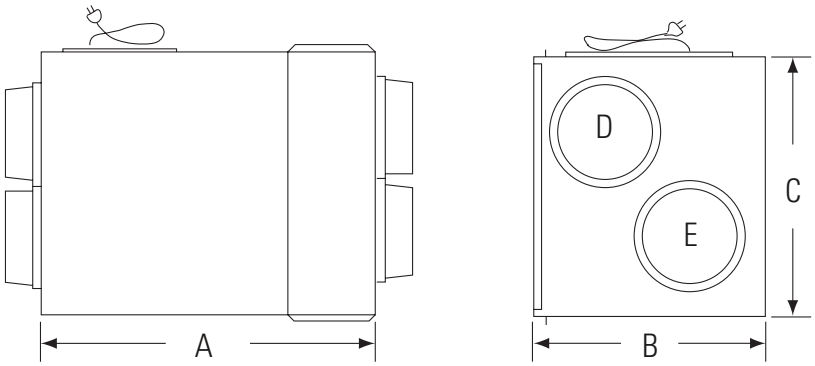
Maximum continuous airflow

in.wg / cfm	0.05" P_s	0.1" P_s	0.15" P_s	0.2" P_s	0.25" P_s	0.3" P_s
Supply airflow	110	93	80	68	52	35
Exhaust airflow	100	84	70	56	44	29

Specification data

Model	Duct size	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm			lbs			USD
AEV 1000	5	120 / 1	81	0.7	68	Side	None	25	1	40146	457.-

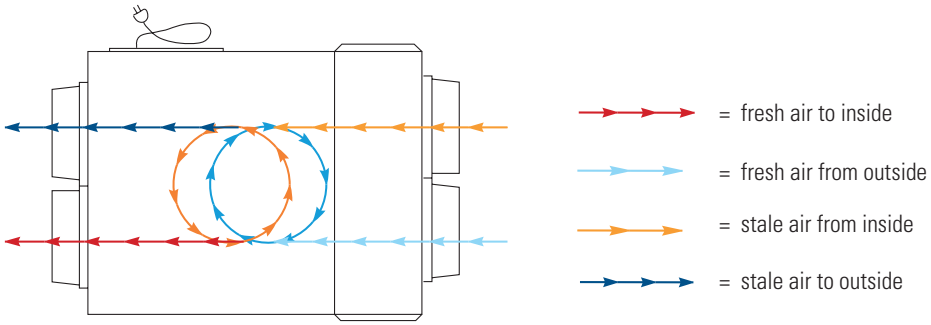
Dimensions



Model	A	B	C	D	E
AEV 1000	18 3/16	12 1/2	14	5	5

Dimensional information is in inches.

Operation diagram



Specifications

- Model: AEV 1000
- Total assembled weight: 25 lbs
- Cabinet: 22 ga. steel w/powder coat finish
- Fans: backward curved blades
- Supply & Exhaust ducts: 5"
- Mounting: hanging chains included
- Insulated with 1" aluminum foil-face high density polystyrene foam to prevent condensation and meet the requirements of UL 94HF.
- Filters: 1 washable filters, 11.8″ x 12.9″ x 0.63″

Accessories

MDEH
Dehumidistat
page 262

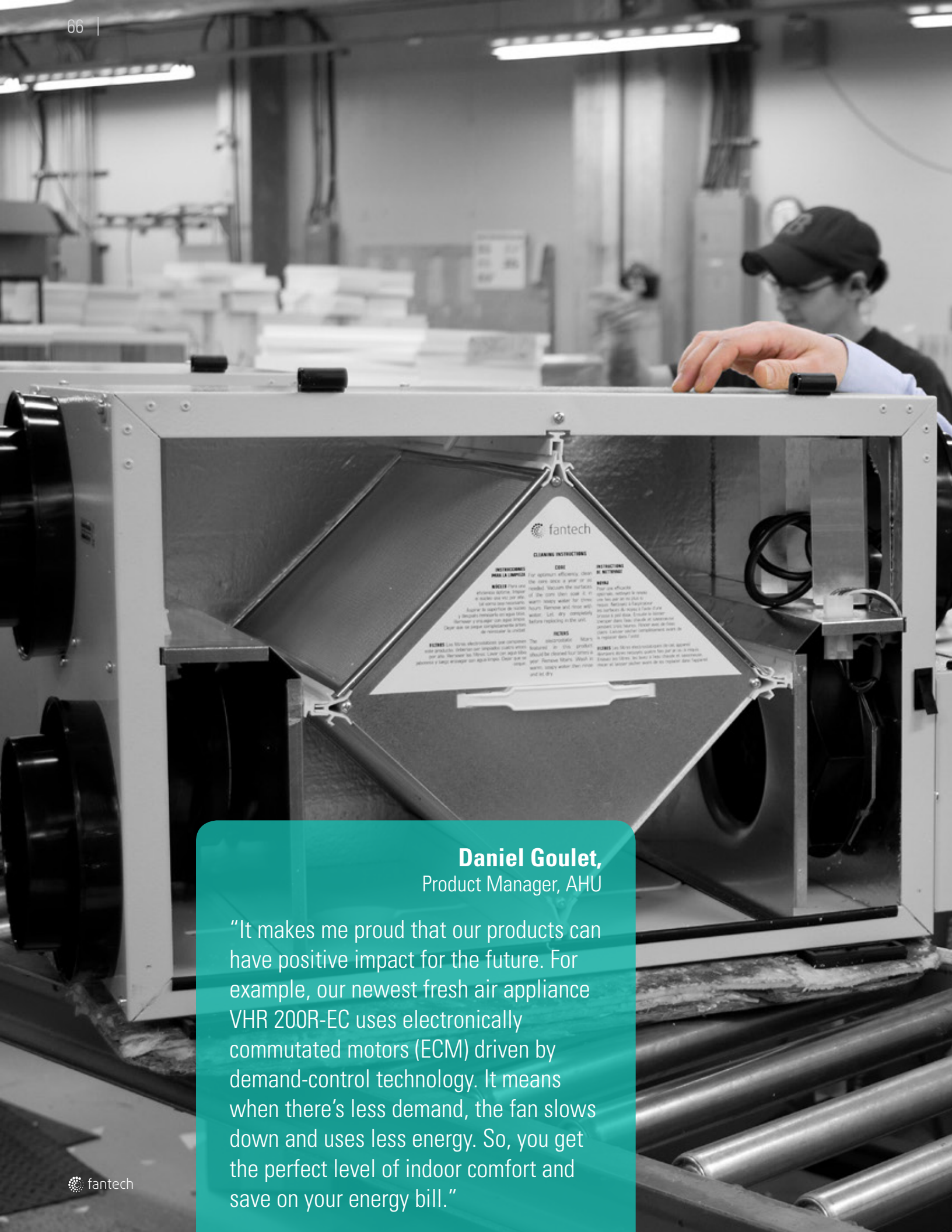
RSK *
Backdraft Damper
page 266

DG / DGD
Exhaust Grille
page 263

CG
Contour Grille
page 263

FIDT
Insulated Flex Duct
page 265

* for backdraft prevention



Daniel Goulet,
Product Manager, AHU

"It makes me proud that our products can have positive impact for the future. For example, our newest fresh air appliance VHR 200R-EC uses electronically commutated motors (ECM) driven by demand-control technology. It means when there's less demand, the fan slows down and uses less energy. So, you get the perfect level of indoor comfort and save on your energy bill."

SUSTAINABILITY IS A GOOD PRODUCT FEATURE

SHR 6904

Heat Recovery Ventilator

Application

The SHR 6904 Commercial Heat Recovery Ventilation system (HRV) complements today's tight commercial buildings and large residential homes.

How it works

Fantech Heat Recovery Ventilators (HRV) are designed to supply air into a building while exhausting an equal amount of contaminated air to the outside. The aluminum heat exchange core transfers sensible energy between air steams resulting in tempering of the supply air and reduced loads on the HVAC system.

Defrost cycle

A preset defrost sequence is activated at an outdoor air temperature of 23°F and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower continues to ventilate for a few minutes. The unit then returns to normal operation, and continues cycle.

Certification

- Airflows up to 685 cfm @ 0.4" P_{st}
- Push-Pull configuration for lower outdoor air contamination
- BMS compatible
- Dual service doors

Maximum continuous airflow

cfm \ in.wg	0.3" P_s	0.4" P_s	0.5" P_s	0.6" P_s	0.7" P_s	0.8" P_s	0.9" P_s	1.0" P_s	1.1" P_s	1.2" P_s
Supply airflow (high)	722	685	651	615	580	542	508	474	437	401
Exhaust airflow (high)	722	685	651	615	580	542	508	474	437	401

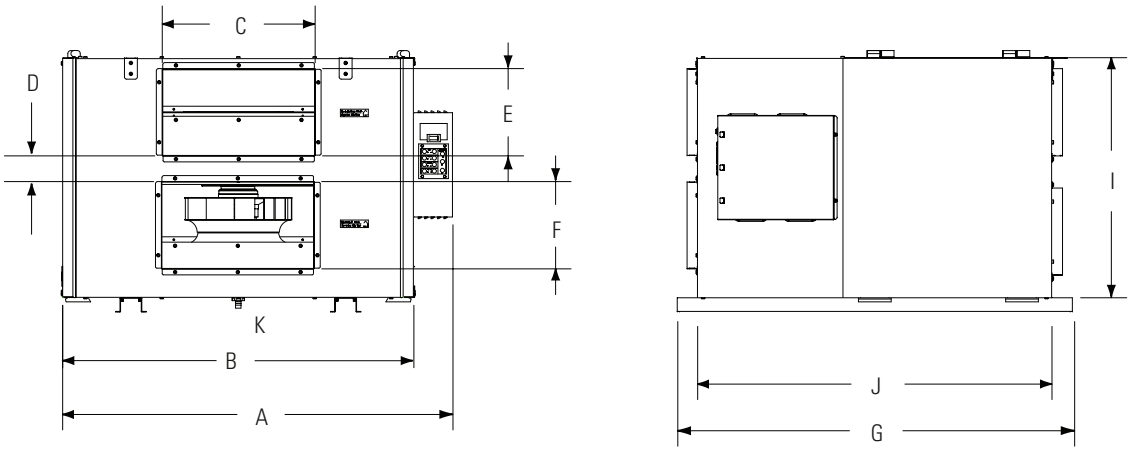
Energy performance

	Supply temperature	Net airflow	Sensible effectiveness
	°F	cfm	%
Heating	35	690	56
	35	518	61
Cooling	95	690	47
	95	518	49

Specification data

Model	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	V / ~	W	A	cfm			lbs			USD
SHR 6904	120 / 1	660	5.5	685	Side	Automatic	252	3	40417	2,767.-

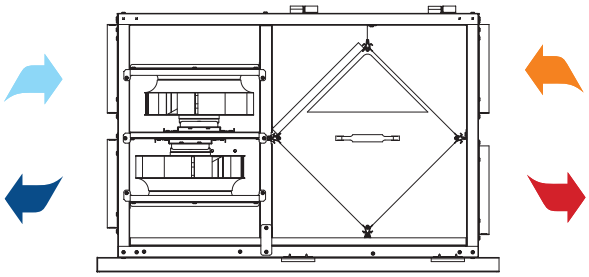
Dimensions



Model	A	B	C	D	E	F	G	I	J	K (drain spout)
SHR 6904	36 1/2	32 5/16	14	3	8	8	36 1/4	22	32 1/2	1/2

Dimensional information is in inches.
* Electrical box can easily be relocated to the field to either the front or the back of the cabinet, depending on port direction installer chooses.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside

Specifications

- Model: SHR 6904
- Total assembled weight: 185 lbs
- Cabinet: 20 ga. steel w/powder coat finish
- Fans: backward curved blades
- Mounting: unit may be suspended by using threaded rod (not supplied) or placed on a platform
- Insulated with 1" aluminum foil-face fiberglass insulation to prevent condensation and meet the requirements of UL 94HF.
- Core: 2 cores each 12" x 12" x 15"
- Filters: 4 washable electrostatic filters 11.5˝ x 11.4˝ x 0.125˝

Accessories

Eco-Touch®
Wall Control
page 262

EDF 1
Electronic Control
page 262

EDF 7
Electronic Dehumidistat
page 262

RTS 3
Electronic Timer
page 262

MDEH
Dehumidistat
page 262

MGS
Supply Grille
page 263

MGE
Exhaust Grille
page 263

IR
Iris Damper
page 268

SHR 6905R

Heat Recovery Ventilator

- Airflows up to 685 cfm @ 0.4" P_{st}
- Push-Pull configuration for lower outdoor air contamination
- BMS compatible
- Dual service doors

Application

The SHR 6905R Commercial Heat Recovery Ventilation system (HRV) complements today's tight commercial buildings and large residential homes.

How it works

Fantech Heat Recovery Ventilators (HRV) are designed to supply air into a building while exhausting an equal amount of contaminated air to the outside. The aluminum heat exchange core transfers sensible energy between air steams resulting in tempering of the supply air and reduced loads on the HVAC system.

Defrost cycle

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the building can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy.

Certification

AHRI CERTIFIED™ C SP US

Maximum continuous airflow

cfm \ in.wg	0.3" P_s	0.4" P_s	0.5" P_s	0.6" P_s	0.7" P_s	0.8" P_s	0.9" P_s	1.0" P_s	1.1" P_s	1.2" P_s
Supply airflow (high)	722	685	651	615	580	542	508	474	437	401
Exhaust airflow (high)	722	685	651	615	580	542	508	474	437	401

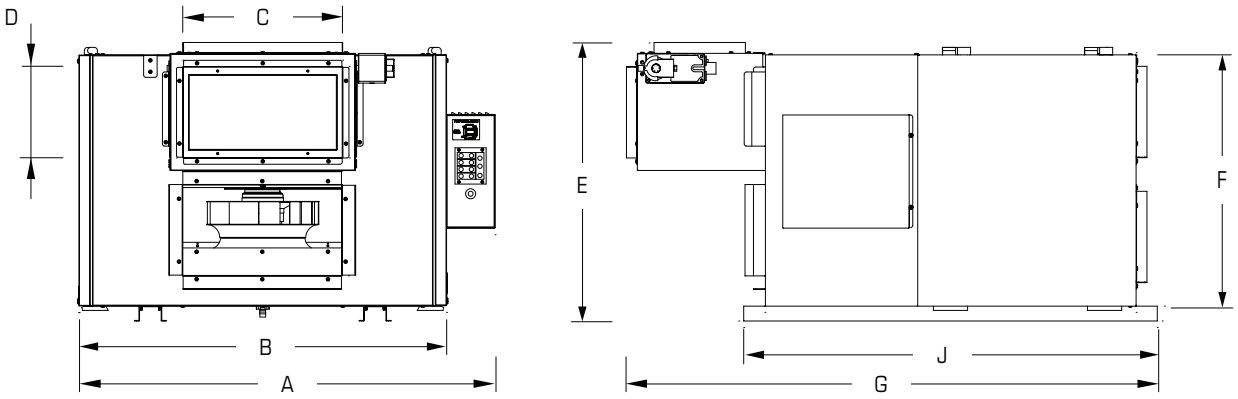
Energy performance

	Supply temperature	Net airflow	Sensible effectiveness
	°F	cfm	%
Heating	35	690	56
	35	518	61
Cooling	95	690	47
	95	518	49

Specification data

Model	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	V / ~	W	A	cfm			lbs			USD
SHR 6905R	120 / 1	660	5.5	685	Side	Recirculation	270	3	41047	2,979.-

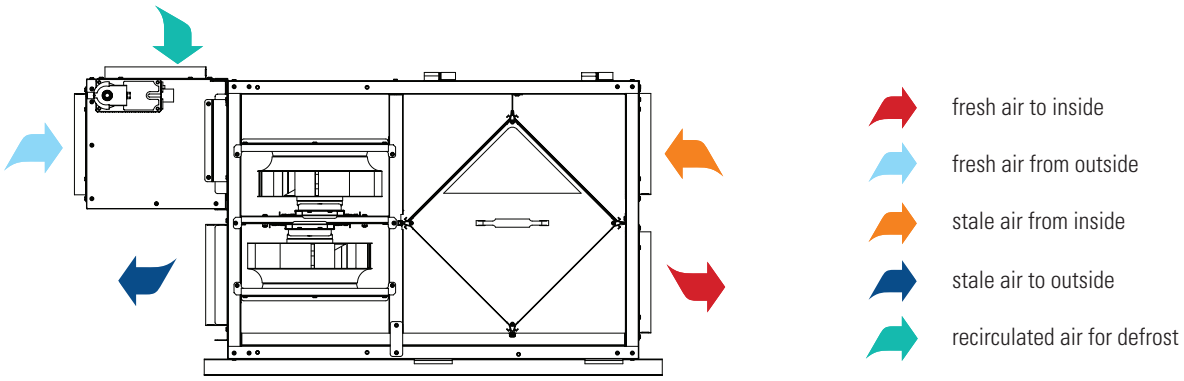
Dimensions



Model	A	B	C	D	E	F	G	J
SHR 6905R	36 1/2	32 5/16	14	8	24 3/8	22	46 1/2	36 1/4

Dimensional information is in inches.
* Electrical box can easily be relocated to the field to either the front or the back of the cabinet, depending on port direction installer chooses.

Operation diagram



Specifications

- Model: SHR 6905R
- Total assembled weight: 201 lbs
- Cabinet: 20 ga. steel w/powder coat finish
- Fans: backward curved blades
- Mounting: unit may be suspended by using threaded rod (not supplied) or placed on a platform
- Insulated with 1" aluminum foil-face fiberglass insulation to prevent condensation and meet the requirements of UL 94HF.
- Core: 2 cores each 12" x 12" with a 15" depth
- Filters: 4 washable electrostatic filters

Accessories

Eco-Touch®
Wall Control
page 262

EDF 1
Electronic Control
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EDF 7
Electronic Dehumidistat
page 262

RTS 3
Electronic Timer
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MDEH
Dehumidistat
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MGS
Supply Grille
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MGE
Exhaust Grille
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IR
Iris Damper
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Fantech HRVs Provide "Right Fit" for Space and Climate at Colorado Best Western Hotel

It was a head-scratcher to say the least.

First, why jam a dehumidification unit into an equipment room that doesn't leave adequate room for servicing? Second, why use mechanical cooling equipment for the purpose of dehumidification in an area of the country where the dew point is rarely above 49°F and the air is driest in July?

Location: Craig, Colorado
Contractor: Masterworks Mechanical
Installed products: SHR 6905R, SHR 14105R

"Right Fit" for Space and Climate
in Craig, Colorado

Dave DeRose of Masterworks Mechanical still wonders what could have led to the unorthodox installation. The refrigeration-based unit was installed for the purpose dehumidifying the indoor pool and spa area at the Best Western Plus Deer Park Inn & Suites in Craig, Colorado. Masterworks, also in Craig, was not involved in the original installation, but the firm had been servicing the hotel's plumbing and mechanical systems for the better part of the last decade when time came to replace the 18-year-old unit. DeRose recalled how challenging it was to perform routine maintenance on the dehumidifier.

"We actually had to cut a hole in the wall of the hotel and get on top of a scaffold in order to change the belts and service the coils," said DeRose.

Masterworks even installed a new set of metal doors where that hole was cut to provide access for subsequent services. When the unit failed in early 2014, it was an opportune time to employ a new dehumidification strategy.

DeRose suggested Fantech Heat Recovery Ventilators (HRV) for the job.

Dehumidification, Fresh Air AND Load Reduction

Unlike the previous unit, which only introduced a scant amount of fresh air into the pool space, the Fantech HRV is designed to supply fresh air while exhausting an equal amount of contaminated air to the outside. At the same time the unit's aluminum heat exchanger core transfers the sensible energy between the supply and exhaust air streams, thereby pre-tempering the supply air to the space. As a result there is a significant load reduction on the building HVAC system.

After the old unit was disassembled and removed, two new Fantech SHR units were installed in the equipment room with room to spare for servicing. The units are installed to operate in series, one capable of delivering up to 1,430 cfm and a smaller one capable of delivering 687 cfm. Each unit is controlled by a dehumidistat, which is set to operate the units to maintain a comfortable 40% humidity inside the indoor pool area. Each unit has a sensible effectiveness well over 50% in the heating season and just below 50% in the cooling season.

Most importantly, the Fantech units have delivered worry-free service, which is what matters most to Kerry Moe, owner of the hotel.

> "We don't notice it. It does its job with little effort on our part, so I don't have to worry about it. Also, considering how many power outages we get in this rural area, this unit easily restarts without any problems. Our previous unit was 3-phase power, and occasionally the motor would have problems without all the power returning all at once," said Moe.

Effective Even at 20°F Below

The outdoor temperature in Craig can plummet to well below zero (°F) in winter, so an inline duct heater is installed downstream of the HRVs to bring the supply air up-to-temp during cold weather conditions. Besides that, the HRVs include a defrost function in which a motorized damper temporarily blocks the incoming outdoor air stream so that the warm air from the building can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy.

"In the winter it's not uncommon for us to see -25°F weather and it is really impressive to see the plume of condensate that is expelled by the system when it is running under those conditions. At that temperature we are relying on the duct heater a lot but it still is not the energy consumption that the old unit would have been using," said DeRose.

Even under these extreme conditions the previous dehumidifier would have employed a refrigeration cycle to dehumidify the air, which would then have to be reheated via an integral reheat coil before it could be introduced into the space. Because of the operational design of the unit, some degree of reheat was needed even during the cooling season. Given the semi-arid climate in Craig it makes much more sense to let Mother Nature handle the dehumidification load. Her rates are cheaper.

In the winter, it's not uncommon for us to see -25°F weather and it is really impressive to see the plume of condensate that is expelled by the system when it is running under those conditions.

Dave DeRose, Masterworks Mechanical

SHR 8004

Heat Recovery Ventilator

Application

The SHR 8004 Commercial Heat Recovery Ventilation system (HRV) complements today's tight commercial buildings and large residential homes.

How it works

Fantech Heat Recovery Ventilators (HRV) are designed to supply air into a building while exhausting an equal amount of contaminated air to the outside. The aluminum heat exchange core transfers sensible energy between air steams resulting in tempering of the supply air and reduced loads on the HVAC system.

Defrost cycle

A preset defrost sequence is activated at an outdoor air temperature of 23°F and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower continues to ventilate for a few minutes. The unit then returns to normal operation, and continues cycle.

Certification

- Airflows up to 788 cfm @ 0.4" P_{st}
- Push-Pull configuration for lower outdoor air contamination
- BMS compatible
- Dual service doors

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.8" P_s	1.0" P_s	1.4" P_s	1.7" P_s
Supply airflow (high)	829	788	684	620	446	330
Exhaust airflow (high)	829	788	684	620	446	330

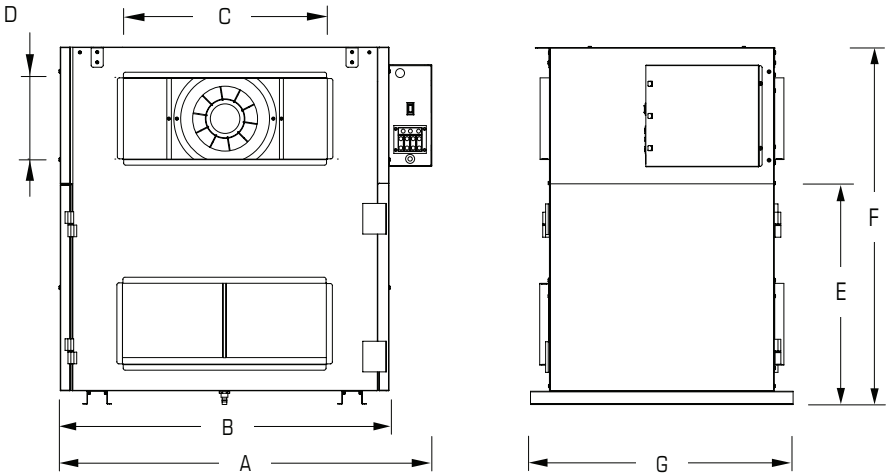
Energy performance

	Supply temperature	Net airflow	Apparent sensible effectiveness
	°F	cfm	%
Heating	35	800	56
	35	600	59
Cooling	95	800	46
	95	600	48

Specification data

Model	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	V / ~	W	A	cfm			lbs			USD
SHR 8004	120 / 1	636	5.3	788	Side	Automatic	228	3	40443-1	2,904.-

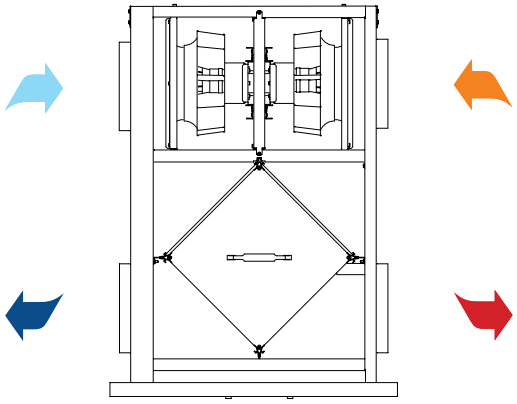
Dimensions



Model	A	B	C	D	E	F	G
SHR 8004	36 1/2	32 3/16	20	8	21 1/2	35	25 3/4

Dimensional information is in inches.
* Electrical box can easily be relocated to the field to either the front or the back of the cabinet, depending on port direction installer chooses.

Operation diagram



fresh air to inside
fresh air from outside
stale air from inside
stale air to outside

Specifications

- Model: SHR 8004
- Total assembled weight: 158 lbs
- Cabinet: 20 ga. steel w/powder coat finish
- Fans: backward curved blades
- Mounting: unit may be suspended by using threaded rod (not supplied) or placed on a platform
- Insulated with 1" aluminum foil-face fiberglass insulation to prevent condensation and meet the requirements of UL 94HF
- Filters: 4 washable electrostatic filters
- Core: 2 cores each 12" x 12" with a 15" depth

Accessories

Eco-Touch®
Wall Control
page 262

EDF 1
Electronic Control
page 262

EDF 7
Electronic Dehumidistat
page 262

RTS 3
Electronic Timer
page 262

MDEH
Dehumidistat
page 262

MGS
Supply Grille
page 263

MGE
Exhaust Grille
page 263

IR
Iris Damper
page 268

SHR 8005R

Heat Recovery Ventilator

Application

The SHR 8005R Commercial Heat Recovery Ventilation system (HRV) complements today's tight commercial buildings and large residential homes.

How it works

Fantech Heat Recovery Ventilators (HRV) are designed to supply air into a building while exhausting an equal amount of contaminated air to the outside. The aluminum heat exchange core transfers sensible energy between air steams resulting in tempering of the supply air and reduced loads on the HVAC system.

Defrost cycle

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the building can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy.

Certification

- Airflows up to 788 cfm @ 0.4" P_{st}
- Push-Pull configuration for lower outdoor air contamination
- BMS compatible
- Dual service doors

Maximum continuous airflow

in.wg / cfm	0.2" P_s	0.4" P_s	0.8" P_s	1.0" P_s	1.4" P_s	1.7" P_s	1.9" P_s
Supply airflow (high)	829	788	684	620	446	330	229
Exhaust airflow (high)	829	788	684	620	446	330	229

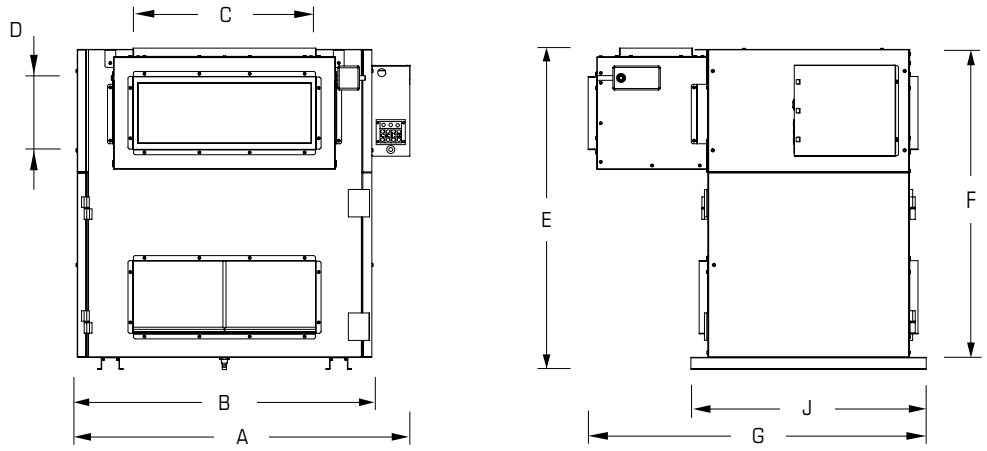
Energy performance

	Supply temperature	Net airflow	Apparent sensible effectiveness
	°F	cfm	%
Heating	35	800	56
	35	600	59
Cooling	95	800	46
	95	600	48

Specification data

Model	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	V / ~	W	A	cfm			lbs			USD
SHR 8005R	120 / 1	636	5.3	788	Side	Recirculation	225	3	40455-1	3,480.-

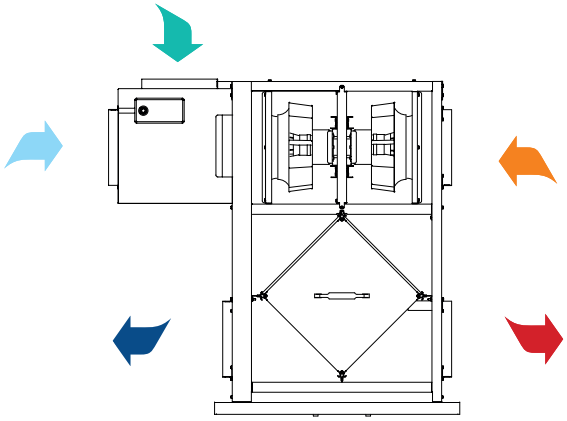
Dimensions



Model	A	B	C	D	E	F	G	J
SHR 8005R	36 1/2	32 3/16	20	8	35	33 5/8	36	25 3/4

Dimensional information is in inches.
* Electrical box can easily be relocated to the field to either the front or the back of the cabinet, depending on port direction installer chooses.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside
- recirculated air for defrost

Specifications

- Model: SHR 8005R
- Total assembled weight: 177 lbs
- Cabinet: 20 ga. steel w/powder coat finish
- Fans: backward curved blades
- Mounting: unit may be suspended by using threaded rod (not supplied) or placed on a platform
- Insulated with 1" aluminum foil-face fiberglass insulation to prevent condensation and meet the requirements of UL 94HF
- Filters: 4 washable electrostatic filters
- Core: 2 cores each 12" x 12" with a 15" depth

Accessories

Eco-Touch®
Wall Control
page 262

EDF 1
Electronic Control
page 262

EDF 7
Electronic Dehumidistat
page 262

RTS 3
Electronic Timer
page 262

MDEH
Dehumidistat
page 262

MGS
Supply Grille
page 263

MGE
Exhaust Grille
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IR
Iris Damper
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SHR 11004

Heat Recovery Ventilator

Application

The SHR 11004 Commercial Heat Recovery Ventilation system (HRV) complements today's tight commercial buildings and large residential homes.

How it works

Fantech Heat Recovery Ventilators (HRV) are designed to supply air into a building while exhausting an equal amount of contaminated air to the outside. The aluminum heat exchange core transfers sensible energy between air steams resulting in tempering of the supply air and reduced loads on the HVAC system.

Defrost cycle

A preset defrost sequence is activated at an outdoor air temperature of 23ºF and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower continues to ventilate for a few minutes. The unit then returns to normal operation, and continues cycle.

Certification

- Airflows up to 1,053 cfm @ 0.4" P_{st}
- Push-Pull configuration for lower outdoor air contamination
- BMS compatible
- Dual service doors

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.8" P_s	1.0" P_s	1.4" P_s	1.7" P_s
Supply airflow (high)	1162	1053	842	739	540	397
Exhaust airflow (high)	1162	1053	842	739	540	397

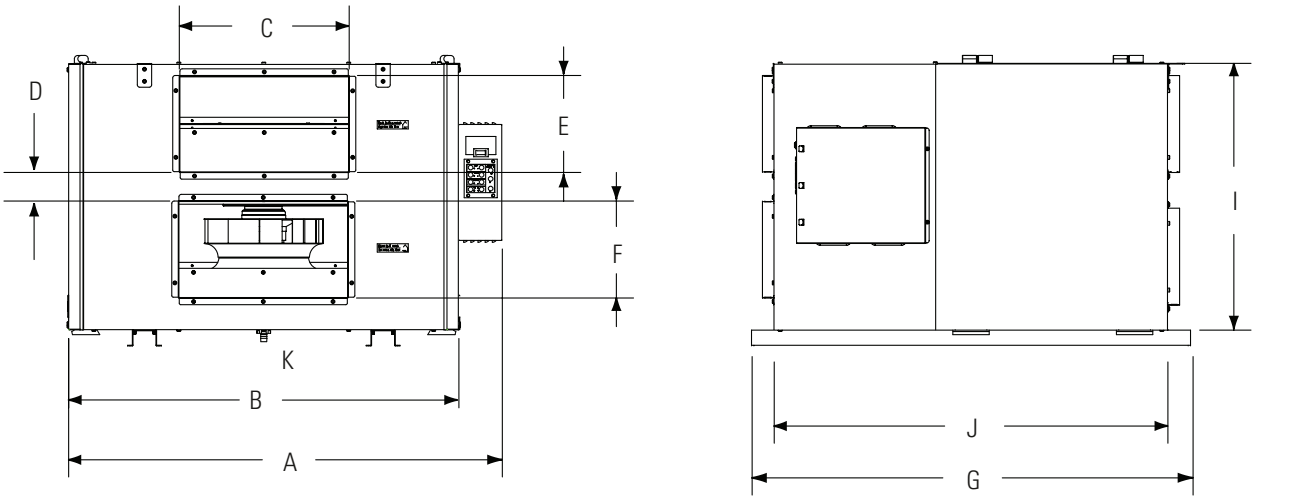
Energy performance

	Supply temperature	Net airflow	Sensible effectiveness
	ºF	cfm	%
Heating	35	1035	56
	35	776	61
Cooling	95	1035	47
	95	776	49

Specification data

Model	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	V / ~	W	A	cfm			lbs			USD
SHR 11004	120 / 1	1320	11	1053	Side	Automatic	310	3	40419	3,549.-

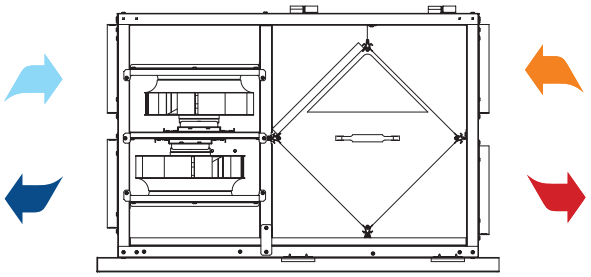
Dimensions



Model	A	B	C	D	E	F	G	I	J
SHR 11004	51 2/5	47 1/5	20	3	8	8	36 1/4	22	32 1/2

Dimensional information is in inches.
* Electrical box can easily be relocated to the field to either the front or the back of the cabinet, depending on port direction installer chooses.

Operation diagram



fresh air to inside
fresh air from outside
stale air from inside
stale air to outside

Specifications

- Model: SHR 11004
- Total assembled weight: 240 lbs
- Cabinet: 20 ga. steel w/powder coat finish
- Fans: backward curved blades
- Mounting: unit may be suspended by using threaded rod (not supplied) or placed on a platform
- Insulated with 1" aluminum foil-face fiberglass insulation to prevent condensation and meet the requirements of UL 94HF.
- Filters: 6 washable electrostatic filters 11.75" x 15" x 0.26"
- Core: 3 cores each 12" x 12" with a 15" depth

Accessories

Eco-Touch®
Wall Control
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EDF 1
Electronic Control
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EDF 7
Electronic Dehumidistat
page 262

RTS 3
Electronic Timer
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MDEH
Dehumidistat
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MGS
Supply Grille
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MGE
Exhaust Grille
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IR
Iris Damper
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SHR 11005R

Heat Recovery Ventilator

Application

The SHR 11005R Commercial Heat Recovery Ventilation system (HRV) complements today's tight commercial buildings and large residential homes.

How it works

Fantech Heat Recovery Ventilators (HRV) are designed to supply air into a building while exhausting an equal amount of contaminated air to the outside. The aluminum heat exchange core transfers sensible energy between air steams resulting in tempering of the supply air and reduced loads on the HVAC system.

Defrost cycle

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the building can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy.

Certification

AHRI CERTIFIED

C SP US

- Airflows up to 1,032 cfm @ 0.4" P_{st}
- Push-Pull configuration for lower outdoor air contamination
- BMS compatible
- Dual service doors

Maximum continuous airflow

in.wg / cfm	0.2" P_s	0.4" P_s	0.8" P_s	1.0" P_s	1.4" P_s	1.7" P_s
Supply airflow (high)	1162	1032	842	739	540	397
Exhaust airflow (high)	1162	1032	842	739	540	397

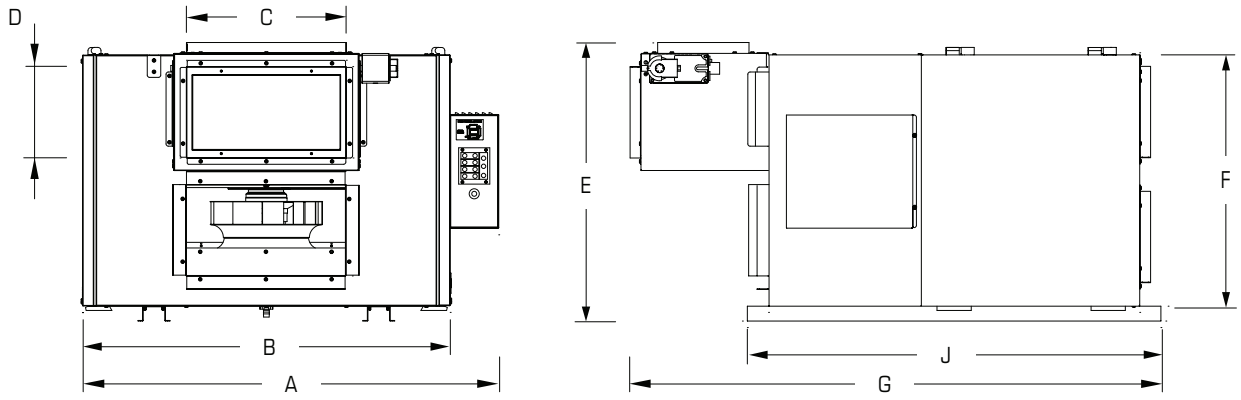
Energy performance

	Supply temperature	Net airflow	Sensible effectiveness
	°F	cfm	%
Heating	35	1035	56
	35	776	61
Cooling	95	1035	47
	95	776	49

Specification data

Model	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	V / ~	W	A	cfm			lbs			USD
SHR 11005R	120 / 1	1320	11	1032	Side	Recirculation	337	3	41048	3,923.-

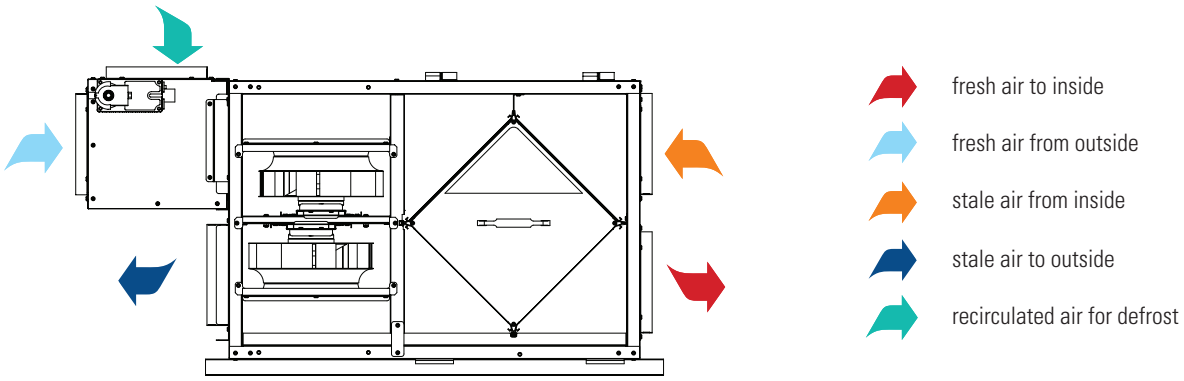
Dimensions



Model	A	B	C	D	E	F	G	J
SHR 11005R	51 2/5	47 1/5	20	8	24 1/5	22	46 1/2	36 1/4

Dimensional information is in inches.
* Electrical box can easily be relocated to the field to either the front or the back of the cabinet, depending on port direction installer chooses.

Operation diagram



Specifications

- Model: SHR 11005R
- Total assembled weight: 259 lbs
- Cabinet: 20 ga. steel w/powder coat finish
- Fans: backward curved blades
- Mounting: unit may be suspended by using threaded rod (not supplied) or placed on a platform
- Insulated with 1" aluminum foil-face fiberglass insulation to prevent condensation and meet the requirements of UL 94HF
- Filters: 6 washable electrostatic filters 11.75" x 15" x 0.26"
- Core: 3 cores each 12" x 12" with a 15" depth

Accessories

Eco-Touch®
Wall Control
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EDF 1
Electronic Control
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EDF 7
Electronic Dehumidistat
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RTS 3
Electronic Timer
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MDEH
Dehumidistat
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MGS
Supply Grille
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MGE
Exhaust Grille
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IR
Iris Damper
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SHR 14104

Heat Recovery Ventilator

Application

The SHR 14104 Commercial Heat Recovery Ventilation system (HRV) complements today's tight commercial buildings and large residential homes.

How it works

Fantech Heat Recovery Ventilators (HRV) are designed to supply air into a building while exhausting an equal amount of contaminated air to the outside. The aluminum heat exchange core transfers sensible energy between air steams resulting in tempering of the supply air and reduced loads on the HVAC system.

Defrost cycle

A preset defrost sequence is activated at an outdoor air temperature of 23°F and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower continues to ventilate for a few minutes. The unit then returns to normal operation, and continues cycle.

Certification

- Airflows up to 1,428 cfm @ 0.4" P_{st}
- Push-Pull configuration for lower outdoor air contamination
- BMS compatible
- Dual service doors

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.8" P_s	1.0" P_s	1.4" P_s	1.7" P_s
Supply airflow (high)	1505	1428	1235	1120	850	615
Exhaust airflow (high)	1505	1428	1235	1120	850	615

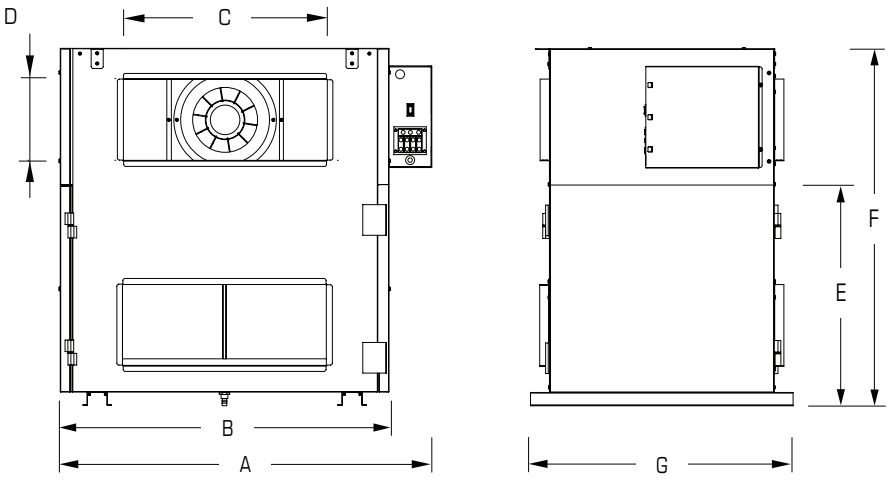
Energy performance

	Supply temperature	Net airflow	Sensible effectiveness
	°F	cfm	%
Heating	35	1410	55
	35	1058	57
Cooling	95	1410	44
	95	1058	47

Specification data

Model	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	V / ~	W	A	cfm			lbs			USD
SHR 14104	120 / 1	1272	10.6	1428	Side	Automatic	310	3	40438-1	3,802.-

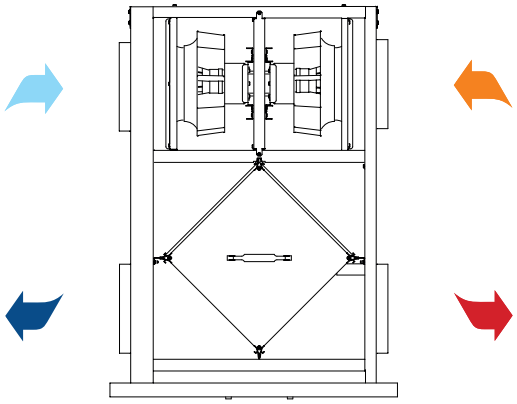
Dimensions



Model	A	B	C	D	E	F	G
SHR 14104	51 2/5	47 1/5	24	8	21 1/2	35	25 3/4

Dimensional information is in inches.
* Electrical box can easily be relocated to the field to either the front or the back of the cabinet, depending on port direction installer chooses.

Operation diagram



fresh air to inside
fresh air from outside
stale air from inside
stale air to outside

Specifications

- Model: SHR 14104
- Total assembled weight: 236 lbs
- Cabinet: 20 ga. steel w/powder coat finish
- Fans: backward curved blades
- Mounting: unit may be suspended by using threaded rod (not supplied) or placed on a platform
- Insulated with 1" aluminum foil-face fiberglass insulation to prevent condensation and meet the requirements of UL 94HF
- Core: 3 cores each 12" x 12" with a 15" depth
- Filters: 6 washable electrostatic filters

Accessories

Eco-Touch®
Wall Control
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EDF 1
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EDF 7
Electronic Dehumidistat
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RTS 3
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MDEH
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SHR 14105R

Heat Recovery Ventilator

Application

The SHR 14105R Commercial Heat Recovery Ventilation system (HRV) complements today's tight commercial buildings and large residential homes.

How it works

Fantech Heat Recovery Ventilators (HRV) are designed to supply air into a building while exhausting an equal amount of contaminated air to the outside. The aluminum heat exchange core transfers sensible energy between air steams resulting in tempering of the supply air and reduced loads on the HVAC system.

Defrost cycle

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the building can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy.

Certification

- Airflows up to 1,428 cfm @ 0.4" P_{st}
- Push-Pull configuration for lower outdoor air contamination
- BMS compatible
- Dual service doors

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.8" P_s	1.0" P_s	1.4" P_s	1.7" P_s
Supply airflow (high)	1505	1428	1235	1120	850	615
Exhaust airflow (high)	1505	1428	1235	1120	850	615

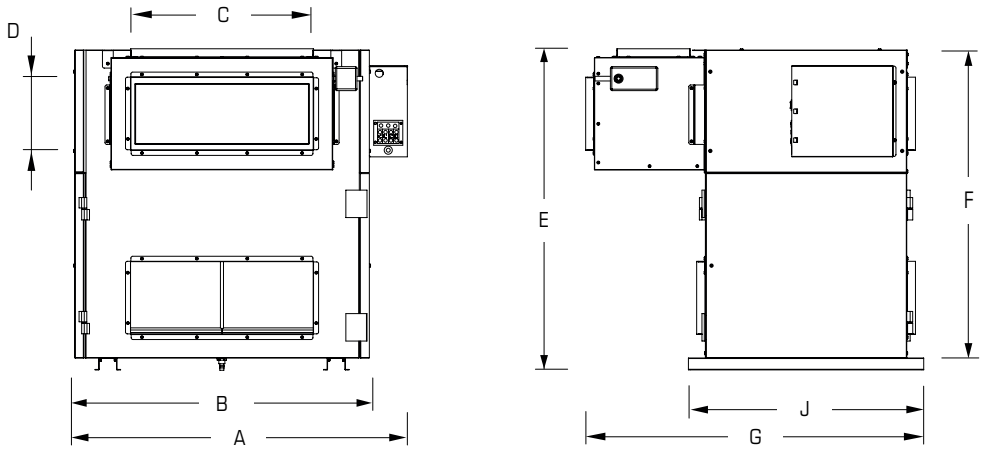
Energy performance

	Supply temperature	Net airflow	Apparent sensible effectiveness
	°F	cfm	%
Heating	35	1410	55
	35	1058	57
Cooling	95	1410	44
	95	1058	47

Specification data

Model	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	V / ~	W	A	cfm			lbs			USD
SHR 14105R	120 / 1	1272	10.6	1428	Side	Recirculation	295	3	40445-1	4,383.-

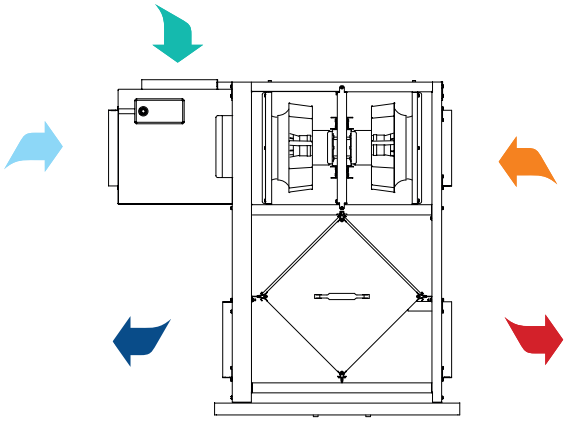
Dimensions



Model	A	B	C	D	E	F	G	J
SHR 14105R	51 2/5	47 1/5	24	8	35	33 5/8	36	25 3/4

Dimensional information is in inches.
* Electrical box can easily be relocated to the field to either the front or the back of the cabinet, depending on port direction installer chooses.

Operation diagram



- fresh air to inside
- fresh air from outside
- stale air from inside
- stale air to outside
- recirculated air for defrost

Specifications

- Model: SHR 14105R
- Total assembled weight: 236 lbs
- Cabinet: 20 ga. steel w/powder coat finish
- Fans: backward curved blades
- Mounting: unit may be suspended by using threaded rod (not supplied) or placed on a platform
- Insulated with 1" aluminum foil-face fiberglass insulation to prevent condensation and meet the requirements of UL 94HF.
- Core: 3 cores each 12" x 12" with a 15" depth
- Filters: 6 washable electrostatic filters

Accessories

Eco-Touch®
Wall Control
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EDF 7
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RTS 3
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MDEH
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Supply Grille
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Iris Damper
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SER 6004
Energy Recovery Ventilator

NEW!

Application
The SER 6004 Energy Recovery Ventilation system (ERV) complements today's tight commercial buildings such as retail stores, hair salons, bars and restaurants, offices and large residential homes.

How it works
The SER Series lowers demand on air conditioning systems. Air supplied from outdoors enters through the energy recovery core where it transfers the heat and moisture the incoming air to the outgoing air that was cooled and dried by the building's air conditioner. The air brought into the working area is cooled and the humidity is reduced for maximum comfort. Reduces the load on an air conditioner to save on cooling costs. This unit is designed for warmer, humid climates with longer cooling seasons.

Defrost cycle
A preset defrost sequence is activated at an outdoor air temperature of 23ºF and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower continues to ventilate for a few minutes. The unit then returns to normal operation, and continues cycle.

Certification
AHRI CERTIFIED™ c SP us

- Airflows up to 606 cfm @ 0.4" P_{st}
- Push-Pull configuration for lower outdoor air contamination
- BMS compatible
- Dual service doors

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.8" P_s	1.0" P_s	1.2" P_s	1.4" P_s
Supply airflow (high)	672	606	488	420	355	190
Exhaust airflow (high)	672	606	488	420	355	190

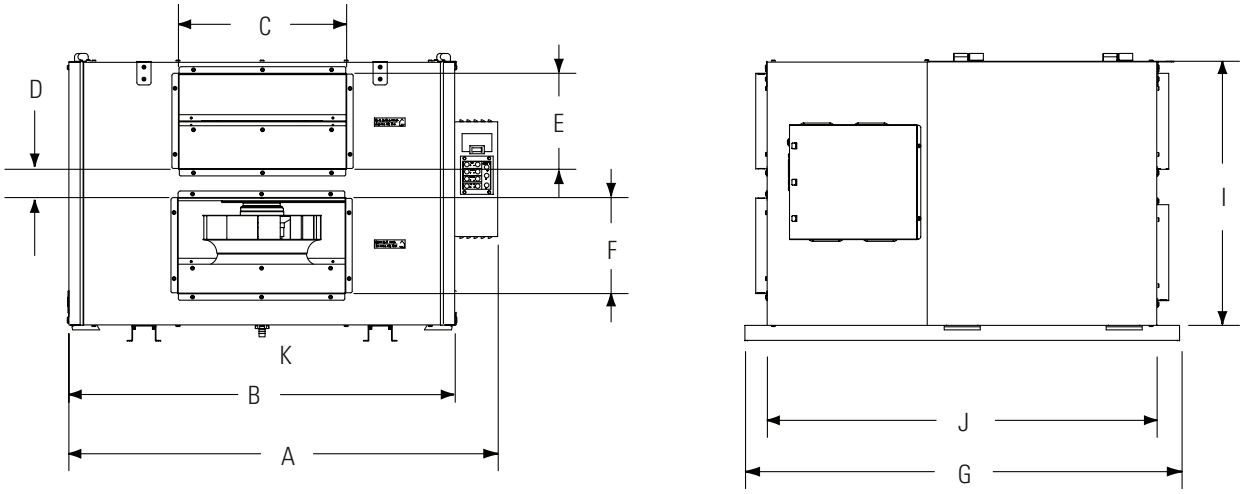
Energy performance

	Supply temperature	Net Airflow	Sensible recovery efficiency	Latent recovery efficiency
	ºF	cfm	%	%
Heating	35	560	57	35
	35	420	61	40
Cooling	95	560	57	32
	95	420	61	37

Specification data

Model	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	V / ~	W	A	cfm			lbs			USD
SER 6004	120 / 1	660	5.5	606	Side	Automatic	233	3	75266	3,701.-

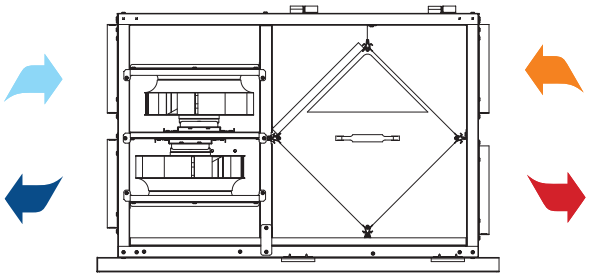
Dimensions



Model	A	B	C	D	E	F	G	I	J	Drian
SER 6004	36 5/16	35 3/16	14	2 3/8	8	8	36 5/16	22	32 1/2	1/2

Dimensional information is in inches.
* Electrical box can easily be relocated to the field to either the front or the back of the cabinet, depending on port direction installer chooses.

Operation diagram



fresh air to inside
fresh air from outside
stale air from inside
stale air to outside

Specifications

- Model: SER 6004
- Total assembled weight: 169 lbs
- Cabinet: 20 ga. steel w/powder coat finish
- Fans: backward curved blades
- Mounting: unit may be suspended by using threaded rod (not supplied) or placed on a platform
- Insulated with 1" aluminum foil-face fiberglass insulation to prevent condensation and meet the requirements of UL 94HF
- Filters: MERV1 washable filters for supply and exhaust air. Use of MERV6 filters will add an additional system pressure of 0.20 in.wg @ 550 cfm

Accessories

Eco-Touch®
Wall Control
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EDF 1
Electronic Control
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EDF 7
Electronic Dehumidistat
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RTS 3
Electronic Timer
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MGS
Supply Grille
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MGE
Exhaust Grille
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IR
Iris Damper
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SER 9504
Energy Recovery Ventilator

NEW!

- Airflows up to 940 cfm @ 0.4" P_{st}
- Push-Pull configuration for lower outdoor air contamination
- BMS compatible
- Dual service doors

Application
The SER 9504 Energy Recovery Ventilation system (ERV) complements today's tight commercial buildings such as retail stores, hair salons, bars and restaurants, offices and large residential homes.

How it works
The SER Series lowers demand on air conditioning systems. Air supplied from outdoors enters through the energy recovery core where it transfers the heat and moisture the incoming air to the outgoing air that was cooled and dried by the building's air conditioner. The air brought into the working area is cooled and the humidity is reduced for maximum comfort. Reduces the load on an air conditioner to save on cooling costs. This unit is designed for warmer, humid climates with longer cooling seasons.

Defrost cycle
A preset defrost sequence is activated at an outdoor air temperature of 23°F and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower continues to ventilate for a few minutes. The unit then returns to normal operation, and continues cycle.

Certification
AHRI CERTIFIED

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s	1.6" P_s	1.8" P_s	2.0" P_s
Supply airflow (high)	1031	940	848	756	665	390	298	206
Exhaust airflow (high)	1031	940	848	756	665	390	298	206

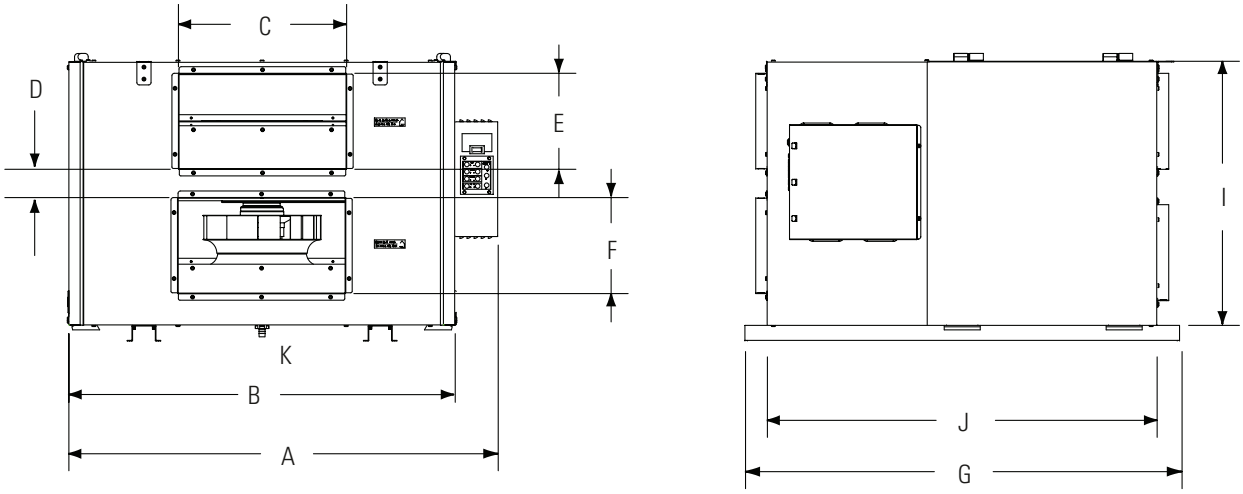
Energy performance

	Supply temperature	Net airflow	Sensible recovery efficiency	Latent recovery efficiency
	°F	cfm	%	%
Heating	35	840	57	35
	35	630	61	40
Cooling	95	840	57	32
	95	630	61	37

Specification data

Model	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	V / ~	W	A	cfm			lbs			USD
SER 9504	120 / 1	1,320	11	940	Side	Automatic	292	3	75267	5,454.-

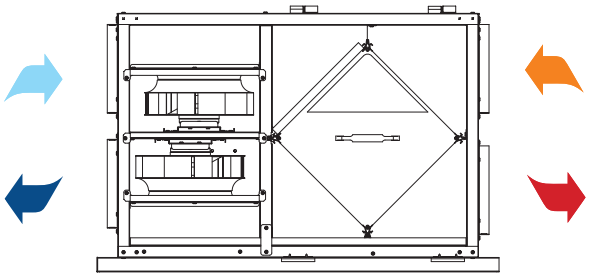
Dimensions



Model	A	B	C	D	E	F	G	I	J	Drain
SER 9504	51 3/8	47 3/16	20	2 3/8	8	8	36 5/16	22	32 1/2	1/2

Dimensional information is in inches.
* Electrical box can easily be relocated to the field to either the front or the back of the cabinet, depending on port direction installer chooses.

Operation diagram



fresh air to inside
fresh air from outside
stale air from inside
stale air to outside

Specifications

- Model: SER 9504
- Total assembled weight: 210 lbs
- Cabinet: 20 ga. steel w/powder coat finish
- Fans: backward curved blades
- Mounting: unit may be suspended by using threaded rod (not supplied) or placed on a platform
- Insulated with 1" aluminum foil-face fiberglass insulation to prevent condensation and meet the requirements of UL 94HF.
- Filters: MERV1 washable filters for supply and exhaust air. Use of MERV6 filters will add an additional system pressure of 0.22 in.wg @ 850 cfm

Accessories

Eco-Touch®
Wall Control
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EDF 1
Electronic Control
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EDF 7
Electronic Dehumidistat
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RTS 3
Electronic Timer
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MGS
Supply Grille
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MGE
Exhaust Grille
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IR
Iris Damper
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SER 13004
Energy Recovery Ventilator

NEW!

- Airflows up to 1,300 cfm @ 0.4" P_{st}
- Push-Pull configuration for lower outdoor air contamination
- BMS compatible
- Dual service doors

Application
The SER 13004 Energy Recovery Ventilation system (ERV) complements today's tight commercial buildings such as retail stores, hair salons, bars and restaurants, offices and large residential homes.

How it works
The SER Series lowers demand on air conditioning systems. Air supplied from outdoors enters through the energy recovery core where it transfers the heat and moisture the incoming air to the outgoing air that was cooled and dried by the building's air conditioner. The air brought into the working area is cooled and the humidity is reduced for maximum comfort. Reduces the load on an air conditioner to save on cooling costs. This unit is designed for warmer, humid climates with longer cooling seasons.

Defrost cycle
A preset defrost sequence is activated at an outdoor air temperature of 23°F and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower continues to ventilate for a few minutes. The unit then returns to normal operation, and continues cycle.

Certification
AHRI CERTIFIED

Maximum continuous airflow

cfm \ in.wg	0.2" P_s	0.4" P_s	0.8" P_s	1.0" P_s	1.6" P_s	2.0" P_s	2.4" P_s
Supply airflow (high)	1400	1300	1095	990	651	440	208
Exhaust airflow (high)	1400	1300	1095	990	651	440	208

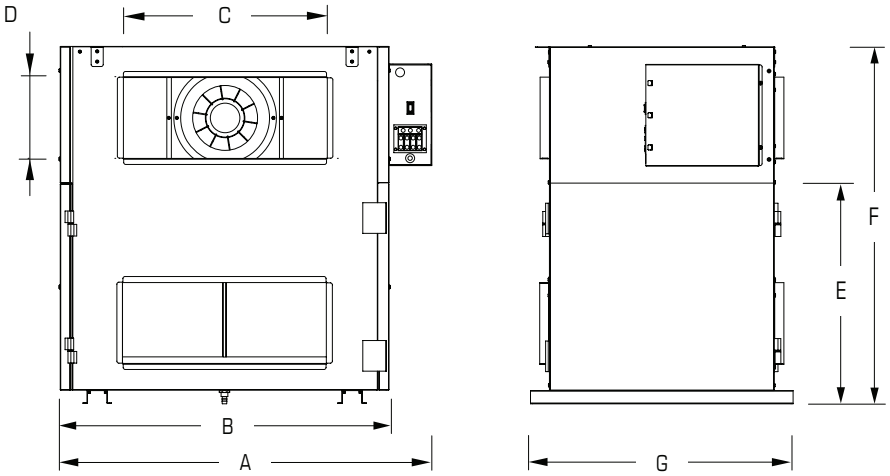
Energy performance

	Supply temperature	Net Airflow	Sensible recovery efficiency	Latent recovery efficiency
	°F	cfm	%	%
Heating	35	840	57	35
	35	630	61	40
Cooling	95	840	57	32
	95	630	61	37

Specification data

Model	Voltage / Phase	Rated power	Max amps	Average air-flow @ 0.4" P_s	Connection	Defrost cycle	Shipping weight	Shipping class	Item #	MSRP
	V / ~	W	A	cfm			lbs			USD
SER 13004	120 / 1	1,300	10.8	1,300	Side	Automatic	252	3	75268	5,790.-

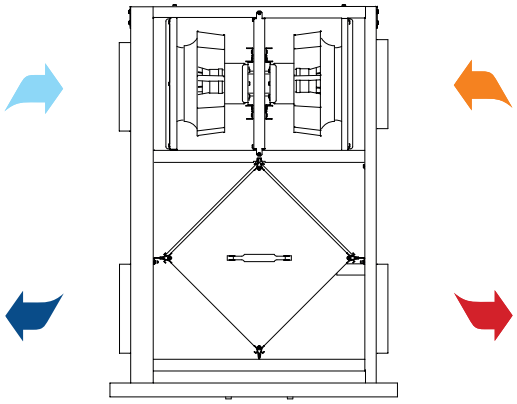
Dimensions



Model	A	B	C	D	E	F	G	Drain
SER 13004	51 3/8	47 3/16	24	8	21 1/2	35	25 3/4	1/2

Dimensional information is in inches.
* Electrical box can easily be relocated to the field to either the front or the back of the cabinet, depending on port direction installer chooses.

Operation diagram



fresh air to inside
fresh air from outside
stale air from inside
stale air to outside

Specifications

- Model: SER 13004
- Total assembled weight: 208 lbs
- Cabinet: 20 ga. steel w/powder coat finish
- Fans: backward curved blades
- Mounting: unit may be suspended by using threaded rod (not supplied) or placed on a platform
- Insulated with 1" aluminum foil-face fiberglass insulation to prevent condensation and meet the requirements of UL 94HF
- Filters: MERV1 washable filters for supply and exhaust air. Use of MERV6 filters will add an additional system pressure of 0.29 in.wg @ 1,150 cfm

Accessories

Eco-Touch®
Wall Control
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EDF 1
Electronic Control
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EDF 7
Electronic Dehumidistat
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RTS 3
Electronic Timer
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CM/DM Series

Whole-House HEPA Filtration

- Suitable for homes up to 2,200 sq.ft.
- Three levels of filtration
- 99.97% of particles down to 0.3 microns
- Equipped with a 240 cfm fan

Application

The CM/DM Series is designed to clean and filter the air in an average 2,200 sq. ft. home once an hour. Larger homes will take slightly longer for a complete air change. This small, compact unit can be installed on the existing ductwork of your furnace/air handler or can be used as an independent system mounted in the attic, crawl space or closet.

Design

Mold spores, pet dander, cooking odors, dust, dust mites and their by-products are all captured in a series of three filters. The prefilter collects the largest particles while the carbon filter absorbs odors. The third filter is a true, certified HEPA filter which collects 99.97% of particles down to 0.3 microns.

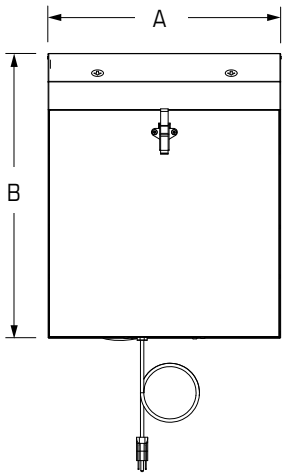
Models

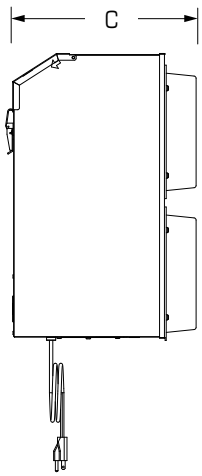
CM3000: Collar mount model comes with four collars, two pieces of UL Listed 8" flex duct and hanging chains.

CM3000I: Insulated unit is used in unconditioned spaces such as attics and garages. Insulated outer shell prevents condensation problems. Kit includes hanging chains.

DM3000P: The duct mount model features integrated pressure switch, which energizes the unit any time furnace/air handler operates. Designed with a backplate that allows direct connection of the unit to air handler or furnace.

Dimensions





Certification

Model	A	B	C
DM 3000	16	20	10 1/2
CM 3000	16	20	10 1/2
CM 3000I	16	20 5/8	11 3/16

Dimensional information is in inches.

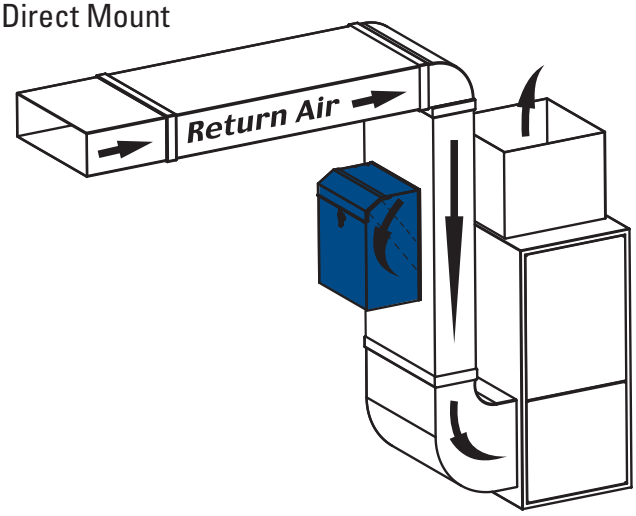
Specification data

Model	Port (duct) size	Voltage / phase	Rated power	Max amps	Average airflow @ 0.4" P_s	Insulation	Dimensions	Shipping weight	Shipping class	Item #	MSRP
	inch	V / ~	W	A	cfm		inch	lbs			USD
DM 3000P	(2) 5 x 10	120 / 1	150	1.0	240	-	20 x 16 x 10.5	28	1	40217	524.-
CM 3000	8	120 / 1	150	1.0	240	-	20 x 16 x 10.5	28	1	40219	524.-
CM 3000I	8	120 / 1	150	1.0	240	Yes	20.6 x 16 x 11.2	28	1	40220	524.-

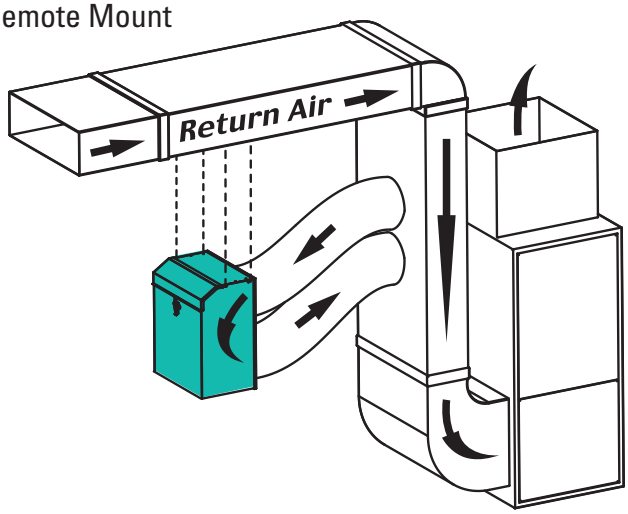
Installation

Units easily install horizontally or vertically on the return air side duct of your furnace or air handler. Air is directed through the bypass HEPA which allows the heating/cooling system to easily deliver clean, fresh healthy air throughout the entire home. They can also be used as independent systems mounted in the attic, crawl space or closet.

Direct Mount

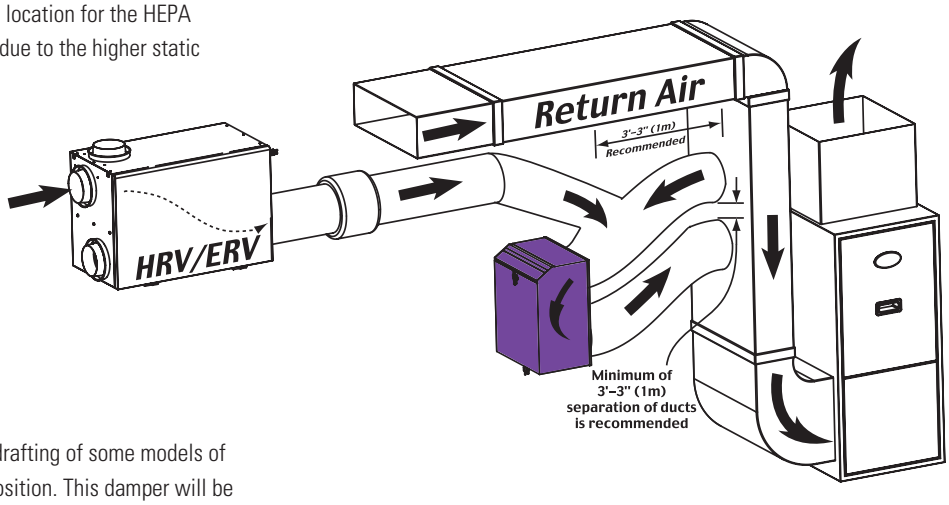


Remote Mount



Furnace fan should operate continuously when HEPA unit is on and running. The return side of the furnace is the recommended location for the HEPA to connect to. The supply side is normally avoided due to the higher static pressure.

Remote Mount



A power damper is recommended to prevent backdrafting of some models of air to air exchangers, when in the off or standby position. This damper will be installed between the HRV/ERV and the HEPA unit.

NOTE: Models SHR/SER 1505R, 2005R & 3005R have an automatic backdraft damper build-in that activates when units are in a standby position and do not need this additional damper.

Accessories

RPFH 1315
Replacement Filter*
page 269

RHF 16
Replacement HEPA
page 269

* Replacement filters also available in bulk packs of 24 pieces for RPFH (RPFH 1315B) and 12 pack RHF (RHF 16B). Found out more on page 269.

FB Series

Inline Filter Box with MERV 13 Filter

- MERV13 filter
- Used for airflows up to 176 cfm
- 6" diameter duct connections
- Neoprene door seal

Application

Building sciences research has shown that highly efficient filtration of the outside air before it is delivered to the home is one of the best ways to reduce the level of particles suspended in your home's air.

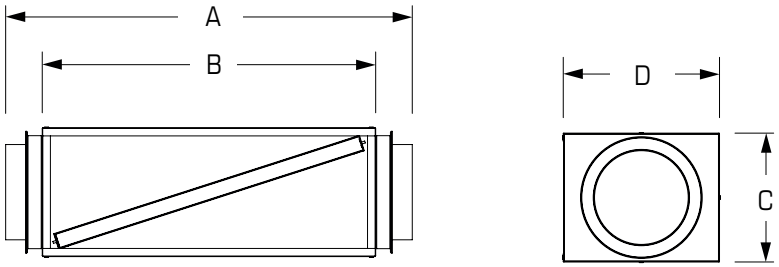
Design

The FB6 unit features 80-90% efficiency filter, designed to meet the air filtration efficiency criteria required to gain points toward certification in the Leadership in Energy and Environmental Design (LEEDs) Green Building rating system.

Specification data

Model	Port (duct) size	Filter type	Rate	Average airflow @ 0.2" P_s	Insulation type	Shipping weight	Shipping class	Item #	MSRP
	inch			cfm		lbs			USD
FB 6	6	Pleated	MERV 13	176	-	10	1	40304	130.-

Dimensions



Model	A	B	C	D
FB 6	20 1/2	19 1/2	8	10

Dimensional information is in inches.

Accessories

FBRF

Replacement Filter

Pleated, non-washable. Rated MERV13 (Arrestance of >98% based on Standard 52). Listed UL 900 for the US and Canada.

Model	Replacement for	Rate	Shipping weight	Shipping class	Item #	MSRP
			lbs			USD
FBRF 6	Inline Filter Box FB 6	MERV 13	1	1	40390	35.-

SUPPLY AND EXHAUST FANS FOR RESIDENTIAL AND COMMERCIAL APPLICATIONS

fantech

Residential and Commercial
Fan Product Range

Fantech manufactures an extensive range of ventilation products, beginning with our industry's first Inline Duct Fan to a wide range of commercial fans.

These products are installed in a variety of locations, including apartments, condos, single family homes, offices, hotels, stores, training facilities and sports centers, warehouses and manufacturing plants.

OPTIMIZED GUIDE VANE

Aerodynamically optimized guide vane geometry organizes the air discharged from the impeller. The result is a highly efficient, powerful and laminar airflow.

EXTREMELY EFFICIENT MOTOR

100% speed-controllable, external rotor motor. ECM models exhibit the highest operating efficiency, especially when speed is reduced to match air flow rate demand.

REVOLUTIONARY IMPELLER

A revolutionary impeller is fully optimized for discharge flow characteristics producing a focused beam of air.

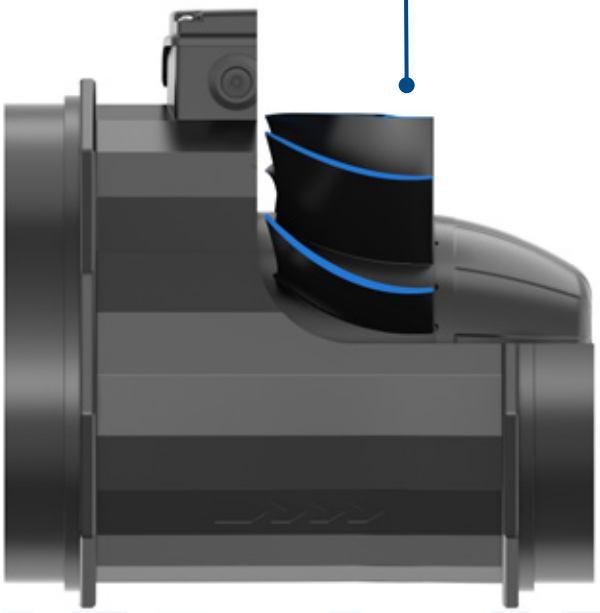
BUILT-IN ELECTRONICS

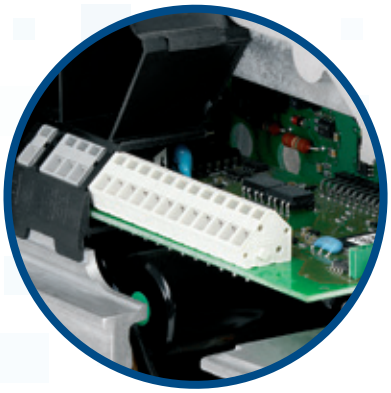
ECM models have integrated electronics that accommodate 0-10V dc manual or automated speed control while providing for the highest operating efficiency.

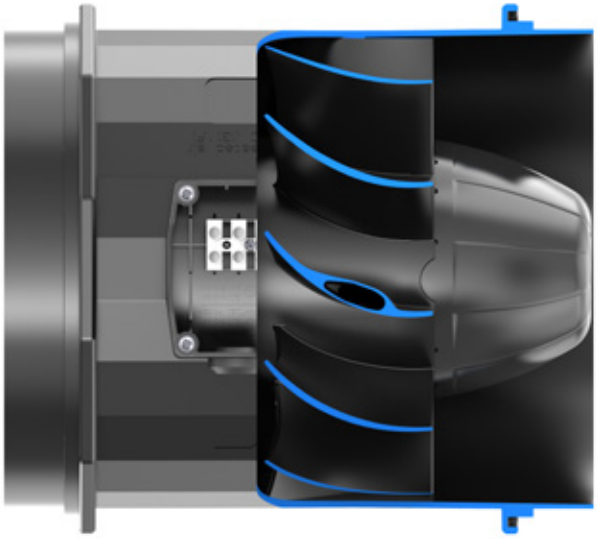
MOUNTING BRACKET

Included mounting bracket simplifies installation. The fan can be mounted in any position.

AIR, SAY HELLO TO POW







WER.

prioAir Series

Inline Duct Fans with AC and EC Motors

- Airflow up to 1,375 cfm
- Zero leakage
- Extremely energy efficient operation
- Can be installed in any position
- BMS compatible (EC models)

Application

The prio**Air** series is designed for installation in ducts. Extremely efficient, prio**Air** fans are perfect for a wide assortment of quiet air-moving applications.

Design

Compact size, low noise, very high efficiency and air tight casing. Aerodynamically optimized impellers and guide vanes with external rotor motors. Includes a mounting bracket. Special composite material is corrosion-proof and light weight.

Speed control

The prio**Air** EC fan motor's speed is controlled via a 0-10Vdc signal. The motor provides a +10V reference that can be reduced by either the integrated or a remote-mounted potentiometer (such as MTP 10, see Accessories). The motor can also be controlled by an externally-provided 0-10Vdc signal that can come from any device or a Building Management System (BMS). The fan's motor also provides operational speed (tachometer pulse) output that can be used to verify fan operation. These control features allow the prio**Air** EC to be integrated into and play an active role in smart HVAC systems in buildings.

The prio**Air** AC fan models may be controlled via a solid state speed controller.

Motor protection

Thermal overload protection with automatic reset.

Models

AC motor models may be controlled via a solid state speed controller. EC motor models provide the highest efficiency, may be controlled via a 0-10Vdc speed control signal, and include a pre-wired speed control potentiometer.

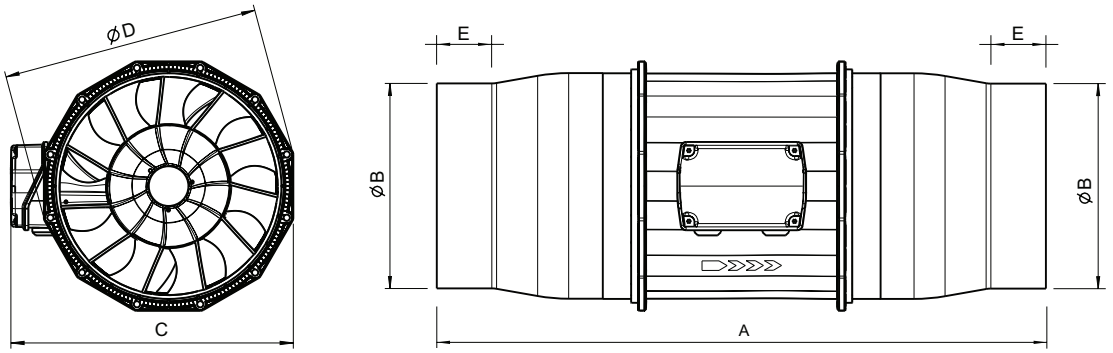
Certification

Specification data

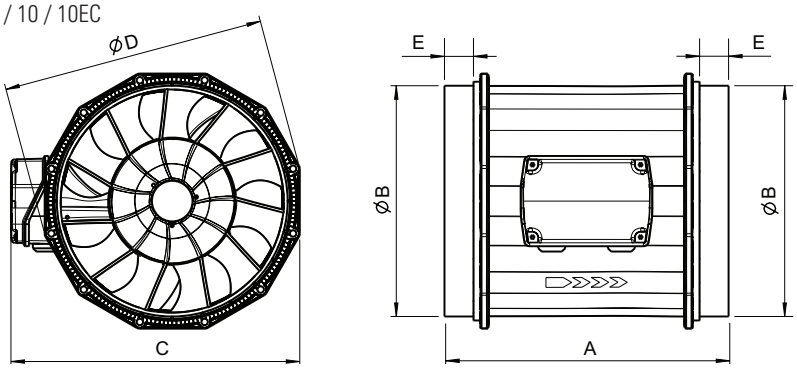
Model	Rated power	Voltage / phase	Max. Amps	RPM	0.0" P_s	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s	Sound power level (inlet)	Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	A	min^{-1}	cfm						dB	lbs			USD
prio**Air** 6	37	120 / 1	0.29	2754	295	252	195	38	-	-	68 @ 0.25" sp	7	1	49310	192.-
prio**Air** 6 EC	66	120 / 1	1.05	4041	443	418	387	352	313	261	72 @ 0.25" sp	7	1	49314	274.-
prio**Air** 8	93	120 / 1	0.81	2899	646	602	553	487	351	181	76 @ 0.25" sp	8	1	49312	244.-
prio**Air** 8 EC	128	120 / 1	1.80	3619	791	745	702	656	604	534	76 @ 0.25" sp	8	1	49316	349.-
prio**Air** 10	304	120 / 1	2.63	2920	1380	1324	1264	1200	1127	1043	80 @ 0.25" sp	14	1	56067	Call for price
prio**Air** 10 EC	164	120 / 1	2.4	2650	1237	1156	1079	997	900	769	77 @ 0.25" sp	10	1	56068	Call for price

Dimensions

prio**Air** 6 / 6EC



prio**Air** 8 / 8EC / 10 / 10EC



Model	A	B	C	D	E
prio**Air** 6 / 6EC	16 3/16	5 7/8	8 1/4	7 3/8	1 5/8
prio**Air** 8 / 8EC	9 11/16	7 7/8	9 3/4	9	1
prio**Air** 10 / 10EC	11 11/16	9 13/16	11 15/16	11 1/16	1 3/16

Dimensional information is in inches.

Thanks to its compact size (Dia. x Length) 6" (8") x 16-3/16" (9-11/16"), the circular duct fan matches the duct dimensions. A truly tiny inline solution.

Accessories

FC
Mounting Clamps
page 265

LD
Silencer
page 266

RSK
Backdraft Damper
page 266

IR
Iris Damper
page 268

ADC
Shut-off Damper
page 267

FML
Metal Hood
page 264

MTP 10 [2]
Speed Control
page 260

DPC 200 [2]
Constant Pressure Control
page 260

[1] for prio**Air** 6EC, prio**Air** 8EC and prio**Air** 10EC models only

FG EC Series

Inline Centrifugal Fans with EC Motors

- High level of efficiency
- Integrated motor protection
- Pre-wired speed control potentiometer for air flow adjustments and balancing
- BMS compatible

Application

The FG EC Series is designed for installation in ducts.These fans are known for their economical use of energy and ease of control. They can be varied in speed to match an application's demand, and operate at high efficiency levels. For the same air volume, they consume considerably less energy than an AC fan.

Design

The casing is manufactured from galvanized sheet metal with the seams folded to give the fan an air tight casing. All fans have a minimum 1" long connection collar. The fans have backward-curved blades and external rotor EC-motors.

Speed control

The FG EC fan motor's speed is controlled via a 0-10Vdc signal. The motor provides a +10V reference that can be reduced by either the integrated or a remote-mounted potentiometer (such as MTP 10, see Accessories). The motor can also be controlled by an externally-provided 0-10Vdc signal that can come from any device or a Building Management System (BMS). The fan's motor also provides operational speed (tachometer pulse) output that can be used to verify fan operation. These control features allow the FG EC to be integrated into and play an active role in smart HVAC systems in buildings.

Motor protection

Motor protection is integrated in the electronics of the motor.

Certification

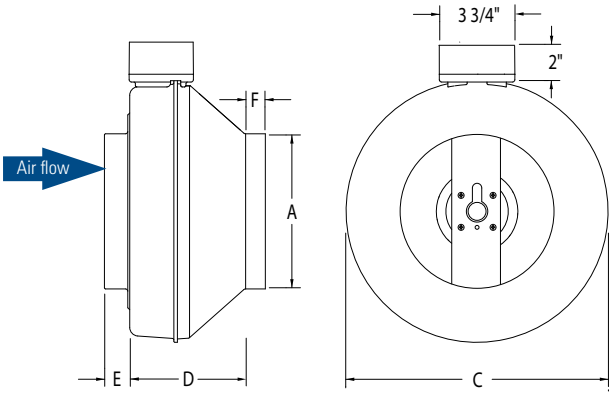
Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Specification data

Model	Rated power	Voltage / phase	Max amps	RPM	CFM per W*	.0" P_s	.2" P_s	.4" P_s	.6" P_s	.8" P_s	1.0" P_s	1.5" P_s	Max P_s	Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	A	min^{-1}		cfm							in.wg	lbs			USD
FG 4XL EC	33	120 / 1	0.48	4038	5.45	180	166	152	135	117	97	459	1.91	7	1	56015	284.-
FG 6M EC	74	120 / 1	1.00	2491	4.91	363	330	302	271	239	206	113	1.92	11	1	49900	374.-
FG 8 EC	71	120 / 1	0.50	2515	6.05	428	390	353	314	275	239	121	1.95	11	1	49901	402.-
FG 10 EC	94	120 / 1	0.65	2311	5.47	513	460	413	363	325	283	160	2.13	11	1	49902	495.-
FG 12 EC	136	120 / 1	0.95	2654	4.69	633	600	577	542	506	467	379	2.45	16	1	49903	658.-
FG 12XL EC	166	120 / 1	1.16	2510	4.86	805	750	686	615	537	474	315	1.96	16	1	49905	876.-

HVI Ratings @ 0.2" Static Pressure Only.
Performance certified is for installation type D – Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance based on actual speed of test. Performance ratings do not include the effect of appurtenance (accessories).
* CFM per Watt is not certified by AMCA

Dimensions



Model	A	C	D	E	F
FG 4XL EC	4	13 1/2	6 1/2	1	1
FG 6M EC	6	13 1/8	7	1	1
FG 8 EC	8	13 1/4	6	1	1
FG 10 EC	10	13 1/4	4 3/4	1 1/8	1
FG 12 EC	12	16	6 11/16	1 1/2	1
FG 12XL EC	12	16	6 11/16	1 1/2	1

Dimensional information is in inches.

Accessories

ADC
Shut-off Damper
page 267

RSK
Backdraft Damper
page 266

FGR
Filter Cassette
page 266

FC
Mounting Clamps
page 265

LD
Silencer
page 266

IR
Iris Damper
page 268

MGS
Supply Grille
page 263

MGE
Exhaust Grille
page 263

FML
Intake Hood
page 264

MTP 10
Speed Control
page 260

DPC 200
Constant Pressure Control
page 260

FTD 7
7 Day Timer
page 267

EM-WX
Electrical Heater
page 267

HL
Hood Liner
page 144

Bernadine Crawley,
Customer Support Representative

"Delivering customer satisfaction is about providing timely, responsive service with integrity, simplicity and a passion for excellence. Our dedicated specialists will help you with finding the right products and accessories, as well as, solutions that will help you work efficiently and effectively."

FOCUS ON WHAT WE DO THE BEST

FG Series
Inline Centrifugal Fans

Application
The FG Series is designed for installation in ducts.

Design
The housing is manufactured from a two-piece stamped galvanized construction. The two halves are joined using Fantech's unique folded seam closure, which gives the fan the first in class, air tight seal. Duct connected outdoor and wet room applications of the fan are possible due to the air tight casing.

FG fans are equipped with backward-curved impeller blades and external rotor motors. With the motor in the airstream the fan provides the constant dissipation of heat buildup thus giving the fan first in class of longevity and reliability.

Motor protection
To protect the motor from overheating the fan is impedance protected. The fans can be controlled via a solid state speed controller.

Certification
Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

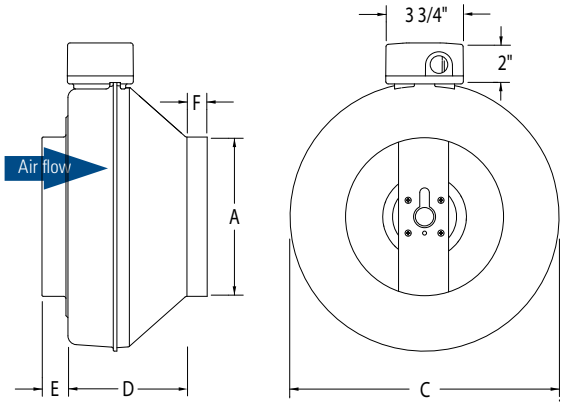
- 100% Leak-free housing
- Speed-controllable
- Built-in thermal overload protection
- Mounting bracket and hardware included

Specification data

Model	Rated power	Voltage / phase	Max amps	RPM	0" P_s	.2" P_s	.4" P_s	.6" P_s	.8" P_s	1.0" P_s	1.5" P_s	Max P_s	Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	A	min^{-1}	cfm (l/s)							in.wg	lbs			USD
FG 4*	20	120 / 1	0.19	3000	135	110	83	55	25	-	-	0.94	7	1	40402	174.-
FG 4XL	71	120 / 1	0.66	2700	170	150	134	119	103	86	40	1.98	8	1	40403	192.-
FG 5*	20	120 / 1	0.19	3000	156	130	99	66	33	-	-	0.99	7	1	40404	183.-
FG 5XL	73	120 / 1	0.68	2700	220	190	160	135	112	91	41	1.89	8	1	40405	195.-
FG 6	72	120 / 1	0.68	2700	303	270	232	196	164	134	58	1.88	10	1	40406	195.-
FG 6M	120	120 / 1	1.02	2350	418	370	317	268	224	186	101	2.10	12	1	40466	241.-
FG 6XL	153	120 / 1	1.48	2900	483	450	409	369	329	289	201	2.41	12	1	40407	265.-
FG 8	119	120 / 1	1.14	2550	461	410	351	295	243	191	97	2.11	12	1	40408	273.-
FG 8XL	142	120 / 1	1.45	2950	502	470	428	388	351	313	218	2.40	13	1	40409	323.-
FG 10	138	120 / 1	1.43	3000	513	480	444	407	366	324	216	2.36	12	1	40410	334.-
FG 10XL	196	120 / 1	1.96	3100	589	560	531	503	472	441	355	3.02	14	1	40411	369.-
FG 12	181	120 / 1	1.87	2600	741	680	601	515	434	363	236	2.99	18	1	40412	447.-
FG 12XL	301	120 / 1	3.01	2900	940	880	819	746	670	596	425	2.74	21	1	40413	503.-

Performance shown is for installation type D - Ducted intlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).
* This product earned the ENERGY STAR® by meeting strict efficiency guidelines.

Dimensions



Model	A	C	D	E	F
FG 4	4	8 1/2	6 1/2	1	1
FG 4XL	4	9 3/4	6 15/16	1	1
FG 5	5	8 5/8	6 1/2	1	1
FG 5XL	5	9 3/4	6	1 1/8	1 1/8
FG 6	6	11 3/8	6 1/4	1	7/8
FG 6XL & FG 6M	6	13 1/8	7	1	1
FG 8	8	13 1/4	6	1	1
FG 8XL	8	13 1/4	6	1 1/8	1
FG 10	10	13 1/4	4 3/4	1 1/8	1
FG 10XL	10	13 1/4	4 13/16	1 1/4	1
FG 12	12	16	6 11/16	1 1/4	1
FG 12XL	12	16	6 11/16	1 1/2	1

Dimensional information is in inches.

Accessories

ADC
Shut-off Damper
page 267

RSK
Backdraft Damper
page 266

FGR
Filter Cassette
page 266

FC
Mounting Clamps
page 265

LD
Silencer
page 266

IR
Iris Damper
page 268

MGS
Supply Grille
page 263

MGE
Exhaust Grille
page 263

FML
Intake Hood
page 264

FTD 7
7 Day Timer
page 260

FD 60EM
Electronic Timer
page 260

SCD
Speed Control
page 259

WC 15
Speed Control
page 259

EM-WX
Electrical Heater
page 267

HL
Hood Liner
page 144

FKD Series - 120V

Inline Mixed Flow Fans

- Mixed-flow impeller
- 100% speed-controllable
- Integrated thermal contacts
- Air stream temperatures up to 140 °F

Application

The FKD direct drive, mixed flow fans blend the high air flow of axial fans with the higher pressure, non-overloading characteristics of backward curved impellers. An excellent choice for exhaust or supply applications where quieter performance and easy installation are important. Perfect for commercial and institutional structures such as offices, hospitals, beauty salons, veterinary clinics as well as residential applications such as kitchen range hood exhaust.

Design

The casing is manufactured from galvanized sheet metal. The Series have external rotor motors with a mixed flow impeller, which reduces the external dimensions of the fans. Brackets are supplied with the fans to make installation easier.

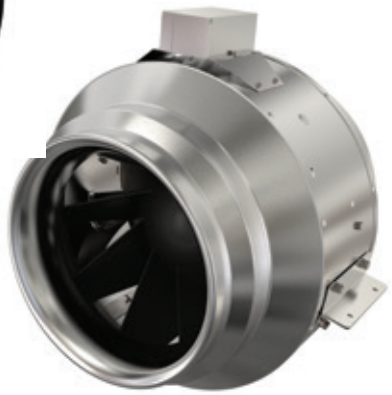
Motor protection

To protect the motor from overheating the fan has integral thermal contacts with leads to a motor protection device.

Certification

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

FKD 12XL... FKD 18
For supply and exhaust air applications with airflows up to 4,448 cfm.



FKD 8... FKD 12
For supply and exhaust air applications with airflows up to 1,305 cfm.

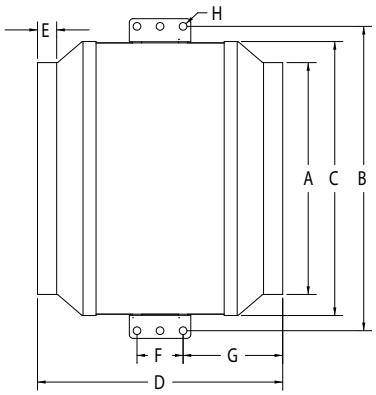
Specification data

Model	Rated power	Voltage / phase	Max amps	RPM	.0" P_s	.5" P_s	.75" P_s	1.0" P_s	1.5" P_s	2.0" P_s	Max P_s	Sones‡	Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	A	min^{-1}	cfm						in.wg		lbs			USD
FKD 8XL	327	120 / 1	2.99[1]	2700	836	680	595	499	286	-	2.50	14.1	20	1	40012	595.-
FKD 10	329	120 / 1	3.01[1]	2700	910	752	653	547	342	-	2.60	15.3	19	1	40014	595.-
FKD 10XL	529	120 / 1	4.48[1]	2850	1266	1100	1006	911	696	460	3.08	21.0	25	1	40013	686.-
FKD 12	531	120 / 1	4.86[2]	2900	1305	1145	1054	948	712	479	3.08	23.0	24	1	40016	686.-
FKD 12XL	500	120 / 1	4.80[2]	1700	2016	1649	1423	1066	-	-	1.52	18.7	44	1	40018	865.-
FKD 14	495	120 / 1	4.76[2]	1700	2156	1764	1520	1193	-	-	1.52	18.4	44	1	40019	865.-
FKD 14XL	738	120 / 1	7.12[2]	1550	2619	2180	1936	1662	843	0	1.94	19.0	54	2	40020	1,468.-
FKD 16	742	120 / 1	6.39[2]	1600	2952	2445	2144	1804	774	-	1.90	18.5	54	2	40021	1,468.-
FKD 16XL	1421	120 / 1	12.40[3]	1600	4274	3743	3452	3137	2379	1242	2.42	25.0	84	2	40022	2,117.-
FKD 18	1411	120 / 1	12.04[3]	1600	4448	3871	3583	3239	2380	1231	2.51	24.0	85	2	40023	2,117.-

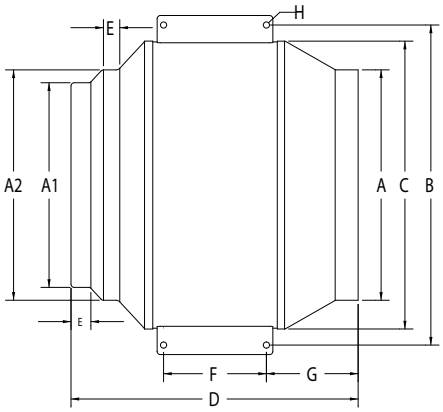
Performance certified is for installation type D-Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal.Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). ‡The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301.. Values shown are installation Type D: Ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction. All sone values shown are calculated at 0.5" (static pressure in inches W.G.).
[1]Recommended speed control rating 5A [2]Recommended speed control rating 10A [3]Recommended speed control rating 15A

Dimensions

FKD 8XL - 12



FKD 12XL - 18



Model	A	A1	A2	B	C	D	E	F	G	H
FKD 8XL	8	-	-	14	12 1/2	15 1/2	3/4	2 3/8	6 1/8	3/8
FKD 10	10	-	-	14	12 1/2	15 1/2	3/4	2 3/8	5	3/8
FKD 10XL	10	-	-	15 5/8	14	15	3/4	2 3/8	6 3/8	3/8
FKD 12	12	-	-	15 5/8	14	12 1/2	3/4	2 3/8	5 1/8	3/8
FKD 12XL	12	12	14	20 1/4	17 7/8	18 7/8	7/8	4	8 3/4	3/8
FKD 14	14	12	14	20 1/4	17 7/8	17 1/4	1	1	6 3/4	3/8
FKD 14XL	14	14	16	22 1/8	19 3/4	20 1/4	1 1/2	1 1/2	8 3/4	3/8
FKD 16	16	14	16	22 1/8	19 3/4	18 3/4	1 1/2	1 1/2	7 1/8	3/8
FKD 16XL	16	16	18	24 3/8	22 1/8	23 1/4	1 1/4	1 1/4	8 1/2	1/2
FKD 18	18	16	18	24 3/8	22 1/8	21 3/4	1 1/4	7 7/8	7	1/2

Dimensional information is in inches.

Accessories

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FC
Mounting Clamps
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Silencer
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IR
Iris Damper
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EM-WX
Electrical Heater
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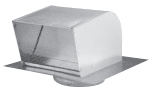

RC
Roof Cap
page 264

HL
Hood Liner
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FTD 7
7 Day Timer
page 260

SCD
Speed Control
page 259

RPE
Speed Control
page 259

WC 15
Speed Control
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5ACC.. MS
Motor Disconnect
page 261

TODAY IS TH
FOR SOM

E START
METHING
REALLY
BIG

FKD Series - 230V

Inline Mixed Flow Fans

- Mixed-flow impeller
- 100% speed-controllable
- Integrated thermal contacts
- Air stream temperatures up to 140 °F

Application

The FKD direct drive, mixed flow fans blend the high air flow of axial fans with the higher pressure, non-overloading characteristics of backward curved impellers. An excellent choice for exhaust or supply applications where quieter performance and easy installation are important. Perfect for commercial and institutional structures such as offices, hospitals, beauty salons, veterinary clinics as well as residential applications such as kitchen range hood exhaust.

Design

The casing is manufactured from galvanized sheet metal. The Series have external rotor motors with a mixed flow impeller, which reduces the external dimensions of the fans. Brackets are supplied with the fans to make installation easier.

Motor protection

To protect the motor from overheating the fan has integral thermal contacts with leads to a motor protection device.

FKD 8XL... FKD 12
Airflows up to 1,290 cfm.

FKD 12XL... FKD 20
Airflows up to 6,291cfm.

Certification

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Specification data

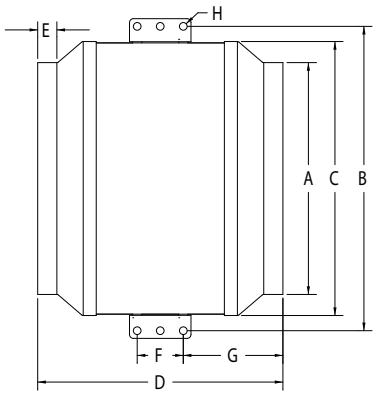
Model	Rated power	Voltage / phase	Max amps	RPM	.0" P_s	.5" P_s	.75" P_s	1.0" P_s	1.5" P_s	2.0" P_s	Max P_s	Sones†	Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	A	min^{-1}	cfm						in.wg		lbs			USD
FKD 8XL-230	330	230 / 1	1.50	2785	820	670	579	479	375	276	121	16.9	20	1	42576	714.-
FKD 10-230	329	230 / 1	2.10	2775	872	717	619	523	432	340	150	20.6	19	1	42577	714.-
FKD 10XL-230	545	230 / 1	2.25	2940	1265	1112	1032	944	848	741	497	23.2	25	1	40469	822.-
FKD 12-230	531	230 / 1	2.10	2845	1290	1136	1043	941	833	717	469	25.0	24	1	40470	822.-
FKD 12XL-230	540	230 / 1	2.40	1690	1946	1604	1377	1069	610	87	-	20.4	44	1	45300	1,038.-
FKD 14-230	540	230 / 1	2.40	1690	2070	1683	1474	1093	589	166	-	19.4	54	2	45405	943.-
FKD 14XL-230	860	230 / 1	3.80	1575	2748	2291	2038	1687	1270	851	186	22.1	54	2	45301	1,601.-
FKD 16-230	860	230 / 1	3.70	1575	2918	1737	1453	1180	899	425	2	19.9	54	2	45303	1,601.-
FKD 16XL-230	1550	230 / 1	6.60	1635	4210	3615	3233	2814	2372	1920	1037	24.3	84	2	45302	2,310.-
FKD 18-230	1550	230 / 1	6.60	1635	4490	3946	3588	3152	2654	2127	1121	25.9	85	2	45305	2,310.-

Performance certified is for installation type D-Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). †The sound ratings shown are loudness values in hemispherical sones at 1.5m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are installation Type D: Ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction. All sone values shown are calculated at 0.5" (static pressure in inches W.G.).

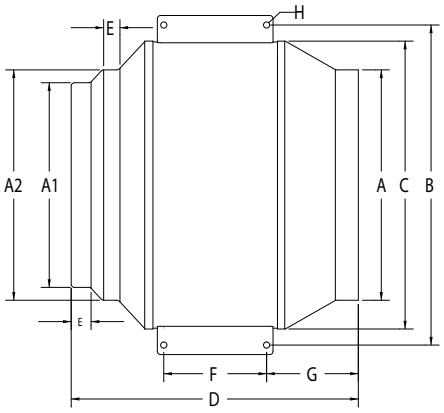
Model	Rated power	Voltage / phase	Max amps	RPM	.0" P_s	.5" P_s	.75" P_s	1.0" P_s	1.5" P_s	2.0" P_s	Max P_s	Sones†	Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	A	min^{-1}	cfm						in.wg		lbs			USD
FKD 18XL-230/460	2208	230/460 / 3	3.75	1700	6236	5754	5500	5199	4909	4602	3703	32.0	108	2	40024	2,852.-
FKD 20-230/460	2218	230/460 / 3	3.73	1750	6291	5829	5617	5307	4987	4667	3757	33.0	109	2	40025	2,852.-

Dimensions

FKD 8XL - 12



FKD 12XL - 20



Model	A	A1	A2	B	C	D	E	F	G	H
FKD 8XL	8	-	-	14	12 1/2	15 1/2	3/4	2 3/8	6 1/8	3/8
FKD 10	10	-	-	14	12 1/2	15 1/2	3/4	2 3/8	5	3/8
FKD 10XL	10	-	-	15 5/8	14	15	3/4	2 3/8	6 3/8	3/8
FKD 12	12	-	-	15 5/8	14	12 1/2	3/4	2 3/8	5 1/8	3/8
FKD 12XL	12	12	14	20 1/4	17 7/8	18 7/8	7/8	4	8 3/4	3/8
FKD 14	14	12	14	20 1/4	17 7/8	17 1/4	1	1	6 3/4	3/8
FKD 14XL	14	14	16	22 1/8	19 3/4	20 1/4	1 1/2	1 1/2	8 3/4	3/8
FKD 16	16	14	16	22 1/8	19 3/4	18 3/4	1 1/2	1 1/2	7 1/8	3/8
FKD 16XL	16	16	18	24 3/8	22 1/8	23 1/4	1 1/4	1 1/4	8 1/2	1/2
FKD 18	18	16	18	24 3/8	22 1/8	21 3/4	1 1/4	7 7/8	7	1/2
FKD 18XL	18	18	20	30 3/8	28 1/8	27 1/4	2	7 7/8	12 1/2	1/2
FKD 20	20	18	20	30 3/8	28 1/8	27 3/4	2	7 7/8	12 1/2	1/2

Dimensional information is in inches.

Accessories

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5ACC.. MS
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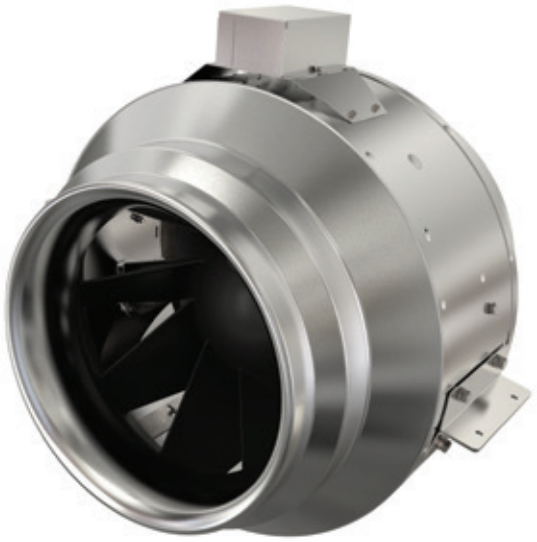
FKD EC Series

Inline Mixed Flow Fans with EC-motors

- Integrated motor protection
- Pre-wired speed control potentiometer for air flow adjustments and balancing
- BMS compatible (EC models)

Application

These fans are known for their economical use of energy and excellent ease of control. They can be varied in speed to match the airflow demand, and operate at high efficiency levels. An excellent choice for exhaust or supply applications where quieter performance and easy installation are important. Perfect for commercial and institutional structures such as offices, hospitals, beauty salons, veterinary clinics as well as residential applications such as kitchen range hood exhaust.



Design

The casing is manufactured from galvanized sheet metal. The FKD EC series have external rotor EC motors with a mixed flow impeller, which reduces the external dimensions of the fans. These fans have a high air flow capacity in relation to their compact design. Brackets are supplied with the fans to make installation easier.

Speed contol

The FKD EC fan motor's speed is controlled via a 0-10Vdc signal. The motor provides a +10V reference that can be reduced by either the integrated or a remote-mounted potentiometer (such as MTP 10, see **Accessories**). The motor can also be controlled by an externally-provided 0-10Vdc signal that can come from any device or a Building Management System (BMS). The fan's motor also provides operational speed (tachometer pulse) output that can be used to verify fan operation. These control features allow the FKD EC to be integrated into and play an active role in smart HVAC systems in buildings.

Motor protection

Motor protection is integrated in the electronics of the motor.

Certification

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

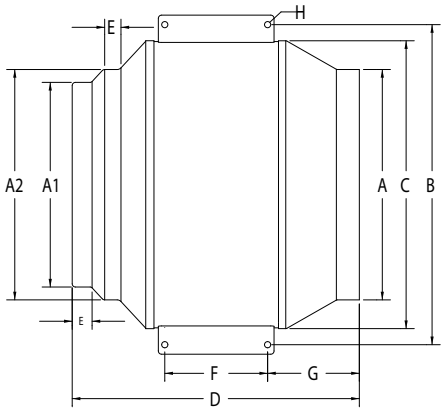
Specification data

Model	Rated power	Voltage / phase	Max amps	RPM	0.0" P_s	0.25" P_s	0.50" P_s	0.75" P_s	1.0" P_s	1.25" P_s	Sones†	Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	A	min^{-1}	cfm							lbs			USD
FKD 12XL EC	395	120 / 1	3.04	1698	1936	1777	1601	1380	971	532	16	46	1	44935	1,762.-
FKD 14XL EC	450	120 / 1	3.38	1424	2430	2223	1988	1681	1141	575	13	56	1	44937	2,065.-
FKD 16 EC	1082	230 / 1	5.20	1535	4250	4000	3667	3271	2688	1875	18	75	2	44955	3,478.-
FKD 16XL EC	1965	460 / 3	4.30	1909	5150	4955	4744	4500	4243	3897	26	75	2	44956	4,041.-
FKD 18 EC	1979	460 / 3	3.20	1612	5921	5729	5460	5185	4869	4564	25	98	2	44957	4,406.-
FKD 20 EC	2002	460 / 3	3.20	1597	5967	5700	5467	5267	4967	4633	26	99	2	44958	4,406.-

Performance certified is for installation type D-Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).

†The sound ratings shown are loudnes values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are installation Type D: Ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction. All sone values shown are calculated at 0.5" (static pressure in inches W.G.).

Dimensions



Model	A	A1	A2	B	C	D	E	F	G	H
FKD 12XL EC	12	12	14	20 1/4	17 7/8	18 7/8	7/8	4	8 3/4	3/8
FKD 14XL EC	14	14	16	22 1/8	19 3/4	20 1/4	1 1/2	4	8 3/4	3/8
FKD 16 EC	16	14	16	22 1/8	19 3/4	18 3/4	1 1/2	4	7 1/8	3/8
FKD 16XL EC	16	16	18	24 3/8	22 1/8	22 3/4	1 1/4	7 7/8	8 1/2	3/8
FKD 18 EC	18	18	20	28 3/5	26 1/8	27 1/5	1 1/4	7 7/8	7	1/2
FKD 20 EC	20	18	20	28 3/5	26 1/8	27 1/5	2	7 7/8	12 1/2	1/2

Dimensional information is in inches.

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HL
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MTP 10
Speed Control
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DPC 200
Constant Pressure Control
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5ACC.. MS
Motor Disconnect
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NEW!

NEW DESIGN

We moved things around to optimize airflow, reduce noise and vibration, and increase structural integrity.

GUARANTEED AIRTIGHT

FR and **HP Series** are the only inline fans that use a vibration weld to permanently join the housing into a single piece. No caulk or sealant means no leaks.

FIT OPTIMIZED COLLAR

New collar is sized specifically to fit standard duct sizes.

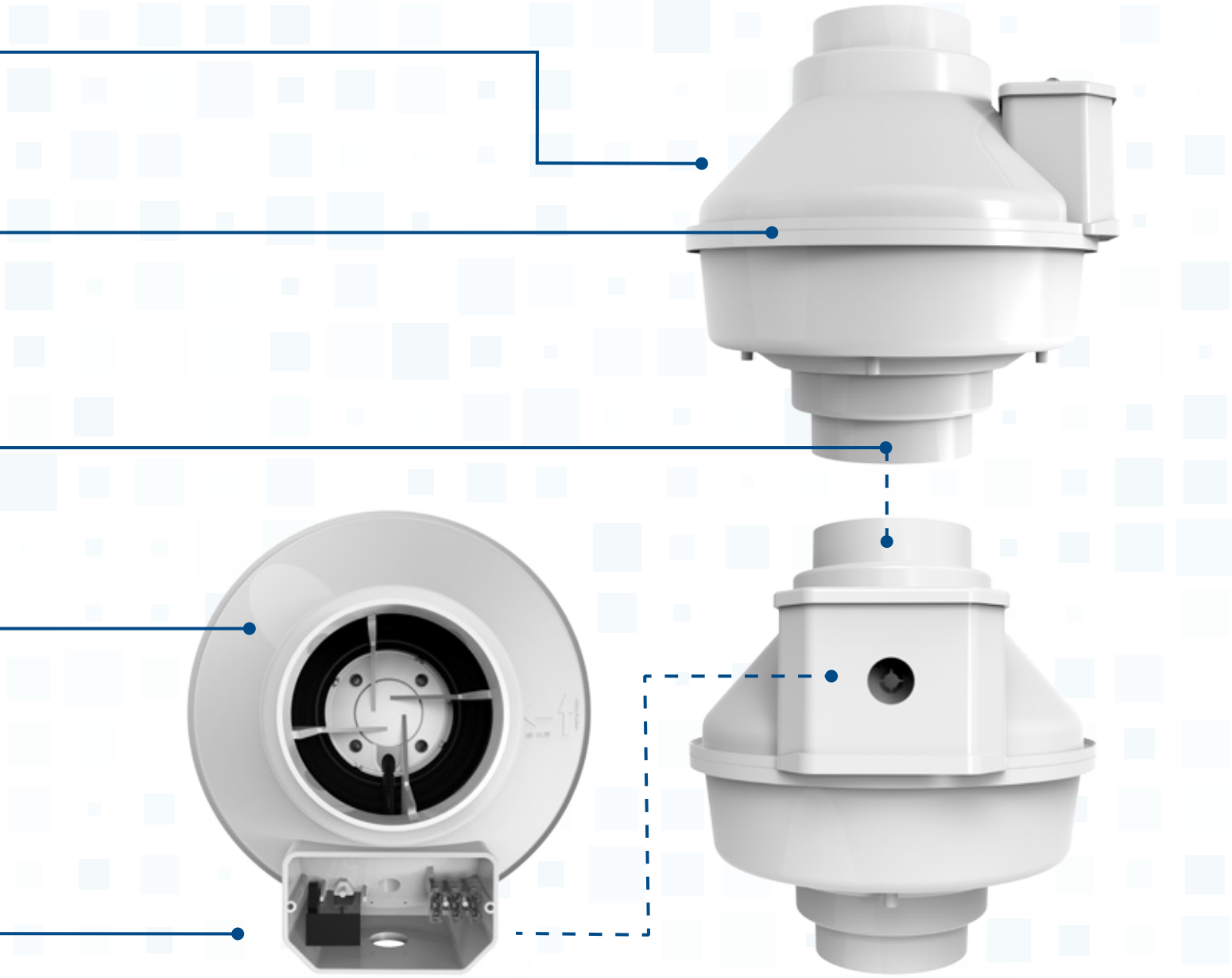
NEW HOUSING MATERIAL

New high-impact, low viscosity, UV stabilized, flame retardant polycarbonate formula is 25% thicker and stronger.

LARGER ELECTRICAL BOX

With 37% more internal space, it will make wiring and installation a whole lot easier.

THE NEXT STEP IN DUCT FAN EVOLUTION.



FR Series*

Inline Centrifugal Fans

- Airflow up to 650 cfm
- Vibration welded seam ensures leak proof housing
- Approved for wet locations
- Air stream temperatures up to 140 °F

Application

The FR Series is a versatile inline duct fan. These models can be used for multiple point exhaust, residential and commercial applications, crawl space venting or make-up air supply. They are also widely used as booster fans to move air from one room or area to another.

Design

All models (except for FR 200, FR 225 and FR250) feature a permanently joined and sealed plastic housing. The housing is joined via a vibration welding process. The process uses transverse, reciprocating motion at the point of contact between the housing's inlet and outlet pieces. The friction produces heat that melts the thermoplastic material at the interface. The melted material quickly re-solidifies, resulting in a fused, single-piece housing. The fused seam is inherently air tight, very strong and permanent. No screws or adhesive is used to join the housing pieces. An air-tight fan ensures that efficiency is not lost and contaminants are not spilled due to leakage.

The fan may be mounted in outdoor and wet locations. The FR Series features external rotor motors that have proven dependable year after year.

A large electrical wiring enclosure is designed into the fan housing, making electrical installation easier.

Motor protection

Thermal overload protected with automatic reset. The fans can be controlled via a solid state speed controller.

Certification

FR 100, FR 110, FR125

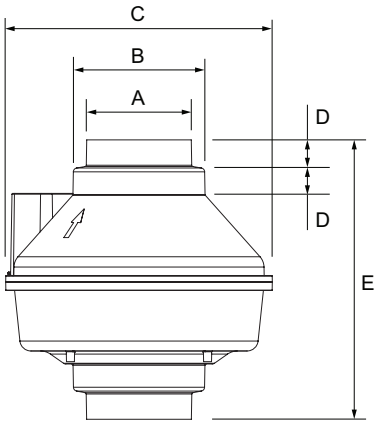
FR 140, FR 150, FR 160

Specification data

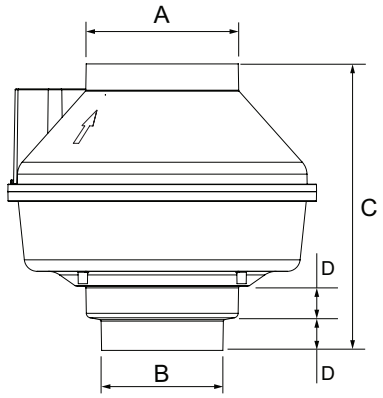
Model*	Duct size	Rated power	Voltage / phase	Max. amps	0.0" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s	1.5" P_s	Max P_s	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	A	cfm						in.wg	lbs			USD
FR 100	4	19	120 / 1	0.17	151	94	63	20	-	-	0.89	6	1	411330	184.-
FR 110	4	80	120 / 1	0.72	187	150	128	112	95	50	2.00	7	1	411331	204.-
FR 125	5	20	120 / 1	0.17	172	98	63	15	-	-	0.85	6	1	411332	192.-
FR 140	6	62	120 / 1	0.53	226	174	138	104	55	-	1.13	8	1	411333	201.-
FR 150	6	68	120 / 1	0.59	327	247	200	163	118	37	1.70	8	1	411334	209.-
FR 160	6	116	120 / 1	0.99	345	252	197	157	135	110	2.00	8	1	411335	263.-
FR 200	8	122	120 / 1	1.11	408	308	259	213	173	72	2.14	10	1	411336	292.-
FR 225	8	137	120 / 1	1.35	429	366	332	297	260	168	2.48	11	1	411337	341.-
FR 250	10	241	120 / 1	2.40	649	553	506	454	403	294	2.58	13	1	411338	390.-

Performance shown is for installation type D - Ducted inlet, Ducted outlet. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the airstream.
*FR 100, FR125 and FR150 earned the ENERGY STAR® by meeting strict efficiency guidelines.

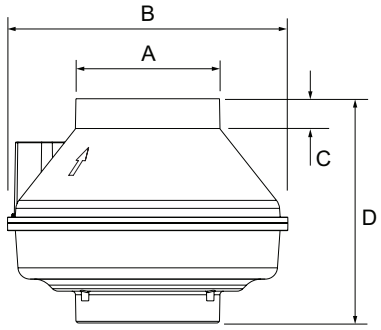
Dimensions



FR 100 / 110 / 200 / 225



FR 125



FR 140 / 150 / 160 / 250

Model	A	B	C	D	E
FR 100 / 110	3 31/32	4 31/32	10	1	10 9/16
FR 125	5 31/32	3 31/32	9 3/8	1	-
FR 200 / 225	8	10	13 1/4	1 1/2	12 1/4

Model	A	B	C	D
FR 140 / 150	5 7/8	11 1/2	1 1/4	9 1/4
FR 160	5 7/8	11 1/2	1 1/4	9 1/4
FR 250	10	13 1/4	1 1/2	9 1/4

All dimensions in inches.

FR 200, FR 225, FR 250

Accessories

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Shut-off Damper
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RSK
Backdraft Damper
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FGR
Filter Cassette
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EM-WX
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FML
Intake Hood
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FTD 7
7 Day Timer
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FD 60EM
Electronic Timer
page 260

SCD
Speed Control
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WC 15
Speed Control
page 259

FH 20
Dehumidistat
page 261

CVS Series
Inline Multi-Port Ventilators

- Airflow up to 400 cfm
- 100% Speed-controllable
- Slim design fits any tight space
- Air stream temperatures up to 140 °F

Application
The CVS Series multi-port ventilators have been engineered for installation in areas where space is limited. They are a popular choice for use in areas between floors in apartment buildings or high rise office complexes. With CVS models, several exhaust points connect into one centrally located fan without the use of adapters or transitions. With multiple exhaust points going into one fan, wall or roof penetrations are kept to a minimum.

Design
The motorized impeller is both statically and dynamically balanced as one integral unit, for vibration free, quiet performance. CVS models feature metal collars with rubber gaskets for tight duct connections. The CVS 275A model has 2 intakes air port to provide exhaust from two locations. The CVS 300A and CVS 400A have 4 intake ports to exhaust air from multiple locations.

Motor protection
Thermal overload protected with automatic reset.

Certification

CVS 300A, CVS 400A
4 intake port models provide exhaust from four multiple locations

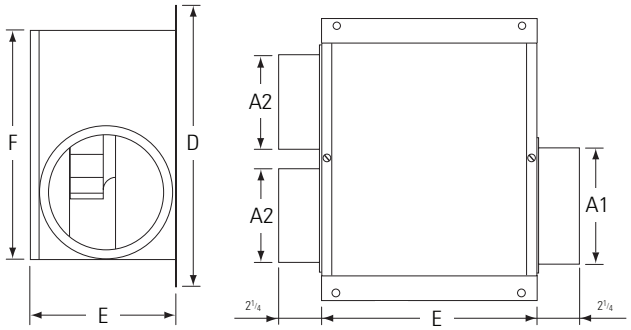
Specification data

Model	Duct size*	Rated power	Voltage / phase	Max. Amps	RPM	0.0" P_s	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s	Max P_s	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	A	min^{-1}	cfm						in.wg	lbs			USD
CVS 275A	5 / 6	92	120 / 1	0.79	2550	245	220	192	171	147	126	1.72	15	1	40116	268.-
CVS 300A	4 / 6	123	120 / 1	1.07	2500	355	320	283	249	215	180	1.76	22	1	40118	354.-
CVS 400A	4 / 6	156	120 / 1	1.41	2950	404	380	352	324	299	274	2.30	23	1	40119	398.-

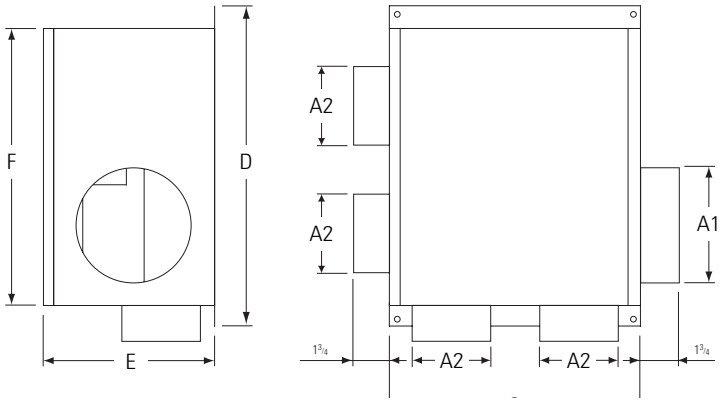
CVS Series performance is shown with ducted outlet. Per HVI`S Certified rating program, charted air flow performance has been derated by a factor based on actual test results and the certified rate at 0.2 inches WG.
* - Duct size shows as inlet/outlet

Dimensions

CVS 275A



CVS 300A / CVS 400A



Model	A1	A2	C	D	E	F
CVS 275A	6	5	11	15	7 5/8	12
CVS 300A / CVS 400A	6	4	13	18 3/4	8 1/4	16

Dimensional information is in inches. Male duct connector is 1/8" smaller than duct size.

Accessories

FC
Mounting Clamps
page 265

RSK
Backdraft Damper
page 266

LD
Silencer
page 266

CG
Contour Grille
page 263

DG / DGD
Exhaust Grille
page 263

MGE
Exhaust Grille
page 263

HS
Louvered Shutter
page 264

FIDT
Insulated Flex Duct
page 265

RC
Roof Cap
page 264

FTD 7
7 Day Timer
page 260

SCD
Speed Control
page 259

WC 15
Speed Control
page 259

RVF Series

Exterior Wall Mount Fans with AC and EC Motors

Application

The RVF Series is an exterior, wall-mount exhaust fan. These models are commonly used for remotely located exhaust for bathrooms, kitchens, utility rooms, garages, and numerous applications where installation convenience and quiet nature of a remotely-mounted fan are desirable.

- Ambient noise is kept outside
- 100% speed-controllable

Design

The RVF model includes an impeller with backward-curved blades and galvanized sheet metal housing with a white powder-paint coating. When installed on an exterior wall, all ambient noise is kept outside.
These fans are lightweight, compact, and simple to install. The housing is removable for immediate access to the motor and wiring connections.

Models

The Series is available with both AC and EC motors. The EC-motor version provides the highest energy efficiency, can be speed controlled via a 0-10Vdc signal, and also includes a pre-wired speed control potentiometer.

Specification data.

Model	Duct size	Rated power	Voltage / phase	Max. amps	0.1" P_s	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s	1.5" P_s	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	A								lbs			USD
RVF 4[1)]	4	19	120 / 1	0.17	120	112	83	37	-	-	-	8	1	40040	213.-
RVF 4XL[1)]	4	92	120 / 1	0.84	180	172	154	136	118	91	-	10	1	40041	226.-
RVF 6[1)]	6	92	120 / 1	0.84	220	204	177	150	123	68	-	10	1	40042	235.-
RVF 6XL[1)]	6	149	120 / 1	1.46	360	346	315	285	258	213	64	14	1	40043	313.-
RVF 8XL[1)]	8	151	120 / 1	1.42	410	392	348	312	282	235	102	14	1	40044	357.-

Per HVI's Certified rating program, charted air flow performance has been derated by a factor based on actual test results and the certified rate at 0.2 inches WG. [1)] HVI and cCSAus safety certified.

Model	Duct size	Rated power	Voltage / phase	Max. amps	0.1" P_s	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s	1.5" P_s	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	A								lbs			USD
RVF 10[2)]	10	112	120 / 1	0.94	760	720	630	520	400	270	-	31	1	44864	593.-
RVF 10L[2)]	10	211	120 / 1	2.10	1020	985	920	850	770	670	269	36	1	44865	647.-
RVF 10XL[2)]	10	312	120 / 1	2.61	1222	1180	1095	996	900	800	485	36	1	44866	680.-

RVF Series performance is shown with ducted inlet. Performance certified is for installation type C-Ducted Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). This product is not UL listed for dryer exhaust. Speed (RPM) is nominal. Performance is based on actual speed of test. These products are not UL listed for dryer exhaust.
[2)] AMCA performance and cULus safety certified.

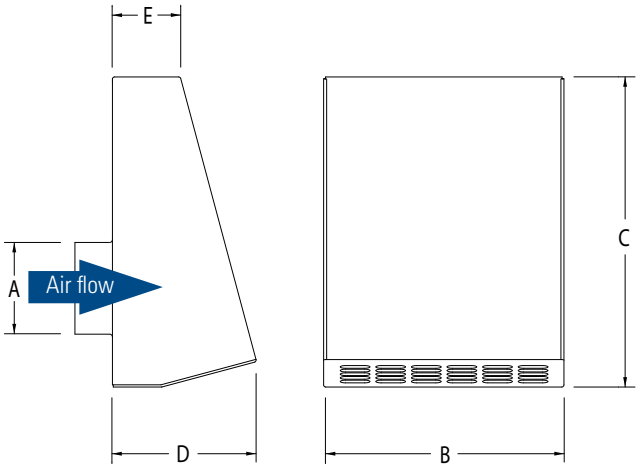
Model	Duct size	Rated power	Voltage / phase	Max. amps	0.1" P_s	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s	1.5" P_s	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	A								lbs			USD
RVF 4XL EC[2)]	4	80	120 / 1	1.51	225	220	209	190	170	155	108	8	1	44860	443.-
RVF 6XL EC[2)]	6	61	120 / 1	1.21	380	362	328	284	244	208	95	20	1	44861	507.-
RVF 8XL EC[2)]	8	85	120 / 1	1.56	492	470	433	392	348	290	160	20	1	44862	574.-
RVF 10 EC[2)]	10	130	120 / 1	2.22	862	830	766	698	611	505	100	31	1	44863	789.-

RVF Series performance is shown with ducted inlet. Performance certified is for installation type C-Ducted Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). This product is not UL listed for dryer exhaust. Speed (RPM) is nominal. Performance is based on actual speed of test. These products are not UL listed for dryer exhaust.
[2)] AMCA performance and cULus safety certified.

Dimensions

Model	A†	B	C	D	E
RVF 4	4	10 1/4	13	6	2 3/4
RVF 4XL | RVF 4XL EC	4	10 1/4	13	6	2 3/4
RVF 6	6	10 1/4	13	6	2 3/4
RVF 6XL | RVF 6XL EC	6	14 1/4	17	6 | 8	2 3/4 | 4 7/8
RVF 8XL | RVF 8XL EC	8	14 1/4	17	6 | 8	2 3/4 | 4 7/8
RVF 10 | RVF 10 EC	10	17 7/8	21 1/4	10	5 7/8
RVF 10L	10	17 7/8	21 1/4	10	5 7/8
RVF 10XL	10	17 7/8	21 1/4	10	5 7/8

Dimensional information is in inches.
† Duct connections are 1/8" smaller than duct size.



Certification

The following models do not comply with BAA: RVF 4, RVF 4XL, RVF 6, RVF 6XL, RVF 8XL.

Fantech, Inc. certifies that the RVF 10, RVF 10L, RVF 10XL models and all EC models shown herein are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type C- Ducted inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories).

A NEW ADDITION TO A SMART HVAC SYSTEM

The EC fan motor's speed is controlled via a 0-10Vdc signal. The motor provides a +10V reference that can be reduced by either the integrated or a remote-mounted potentiometer (such as MTP 10, see Accessories).

The motor can also be controlled by an externally-provided 0-10Vdc signal that can come from any device or a Building Management Systems (BMS). The fan's motor also provides operational speed (tachometer pulse) output that can be used to verify fan operation.

These control features allow the RVF EC to be integrated into and play an active role in smart HVAC systems in buildings.

Accessories

CG
Contour Grille
page 263

MGE
Exhaust Grille
page 263

RSK
Backdraft Damper
page 266

FC
Mounting Clamps
page 265

FIDT
Insulated Flex Duct
page 265

FEL
Elbow
page 265

HL
Hood Liner
page 144

FTD 7
7 Day Timer
page 260

FH 20
Dehumidistat
page 261

SCD [3]
Speed Control
page 259

WC 15 [3]
Speed Control
page 259

DB10 [1]
Pressure Switch
page 269

MTP 10 [2]
Speed Control
page 260

DPC 200 [2]
Constant Pressure Control
page 260

[1] for dryer booster applications
[2] for EC models only
[3] for AC models only

FRD Series
Inline Rectangular Fans

- Airflow up to 2,318 cfm
- Hinged door for service access
- 100% speed controllable
- Air stream temperatures up to 140 °F

Application
The FRD Series centrifugal type exhaust/supply fans are specifically designed for large ventilation needs where space is at a premium, such as hospitals, schools, or office buildings. System balancing is easy since the external rotor motor is 100% speed controllable.

Design
The compact housing design of the FRD Series allows for installation directly within rectangular ductwork (ranging from 12"x 6" ducts to 24"x 14" ducts), without the need for large elbows or transitional sections. FRD Series fans are simple to install; no extra materials are required. Simply mount the fan at any angle in any point in the ductwork. The motor is mounted on a hinged door – just swing the door out for easy access to the motor and wiring connections.

Motor protection
To protect the motor from overheating the fan has integral thermal contacts with leads to a motor protection device.

Certification
Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Specification data

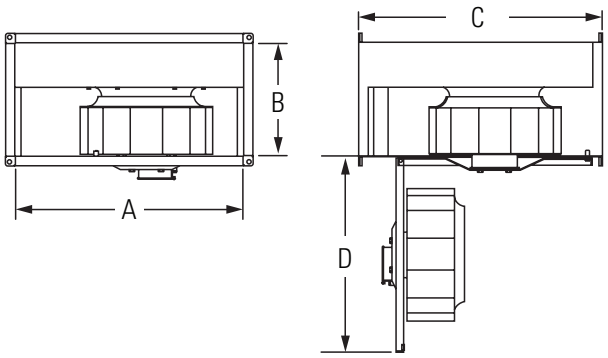
Model	Rated power	Voltage / phase	RPM	Max. Amps	0.0" P_s	.50" P_s	.75" P_s	1.0" P_s	1.5" P_s	2.0" P_s	Max P_s	Sones†	Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	min^{-1}	A	cfm						in.wg		lbs			USD
FRD 12-6	84	120 / 1	2550	0.74[1]	309	214	171	133	75	-	2.01	8.0	17	1	40030	333.-
FRD 16-8	150	120 / 1	2950	1.30[1]	560	434	368	300	191	119	2.57	13.0	30	1	40031	459.-
FRD 16-8XL	264	120 / 1	2800	2.32[1]	658	535	471	406	290	196	3.44	13.1 ‡	30	1	40032	539.-
FRD 20-10	191	120 / 1	1650	1.68[1]	1013	814	724	617	225	-	1.84	16.7	43	1	40033	826.-
FRD 24-14	597	120 / 1	1650	5.18[2]	2318	1939	1752	1527	1090	377	2.16	18.2 ‡	86	2	40115	1,478.-

Performance certified is for installation type D - ducted inlet, ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).
† The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. All sone values are calculated at 0.5" (static pressure in inches W.G.).
‡ Sone Value at 0.75" (static pressure in inches W.G.).
[1] Recommended speed control rating 5A [2] Recommended speed control rating 10A

Model	Rated power	Voltage / phase	RPM	Max. Amps	0.0" P_s	.50" P_s	.75" P_s	1.0" P_s	1.5" P_s	2.0" P_s	Max P_s	Sones†	Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	min^{-1}	A	cfm						in.wg		lbs			USD
FRD 12-6-230	81	230 / 1	2700	0.35[1]	275	210	180	143	83	-	1.6	10.9	17	1	40449	399.-
FRD 16-8-230	225	230 / 1	3050	0.61[1]	585	475	410	345	222	135	2.3	14.7	30	1	40590	524.-
FRD 16-8XL-230	176	230 / 1	2880	0.91[1]	553	478	438	416	336	261	2.5	15.6	30	1	45307	587.-
FRD 20-10-230	198	230 / 1	1680	0.86[1]	964	730	617	485	166	-	1.5	16.0	43	2	44002	901.-
FRD 24-14-230	810	230 / 1	1600	3.60[1]	2122	1864	1679	1512	1109	588	2	20.6	86	2	44003	1,773.-

[1] Recommended speed control rating 5A

Dimensions



Model	A	B	C	D
FRD 12-6	11 7/8	5 7/8	15 3/4	11
FRD 16-8	15 3/4	7 3/4	19 3/4	15
FRD 16-8XL	15 3/4	7 3/4	19 3/4	15
FRD 20-10	19 5/8	9 3/4	20 3/8	18
FRD 24-14	23 5/8	13 3/4	28 1/8	20

Dimensional information is in inches. Note: Flanges extend $^{7}/_{8}$ beyond the A dimension.

THE FRD SWING OUT PANEL

The motor is mounted on a swing out panel, which allows for easy access and maintenance when instal-led above commercial lay-in suspended ceilings.

Sealed with a high density neoprene gasket, the access panel is air tight when secured, unlike most competitors' fan access panels.

Accessories

FTD 7
7 Day Timer
page 260

RPE
Speed Control
page 259

SCD
Speed Control
page 259

WC 15
Speed Control
page 259

FH 20
Dehumidistat
page 261

FSD Series

Inline Mixed Flow Square Fans

- Airflow up to 6,993 cfm
- Lightweight square design
- 100% speed controllable
- Air stream temperatures up to 140 °F

Application

The FSD series may be used for supply, exhaust, or ducted air movement where relatively high air flow rates against moderate static pressure is desired. The square design provides a larger cross-sectional discharge area than tubular centrifugal or vane axial fans, so outlet velocities are reduced for quieter operation.

Design

The motorized impeller is both statically and dynamically balanced as one integral unit, for vibration free, quiet performance. Motor bearings are a permanently sealed, self-lubricating ball type.

Motor protection

One phase (1~) models are equipped with thermal overload protection with automatic reset. These models can be speed-controlled via a stepless thyristor. Three phase (3~) models require an external contactor.

Certification

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Specification data

Model	Rated power	Voltage / phase	RPM	Max. Amps	0.0" P_s	.50" P_s	.75" P_s	1.0" P_s	1.5" P_s	2.0" P_s	Sones†	Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	min^{-1}	A	cfm							lbs			USD
FSD 18	517	120 / 1	1700	4.80[2]	2463	1987	1644	1180	-	-	12.4	65	2	40035	985.-
FSD 20	753	120 / 1	1600	6.36[2]	3225	2605	2241	1829	815	-	14.1	81	2	40036	1,582.-
FSD 22	1554	120 / 1	1600	15.00[3]	5223	4605	4282	3865	2716	1308	21.0	111	2	40037	2,212.-
FSD 26	2328	460 / 3	1700	3.82[2]	6993	6317	5981	5608	4681	3469	27.0 ‡	134	2	40038	2,867.-

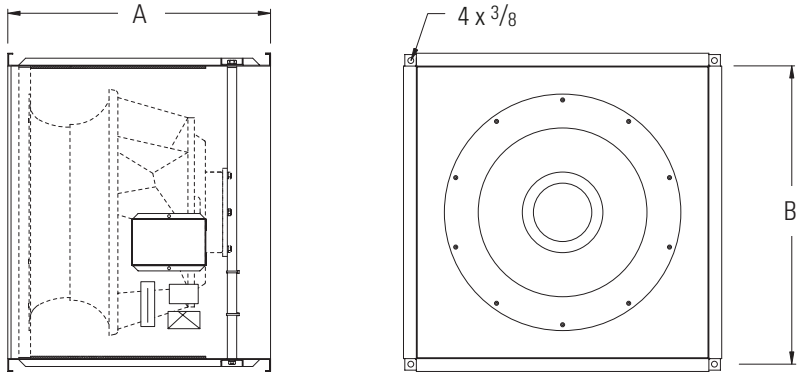
Performance certified is for installation type A - Free inlet, free outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). Note: Three phase motors are wound for 230/460 volt. Motors are prewired for 460 volts but may be delivered as 230 volt or may be rewired in the field.

† The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. All sone values are calculated at 0.5" (static pressure in inches W.G.).

‡ Sone Value at 0.75" (static pressure in inches W.G.).

[2] Recommended speed control rating 10A [3] Recommended speed control rating 15A

Dimensions



Model	A	B
FSD 18	15 3/4	17 5/8
FSD 20	17 3/4	19 3/4
FSD 22	19	21 1/2
FSD 26	20	26

Dimensional information is in inches.
Note: 7/8" flange extends each direction beyond the B dimension.

Accessories

WC 15
Speed Control
page 259

RPE
Speed Control
page 259


fantech

Nishobora Delila,
Assembly Technician

"Why is it important for a duct fan to be air tight? If air leaks out of the fan, then so do the contents of the air such as radon, humidity, odor and lint. An air-tight fan ensures that efficiency is not lost and contaminants are not spilled due to leakage."

ZERO LEAKAGE FANS 100% GUARANTEED

MUAS
Makeup Air System

Why do we need true makeup air?

In a nutshell - we would otherwise have problems. Today's homes are built to be more energy-efficient. "Tighter" construction resists the infiltration of outdoor air through the home's exterior, which limits the amount of makeup air the home will permit. Of course, you can only exhaust out from the home as much air as is able to come back in. Without makeup air, even a powerful exhaust fan can remove only as much air from the home as is permitted via infiltration.

When an exhaust fan operates without sufficient makeup air, some undesirable results can occur:

The exhaust system will not work to its intended capacity

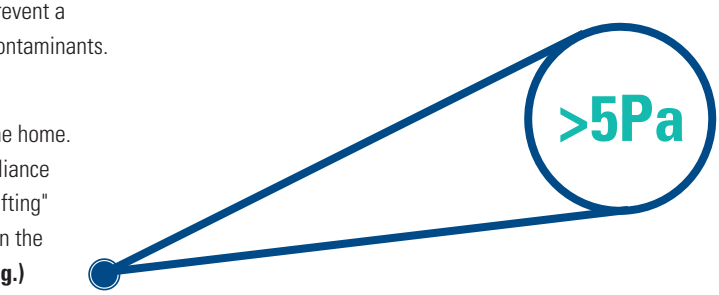
Kitchen hood exhaust systems are sized to remove cooking-generated heat, odors and contaminants based on the cooking equipment's dimensions and heat rating. Inadequate makeup air can prevent a kitchen hood exhaust system from adequately removing contaminants.

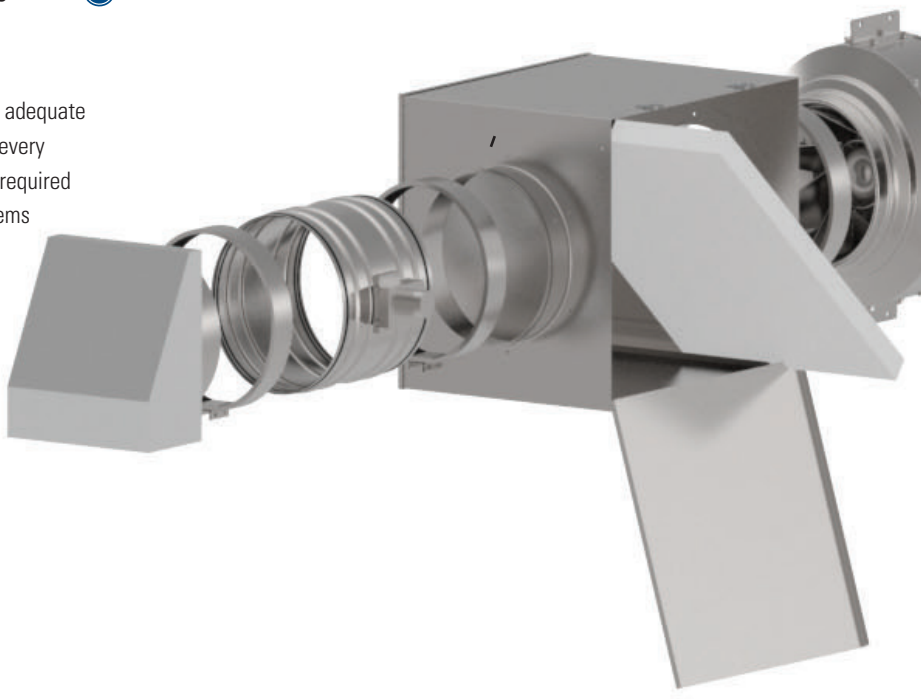
Backdrafting of chimneys and appliance vents

Insufficient makeup air will result in depressurization in the home. Depressurization works to halt the flow of hearth and appliance combustion products from exiting the home. This "backdrafting" can result in a dangerous accumulation of harmful gases in the home. Studies have shown that as little as **5 Pa (0.02" w.g.)** depressurization can cause backdrafting.

Non-compliance with the building code

The construction industry has long recognized the need for adequate makeup air for exhaust systems. Beginning in 2009 and in every version since, the International Residential Code (IRC) has required that makeup air be provided for kitchen hood exhaust systems with capacity of 400 cfm or greater.





The Fantech Makeup Air System is the only solution

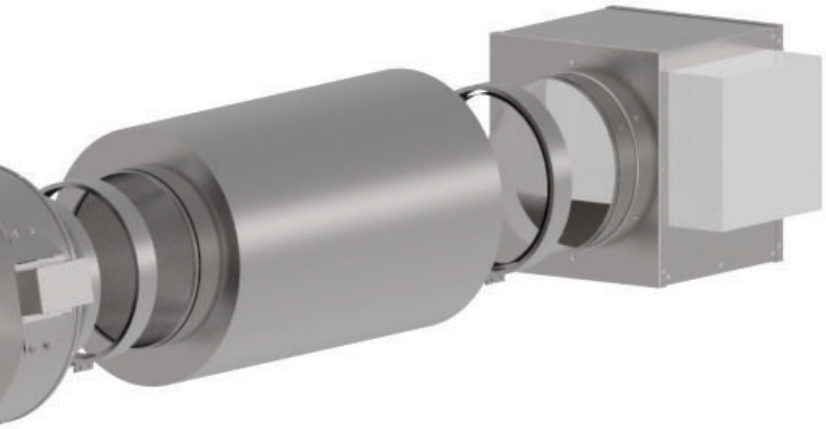
A home builder could actually satisfy a home's makeup air requirement by leaving a relatively large hole (or several) in the exterior wall. Although, a hole in the wall might satisfy the makeup air requirement in the code, most would agree that such a solution is hardly ideal, especially during peak seasonal weather conditions.

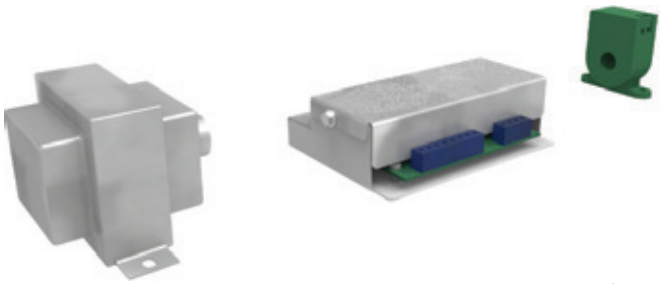
The "passive" solution is similar to the hole in the wall. This solution has no fan supplying air into the home, so the home MUST be depressurized for air to flow in. This results in a very large opening (or multiple ones) in order to keep the level of depressurization below the backdrafting threshold. The passive solution does not accommodate direct filtering and tempering, since it is not fan-forced.

The Fantech MUAS is a "powered" or "fan-forced" system. The MUAS is triggered when the compensated exhaust system is energized. The MUAS damper opens and the MUAS fan is powered on. The fan is speed-controlled relative to the speed of the compensated exhaust system's fan speed. In other words, as you speed up the exhaust fan, the MUAS fan speeds up too, and vice versa.

Fantech Makeup Air System advantages at glance:

- Automatic, infinitely modulating air flow in proportion to the exhaust
- Particulate matter is filtered from the outdoor air before it is delivered to the home
- Since it is fan-forced, makeup air can be ducted to where it can be most suitably delivered to the home
    - Cold outdoor air can be tempered with optional MUAH heater kits
    - MUAS can be set up by the installer for a variety of pressure schemes: slightly negative, slightly positive, or balanced
    - MUAS provides the EXACT amount of air needed - no more, no less
    - Complies with the building code





Fantech Makeup Air Controller (FMAC)

The patent-pending FMAC is the brains of the makeup air system. While the compensated exhaust system is operating, the makeup air fan supplies air at a rate necessary to maintain the desired building pressure scheme as set up by the installer. The makeup air flow rate automatically and infinitely varies proportionally with the speed at which the exhaust is operated by the homeowner. A neutral (balanced) pressure scheme is common, but the installer can also employ a slightly positive or negative pressure scheme should he desire.

The FMAC includes a current transducer, system controller, transformer, and a NEMA electrical enclosure.

True Makeup Air System for a Single Family Home

Ducted Components

DUCT SILENCER

Provides ducted sound attenuation between makeup air fan and the location of makeup air delivery to the home.

DUCT HEATER (optional)

Controlled via discharge air temperature, the heater automatically varies its modulating heat output to deliver air at the temperature set point, even as the air flow rate and outdoor air temperature vary.

MAKEUP AIR FAN

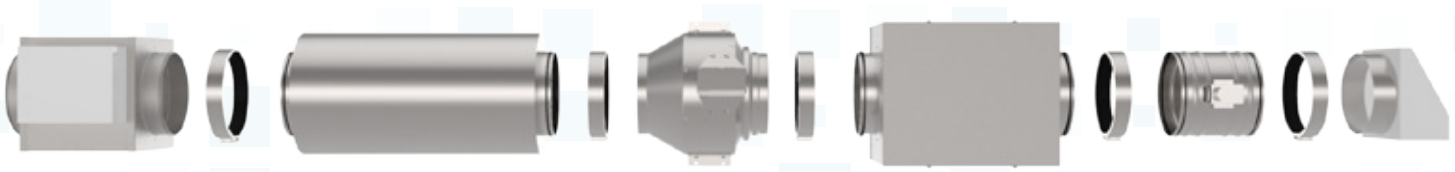
ECM fan is automatically speed-controlled by the makeup air system controller.

FAST CLAMP

Lined with neoprene to give a vibration-absorbing, tight fit.

FILTER CASSETTE

MERV 8 filter for removing dust and pollen before air is delivered to the home.



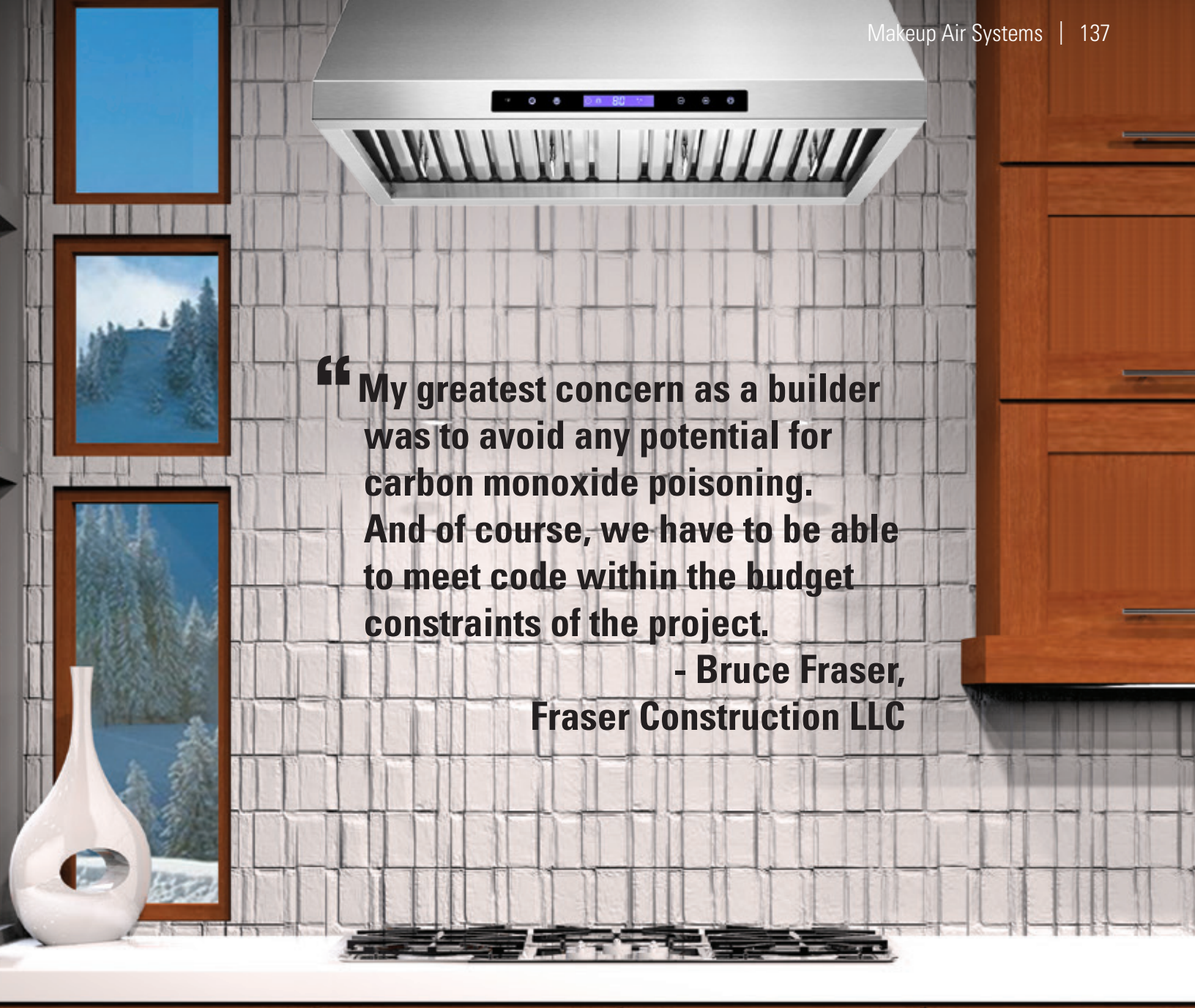
SHUT-OFF DAMPER

Normally closed, motorized damper is open only when makeup air system is operating.

WALL INTAKE HOOD

Air inlet to makeup air system; includes bug screen.

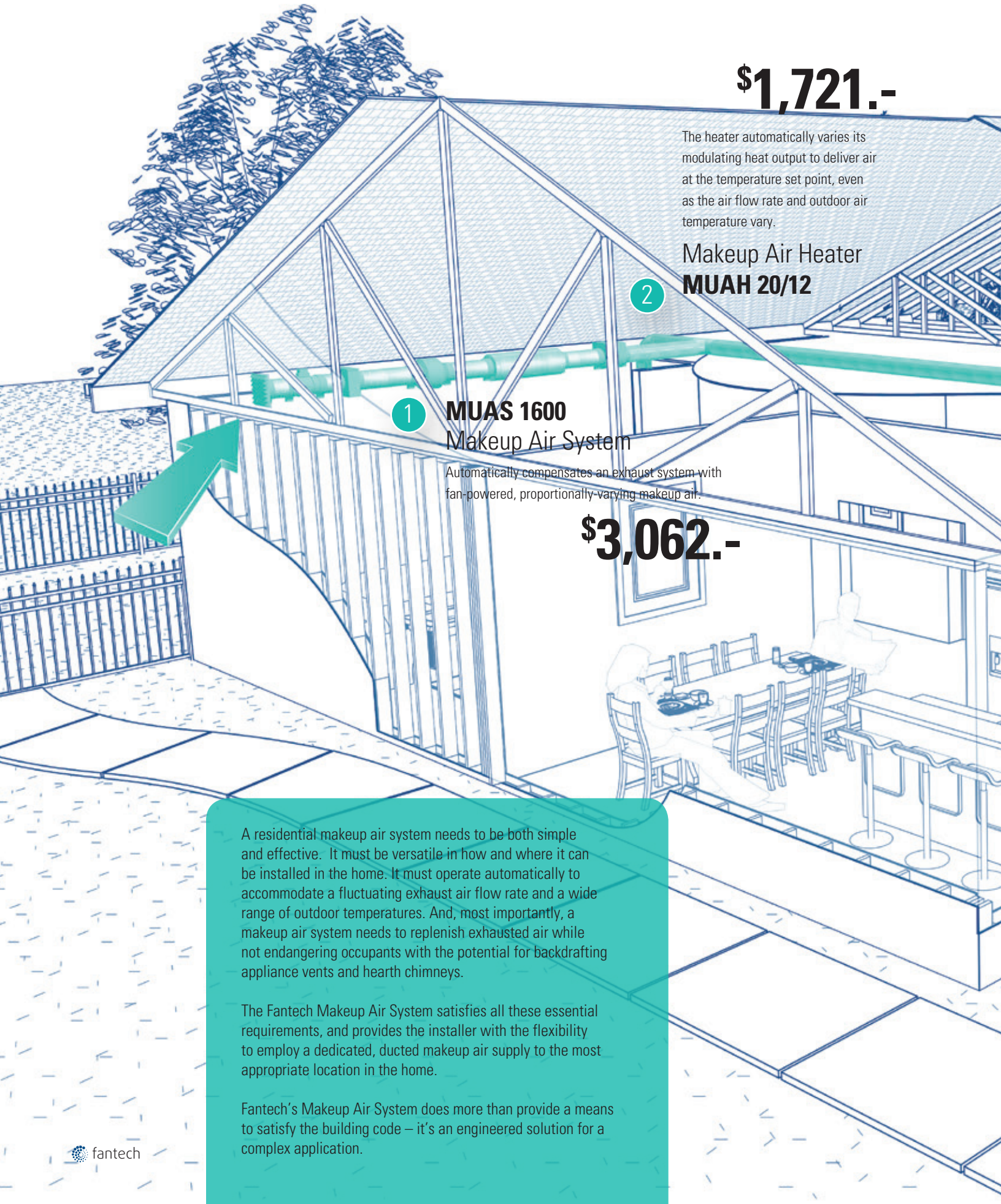
ANYTHING ELSE IS CHEATING THE CODE.



> **My greatest concern as a builder was to avoid any potential for carbon monoxide poisoning. And of course, we have to be able to meet code within the budget constraints of the project.**
>
> **- Bruce Fraser, Fraser Construction LLC**

Beginning in 2009 the International Residential Code® (IRC®) has included a kitchen makeup air requirement. A paragraph in chapter 15 of both the 2009 and the 2012 IRC® reads:

M1503.4 Makeup air required:
Exhaust hood systems capable of exhausting in excess of 400 cfm shall be provided with makeup air at a rate approximately equal to the exhaust air rate. Such makeup air systems shall be equipped with a means of closure and shall be automatically controlled to start and operate simultaneously with the exhaust system.



$1,721.-

The heater automatically varies its modulating heat output to deliver air at the temperature set point, even as the air flow rate and outdoor air temperature vary.

2 Makeup Air Heater
MUAH 20/12

1 **MUAS 1600**
Makeup Air System

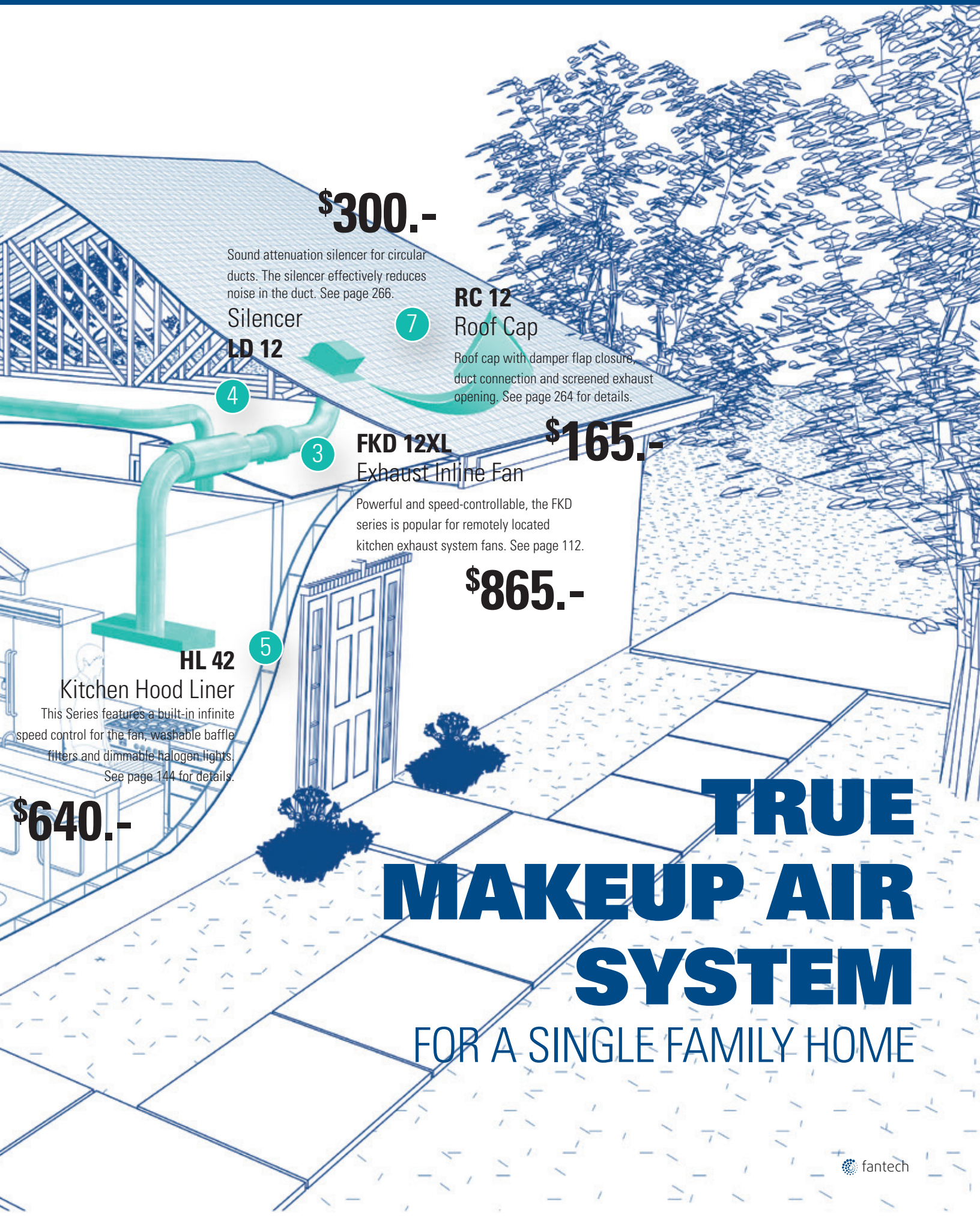
Automatically compensates an exhaust system with fan-powered, proportionally-varying makeup air.

$3,062.-

A residential makeup air system needs to be both simple and effective. It must be versatile in how and where it can be installed in the home. It must operate automatically to accommodate a fluctuating exhaust air flow rate and a wide range of outdoor temperatures. And, most importantly, a makeup air system needs to replenish exhausted air while not endangering occupants with the potential for backdrafting appliance vents and hearth chimneys.

The Fantech Makeup Air System satisfies all these essential requirements, and provides the installer with the flexibility to employ a dedicated, ducted makeup air supply to the most appropriate location in the home.

Fantech's Makeup Air System does more than provide a means to satisfy the building code – it's an engineered solution for a complex application.



$300.-

Sound attenuation silencer for circular ducts. The silencer effectively reduces noise in the duct. See page 266.

Silencer
LD 12

7

RC 12
Roof Cap

Roof cap with damper flap closure, duct connection and screened exhaust opening. See page 264 for details.

$165.-

4

3

FKD 12XL
Exhaust Inline Fan

Powerful and speed-controllable, the FKD series is popular for remotely located kitchen exhaust system fans. See page 112.

$865.-

5

HL 42
Kitchen Hood Liner

This Series features a built-in infinite speed control for the fan, washable baffle filters and dimmable halogen lights. See page 144 for details.

$640.-

TRUE MAKEUP AIR SYSTEM

FOR A SINGLE FAMILY HOME

fantech

All you need to choose a MUAS that fits your home

Step I - Size your system

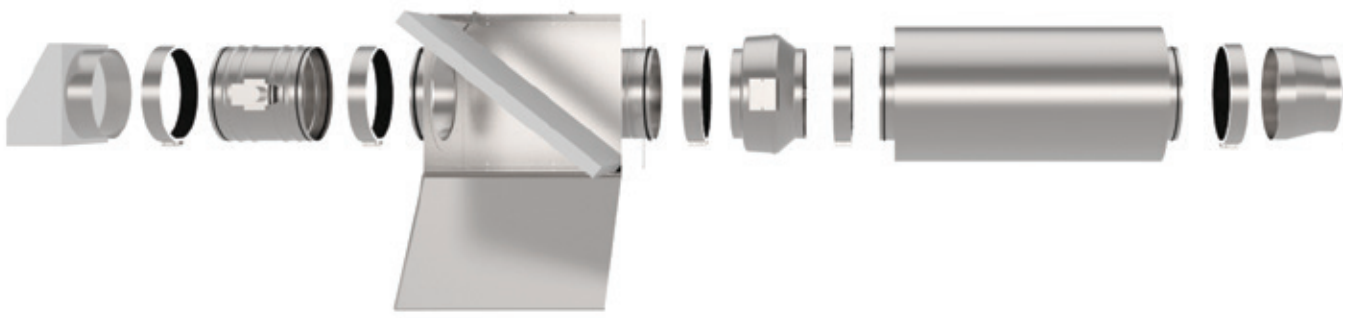
Select the Makeup Air System with capacity to compensate for the maximum air flow rate of the exhaust system being served. The MUAS includes all system component items except a heater (optional accessory), wiring, duct work, insulation and electrical disconnect. To choose a heater, follow Step II.

Specification data

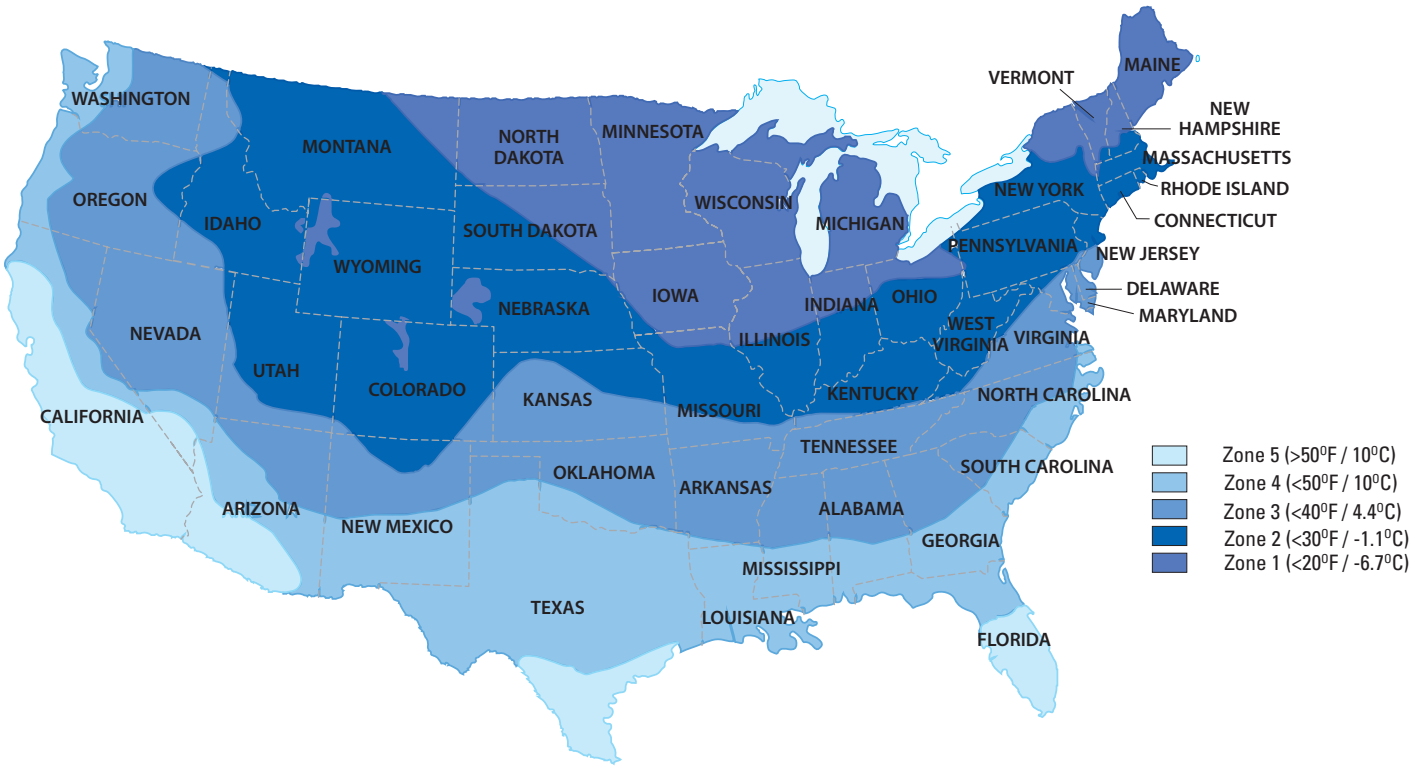
Model			MUAS 650	MUAS 1600	MUAS 2000
	Maximum Airflow Rate[1]	cfm	650	1,600	2,000
Included components	FMAC Makeup Air Control[2]		(1) FMAC	(1) FMAC	(1) FMAC
	Metal Wall Intake Hood		(1) FML 12	(1) FML 12	(1) FML 14
	Motorized Shut-off Damper		(1) ADC 12	(1) ADC 12	(1) ADC 14
	Filter Cabinet w/ Pleated Filter		(1) FGR 12HV	(1) FGR 12HV	(1) FGR 14HV
	Fan with EC-motor		(1) FG 12XL EC	(1) FKD 12XL EC	(1) FKD 14XL EC
	Duct Silencer		(1) LD 12	(1) LD 12	(1) LD 14
	Mounting Clamp Pairs		(2) FC 12	(2) FC 12	(3) FC 14
			(1) FC 12-315	(1) FC 12-315	
	Item #	lbs	K46000	K46001	K46002
	Shipping Weight / Shipping Class		151 / 3	179 / 3	202 / 3
	MSRP	USD	2,158.-	3,062.-	3,498.-

[1] Air flow rate for fan operating at full speed against 0.5" w.g. static pressure
[2] FMAC includes a current transducer, a control transformer, a system control board and an electrical enclosure

MUAS 650



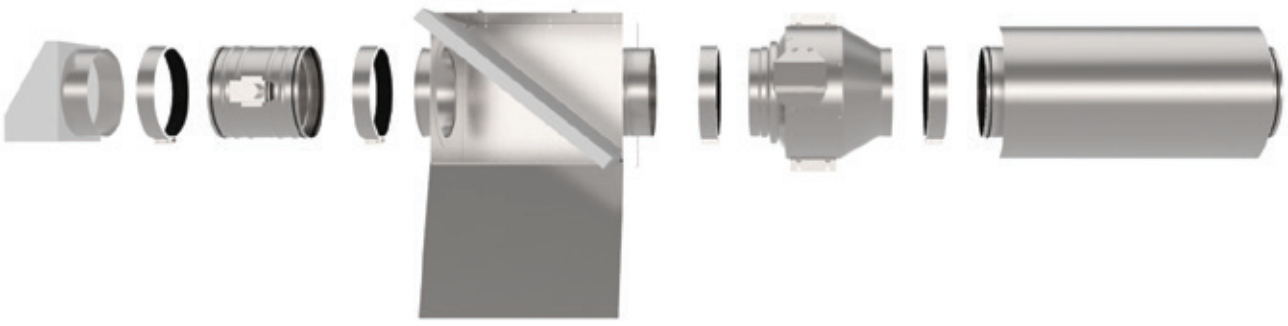
Outside average air temperature by zone* (January)



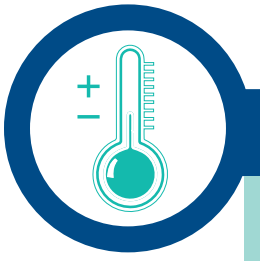
*** NOTE:**

Some areas, particularly those at high elevation, might experience colder average temperatures than the map suggests.

MUAS 1600 and MUAS 2000



All you need to choose a MUAS that fits your home



Step II - Choose your heat

Select the appropriate Makeup Air Heater (if any). Select heat capacity as desired or as suggested by map zone. Each Makeup Air Heater includes an electric heater, mounting clamps and duct reducers (for MUAH 10/10 only).

Specification data

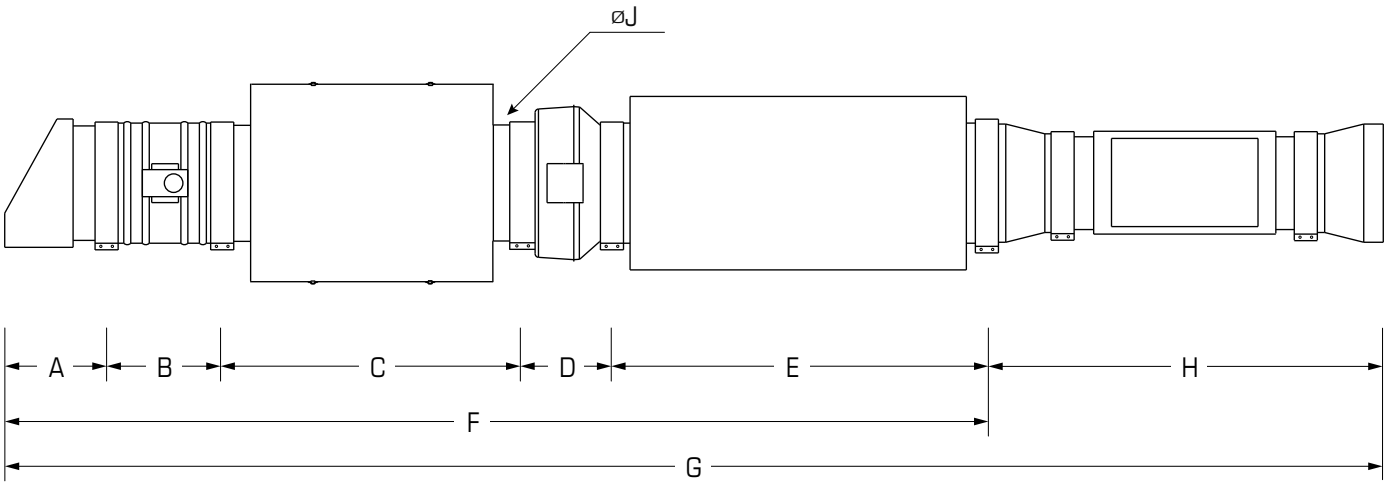
Model			MUAH 10 / 10		MUAH 20 / 12		MUAH 20 / 14	
	Maximum Allowable Airflow Rate	cfm	1,100		1,600		2,000	
	May be used with MUAS model		MUAS 650 or MUAS 1600		MUAS 650 or MUAS 1600		MUAS 2000	
	Maximum Heat Output	kW / BTUh	10 / 34,140		20 / 68,280		20 / 68,280	
	Heater Duct Connection Diameter	inch	10		12		14	

Electric Heater Application Table			Zone	Temp Rise (°F)	Zone	Temp Rise (°F)	Zone	Temp Rise (°F)
Suggested Heater Selection for Map Zones[3,4]	400	cfm	1,2,3,4	79	n/a		n/a	
	500	cfm	1,2,3,4	63				
	600	cfm	2,3,4	53	1	105		
	700	cfm	3,4	45	1,2	90		
	800	cfm	4	40	1,2,3	79		
	900	cfm	4	35	1,2,3	70		
	1,000	cfm	4	32	1,2,3	63		
	1,100	cfm	4	29	1,2,3	57		
	1,200	cfm	n/a		1,2,3,4	53		
	1,300	cfm			1,2,3,4	49		
	1,400	cfm			1,2,3,4	45		
	1,500	cfm			1,2,3,4	42		
	1,600	cfm			1,2,3,4	40		
	1,700	cfm					1,2,3,4	37
	1,800	cfm					1,2,3,4	35
	1,900	cfm					1,2,3,4	33
	2,000	cfm					1,2,3,4	32

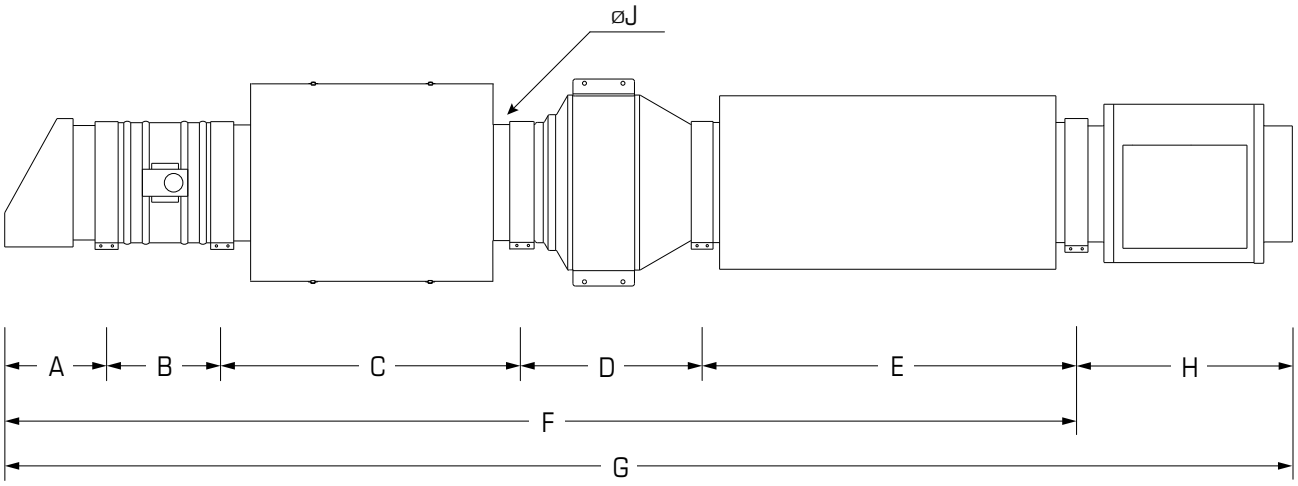
Included components	Electric Heater		(1) EM-WX 10	(1) EM-WX-12	(1) EM-WX-14
	Mounting Clamp (in pairs)		(1) FC 10 (1) FC 12	(1) FC 12	(1) FC 14
	Duct Reducer (10" x 12" transition)		(2) CKR 10-12	n/a	n/a
	Item # / Shipping Weight / Shipping Class	lbs	K46003 / 89 / 1	K46004 / 94 / 1	K46005 / 94 / 1
	MSRP	USD	1,068.-	1,721.-	1,751.-

[3] Map zone 5 has a climate that does not necessarily require a heater for makeup air. Heat may be included, if desired.
[4] MUAH models can only provide the temperature rise as indicated. During very cold conditions heaters might not deliver air at the temperature set point.

Dimensions



Model	A	B	C	D	E	F	H (optional)	G	J
MUAS 650	10 1/2	11 7/8	30 1/2	9 5/32	38 1/2	100 1/2	40 21/32	141 5/32	12



Model	A	B	C	D	E	F	H (optional)	G	J
MUAS 1600	10 1/2	11 7/8	30 1/2	18 7/8	38 1/2	110 1/5	21	131 1/5	12
MUAS 2000	10 3/4	13 7/8	30 1/2	20 3/8	38 1/2	114	21	135	14

HL Series
Kitchen Hood Liners

NEW!

- Residential kitchen hood liners for use with remote-located exhaust fans
- Sturdy, galvanized steel structure with elegant stainless steel fascia
- Stainless steel baffle filters can be easily removed for cleaning

Application

The HL Series kitchen hood liners provide the style and performance demanded by today's residential kitchen exhaust requirements. Whether the hood is wooden, metal or masonry, the HL Series hood liners are compatible with most hood designs. Kitchen designers appreciate the freedom of selecting or designing a hood that complements the kitchen's decor. Homeowners appreciate the surprisingly quiet, yet powerful performance provided by an exhaust system with a remote-located fan. Whether simple or elaborate, the most effective kitchen exhaust hood systems begin with HL Series hood liners.

Design

HL Series hood liners feature an attractive stainless steel fascia supported by a sturdy, galvanized steel housing. Once surrounded by a hood, only the stainless steel fascia and baffle filters are visible. The stainless steel baffle filters are easily removed for cleaning. Metal knobs on the baffle filters match the fan and light control knobs. The dimmable halogen lights illuminate the cooking area with a spectrum of light that meets the expectations of the most discriminating chefs. The HL Series hood liners are paired with remotely located fans, resulting in the quietest and most powerful residential kitchen exhaust systems available today.

Compatible exhaust fan models

A large range of remotely-located exhaust fans (sold separately) allows for selection of the right combination of hood liner and exhaust fan to meet the needs of most any cooking setup. Find a table of compatible fan models on the right.

HL 48
Features a fan switch with infinite speed control from low to high

Specification data

Model	Outlet Duct Dia.	Typical Air Flow Rate*	Light type			Speed control	Shipping weight	Shipping class	Item #	MSRP
	inch	cfm	W	Bulb Type	Quantity		lbs			USD
HL 30	8	Refer to page 145	50	MR16 Halogen, GU10 Base	2 pcs	Infinite	36	1	56048	512.-
HL 36	8	Refer to page 145	50	MR16 Halogen, GU10 Base	2 pcs	Infinite	42	1	56047	579.-
HL 42	10	Refer to page 145	50	MR16 Halogen, GU10 Base	2 pcs	Infinite	55	1	56046	640.-
HL 48	10	Refer to page 145	50	MR16 Halogen, GU10 Base	3 pcs	Infinite	66	1	56045	719.-

* Installer should employ an exhaust air flow rate appropriate for the dimensions and heating capacity of the cooking equipment served by the exhaust hood system and as required by the local building code. Larger air flow rates can result in greater noise as air enters the baffle filters.

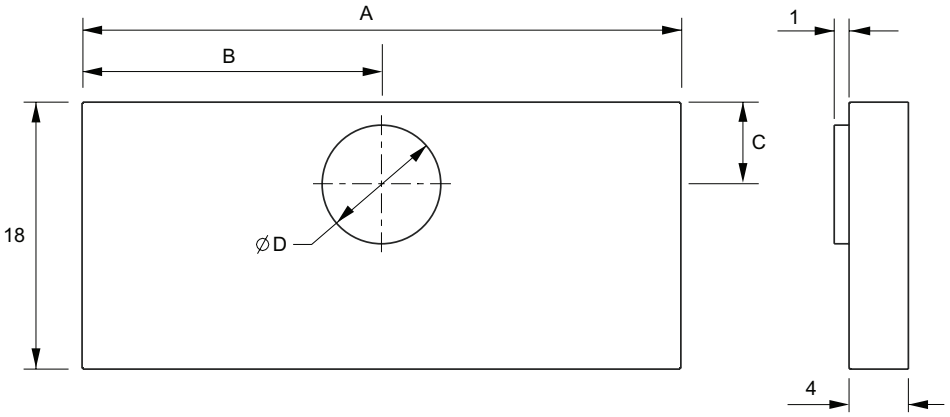
Compatible exhaust fan models

Fan location	Compatible Fan model	Air Flow Rate (cfm) at 0.0" Ps	Hood Liner Model Application Air Flow Rate* (cfm)				
			Duct Size** (in)	HL 30	HL 36	HL 42	HL 48
Remote Interior	FG 6	303	8	275	275	-	-
	FG 6XL	483	8	381	381	381	-
	FG 8	461	8	359	359	359	-
	FG 8XL	502	8	427	427	427	427
	FG 10	513	10	-	494	494	494
	FG 10XL	589	10	-	570	570	570
	FG 12XL	940	12	-	-	-	806
Remote Interior	FKD 8XL	836	8	-	440	440	440
	FKD 10	910	10	-	-	772	772
	FKD 10XL	1266	10	-	-	973	973
	FKD 12XL	2016	12	-	-	-	1384
Remote Exterior Roof or Wall	RE/REC 6	227	6	180	-	-	-
	RE/REC 8XL	409	8	355	355	355	
	RE/REC 10XL	753	10	-	-	715	715
	RE/REC 10XLT	1008	10	-	-	-	883
Remote Exterior Wall	RVF 6	242	6	172	172	-	-
	RVF 6XL	381	8	338	338	338	-
	RVF 8XL	435	8	321	321	321	321
	RVF 10	790	10	-	-	646	646
	RVF 10L	1060	10	-	-	-	842
	RVF 10XL	1245	10	-	-	-	880

* Hood liner model application air flow rates estimated for system with 20 feet of duct, two 90 deg. elbows, a backdraft damper, roof cap and hood filters.

** Duct size is recommended for the fan's air flow rate. Size transitions may be necessary for duct connection to hood liner and fan. Other duct-mounted accessories, such as backdraft dampers, silencers, and roof caps, are recommended to be same size as duct diameter..

Dimensions



Model	A	B	C
HL 30	28 3/8	14 3/16	5 1/2
HL 36	34 3/8	17 3/16	5 1/2
HL 42	40 3/8	20 3/16	6 1/2
HL 48	46 3/8	23 3/16	6 1/2

Dimensional information is in inches.

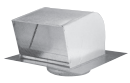
Accessories

HL Baffle
Replacement filter
page 268

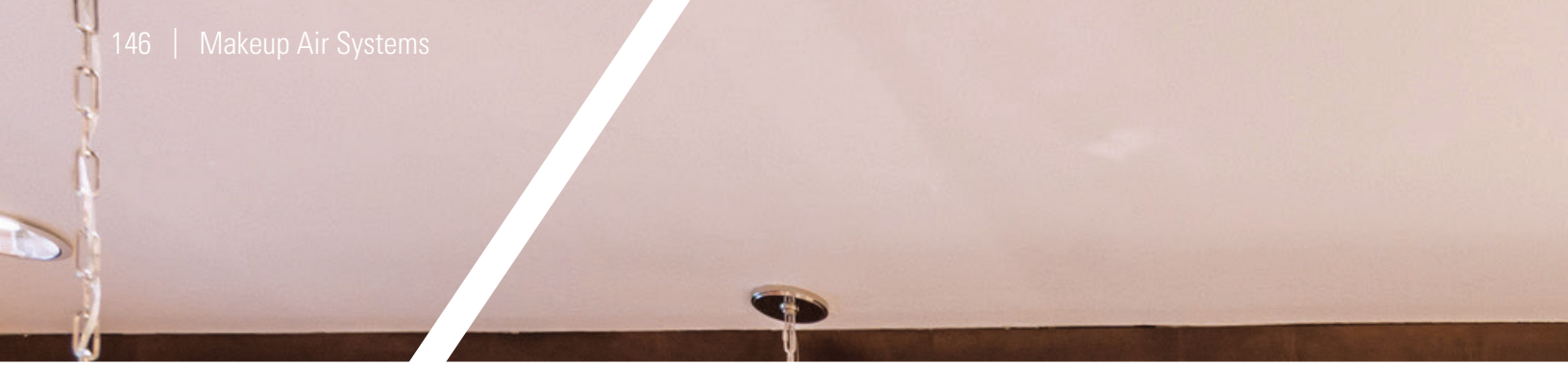
HL Knobs
Knobs
page 268

RSK
Backdraft Damper
page 266

LD
Silencer
page 266



RC
Roof Cap
page 264



Abiding by Code in the Pacific Northwest with Fantech's M

Some mechanical contractors are willing to sidestep a few building codes in order to keep a b
Bob's Heating and Air Conditioning is not one of them, especially when the code impacts home
Washington state contractor has made meeting the newly adopted IRC M1503.4 a priority, even t

Location: Mercer Island, Washington
Contractor: Bob's Heating and Air Conditioning Inc.
Installed products: MUAS 650

lakeup Air System

uilder happy and on budget.
owner safety. That's why the
though it hasn't always been easy.

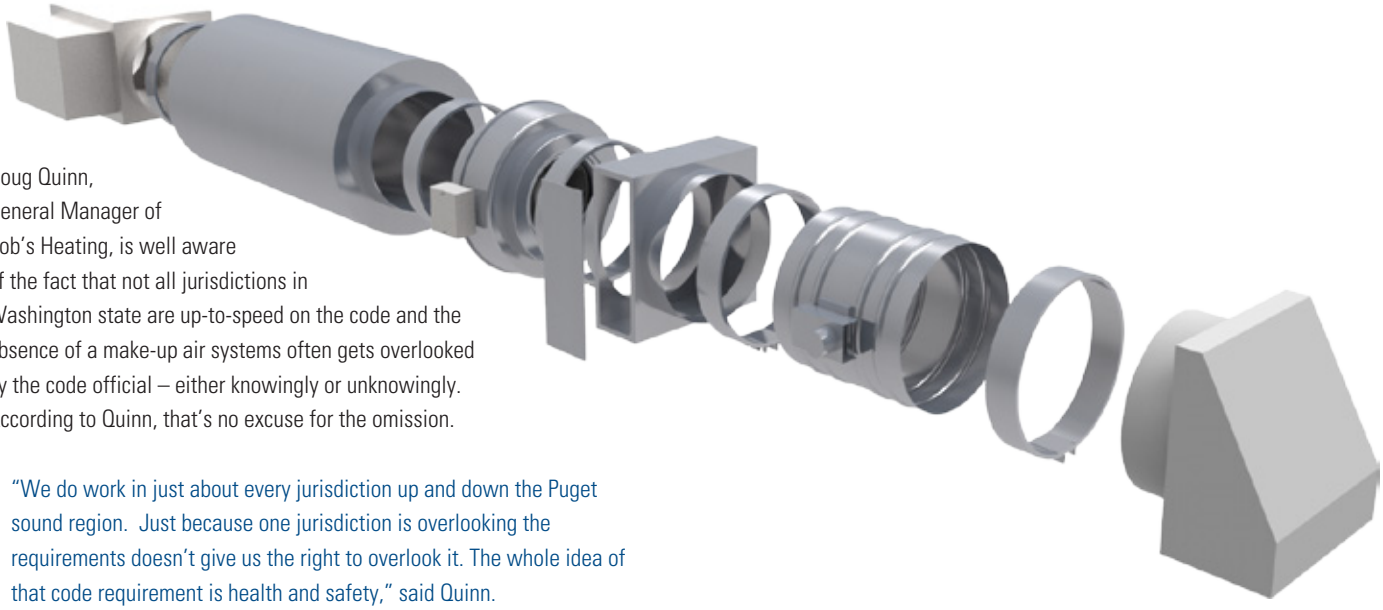
Fantech Solution for Meeting IRC M1503.4

Earns Favor in Pacific Northwest

IRC M1503.4 makes it imperative that homes with kitchen exhaust fans capable of exhausting 400 CFM or more be equipped with make-up air systems that replace the exhausted air. Specifically the Code states:

> Exhaust hood systems capable of exhausting in excess of 400 cfm shall be provided with makeup air at a rate approximately equal to the exhaust air rate. Such makeup air systems shall be equipped with a means of closure and shall be automatically controlled to start and operate simultaneously with the exhaust system.

It's an extra expense, which homebuilders regretfully have to pass onto homeowners, but it's one that could also save lives. Without a make-up air system, operation of high volume kitchen fans (common in homes today) can create a negative pressure and cause "back-drafting" of hazardous combustion products from vent/chimney systems, including carbon monoxide into the living spaces.



Doug Quinn, General Manager of Bob's Heating, is well aware of the fact that not all jurisdictions in Washington state are up-to-speed on the code and the absence of a make-up air systems often gets overlooked by the code official – either knowingly or unknowingly. According to Quinn, that's no excuse for the omission.

> "We do work in just about every jurisdiction up and down the Puget sound region. Just because one jurisdiction is overlooking the requirements doesn't give us the right to overlook it. The whole idea of that code requirement is health and safety," said Quinn.

It's a point that that Bob's Heating and JayMarc Homes, a builder of fine homes in the greater Seattle area agree on.

> "Not many homeowners understand what [the Code] is for, but as the builder we understand and we try to explain the purpose and the benefits to the homeowners," said Jeremy DeBoer, site supervisor for JayMarc Homes.

DeBoer worked with Bob's Heating on the mechanical HVAC installation at a new spec home on 90th Ave in Mercer Island. Like many homes on the island, the home had a commercial-sized range and exhaust fan. In the past, Bob's Heating had always designed and built the make-up air system from individual sourced components. It was tedious and time consuming. But the contractor and the builder decided to try something new on this Mercer Island home: A fully packaged exhaust makeup air system by Fantech.

A Truly Balanced Make-up Air Solution

Bob's Heating had been searching for an alternative solution for meeting IRC M1503.4. Sourcing the components (fan, heating coil, controls, sensors, etc.) needed to build a makeup air system was tiresome. Both the contractor and the builder were ready to give Fantech's solution a try by installing it at the Mercer Island home.

> We do work in just about every jurisdiction up and down the Puget sound region. Just because one jurisdiction is overlooking the requirements doesn't give us the right to overlook it. The whole idea of that code requirement is health and safety.
>
> **Doug Quinn, Bob's Heating and Air Conditioning**

How the Fantech Makeup Air System works

Fantech's makeup air system goes into action as soon as the kitchen exhaust fan is activated and is only energized during fan operation. The control package includes a transducer that measures the current that the exhaust fan is drawing and uses that information to regulate the volume of make-up air. So no matter how much air the kitchen hood is exhausting, the makeup air system is bringing in the exact same amount of fresh air.

This air can be delivered into the kitchen near the exhaust appliance or it can be ducted into the return air duct of a forced air/ heating system located elsewhere in the home. The inline duct heater and shut-off damper are also controlled by the Fantech control. The heater tempers the make-up air as needed during the heating season.

During the set-up procedure, the installing contractor follows a few simple steps that "teach" the control system what current is associated with the minimum and maximum exhaust speed on the kitchen fan. Once the controller has this information, all future operation will be based on some percentage of that range, but always in exact concert with the exhaust fan itself.

This set-up provides for a completely balanced air pressure inside the home during operation of the exhaust fan. This is the recommended mode of operation. However, some builders may prefer a slightly positive or slightly negative pressure inside the home – sometimes as a means to minimize migration of moisture through the walls of a home. The Fantech make-up air solution can accommodate these operational preferences as well.

The Fantech system is modular, so it can easily be easily configured to fit the layout of any home. In the case of Mercer Island, the primary components (makeup air fan, duct silencer, inline duct heater, etc.) were located in the garage. The supply air duct was installed above the ceiling so that makeup air would be supplied into a large 3 story-foyer where the grill would be obscure. The system is quiet and it's automatic, operating only as needed whenever the variable speed kitchen fan is exhausting air.

Countrywide Game Changer for Meeting Code

HVAC contractors across the country have been on the lookout for a solution like the Fantech air system, according to Curt Kanemasu of Cascade Products, Inc., a HVAC/R manufacturers representative in Washington and several other northwestern states.

> "Contractors have been asking us for something that would help them meet the make-up air code ever since it started being enforced in the Seattle area," said Kanemasu, who helped coordinate the first applications of the Fantech system. "Now contractors all across the country are in the same position because the code is starting to take hold every where."

Doug Quinn, who would rather his firm spend its time installing equipment rather than sourcing components, was impressed with the product's overall capability and how easy it was to install at the Mercer Island home.

> "I'm not aware of any other exhaust make-up air solution that allows the flexibility to automatically adjust the makeup air CFM and preheat the incoming air. The installation went pretty darn well so we are encouraged."

DEDPV-705

Dryer Exhaust Duct Power Ventilator

- Powerful, efficient 150 CFM fan
- The only DEDPV in the market certified* to UL705
- Used with duct runs up to 130 ft in length
- Leak-free galvanized housing

Application

The Fantech dryer exhaust fans have been specially designed to solve the problems caused by long duct runs on clothes dryers. According to dryer manufacturers and some local building codes, exhaust fans should be added in the dryer duct run when the length of the duct exceeds 35 feet with no bends, 30 feet with one bend or 25 feet with two bends.

How it works

When the dryer is on, Fantech's patented pressure sensing switch automatically turns the exhaust fan on. The warm, moist air in the dryer duct is exhausted out of the building quickly. The dryer exhaust fan monitors the status of the dryer and will turn itself off when the dryer stops. A wall-mounted indicator panel with LED display lets homeowners know that the fan is fully operational.

Design

The DEDPV-705 models are certified to the DEDPV supplement to the UL705 standard. It features an airtight, galvanized steel housing, an upgraded pressure sensing circuit, LED indicator display panel, temperature limit switch, short duct junctions, and (4) 4" fast clamps for easy installation and maintenance. Accept no substitute if you want a power ventilator that is safety certified for dryer exhaust.

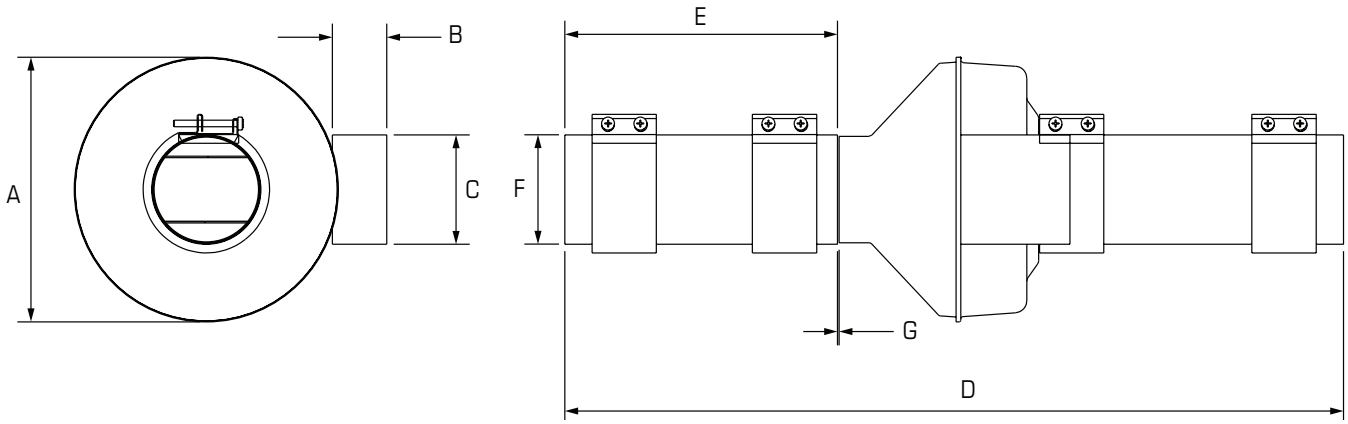
Certification

Specification data

Model	Duct size	Rated power	Voltage / phase	Max. amps	Max. temp.	0.0" P_s	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	A	°F	cfm						lbs			USD
DEDPV-705	4	72	120 / 1	0.75	167	170	150	134	119	103	86	10	1	46005	428.-

Per HVI`S Certified rating program, charted air flow performance has been derated by a factor based on actual test results at the certified rate at 0.2 inches WG.
* approved for use with Electric dryers only. UL exclusive as of the date of this printing.

Dimensions



	A	B	C	D	E	F	G
DEDPV-705	9 11/16	2	4	28 9/16	10	4	1/32

Dimensional information is in inches.

WHY IS DEDPV-705 DIFFERENTIATED FROM OTHER DRYER EXHAUST FANS IN THE MARKET?

- DEDPV-705 housing is metal, never plastic
- DEDPV-705 shuts down in the event of a dryer fire so as not to facilitate the spread of fire in the home
- DEDPV-705 energizes automatically when the dryer is operated
- DEDPV-705 includes a wall panel to indicate active fan operation and to display any fan problem to the dryer operator

Accessories

DBLT4W
Lint Trap
page 269

DBF Series
Dryer Exhaust Fans

- Powerful, efficient 150 CFM fan
- Leak-free galvanized housing
- Used with duct runs up to 108 ft (DBF 110) and 130 ft (DBF 4XLT and DBF 4XL) in length

Application

The Fantech dryer exhaust fans have been specially designed to solve the problems caused by long duct runs on clothes dryers. According to dryer manufacturers and some local building codes, exhaust fans should be added in the dryer duct run when the length of the duct exceeds 35 feet with no bends, 30 feet with one bend or 25 feet with two bends.

How it works

When the dryer is on, Fantech's patented pressure sensing switch automatically turns the exhaust fan on. The warm, moist air in the dryer duct is exhausted out of the building quickly. The dryer exhaust fan monitors the status of the dryer and will turn itself off when the dryer stops. A wall-mounted indicator panel (specific models) with LED display lets homeowners know that the fan is fully operational.

Cerification

DBF 4XLT
features an airtight, galvanized steel housing and an integrated pressure switch to activate the fan when the dryer is on, a quick connect/ disconnect fast clamp and a wall-mount indicator panel.

Note: When using model DBF4XLT for altitudes above 7,000 feet, the accessory High Alt Retrofit Switch, Hi-Alt RS (#413569) is recommended.

DBF 4XL
features an airtight, galvanized steel housing and an integrated pressure switch to to activate the fan when the dryer is on. Can be used to power vent dryer exhaust in duct runs up to 130 feet in length. Includes a mounting bracket and a 5 1/2-foot power cord.

DBF 110
features a fully sealed plastic housing that is joined via a vibration welding process. The fan is equipped with an integral, automatic pressure switch. It can be used on dryer duct runs up to 108 feet. The fan's backward inclined blades allow lint to pass through the fan. Can be mounted in any angle at any point along the duct work and straight-through air flow design allows easy installation.

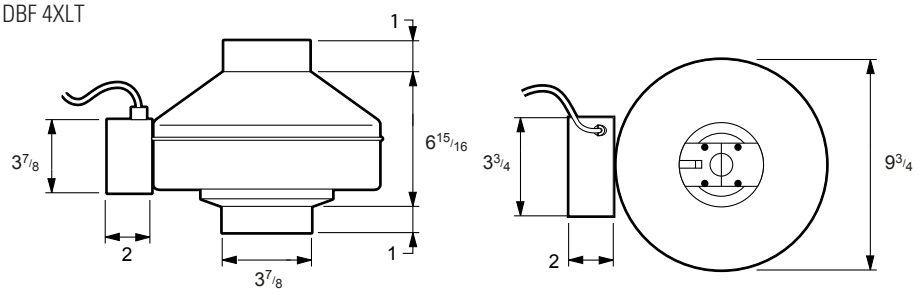
Specification data

Model	Duct size	Rated power	Voltage / phase	Max. amps	0.0" P_s	0.2" P_s	0.4" P_s	0.6" P_s	0.8" P_s	1.0" P_s	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	A	cfm						lbs			USD
DBF 110	4	65	120 / 1	0.54	188	150	133	113	88	63	9	1	411347	264.-
DBF 4XL	4	65	120 / 1	0.54	170	150	134	119	103	86	10	1	40095	264.-
DBF 4XLT	4	72	120 / 1	0.73	173	150	134	119	103	86	10	1	40275	336.-

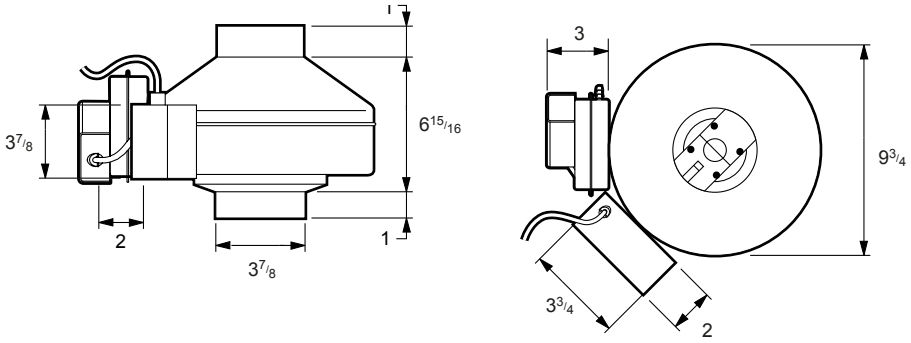
Per HVI`S Certified rating program, charted air flow performance has been derated by a factor based on actual test results and the certified rate at 0.2 inches WG.

Dimensions

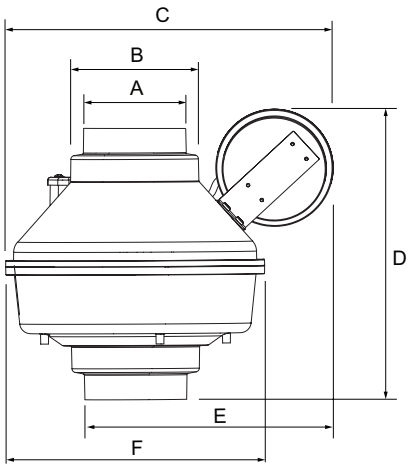
DBF 4XLT



DBF 4XL



DBF 110



	A	B	C	D	E	F
DBF 110	3 31/32	4 31/32	12 3/4	11 1/4	9 3/4	10

Dimensional information is in inches.

Accessories

FC
Mounting Clamps
page 265

DBLT4W
Lint Trap
page 269

Hi-Alt RS
Switch for DBF 4XLT
page 269

Brandon Svitak,
Development Engineer

"Fantech broke new ground when it developed the remote mount bath fan that keeps noise, steam and humidity away and our new, next-generation Serenity bath fan takes it a step further by automatically controlling the bathrooms' environment so you can simply relax."

INNOVATION KEEPS YOU AHEAD OF THE PACK

WHY PICK AND CHOOSE?

WITH SERENITY™ YOU CAN HAVE IT ALL

Serenity™

Autosensing Everything Bath Fan

NEW!

- Built-in control board with multiple sensors
- One or two bathrooms
- Includes all you need to install and commission
- Meets ASHRAE Standard 62.2.

DRIVEN BY EC TECHNOLOGY

Application

The Serenity™ bath fan is designed to automatically ventilate one (Solo) or two (Duet) bathroom location(s) matching your needs in creating a comfortable and accommodating environment. Exhaust grilles mount in the ceiling while the fan motor mounts in a remote location away from the living area. The result is a quiet yet powerful combination designed to help protect your home from the damaging effects of humidity. Serenity™ bath fans ar designed for intermittent or continuous operation to meet ASHRAE Standard 62.2.

What's in the box?

Serenity™ Solo and Serenity™ Duet come with all you need to install and commission the fan except ductwork and a light switch (purchased separately). Included wall control panels are equipped with RJ45 ports for quick and error free wiring. Color coded CAT5 cables and LED lights are included.

Controllability

A built-in control board with multiple sensors provides error-free commissioning and simple operation. All operating features and modes can be easily configured to be enabled or disabled as desired.

- Humidity tracking
  Humidity tracking is a demand feature that continuously monitors the %RH. Serenity™ differentiates itself from other bath fan systems by knowing what the "normal" %RH is at any given time and for any given space. Proper ventilation is then enabled when abnormal humidity conditions are detected. Most other systems have a set %RH that would enable ventilation and then run for a preset period of time. Because Serenity™ knows what normal humidity levels should be prior to detecting high humidity, ventilation will continue until humidity levels are back to within normal limits, protecting your property and ensuring comfort.
- Occupancy monitoring
  Presence detection is a demand feature included in the Serenity™ Series that monitors occupancy of the space. After detecting continuous motion for 1 minute, ventilation will automatically be enabled. Ventilation will remain enabled for the duration the room is occupied and then run for a period of time (adjustable) before turning off.
- Continuous ventilation
  Continuous ventilation is an operating mode that can also be enabled. Minimum airflow is 20 CFM for local ventilation but is field adjustable to satisfy ASHRAE standard 62.2 for Whole Building Ventilation.

Serenity Solo

ECM exhaust fan, one ceiling grille with a light and grille housing with a backdraft damper. One 10W dimmable LED bulb. Low voltage primary wall switch (Max, Auto, Off), CAT5E cables. Uses a 4" flexible duct.

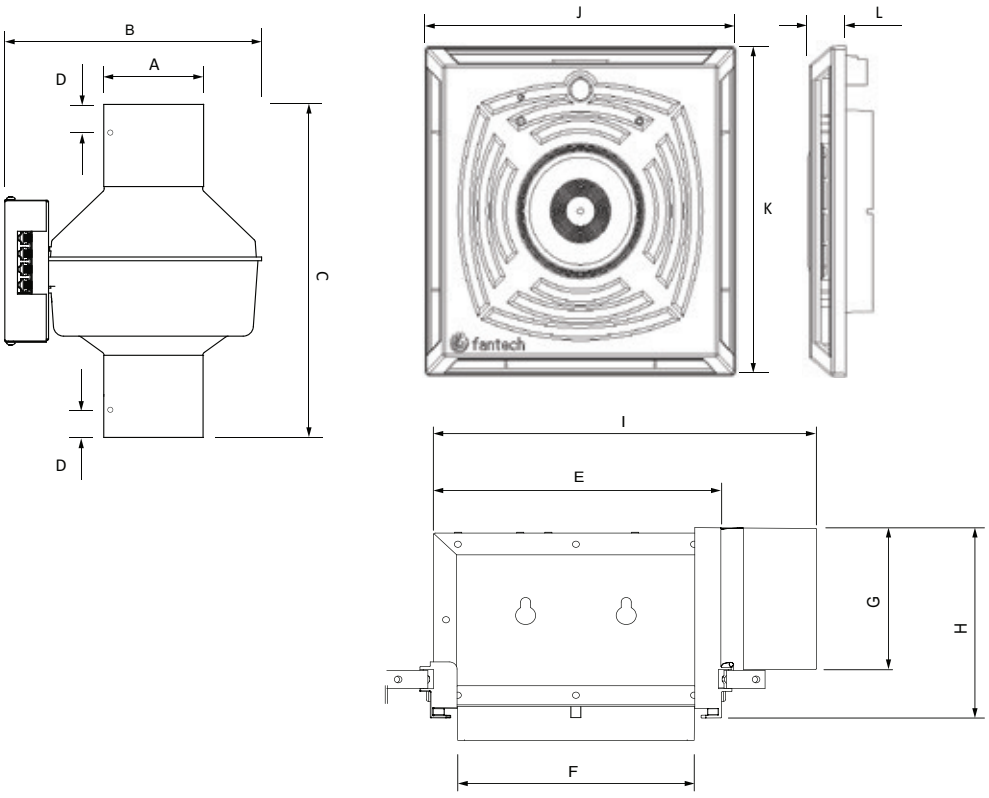
Serenity Duet

ECM exhaust fan, two ceiling grille with lights and grille housing with backdraft dampers. Two 10W dimmable LED bulbs. Low voltage primary wall switch (Max, Auto, Off), low voltage secondary wall switch (Max, Auto), CAT5E cables. Uses 4" & 6" flexible duct.

Specification data

Model	Rated power	Voltage / phase	Max. Amps	RPM	Maximum efficiency		Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	A	min^{-1}	cfm	in.wg	lbs			USD
Serenity Solo	33	120 / 1	0.48	4038	88	1.09	14	1	47832	680.-
Serenity Duet	74	120 / 1	1.00	2491	179	1.13	25	1	47834	1,195.-

Dimensions



Model	A	B	C	D	E	F	G	H	I	J	K	L
Serenity Solo	4	10 3/8	13 1/8	1 5/8	7 3/16	5 13/16	4	5 5/16	9 9/16	9 3/8	9 3/8	1
Serenity Duet	5 7/8	15	13 3/4	1 5/8	7 3/16	5 13/16	4	5 5/16	9 9/16	9 3/8	9 3/8	1

Dimensional information is in inches.

Certification

Accessories

HS
Louvered Shutter
page 264

FIDT
Insulated Flex Duct
page 265

RC
Roof Cap
page 264

PB Series

Premium Bath Fans • Single Grilles

- Powerful, efficient 110 CFM fan
- Remote mount fan ensures quiet operation
- Available with an LED or Halogen bulb
- Unobtrusive grille makes for better aesthetics

Application

A small-scale grille mounts in the ceiling while the fan motor mounts in a remote location away from the living area. The result is a quiet yet powerful combination designed to help protect your home from the damaging effects of humidity. PB fans are designed for intermittent or continuous operation to meet **ASHRAE Standard 62.2**.

Models

PB 110 / PB 190
Bath Fan with one Ceiling Grille

110 CFM (PB 110) or 190 CFM (PB 190) fan, one ceiling grille and grille housing with damper. Uses 4" (PB 110) or 6" (PB 190) duct. UL Listed for wet locations.

PB 110H
Bath Fan with Halogen Light

110 CFM fan, one ceiling grille with light, grille housing with damper and a 50W dimmable halogen bulb. Uses 4" duct. UL Listed for wet locations.

PB 110L7
Bath Fan with LED Light

110 CFM fan, one ceiling grille with light, grille housing with damper and a 7W dimmable LED bulb. Uses 4" duct. UL Listed for wet locations.

PB 110L10
Bath Fan with LED Light

110 CFM fan, one ceiling grille with light, grille housing with damper and a 10W dimmable LED bulb. Uses 4" duct. UL Listed for wet locations.

This symbol identifies the notable lack of audible fan noise compared to even the lowest Sone surface mount solutions on the market. We are proud to offer our customers a smarter, quieter way to ventilate one or multiple bathrooms.

Specification data

Model	Duct size	Rated power @ 0.2" P_s	Voltage / phase	0.2" P_s	0.4" P_s	CFM per Watt @ 0.2" P_s	ENERGY STAR® Qualified	Bulb	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	cfm*					lbs			USD
PB 110	4	21	120 / 1	110	83	5.3	Yes	-	9	1	40568	206.-
PB 110H	4	23	120 / 1	110	80	4.8	-	50W Halogen	10	1	40570	299.-
PB 110L7	4	23	120 / 1	110	80	4.8	Yes	7W Dimmable LED	10	1	44942	285.-
PB 110L10	4	23	120 / 1	110	80	4.8	Yes	10W Dimmable LED	10	1	44943	314.-
PB 190	6	69	120 / 1	200	152	2.9	-	-	14	1	40571	235.-

*Performance data reflects fan only

Accessories

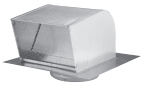
PBL / PBH / PBV
Expansion Grille
page 258

PBB
Replacement Bulbs
page 258

HS
Louvered Shutter
page 264

FIDT
Insulated Flex Duct
page 265

FY
Y-Connector
page 265



RC
Roof Cap
page 264

FLD 60
Light/Fan Switch
page 260

FD 60EM
Fan Timer
page 260

VT 20
Programmable Control
page 260

PB Series

Premium Bath Fans • Dual Grilles

- Powerful, efficient 270 CFM fan
- One fan, two grille locations
- Remote mount fan ensures quiet operation
- Available with an LED or Halogen bulb

Application

Dual grille Premium Bath fans can effectively ventilate two separate bathrooms. Small 7" ceiling grilles (with or without lights) can be easily positioned directly over showers, whirlpool tubs, steam showers, toilet or vanity. The fan motor is installed away from the living area for super quiet operation. PB fans are designed for intermittent or continuous operation to meet **ASHRAE Standard 62.2**.

Models

PB 270-2 / PB 370-2

Bath Fan with dual Ceiling Grilles

270 CFM (PB 270-2) or 370 CFM (PB 370-2) fan, two ceiling grilles, two grille housings with dampers and Y-adapter (4x4x6). Uses 4" and 6" duct. UL Listed for wet locations.

PB 270H-2

Bath Fan with Halogen Lights

270 CFM fan, two ceiling grilles with lights, two grille housings with dampers, two 50W halogen bulbs and Y-adapter (4x4x6). Uses 4" and 6" duct. UL Listed for wet locations.

PB 270L7-2

Bath Fan with LED Lights

270 CFM fan, two ceiling grilles with lights, two grille housings with dampers, two 7W dimmable LED bulbs and Y-adapter (4x4x6). Uses 4" and 6" duct. UL Listed for wet locations.

PB 270L10-2

Bath Fan with LED Lights

270 CFM fan, two ceiling grilles with lights, two grille housings with dampers, two 10W dimmable LED bulbs and Y-adapter (4x4x6). Uses 4" and 6" duct. UL Listed for wet locations.

This symbol identifies the notable lack of audible fan noise compared to even the lowest Sone surface mount solutions on the market. We are proud to offer our customers a smarter, quieter way to ventilate one or multiple bathrooms.

Specification data

Model	Duct size	Rated power @ 0.2" P_s	Voltage / phase	0.2" P_s	0.4" P_s	CFM per Watt @ 0.2" P_s	ENERGY STAR® Qualified	Bulb	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	cfm*					lbs			USD
PB 270-2	4/6	67	120 / 1	260	229	3.88	Yes	-	17	1	40572	295.-
PB 270H-2	4/6	67	120 / 1	260	229	3.88	-	50W Halogen	17	1	40574	439.-
PB 270L7-2	4/6	67	120 / 1	260	229	3.88	Yes	7W Dimmable LED	18	1	44944	446.-
PB 270L10-2	4/6	67	120 / 1	260	229	3.88	Yes	10W Dimmable LED	18	1	44945	505.-
PB 370-2	6	122	120 / 1	370	317	3	-	-	21	1	45433	362.-

*Performance data reflects fan only

PB 110L10 Premium Bath Fan
with a Dimmable 10W LED Light

It isn't just a bright idea.
It's a no-brainer!

If you haven't already made the switch to LEDs yet, here is the perfect opportunity. The industry's best bathroom ventilation fan now offers a dimmable LED light that delivers exceptionally long life and significant energy savings.

The LED bulb contains diffuser lenses and reflectors to disperse the light more like a halogen bulb, while maintaining greater light output. The LED light uses only 7W and lasts 8 times longer than a standard 50W halogen bulb.

PB Series

Combination Premium Bath Fans

- Powerful, efficient 270 CFM fan
- One fan, two grilles locations, many combinations
- Remote mount fan ensures quiet operation
- Available with a Halogen or an LED bulb

Application

Combo units include one exhaust fan with one lit and one unlit ceiling grille. A single model number provides the exact bath fan components needed for a dual location exhaust system. PB fans are designed for intermittent or continuous operation to meet **ASHRAE Standard 62.2**.

Models

PB 270HV-2

Bath Fan with one Ceiling Grille with a Dimmable Halogen Light and one Vent-Only Ceiling Grille

270 CFM fan, one ceiling grille with light, one vent-only ceiling grille, two grille housings with dampers, one 50W halogen bulb and Y-adapter (4x4x6). Uses 4" and 6" duct. UL Listed for wet locations.

PB 270L7V-2

Bath Fan with one Ceiling Grille with LED Light and one Vent-Only Ceiling Grille

270 CFM fan, one ceiling grille with light, one vent-only ceiling grille, two grille housings with dampers, one dimmable 7W LED bulb and Y-adapter (4x4x6). Uses 4" and 6" duct. UL Listed for wet locations.

PB 270L10V-2

Bath Fan with one Ceiling Grille with a Dimmable LED Light and one Vent-Only Ceiling Grille

270 CFM fan, one ceiling grille with light, one vent-only ceiling grille, two grille housings with dampers, one dimmable 10W LED bulb and Y-adapter (4x4x6). Uses 4" and 6" duct. UL Listed for wet locations.

PB 270L710-2

Bath Fan with two Ceiling Grilles with Dimmable LED Lights

270 CFM fan, two ceiling grilles with lights, two grille housings with dampers, two dimmable 7W and 10W LED bulbs and Y-adapter (4x4x6). Uses 4" and 6" duct. UL Listed for wet locations.

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ACCESSORIES FOR BATH FANS WITH DUAL GRILLES

To find appropriate accessories for the PB 270 Series, refer to the page 142.

Specification data

Model	Duct size	Rated power @ 0.2" P_s	Voltage / phase	0.2" P_s	0.4" P_s	CFM per Watt @ 0.2" P_s	ENERGY STAR® Qualified	Bulb	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	cfm*					lbs			USD
PB 270HV-2	4/6	67	120 / 1	260	229	3.88	-	50W Halogen	18	1	40576	369.-
PB 270L7V-2	4/6	67	120 / 1	260	229	3.88	Yes	7W Dimmable LED	18	1	44946	377.-
PB 270L10V-2	4/6	67	120 / 1	260	229	3.88	Yes	10W Dimmable LED	18	1	44947	406.-
PB 270L710-2	4/6	67	120 / 1	260	229	3.88	Yes	7W & 10W Dim. LED	18	1	44948	476.-

Need a replacement bulb? Learn more on page 234.
*Performance data reflects fan only

BFRK Series replaces an ineffective, noisy bathroom fan

At Fantech we believe that the noise of the fan should not make a statement in your bathroom. It should be unobtrusive, work quietly and efficiently.

Convert your existing noisy exhaust fan with our simple, easy to install, simple to maintain bathroom retrofit kit. Existing ceiling grille by others to remain.

That's simply better®.

Fantech`s retrofit kit includes everything you need:

- 110 cfm ENERGY STAR® rated inline fan with a mounting bracket
- VT 20M Main Control
- Insulated 4" flex duct
- Duct adapters 3" to 4"
- Roll of duct tape
- Electrical wire & wire connectors
- Cable restraints

Buy American Act Compliant

#412022, 10 lbs, Class 1, $232.-

PBW Series
Exterior Mount Bath Fans

- Powerful, efficient 110 CFM fan
- Exterior mount fan ensures quiet operation
- Unobtrusive grill makes for better aesthetics
- Available with a Halogen or an LED bulb

Application

We have expanded our Premium Bath Fan selection to include a quartet of models powered by exterior mounted wall fans. An excellent alternative when space is an issue or direct venting to the outside is required. Ideal for homes, condominiums and apartment complexes. Choose lit or unlit models. PB fans are designed for intermittent or continuous operation to meet **ASHRAE Standard 62.2**.

Models

PBW 110
Exterior Wall Mount Bath Fan
120 CFM fan, one ceiling grille and grille housing with damper. UL Listed for wet locations.

PBW 110L7
Exterior Wall Mount Bath Fan with one Ceiling Grille with LED Light
120 CFM fan, one Ceiling Grille with housing & damper and a dimmable 7W LED bulb. UL Listed for wet locations.

PBW 110H
Exterior Wall Mount Bath Fans with Dimmable Halogen Light
120 CFM fan, one Ceiling Grille with Light, grille housing with damper and a 50W dimmable halogen bulb. UL Listed for wet locations.

PBW 110L10
Premium Bath Fan with one Ceiling Grille with LED Light and one Vent-Only Ceiling Grille
120 CFM fan, one Ceiling Grille with housing & damper and a dimmable 10W LED bulb. UL Listed for wet locations.

This symbol identifies the notable lack of audible fan noise compared to even the lowest Sone surface mount solutions on the market. We are proud to offer our customers a smarter, quieter way to ventilate one or multiple bathrooms.

Specification data

Model	Duct size	Rated power @ 0.2" P_s	Voltage / phase	0.2" P_s	0.4" P_s	CFM per Watt @ 0.2" P_s	Bulb	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	cfm				lbs			USD
PBW 110	4	19	120 / 1	112	83	6.3	-	12	1	412256	246.-
PBW 110H	4	19	120 / 1	112	83	6.3	50W Halogen	12	1	412257	329.-
PBW 110L7	4	19	120 / 1	112	83	6.3	7W LED	12	1	44949	374.-
PBW 110L10	4	19	120 / 1	112	83	6.3	10W LED	12	1	44950	403.-

Need a replacement bulb? Learn more on page 234.

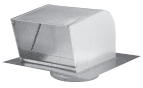
Accessories

PBL / PBH / PBV
Expansion Grille
page 258

PBB
Replacement Bulbs
page 258

FIDT
Insulated Flex Duct
page 265

FY
Y-Connector
page 265



RC
Roof Cap
page 264

FLD 60
Light/Fan Switch
page 260

FD 60EM
Fan Timer
page 260

VT 20
Programmable Control
page 260

FQ Series

Quiet Ventilating Fans

- Airflows of 80 and 110 cfm
- Low profile grille fastened with torsion springs
- Thermal overload protection
- Lit and unlit models with a backdraft damper

Application

The FQ Series exhaust fans with dampers and fan lights provide remarkably quiet, energy efficient ventilation for baths, powder rooms and other areas. Super quiet with as low as < 0.3 sones sound rating. Air performances of 80 to 110 CFM. Fans are designed for intermittent or continuous operation to meet **ASHRAE Standard 62.2**.

Certification

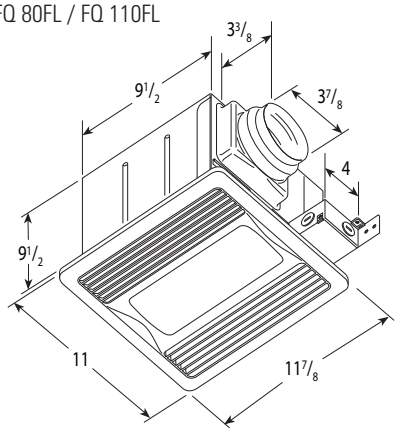
Unlit models are ENERGY STAR® qualified, Title 24 compliant and meet the Washington State Ventilation and Indoor Air Quality Codes.

FQ 80FL / FQ 110FL

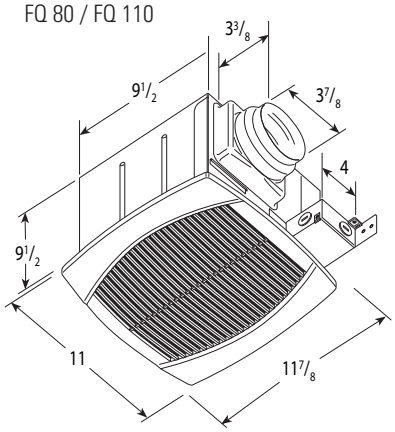
FQ 80 / FQ 110

Dimensions

FQ 80FL / FQ 110FL



FQ 80 / FQ 110



Dimensional information is in inches.

Accessories

FQ-FD
Radiation Damper
page 258

HS
Louvered Shutter
page 264

FD 60EM
Bathroom Timer
page 260

FLD 60
Bathroom Switch
page 260

Specification data

Model	Duct † size	Rated power	Voltage / phase	0.1" P_s	0.25" P_s	0.4" P_s	CFM per Watt @ 0.1" Ps	Lamp power (Main / Night)	Sones	Shipping weight	Shipping class	Item #	MSRP
	inch	W	V / ~	cfm				W CFL		lbs			USD
FQ 80	4	25	120 / 1	80	68	43	3.4	-	< 0.3	12	1	483737	139.-
FQ 80FL	4	25	120 / 1	80	60	47	3.4	26 / 4	0.4	14	1	483739	199.-
FQ 110	4	30	120 / 1	110	85	70	3.9	-	0.7	13	1	483738	150.-
FQ 110FL	4	30	120 / 1	110	85	70	3.7	26 / 4	1.3	14	1	483740	208.-

Performance ratings do not include the effects of appurtenances in the airstream. FQ 80 is not HVI listed.
† Duct connections are 1/8" smaller than duct size.

CEV Series
Ceiling Exhaust Fans

- Airflow up to 1,578 cfm
- Eight-way adjustable mounting bracket
- White plastic grille
- Integrated back draft damper

Application
Ceiling-mount exhaust fans often used for commercial bathroom and general room exhaust applications.

Design
Impact-resistant, centrifugal blower wheel ensures consistent performance.

Certification
All CEV models are certified to UL Standard 705.

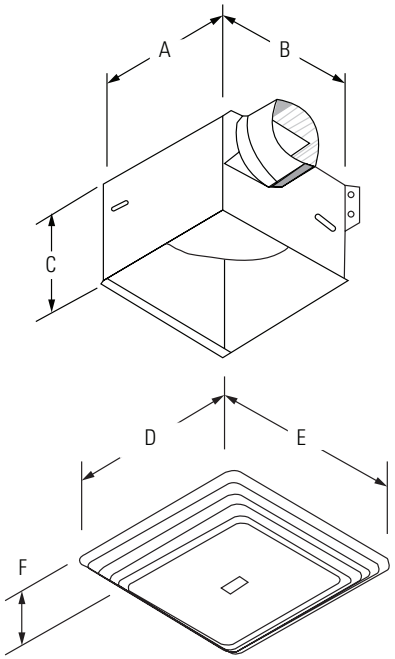
Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type B- Free inlet, Ducted outlet. Performance ratings include the effects of inlet grille and back draft damper in the airstream.

Specification data

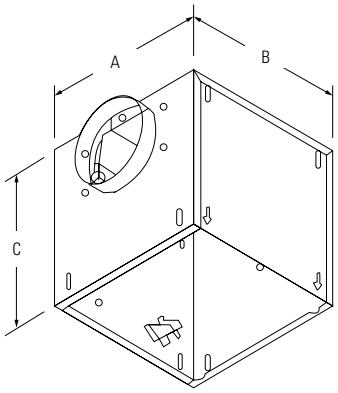
Model	Rated power	Voltage / phase	RPM @ 0.125"	Max amps	0.0" P_s	0.25" P_s	0.375" P_s	0.5" P_s	0.625" P_s	0.75" P_s	1.0" P_s	Shipping weight	Shipping class	Item #	List price
	W	V / ~	min^{-1}	A	cfm | Sones							lbs			USD
6CEV 008A	48	120 / 1	1550	-	89 | 3.9	68 | 3.8	36 | 3.9	-	-	-	-	7	1	47370	108.-
6CEV 010A	87	120 / 1	640	1.1	136 | 0.5	93 | 1.3	80 | 1.8	65 | 2.3	44 | 3.0	12 | 3.2	-	23	1	47371	197.-
6CEV 015A	100	120 / 1	710	1.3	181 | 1.3	141 | 2.2	132 | 2.6	124 | 3.1	114 | 3.6	94 | 4.1	-	23	1	47372	198.-
6CEV 020A	127	120 / 1	740	1.8	231 | 1.6	196 | 2.3	186 | 2.9	177 | 3.5	165 | 4.1	144 | 4.9	51 | 5.3	23	1	47373	252.-
6CEV 025A	166	120 / 1	830	2.2	272 | 2.1	250 | 2.9	242 | 3.3	233 | 3.9	218 | 4.4	201 | 4.8	99 | 5.8	24	1	47880	252.-
6CEV 030A	212	120 / 1	935	2.7	312 | 2.8	303 | 3.3	296 | 3.5	287 | 3.9	273 | 4.3	254 | 4.7	125 | 5.6	24	1	47374	270.-
6CEV 040A	146	120 / 1	755	1.4	467 | 2.3	378 | 3.0	335 | 3.5	291 | 4.0	237 | 5.1	170 | 5.5	8 | 5.9	34	1	47446	416.-
6CEV 050A	232	120 / 1	865	2.2	539 | 2.9	481 | 3.4	451 | 4.2	418 | 4.2	367 | 4.8	319 | 5.9	137 | 6.4	34	1	47545	432.-
6CEV 070A	313	120 / 1	985	2.9	708 | 5.2	658 | 5.7	628 | 5.8	597 | 6.1	560 | 6.4	515 | 7.4	312 | 7.6	34	1	47407	499.-
6CEV 150A	468	120 / 1	955	5.0	1578 | 8.6	1438 | 8.1	1371 | 7.5	1285 | 7.0	1198 | 6.7	1103 | 6.2	816 | 5.8	65	1	47975	754.-

Performance certified is for installation type B- Free inlet, Ducted outlet. Performance is based on actual speed of test. Performance ratings include the effects of inlet grill and backdraft damper in the airstream. The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: Free inlet, Ducted outlet sone levels.

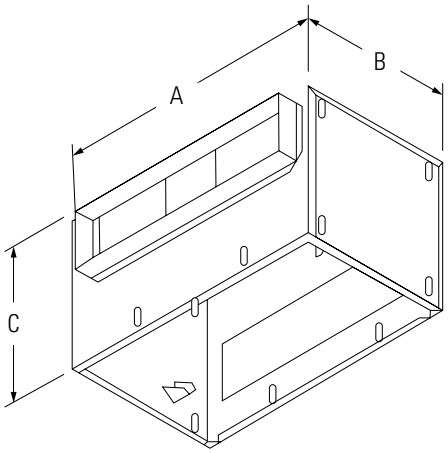
Dimensions



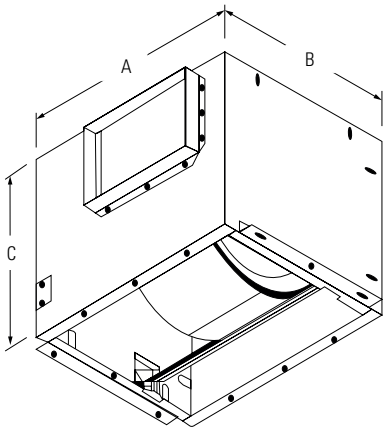
Model	A	B	C	D	E	F	Duct
6CEV 008A	8	8 1/4	5 3/4	10 5/8	11 1/8	1 1/2	4



Model	A	B	C	Duct
6CEV 010A - 030A	12 1/4	12 1/4	11 3/4	6



Model	A	B	C	Duct
6CEV 040A - 070A	21 1/2	12 1/4	11 3/4	4 1/2 x 18 1/2



Model	A	B	C	Duct
6CEV 150A	22	18	18	8 x 12

Dimensional information is in inches.


fante

THE NEXT STEP IN DUCT FAN EVOLUTION

Hamid Massali,
Engineering Manager

"We moved things around to optimize airflow, reduce noise and vibration, increase structural integrity of our plastic housing duct fans. The FR and HP Series are the only duct fans in the market that use a vibration weld to permanently join the housing into a single piece. No caulk or sealant means no leaks."

HP Series
Inline Radon Fans

- UV resistant, UL Listed durable plastic
- UL Listed for outdoor use
- Automatic reset thermal overload protection
- Vibration welded seam ensures leak proof housing

Application
HP & FR Series fans are specially designed with higher pressure capabilities for radon mitigation applications.

How it works
Active radon mitigation systems employ specialized fans to exhaust radon gas from underneath building structures via a sealed pipe system. Such systems are designed to remove radon gas before it migrates to a building's interior.

Design
The fans feature a fully sealed plastic housing. The housing is joined via a vibration welding process. The process uses transverse, reciprocating motion under pressure at the point of contact between the housing's inlet and outlet pieces. The friction produces heat that melts the thermoplastic material at the interface. The melted material quickly re-solidifies, resulting in a fused, single-piece housing. The fused seam is inherently air tight, very strong and permanent. No screws or adhesive is used to join the housing pieces. An air-tight fan ensures that efficiency is not lost and contaminants are not spilled due to leakage.

The fan can be mounted both indoor, outdoor and in wet locations. These fans feature external rotor motors that have proven dependable year after year.

A large electrical wiring enclosure is designed into the fan housing, making electrical installation easier. Thermal overload protected with automatic reset.

Certification

HP 2133
For applications where lower pressure and flow are needed. Low power consumption.

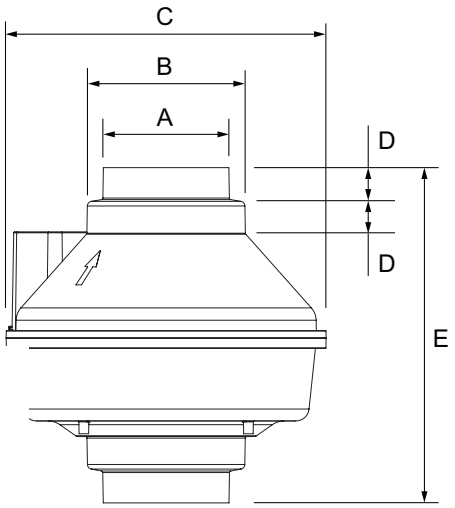
Specification data

Model	Duct size	Rated power	Voltage / phase	Max. amps	0.5" P_s	1.0" P_s	1.25" P_s	1.5" P_s	1.75" P_s	2.0" P_s	Max P_s	Shipping weight	Item #	MSRP
	inch	W	V / ~	A							in.wg	lbs		USD
HP 190	4 / 5	56	120 / 1	0.54	137	94	73	50	23	2	2.01	7	411297	189.-
FR 150 (Radon)	6	66	120 / 1	0.59	222	120	77	34	-	-	1.70	8	56014	209.-
HP 220	6	128	120 / 1	1.20	285	183	155	125	90	57	2.34	8	411349	265.-
HP 2133	4 1/2	20	120 / 1	0.17	86	-	-	-	-	-	0.88	4	45044	174.-
HP 2190	4 1/2	58	120 / 1	0.58	216	102	79	51	26	-	1.98	7	45048	189.-

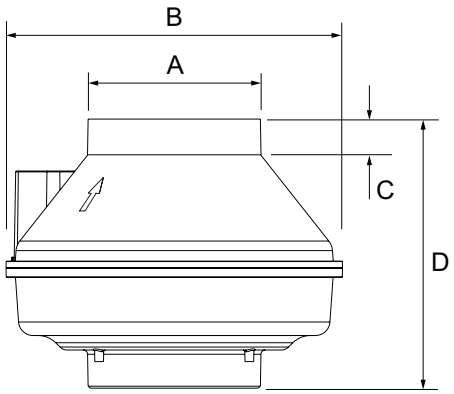
The performance shown in this brochure is representative of the actual test results recorded at Texas Engineering Experiment Station/Energy Systems Lab, a recognized testing authority for HVI. Testing was done in accordance with HVI 916 Test Procedures. Dimensions are shown in inches.

Dimensions

HP 190



HP 2133, HP 2190 & HP 220 and FR150 (Radon)



Model	A	B	C	D	E
HP 190	3 31/32	4 31/32	10	1	10 9/16
FR 150 (Radon)	5 7/8	11 1/2	1 1/4	9 1/4	-
HP 220	5 7/8	11 1/2	1 1/4	9 1/4	-
HP 2133	4 15/32	10	1 1/4	9 1/4	-
HP 2190	4 15/32	10	1 1/4	9 1/4	-

Dimensional information is in inches. Note: Flanges extend $^{7}/_{8}$ beyond the A dimension.

HP 190, HP 2190 & HP 220 and FR150 (Radon)

Excellent choice for systems with elevated radon levels, poor communication, multiple suction points and large subslab footprint.

Installation kits

Kits include a pair of flexible white couplings with stainless steel hose clamps, a U-tube manometer and radon system labels.

Model	Used with fan models	PVC pipe size	Item #	MSRP, USD
FRIK 190-3 / FRIK 190-4	HP 190	3"/ 4"	44960 / 44961	60.- / 60.-
FRIK 2190-3 / FRIK 2190-4	HP 2133 & 2190	3"/ 4"	44962 / 44963	60.- / 60.-
FRIK 220	FR 150 & HP 220	4"	44964	60.-

FLEXIBLE COUPLING AND INTEGRATED CONDENSATE BYPASS

Included coupling isolates vibration from the system pipe. Condensate bypasses the motor and drains out from the bottom of the housing.

NEW INSTALLATION METHOD

Model is now fully secured in place by its connections to the pipe. The flexible couplings isolate the fan's housing from the pipe, and there is no direct attachment of the fan to the building. This "floating" installation results in reduced transfer of vibration to building materials and a much quieter operation.

TERMINAL BLOCK

For easy wiring installation, the terminal block slides in (no screws). The rubber gasket around the terminal block compartment protects from moisture penetration.

CONDUIT CONNECTION

Side conduit connection for easy installation and allows for aesthetically pleasing placement.

SLEEK HOUSING

Manufactured from durable UV resistant polycarbonate - UL approved material for outdoor use. Factory sealed, no leak design. The unit's grey color closely matches the color of most utility and electrical boxes. Low profile design mounts close to the wall. Direct connection to the pipe in the wall reduces the amount of pipe fittings needed for installation.

EXTERNAL ROTOR-MOTOR

External rotor-motor with backward curved impeller is in airstream thus giving the fan best in class performance, reliability and longevity.

FLEXIBLE SLEEVE COUPLING

Included sleeve connects the fan to the pipe in the wall and isolates the fan's natural vibration from the pipe and building structure.

HP 190SLQ
Slimline Radon Fan

- Inconspicuous appearance
- Factory sealed, no leak design
- Integral condensate bypass
- Exterior-mount close to the wall

Application
A radon fan doesn't have to look industrial to be effective! Model HP 190SLQ is engineered specifically for the demands of radon mitigation applications with aesthetics in mind. This exterior-mounted fan features a sleek, neutral-colored housing that blends well with the appearance of many homes' exteriors.

How it works
Active radon mitigation systems employ specialized fans to exhaust radon gas from underneath building structures via a sealed pipe system. Such systems are designed to remove radon gas before it migrates to a building's interior.

Design
Model HP 190SLQ is designed to simplify the installer's work. The fan connects directly to the system pipe via included connectors. The fan's inlet connection is located on the back of the housing, so that it connects to the pipe where it comes through the wall. This eliminates the need for a pipe elbow, and conceals the wall penetration from view. The fan's discharge is located on top for connection directly to the vertical pipe riser.

New "floating" vibration-isolating installation
The flexible connectors serve to isolate the fan's natural vibration from the system pipe and the home's structure. The fan is supported by its connections to the system pipe and does not make direct contact with the home. The fan's natural vibration is isolated from the home, so that no structure-borne noise is induced.

What`s included with the fan?
- Slimline radon fan
- Flexible sleeve coupling and stainless steel hose clamp for fan inlet connection to 4" PVC pipe
- Flexible, gray coupling and (2) stainless steel hose clamps for fan discharge connection to 4" PVC pipe
- Wall bracket for support via hose clamp connection to vertical pipe riser

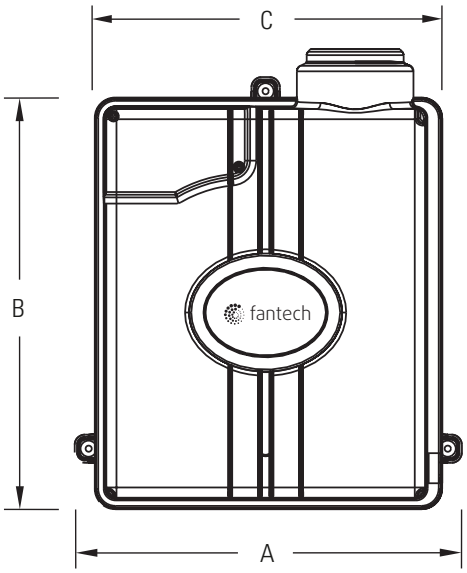
Certification
c UL us

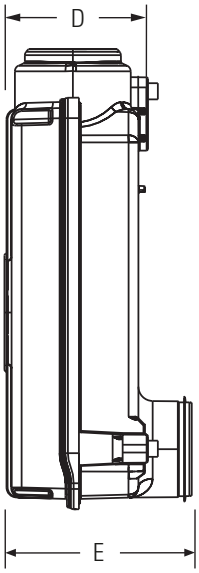
Specification data

Model	Rated power	Voltage / phase	Max. amps	0.5" P_s	0.75" P_s	1.0" P_s	1.25" P_s	1.5" P_s	1.75" P_s	2.0" P_s	Max P_s	Shipping weight	Item #	MSRP
	W	V / ~	A	cfm							in.wg	lbs		USD
HP 190SLQ	82	120 / 1	0.78	133	117	103	90	62	44	13	2.14	12	44664	312.-

The fan is attached to a PVC pipe using a flexible coupling.

Dimensions





Model	A	B	C	D	E
HP 190SLQ	14 15/16	15 7/8	13 7/8	5 1/2	6 1/8

Dimensional information is in inches.

"FLOATING" VIBRATION-ISOLATING INSTALLATION

The flexible connectors serve to isolate the fan's natural vibration from the system pipe and the home's structure. The fan is supported by its connections to the system pipe and does not make direct contact with the home. The fan's natural vibration is isolated from the home, so that no structure-borne noise is induced.

Installation kits

FRIK SLQ installation kit includes the U-tube manometer and radon system labels only.

Model	Shipping weight, lbs	Item #	MSRP, USD
FRIK SLQ	1	44965	20.-

RE(C) Series

Exterior Roof/Wall Centrifugal Fans

- Airflow up to 1,008 cfm
- Built-in thermal overload protection
- 100% speed controllable
- Air stream temperatures up to 140 °F

Application

The RE/REC Series of direct drive centrifugal fans provide an excellent solution for residential or commercial ventilation applications where the fan must be mounted on the exterior of the building. These multi-purpose fans can be used to move air from one or more venting points. Interior noise is not an issue because the fan motor is located outside the building envelope.

Design

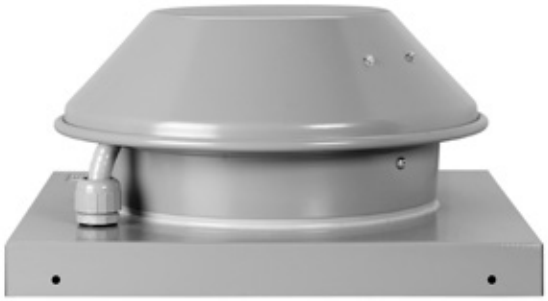
The motorized impeller is both statically and dynamically balanced as integral unit, for vibration free, quiet performance. Motor bearings are permanently sealed, self-lubricating ball type.

Motor protection

Built-in thermal overload protection with automatic reset.

Certification

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A-Free inlet, Free outlet.. Performance ratings do not include the effects of appurtenances (accessories).



REC

The REC models are equipped with a flanged base for curb mounting.

RE

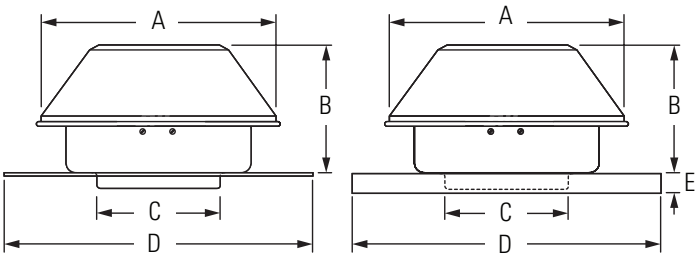
The RE models are equipped with a flat base for direct flashing to the roof. Can also be mounted on an exterior wall when roof access is not suitable.

Specification data

Model	Rated power	Voltage / phase	Max. amps	RPM	.0" P_s	.50" P_s	.75" P_s	1.0" P_s	1.5" P_s	Max P_s	Sones†	Shipping weight	Shipping class	Item #	MSRP
	W	V / ~	A	min^{-1}	cfm					in.wg		lbs			USD
RE 54 / REC 54	19	120 / 1	0.18	3040	116	65	36	-	-	-	3.5*	11	1	40228 / 40229	264.- / 268.-
RE 6 / REC 6	87	120 / 1	0.80	2700	227	169	134	106	52	1.84	7.5*	14	1	40045 / 40046	268.- / 273.-
RE 8XL / REC 8XL	153	120 / 1	1.40	2800	409	307	259	212	130	2.23	8.9*	19	1	40047 / 40098	368.- / 374.-
RE 10XL / REC 10XL	394	120 / 1	3.60	3250	753	690	656	622	548	4.03	16.4 ‡	31	1	40215 / 40099	605.- / 610.-
RE 10XLT / REC 10XLT	531	120 / 1	4.86	2950	1008	890	831	766	609	3.17	21.0 ‡	33	1	40230 / 40231	790.- / 804.-

Performance certified is for installation type A - Free inlet, Free outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).
† The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels.
* Sone value shown was calculated at 0.5" (static pressure in inches W.G.).
‡ Sone value shown was calculated at 0.75" (static pressure in inches W.G.).

Dimensions



Model	A	B	C	D	E [2]
RE 54 / REC 54 [1]	10 15/16	6	5	15 1/2	1 1/2
RE 6 / REC 6	13 15/16	6 1/4	6	15 1/2	1 1/2
RE 8XL / REC 8XL	16 9/16	5 15/16	8	20	1 1/2
RE 10XL / REC 10XL	20 13/16	11 1/2	10	20	1 1/2
RE 10XLT / REC 10XLT	20 13/16	12 11/16	10	20	1 1/2

Dimensional information is in inches. Male duct connector is 1/8" smaller than duct size.
[1] Supplied with 5" to 4" reducer
[2] For REC models only

Accessories

5ACC.. FS
Non-ventilated Curb
page 272

5ACC.. FT
Non-ventilated Curb
page 272

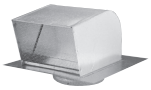
FC
Mounting Clamps
page 265

RSK
Backdraft Damper
page 266

LD
Silencer
page 266

HL
Hood Liners
page 144

FIDT
Insulated Flex Duct
page 265



RC
Roof Cap
page 264

FTD 7
7 Day Timer
page 260

FH 20
Dehumidistat
page 261

FAT 10
Thermostat
page 261

INDOOR AIR QUALITY THAT OUTPERFORMS EXPECTATIONS

- Stale air to outside
- Stale air from inside
- Fresh air from outside
- Fresh air to inside


Upblast Roof Ventilator
Details on page 190
Filtered Air Supply Ventilator
Details on page 182
Inline Duct Fan
Details on page 128
Energy Recovery Ventilator
Details on page 90
Air curtains
Details on page 216

5FSU Series
Filtered Supply Ventilator

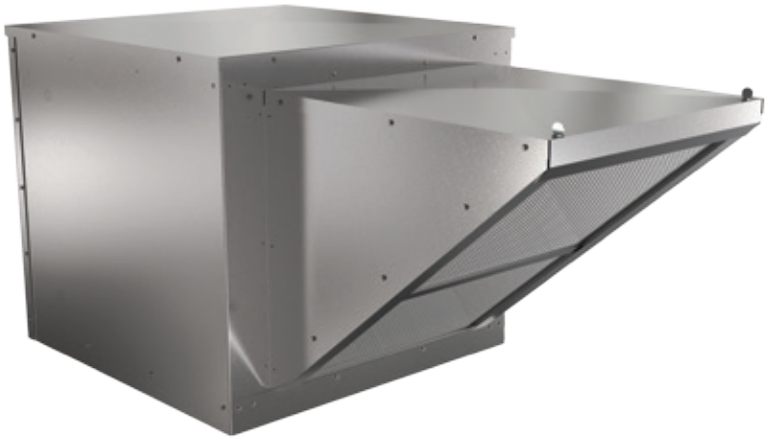
- Airflow up to 5,400 cfm
- Lifting lugs are standard on all sizes
- AMCA certified for sound and air
- Variable pitch sheaves to allow speed adjustments

Application
This single-sided ventilator provides filtered supply air to industrial and commercial kitchen applications.

Design
Belt-drive filtered supply ventilator is manufactured from a galvanized metal sheet. Designed to be installed on the roof or wall (15" and 18" units roof-mount only). Units include one set of 1" washable aluminum filters.

Certification
All ventilators are listed UL 705 for electrical.

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type B- Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

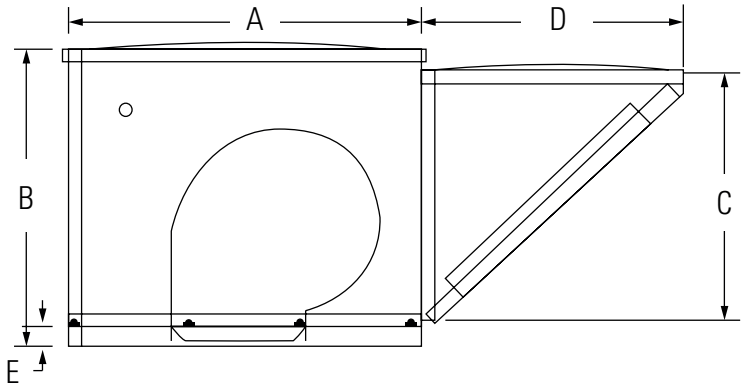


Specification data

Model	Rated power	Voltage / phase	RPM	0.125" P_s	0.25" P_s	0.375" P_s	0.50" P_s	0.75" P_s	1.00" P_s	1.25" P_s	Shipping weight	Shipping class	Item #	MSRP
	HP	V / ~	min^{-1}	cfm							lbs			USD
				Max BHP † | LWA #										
5FSU 10BB	1/4	120/230 / 1	689	1647	1387	1044	184	-	-	-	183	2	47640	1,090.-
				0.29 | -	0.29 | 81	0.29 | -	0.29 | -	-	-	-				
5FSU 10CB	1/3	120/230 / 1	760	1863	1637	1377	697	-	-	-	185	2	47508	1,168.-
				0.38 | -	0.38 | 82	0.38 | -	0.38 | -	-	-	-				
5FSU 10DB	1/2	120/230 / 1	870	2184	2000	1792	1557	334	-	-	198	2	47354	1,232.-
				0.58 | -	0.58 | 82	0.58 | -	0.58 | -	0.58 | -	-	-				
5FSU 10FB	1	120/230 / 1	1090	2811	2679	2527	2368	2011	1420	-	216	2	47355	1,273.-
				1.13 | -	1.13 | 84	1.13 | -	1.13 | -	1.13 | -	1.13 | -	-				
5FSU 12EB	1	120/230 / 1	725	3021	2769	2468	2053	344	-	-	291	2	48670	1,538.-
				0.79 | -	0.79 | 79	0.79 | -	0.79 | -	0.79 | -	-	-				
5FSU 15FB	1	120/230 / 1	670	3963	3671	3345	2931	1283	336	-	303	2	47776	1.538.-
				1.13 | -	1.13 | 78	1.13 | -	1.13 | -	1.13 | -	1.13 | -	-				
5FSU 15GB	1-1/2	120/230 / 1	745	4464	4216	3933	3616	2780	1079	340	309	2	47359	1,769.-
				1.56 | -	1.56 | 81	1.56 | -	1.56 | -	1.56 | -	1.56 | -	1.56 | -				
5FSU 18GB	1-1/2	120/230 / 1	592	5409	4989	4515	4043	2386	809	-	449	2	47361	2,363.-
				1.50 | -	1.50 | 79	1.50 | -	1.50 | -	1.50 | -	1.50 | -	-				

Performance certified is for installation type B: Free Inlet, Ducted Outlet. Performance ratings include the effects of filters.
† Power ratings (BHP) do not include transmission losses. The A-weighted sound ratings are calculated per AMCA Standard 301.
# Values shown are for total LWA sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings include the effects of duct end correction for the outlet duct.

Dimensions



Model	A	B	C	D	E
5FSU 10BB	30	25	21	22	1 1/2
5FSU 10CB	30	25	21	22	1 1/2
5FSU 10DB	30	25	21	22	1 1/2
5FSU 10FB	30	25	21	22	1 1/2
5FSU 12EB	34 1/2	32	26	30	2
5FSU 15FB	34 1/2	32	26	30	2
5FSU 15GB	34 1/2	32	26	30	2
5FSU 18GB	42	36	31	33	2

Dimensional information is in inches.

Accessories

5ACC.. FS
Non-ventilated Curb
page 272

5ACC.. FT
Non-ventilated Curb
page 272

5ACC.. SD
Supply Damper
page 273

5ACC.. MS
Motor Disconnect
page 261

5BDU Series

Belt Drive Upblast Roof Ventilators

- Airflow up to 17,647 cfm
- Externally cooled motor compartment
- Fully welded windband
- Air stream temperatures up to 300 °F

Application

Belt-drive upblast ventilators are designed for roof mounted exhaust of commercial and industrial buildings. These models are suitable for both for roof and wall application (except 5BDU30 and 5BDU36 - roof only).

Design

Durable spun aluminum construction with steel support braces. Backward inclined aluminum fan wheel. Motor and wheel are easily detachable without removing ventilator from curb. Permanently lubricated ball bearings (5BDU10 - 5BDU13) and regreasable pillow block bearings (5BDU15 - 5BDU24).

Certification

All ventilators are listed UL 705 for electrical and UL 762 for restaurant exhaust in USA only.

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance rating includes the effects of the bird screen.

Specification data

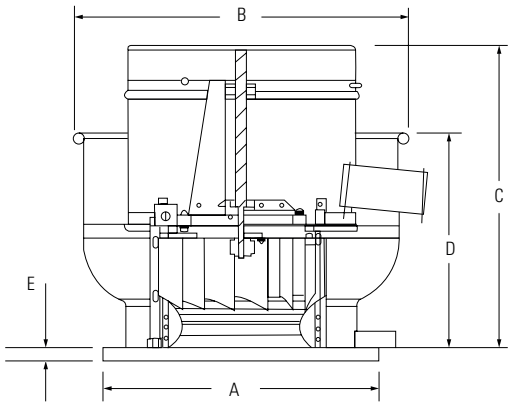
Model	Rated power	Voltage	RPM	0.0" P_s	0.125" P_s	0.25" P_s	0.375" P_s	0.50" P_s	0.625" P_s	0.75" P_s	1.00" P_s	Shipping weight	Shipping class	Item #	List price
	HP	V	min^{-1}	cfm								lbs			USD
				Sones † | BHP #											
5BDU 10BB-A	1/4	120/230	1819	1179 15.1 | 0.22	1138 14.7 | 0.23	1089 14.3 | 0.23	1037 13.5 | 0.24	981 13.1 | 0.24	922 12.8 | 0.25	855 12.0 | 0.25	679 10.6 | 0.24	110	2	46800	841.-
5BDU 12CB-A	1/3	120/230	1566	1530 13.1 | 0.28	1473 13.1 | 0.29	1417 12.7 | 0.30	1358 12.7 | 0.31	1290 12.3 | 0.31	1223 11.7 | 0.32	1142 11.0 | 0.32	961 10.3 | 0.32	124	2	46802	930.-
5BDU 13DB-A	1/2	120/230	1530	2188 17.3 | 0.42	2115 17.0 | 0.44	2042 16.3 | 0.45	1966 16.2 | 0.46	1888 15.4 | 0.48	1808 15.4 | 0.49	1723 15.1 | 0.50	1538 13.6 | 0.50	132	2	46805	1,003.-
5BDU 15EB-A	3/4	120/208-230	1489	2811 18.1 | 0.66	2735 17.9 | 0.67	2659 17.8 | 0.69	2582 17.7 | 0.70	2503 17.1 | 0.72	2414 16.9 | 0.73	2325 16.5 | 0.74	2123 15.7 | 0.74	153	2	46811	1,149.-
5BDU 15FB-A	1	120/208-230	1639	3094 20 | 0.87	3025 20 | 0.89	2956 20 | 0.91	2886 19.2 | 0.93	2817 19.1 | 0.94	2743 18.9 | 0.96	2662 18.8 | 0.97	2501 18.2 | 0.97	156	2	46813	1,149.-
5BDU 16FB-A	1	120/208-230	1400	3674 21 | 0.91	3576 21 | 0.92	3478 21 | 0.94	3388 19.8 | 0.95	3282 19.6 | 0.97	3175 19.6 | 0.98	3068 18.6 | 0.99	2844 17.4 | 1.02	162	2	46820	1,221.-
5BDU 18FX-A*	1	208-230/460	1169	3986 17.6 | 0.82	3873 17.3 | 0.84	3756 17.5 | 0.86	3640 17.1 | 0.88	3508 16.9 | 0.90	3368 16.3 | 0.92	3229 16.2 | 0.93	2914 15.4 | 0.94	204	2	46828	1,366.-

Performance certified for installation type A: free inlet, free outlet. Performance rating includes the effect of bird screen.
Power rating (BHP) does not include transmission losses.
† The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A, free inlet hemispherical sone levels.
* 3 phase motor

Dimensions

Model	A	B	C	D	E
5BDU 10	19	23 7/8	23 3/8	16 7/8	1 1/2
5BDU 12	22	26 1/2	24 1/4	17 3/4	1 1/2
5BDU 13	22	27 7/8	24 5/8	18 1/2	1 1/2
5BDU 15	26	29 7/8	27 3/8	19 3/8	1 1/2
5BDU 16	26	31 3/4	27 3/4	20 1/8	1 1/2
5BDU 18	30	34	29 7/8	20 1/8	1 1/2
5BDU 20	30	36 1/2	30 1/4	22	1 1/2
5BDU 24	34	42 3/8	33	24 1/2	1 1/2
5BDU 30	42	49 1/2	38 3/4	27 1/2	1 1/2
5BDU 36	46	58 1/2	42 7/8	31 1/2	1 1/2

Dimensional information is in inches.



Specification data

Model	Rated power	Voltage	RPM	0.0" P_s	0.125" P_s	0.25" P_s	0.375" P_s	0.50" P_s	0.625" P_s	0.75" P_s	1.00" P_s	Shipping weight	Shipping class	Item #	List price
	HP	V	min^{-1}	cfm								lbs			USD
				Sones † | BHP #											
5BDU 18GB-A	1-1/2	120/208-230	1338	4563 21 | 1.23	4465 21 | 1.25	4363 20 | 1.28	4261 20 | 1.30	4159 20 | 1.32	4045 19.5 | 1.35	3923 19.1 | 1.36	3678 18.2 | 1.39	219	2	46829	1,468.-
5BDU 18HX-A (*)	2	208-230/460	1473	5023 25 | 1.64	4935 24 | 1.67	4842 24 | 1.70	4750 23 | 1.72	4657 23 | 1.75	4564 22 | 1.77	4459 22 | 1.79	4238 21 | 1.83	215	2	46831	1,569.-
5BDU 20GB-A	1-1/2	120/208-230	1155	5367 22 | 1.31	5227 21 | 1.34	5086 21 | 1.38	4947 21 | 1.41	4797 20 | 1.43	4640 19.8 | 1.46	4483 19.2 | 1.47	4136 18.4 | 1.50	221	2	46839	1,513.-
5BDU 20HX-A*	2	208-230/460	1270	5902 25 | 1.75	5774 25 | 1.78	5647 24 | 1.82	5519 24 | 1.85	5391 24 | 1.88	5252 23 | 1.91	5108 23 | 1.93	4823 23 | 1.97	218	2	46841	1,625.-
5BDU 24GB-A	1-1/2	120/208-230	820	7306 19.5 | 1.34	7062 18.7 | 1.38	6818 18.2 | 1.41	6535 17.4 | 1.44	6245 16.6 | 1.47	5954 15.9 | 1.49	5632 17.7 | 1.50	4800 14.9 | 1.49	255	2	46849	1,804.-
5BDU 24HX-A*	2	208-230/460	900	8018 24 | 1.76	7796 23 | 1.81	7573 22 | 1.85	7334 22 | 1.89	7070 21 | 1.92	6806 19.7 | 1.95	6541 19.0 | 1.97	5945 18.1 | 1.99	254	2	46851	1,916.-

Performance certified for installation type A: free inlet, free outlet. Performance rating includes the effect of bird screen.
Power rating (BHP) does not include transmission losses.
† The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA standard 301. Values shown are for installation type A, free inlet hemispherical sone levels.
* 3 phase motor

Upblast fans with a "-A" designation indicate fans available as fully assembled. For models with a complete range of motor and shell configurations, refer to pages 162-165. These fans are shipped unassembled as Shell, Motor, and Drive Pack separately. The shell comes complete with a blower wheel, shaft assembly and motor mount installed. Installation of the motor and drive pack components ranges from 5-10 minutes depending on the skill range of the installer.

Accessories for UL705 Applications

5ACC.. FS
Non-ventilated Curb
page 272

5ACC.. FT
Non-ventilated Curb
page 272

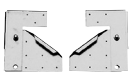
5ACC.. RD
Roof Mount Damper
page 273

5ACC.. MS [1)]
Motor Disconnect
page 261

Accessories for UL762 Applications

5ACC.. VC
Ventilated Curb
page 272

5ACC.. GC
Grease Collector
page 274



5ACC.. HK
Hinge Kit
page 274

[1)] Suitable for both UL 705 and UL 762 Applications

5BDU Series

Belt Drive Upblast Roof Ventilators

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings include the effects of the bird screen.

In order to offer the 5BDU series with quick-ship availability, Fantech offers the complete range as 3 easily assembled components. The fans come with a Shell featuring a fully welded windband, heavy duty motor supports and machine balanced and mounted blower wheel. Factory pressed bearings complete the shaft and motor mount assembly. Choosing the right motor is as easy as finding your desired airflow and matching that performance with the corresponding motor size and drive pack. **Not all available motor combinations are shown in the specification data table below.** Please, refer to our online PRV selection tool for a complete listing of Fan combinations and performance data at **fantech.net/products/select/prv-fan-select/**

Specification data

Model	Rated power	Voltage	RPM	0.0" P_s	0.125" P_s	0.25" P_s	0.375" P_s	0.50" P_s	0.625" P_s	0.75" P_s	0.875" P_s	1.00" P_s	1.25" P_s
	HP	V	min^{-1}	cfm									
				Sones † | BHP #									
5BDU 12	1/4	120 / 230	1423	1390	1328	1266	1195	1121	1034	939	831	-	-
				12.5 | 0.21	12.3 | 0.22	11.7 | 0.23	11.3 | 0.23	10.8 | 0.24	10.2 | 0.24	9.7 | 0.24	9.5 | 0.24	-	-
5BDU 13	1/4	120 / 230	1210	1730	1638	1543	1443	1334	1216	1061	-	-	-
				12.2 | 0.21	11.2 | 0.22	11.5 | 0.23	11.0 | 0.24	10.3 | 0.25	9.4 | 0.25	8.5 | 0.25	-	-	-
	1/3	120 / 230	1330	1902	1818	1734	1643	1552	1449	1343	1201	-	-
				14.1 | 0.28	13.7 | 0.29	13.1 | 0.30	12.9 | 0.31	12.5 | 0.32	11.7 | 0.33	11.1 | 0.33	10.2 | 0.33	-	-
5BDU 15	1/4	120/208-230	1033	1950	1840	1727	1599	1450	1258	-	-	-	-
				11.8 | 0.22	11.5 | 0.23	11.5 | 0.24	10.8 | 0.25	10.5 | 0.25	9.9 | 0.25	-	-	-	-
	1/3	120/208-230	1136	2145	2045	1945	1832	1713	1571	1393	-	-	-
				13.1 | 0.29	12.8 | 0.30	12.5 | 0.31	12.3 | 0.32	12.0 | 0.33	11.4 | 0.33	10.8 | 0.33	-	-	-
	1/2	120/208-230 208-230/460	1301	2456	2369	2282	2193	2091	1989	1868	1745	1572	-
				15.4 | 0.44	15.4 | 0.45	15.1 | 0.47	14.9 | 0.48	14.4 | 0.49	14.1 | 0.49	13.8 | 0.50	13.2 | 0.50	12.9 | 0.49	-
5BDU 16	1/3	120 / 230	960	2520	2377	2232	2076	1910	1702	1390	-	-	-
				12.4 | 0.29	12.1 | 0.30	11.7 | 0.31	10.9 | 0.32	10.6 | 0.33	9.6 | 0.33	8.8 | 0.31	-	-	-
	1/2	120/208-230 208-230/460	1100	2887	2762	2637	2507	2370	2226	2077	1847	1529	-
				15.7 | 0.44	14.7 | 0.45	14.2 | 0.46	13.5 | 0.47	12.8 | 0.48	12.0 | 0.49	11.8 | 0.50	11.4 | 0.49	9.8 | 0.47	-
	3/4	120/208-230 208-230/460	1260	3307	3198	3098	2980	2864	2744	2623	2492	2360	-
				18.2 | 0.66	17.7 | 0.68	17.4 | 0.69	17.2 | 0.70	16.2 | 0.71	15.7 | 0.72	15.3 | 0.74	14.9 | 0.74	14.2 | 0.75	-
5BDU 18	1/3	120 / 230	811	2765	2600	2419	2217	1987	1676	-	-	-	-
				10.1 | 0.27	9.8 | 0.29	9.6 | 0.30	9.2 | 0.31	8.6 | 0.31	8.4 | 0.31	-	-	-	-
	1/2	120/208-230 208-230/460	928	3164	3020	2873	2701	2523	2321	2070	-	-	-
				11.7 | 0.41	11.5 | 0.43	11.6 | 0.44	11.2 | 0.46	10.5 | 0.47	10.1 | 0.47	9.8 | 0.47	-	-	-
	3/4	120/208-230 208-230/460	1062	3621	3496	3368	3233	3080	2926	2753	2577	2335	-
				14.8 | 0.61	14.5 | 0.63	14.3 | 0.65	14.1 | 0.67	13.9 | 0.69	13.3 | 0.69	12.8 | 0.70	12.6 | 0.70	11.9 | 0.70	-
5BDU 20	1/3	120 / 230	695	3329	2996	2742	2456	2094	-	-	-	-	-
				12.9 | 0.29	12.2 | 0.30	11.8 | 0.32	11.4 | 0.33	11.2 | 0.32	-	-	-	-	-
	1/2	120/208-230 208-230/460	800	3718	3515	3304	3078	2820	2527	2005	-	-	-
				14.0 | 0.44	13.6 | 0.46	13.1 | 0.48	12.6 | 0.49	12.2 | 0.50	12.3 | 0.50	12.0 | 0.47	-	-	-
	3/4	120/208-230 208-230/460	915	4252	4075	3898	3703	3505	3282	3039	2734	2175	-
				15.7 | 0.65	15.3 | 0.68	15.1 | 0.70	14.5 | 0.72	14.3 | 0.74	13.7 | 0.75	13.9 | 0.75	13.4 | 0.74	12.8 | 0.68	-
	1	120/208-230 208-230/460	1010	4693	4533	4373	4206	4026	3846	3643	3423	3181	1422
				17.6 | 0.88	17.2 | 0.91	17.1 | 0.93	16.6 | 0.96	16.2 | 0.96	16.2 | 0.96	15.5 | 1.00	14.9 | 1.00	14.9 | 1.00	14.8 | 0.63

Performance certified for installation type A: free inlet, free outlet. Performance rating includes the effect of bird screen. # Power rating (BHP) does not include transmission losses.
† The sound ratings shown are loudness values in hemispherical sones at a distance of 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A, free inlet hemispherical sone levels.

5BDU Series

Belt Drive Upblast Roof Ventilators

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings include the effects of the bird screen.

Specification data (cont.)

Model	Rated power	Voltage	RPM	0.0" P_s	0.125" P_s	0.25" P_s	0.375" P_s	0.50" P_s	0.625" P_s	0.75" P_s	0.875" P_s	1.00" P_s	1.25" P_s	1.50" P_s
	HP	V	min^{-1}	cfm										
				Sones † | BHP #										
5BDU 24	1/3	120 / 230	495	4410	3989	3503	2826	-	-	-	-	-	-	-
				10.6 | 0.29	10.4 | 0.32	10.0 | 0.33	9.8 | 0.32	-	-	-	-	-	-	-
	1/2	120/230 208-230/460	570	5078	4727	4313	3866	3239	-	-	-	-	-	-
				11.9 | 0.45	11.9 | 0.48	11.3 | 0.50	11.0 | 0.51	10.4 | 0.50	-	-	-	-	-	-
	3/4	120/208-230 208-230/460	650	5791	5477	5126	4732	4324	3865	-	-	-	-	-
				14.4 | 0.67	14.4 | 0.70	13.7 | 0.73	13.7 | 0.74	13.4 | 0.75	11.4 | 0.75	-	-	-	-	-
	1	120/208-230 208-230/460	720	6415	6137	5842	5510	5180	4801	4310	3714	-	-	-
				15.8 | 0.90	15.6 | 0.94	14.3 | 0.97	14.1 | 1.00	13.8 | 1.01	13.2 | 1.01	13.0 | 1.00	12.9 | 0.97	-	-	-
5BDU 30	1/2	120/230 208-230/460	412	6232	5658	4955	4105	-	-	-	-	-	-	-
				16.1 | 0.42	15.1 | 0.46	14.5 | 0.47	14.2 | 0.47	-	-	-	-	-	-	-
	3/4	120/208-230 208-230/460	471	7124	6622	6049	5391	4627	-	-	-	-	-	-
				17.6 | 0.63	15.7 | 0.67	14.6 | 0.70	14.6 | 0.70	13.9 | 0.70	-	-	-	-	-	-
	1	120/208-230 208-230/460	519	7850	7394	6901	6352	5709	4992	-	-	-	-	-
				19.1 | 0.85	15.7 | 0.89	15.2 | 0.93	14.6 | 0.94	14.6 | 0.94	14.0 | 0.93	-	-	-	-	-
	1-1/2	120/208-230 208-230/460	594	8985	8586	8188	7716	7233	6669	6072	5417	-	-	-
				16.5 | 1.27	17.3 | 1.32	16.3 | 1.37	15.9 | 1.40	15.6 | 1.41	15.1 | 1.41	14.4 | 1.40	14.1 | 1.38	-	-	-
	2	208-230/460	653	9877	9515	9152	8755	8319	7867	7354	6824	6230	-	-
				19.7 | 1.69	19.4 | 1.75	18.3 | 1.80	18.0 | 1.84	17.3 | 1.86	16.0 | 1.87	15.9 | 1.87	15.1 | 1.87	14.5 | 1.85	-	-
	3	208-230/460	748	11314	10988	10681	10365	10005	9624	9242	8814	8367	7394	-
				24 | 2.53	23 | 2.60	22 | 2.67	22 | 2.72	21 | 2.77	19.8 | 2.79	18.9 | 2.81	18.4 | 2.81	17.7 | 2.81	16.9 | 2.79	
	5	208-230/460	887	13417	13150	12883	12616	12350	12065	11744	11422	11100	10393	9638
				30 | 4.23	30 | 4.31	30 | 4.38	30 | 4.46	28 | 4.52	28 | 4.58	27 | 4.63	26 | 4.66	25 | 4.68	24 | 4.69	23 | 4.66
5BDU 36	3/4	120/208-230 208-230/460	339	9392	8509	7552	6179	-	-	-	-	-	-	-
				9.3 | 0.67	8.6 | 0.71	8.4 | 0.74	7.9 | 0.73	-	-	-	-	-	-	-
	1	120/208-230 208-230/460	373	10334	9532	8679	7654	6202	-	-	-	-	-	-
				10.9 | 0.89	9.8 | 0.94	9.4 | 0.98	8.9 | 0.98	8.3 | 0.94	-	-	-	-	-	-
	1-1/2	120/208-230 208-230/460	427	11830	11129	10411	9645	8694	7443	-	-	-	-	-
				13.0 | 1.34	12.2 | 1.39	11.5 | 1.44	11.1 | 1.47	10.8 | 1.47	10.0 | 1.44	-	-	-	-	-
	2	208-230/460	470	13021	12384	11748	11058	10336	9430	8267	-	-	-	-
				15.5 | 1.78	14.6 | 1.84	14.1 | 1.89	13.5 | 1.94	13.1 | 1.97	12.5 | 1.96	12.0 | 1.92	-	-	-	-
	3	208-230/460	538	14905	14349	13793	13224	12616	12008	11231	10432	9307	-	-
				19.1 | 2.68	18.8 | 2.74	17.8 | 2.80	17.0 | 2.86	16.7 | 2.92	16.2 | 2.95	15.8 | 2.95	15.0 | 2.92	14.8 | 2.87	-	-
	5	208-230/460	637	17647	17178	16708	16239	15763	15249	14736	14222	13573	12147	7546
				23 | 4.44	23 | 4.52	23 | 4.59	21 | 4.67	21 | 4.74	21 | 4.81	20 | 4.86	20 | 4.90	19.8 | 4.90	18.4 | 4.85	17.3 | 3.55

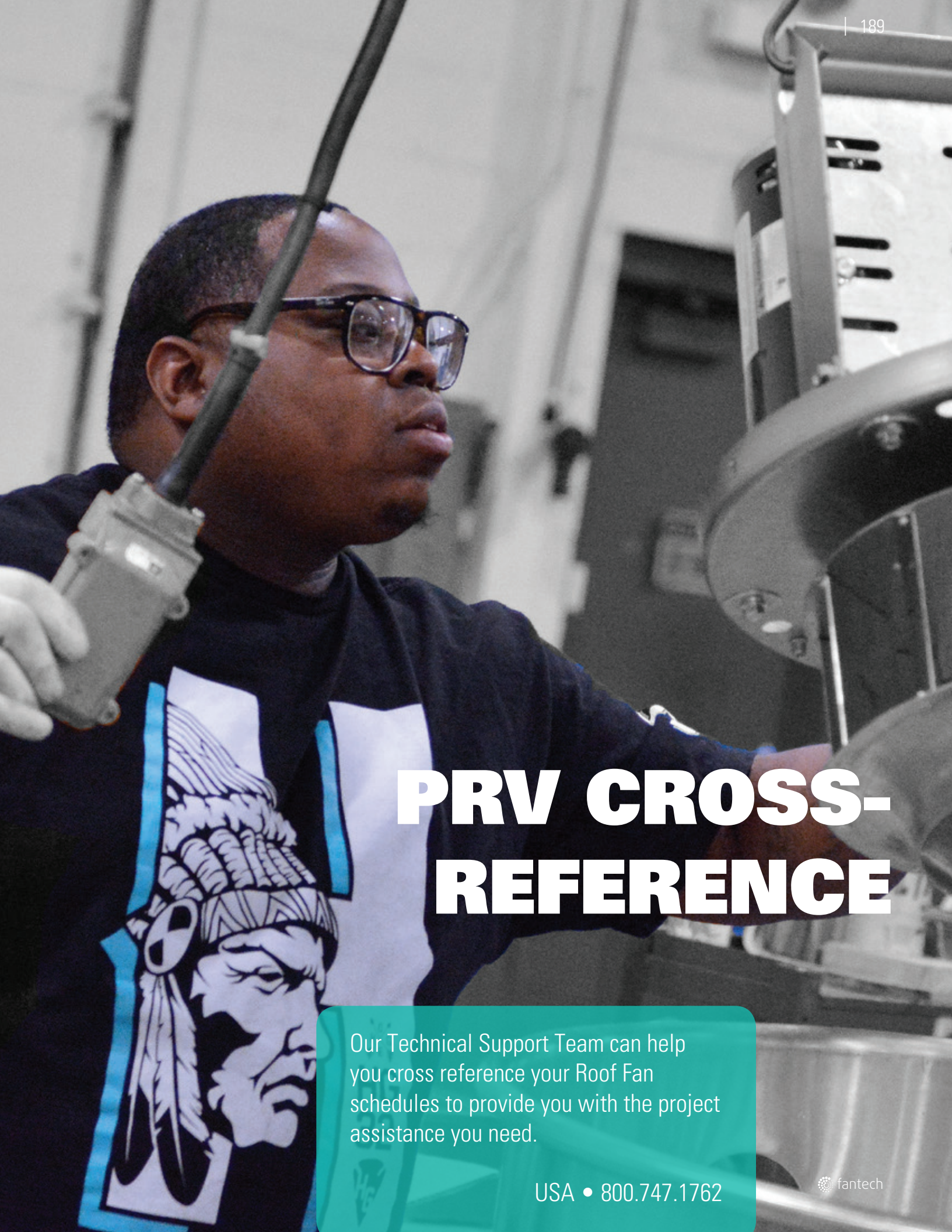
Performance certified for installation type A: free inlet, free outlet. Performance rating includes the effect of bird screen. # Power rating (BHP) does not include transmission losses.
† The sound ratings shown are loudness values in hemispherical sones at a distance of 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A, free inlet hemispherical sone levels.

5BDU Series*

Upblast Roof Ventilator Components

Model	Shell			HP	1 Phase for Fans Less Motor and Drive						3 Phase for Fans Less Motor and Drive					
					Drive Pack			Motor			Drive Pack			Motor		
	Item #	MSRP	Shipping weight		Item #	DP ID	MSRP	Item #	Motor ID	MSRP	Item #	DP ID	MSRP	Item #	Motor ID	MSRP
		USD	lbs				USD			USD			USD			USD
5BDU10	49800	560.-	90	1/4	48992	DP-10"-BB	54.-	49907	MOT BB	107.-						
5BDU12	49801	617.-	100	1/4	48993	DP-12"-BB	59.-	49907	MOT BB	107.-						
				1/3	48994	DP-12"-CB	59.-	49909	MOT CB	145.-						
5BDU13	49802	672.-	105	1/4	48995	DP-13"-BB	61.-	49907	MOT BB	107.-						
				1/3	48996	DP-13"-CB	61.-	49909	MOT CB	145.-						
				1/2	48997	DP-13"-DB	61.-	49910	MOT DB	147.-	49000	DP-13"-DX	61.-	49911	MOT DX	176.-
5BDU15	49803	729.-	120	1/4	49001	DP-15"-BB	67.-	49907	MOT BB	107.-						
				1/3	49002	DP-15"-CB	67.-	49909	MOT CB	145.-						
				1/2	49003	DP-15"-DB	67.-	49910	MOT DB	147.-	49004	DP-15"-DX	67.-	49911	MOT DX	176.-
				3/4	49005	DP-15"-EB/EX	67.-	49912	MOT EB	252.-	49005	DP-15"-EB/EX	67.-	49913	MOT EX	214.-
				1	49007	DP-15"-FB/FX	67.-	49914	MOT FB	226.-	49007	DP-15"-FB/FX	67.-	49915	MOT FX	226.-
5BDU16	49804	784.-	125	1/3	49010	DP-16"-CB	69.-	49909	MOT CB	145.-						
				1/2	49011	DP-16"-DB	69.-	49910	MOT DB	147.-	49012	DP-16"-DX	69.-	49911	MOT DX	176.-
				3/4	49013	DP-16"-EB/EX	69.-	49912	MOT EB	252.-	49013	DP-16"-EB/EX	69.-	49913	MOT EX	214.-
				1	49015	DP-16"-FB/FX	69.-	49914	MOT FB	226.-	49015	DP-16"-FB/FX	69.-	49915	MOT FX	226.-
5BDU18	49805	953.-	171	1/3	49017	DP-18"-CB	76.-	49909	MOT CB	145.-						
				1/2	49018	DP-18"-DB	76.-	49910	MOT DB	147.-	49019	DP-18"-DX	76.-	49911	MOT DX	176.-
				3/4	49020	DP-18"-EB/EX	76.-	49912	MOT EB	252.-	49020	DP-18"-EB/EX	76.-	49913	MOT EX	214.-
				1	49022	DP-18"-FB/FX	76.-	49914	MOT FB	226.-	49022	DP-18"-FB/FX	76.-	49915	MOT FX	226.-
				1-1/2	49024	DP-18"-GB	76.-	49916	MOT GB	305.-	49024	DP-18"-GB	76.-	49917	MOT GX	291.-
				2							49026	DP-18"-HX	76.-	49918	MOT HX	573.-
5BDU20	49806	1,008.-	173	1/3	49027	DP-20"-CB	81.-	49909	MOT CB	145.-						
				1/2	49028	DP-20"-DB	81.-	49910	MOT DB	147.-	49029	DP-20"-DX	81.-	49911	MOT DX	176.-
				3/4	49031	DP-20"-EB/EX	81.-	49912	MOT EB	252.-	49031	DP-20"-EB/EX	81.-	49913	MOT EX	214.-
				1	49032	DP-20"-FB/FX	81.-	49914	MOT FB	226.-	49032	DP-20"-FB/FX	81.-	49915	MOT FX	226.-
				1-1/2	49036	DP-20"-GB/GX	81.-	49916	MOT GB	305.-	49036	DP-20"-GB/GX	81.-	49917	MOT GX	291.-
				2							49038	DP-20"-HX	81.-	49918	MOT HX	573.-
5DBU24	49807	1,120.-	205	1/3	49039	DP-24"-CB	91.-	49909	MOT CB	145.-						
				1/2	49040	DP-24"-DB	91.-	49910	MOT DB	147.-	49041	DP-24"-DX	91.-	49911	MOT DX	176.-
				3/4	49042	DP-24"-EB/EX	91.-	49912	MOT EB	252.-	49042	DP-24"-EB/EX	91.-	49913	MOT EX	214.-
				1	49044	DP-24"-FB/FX	91.-	49914	MOT FB	226.-	49044	DP-24"-FB/FX	91.-	49915	MOT FX	226.-
				1-1/2	49046	DP-24"-GB/GX	91.-	49916	MOT GB	305.-	49046	DP-24"-GB/GX	91.-	49917	MOT GX	291.-
											49051	DP-24"-HX	91.-	49918	MOT HX	573.-
5BDU30	49808	2,017.-	305	1/2	49466	DP-30"-DB	107.-	49910	MOT DB	147.-	49052	DP-30"-DX	107.-	49911	MOT DX	176.-
				3/4	49053	DP-30"-EB/EX	107.-	49912	MOT EB	252.-	49053	DP-30"-EB/EX	107.-	49913	MOT EX	214.-
				1	49055	DP-30"-FB/FX	107.-	49914	MOT FB	226.-	49055	DP-30"-FB/FX	107.-	49915	MOT FX	226.-
				1-1/2	49057	DP-30"-GB/GX	107.-	49916	MOT GB	305.-	49057	DP-30"-GB/GX	107.-	49917	MOT GX	291.-
				2							49060	DP-30"-HX	107.-	49918	MOT HX	573.-
				3							49061	DP-30"-JX	107.-	49919	MOT JX	678.-
				5							49062	DP-30"-KX	107.-	49920	MOT KX	580.-
5BDU36	49809	2,913.-	385	3/4	49063	DP-36"-EB/EX	123.-	49912	MOT EB	252.-	49063	DP-36"-EB/EX	123.-	49913	MOT EX	214.-
				1	49065	DP-36"-FB/FX	123.-	49914	MOT FB	226.-	49065	DP-36"-FB/FX	123.-	49915	MOT FX	226.-
				1-1/2	49067	DP-36"GB/GX	123.-	49916	MOT GB	305.-	49067	DP-36"GB/GX	123.-	49917	MOT GX	291.-
				2							49069	DP-36"-HX	123.-	49918	MOT HX	573.-
				3							49070	DP-36"-JX	123.-	49919	MOT JX	678.-
				5							49072	DP-36"-KX	123.-	49920	MOT KX	580.-

*Shell items listed on this page are Shipping Class 2, motor items are Shipping Class 1.



PRV CROSS-REFERENCE

Our Technical Support Team can help you cross reference your Roof Fan schedules to provide you with the project assistance you need.

USA • 800.747.1762

5DDU EC Series

Direct Drive Upblast Roof Ventilators

- Airflow up to 4,840 cfm
- Multiple controller options
- Manual and automatic control via 2-10 Vdc
- Air stream temperatures up to 300 °F
- BMS compatible

Application

The 5DDU-EC Series feature energy saving EC motors, which are ideal for applications requiring demand control ventilation. Applications include apartment buildings, multi-purpose rooms with differing rates of ventilation, hi-rise buildings - single fan on riser exhausting multiple spaces or restaurant applications with grease laden air. These upblast ventilators are designed for continuous operation to exhaust foul air, smoke, fumes, odors and grease-laden vapors from range hoods and commercial cooking appliances.

Design

Durable spun aluminum construction with steel support braces. Backward inclined aluminum fan wheel. Motor and wheel are easily detachable without removing ventilator from curb. Factory preassembled with rpm speed control card with automation capability. Module can easily be mounted in optional NEMA 3R enclosure on the outside of the fan or inside the building.

Speed contol

The 5DDU EC fan motor's speed is controlled via a 2-10Vdc signal. The motor provides a +10V reference that can be used by a remotely-mounted potentiometer (such as MTP 10, see page 236). The motor can also be controlled by an externally-provided 2-10Vdc signal that can come from any device or a Building Management System (BMS). The fan's motor also provides operational speed (tachometer pulse) output that can be used to verify fan operation. These control features allow the 5DDU EC to be integrated into and play an active role in smart HVAC systems in buildings.

Certification

All ventilators are UL 705 and UL 762 Standards listed.

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings include the effects of the bird screen.

Specification data

Model	Rated power	Voltage / phase	RPM	0.0" P_s	0.25" P_s	0.50" P_s	0.75" P_s	1.00" P_s	1.25" P_s	Sones @ 0.25"	Shipping weight	Shipping class	Item #	MSRP
	HP	V / ~	min^{-1}	cfm | Watts							lbs			USD
5DDU EC 10EN	3/4	120/208/240	2060	1186 | 239	1052 | 250	908 | 262	748 | 271	554 | 261	175 | 203	15.4	85	2	49821	1,328.-
5DDU EC 12EN	3/4	120/208/240	1835	1951 | 435	1846 | 465	1737 | 478	1625 | 482	1495 | 477	1348 | 477	17.8	92	2	49822	1,508.-
5DDU EC 13EN	3/4	120/208/240	1685	2495 | 564	2376 | 586	2254 | 608	2112 | 623	1955 | 632	1780 | 634	18.9	95	2	49823	1,575.-
5DDU EC 15FN2*	1	120/208/240	1755	3252 | 977	3087 | 973	2922 | 968	2742 | 962	2563 | 956	2383 | 950	24	105	2	49824	1,800.-
5DDU EC 18FN*	1	120/208/240	1300	4840 | 1239	4570 | 1253	4292 | 1260	3983 | 1246	3670 | 1240	3350 | 1239	19.7	161	2	49826	1,935.-

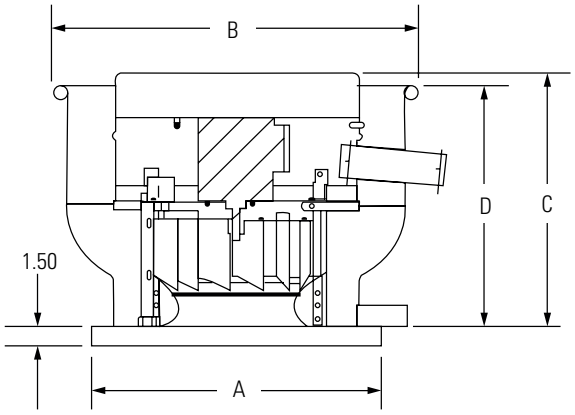
Performance Certified is for Installation type A: free inlet, free outlet. Performance rating includes the effects of a bird screen. Speed (RPM) is nominal and performance is based on actual speed of test. Values shown are for installation type A, free inlet hemispherical sone levels.

* The sound ratings shown are loudness values in hemispherical sones at a distance of 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301.

Dimensions

Model	A	B	C	D
5DDUEC 10EN	19	23 7/8	18 7/8	17 7/8
5DDUEC 12EN	22	26 5/32	19 5/8	17 3/4
5DDUEC 13EN	22	27 7/8	20 3/4	18 1/2
5DDUEC 15FN2	26	29 7/8	22	19 3/4
5DDUEC 18FN	30	34	24	21 1/8

Dimensional information is in inches.



Accessories for UL 762 Commercial Kitchen Exhaust Applications

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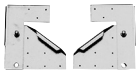

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Hinge Kit
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5ACC.. GC
Grease Collector
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EC EMT
Control Enclosure
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Accessories for Non-UL 762 Applications

MTP 10
Speed Control
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5ACC.. RD
Roof Mount Damper
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5ACC.. MS
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EC EMT
Control Enclosure
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5DDU Series

Direct Drive Upblast Roof Ventilators

- Airflow up to 3,899 cfm
- Externally cooled motor compartment
- Fully welded windband
- Air stream temperatures up to 300 °F

Application

Direct-drive upblast ventilators are designed for continuous operation to exhaust foul air, smoke, fumes, odors and grease-laden vapors from range hoods and commercial cooking appliances. Ventilators are designed for installation in industrial, institutional and commercial kitchen roof and wall applications.

Design

All models are equipped with a backward inclined aluminum fan wheel and a speed controllable motor.

Certification

All models are UL 705 listed. All models except 5DDU 085AY are UL 762 listed (commercial kitchen exhaust).

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings include the effects of the bird screen.

Specification data

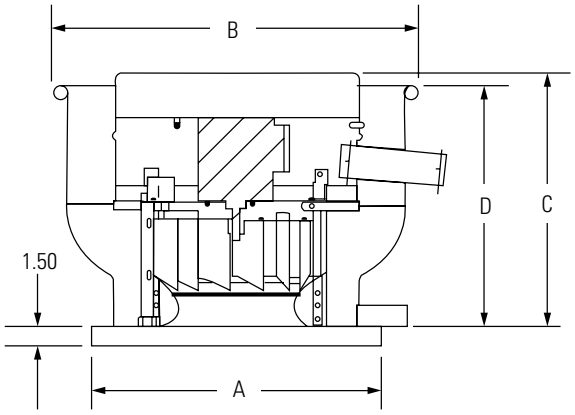
Model	Rated power	Voltage / phase	Amperage full load	RPM	0.0" P_s	0.25" P_s	0.375" P_s	0.50" P_s	0.625" P_s	0.75" P_s	1.00" P_s	Shipping weight	Shipping class	Item #	List price
	HP	V / ~	Amps	min^{-1}	cfm							lbs			USD
					Sones † | BHP										
5DDU 085AY	1/25	120	1.5	1642	416 8.0 | -	267 6.5 | -	169 6.8 | -	- -	- -	- -	- -	23	2	47333	393.-
5DDU 106A	1/20	120	1.2	1100	685 5.1 | -	388 3.9 | -	116 4.1 | -	- -	- -	- -	- -	37	2	47334	476.-
5DDU 10AA	1/6	120	2.7	1725	1048 12.6 | -	911 11.6 | -	836 11.3 | -	749 10.6 | -	650 10.8 | -	522 10.5 | -	- -	88	2	47335	560.-
5DDU 12CA	1/3	120	4.0	1557	1531 13.8 | 0.27	1406 13.3 | 0.31	1340 12.9 | 0.32	1272 12.6 | 0.33	1193 12.3 | 0.34	1107 12.0 | 0.35	897 11.3 | 0.33	109	2	47337	701.-
5DDU 13DB	1/2	120/230	8.0 / 4.0	1690	2419 20 | 0.54	2285 19.5 | 0.56	2218 19.0 | 0.58	2145 18.6 | 0.59	2072 18.2 | 0.60	1992 17.9 | 0.62	1829 17.4 | 0.63	117	2	47339	841.-
5DDU 15CA	1/3	120	4.4	1144	2174 13.5 | 0.27	1963 12.5 | 0.30	1849 12.0 | 0.31	1714 11.4 | 0.32	1568 10.8 | 0.32	1375 10.0 | 0.32		130	2	47340	1,008.-
5DDU 16DB	1/2	120/230	6.2 / 3.1	1145	2859 15.6 | 0.41	2619 14.5 | 0.45	2494 13.7 | 0.47	2369 13.2 | 0.48	2219 12.6 | 0.49	2063 12.2 | 0.49	1502 11.0 | 0.46	144	2	47342	1,065.-
5DDU 18EB	3/4	120/230	10.0 / 5.0	1111	3899 21 | 0.73	3644 20 | 0.78	3495 19.8 | 0.80	3337 18.9 | 0.81	3181 18.0 | 0.83	3011 17.3 | 0.84	2616 16.9 | 0.85	159	2	47343	1,177.-

Performance certified is for installation type A: free inlet, free outlet. Performance rating includes the effects of bird screen. Speed (RPM) shown is nominal, and performance is based on actual speed of test.
† The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA standard 301. Values shown are for installation type A, free inlet hemispherical sone levels.

Dimensions

Model	A	B	C	D
5DDU 085AY	19	20 1/2	12 1/8	10
5DDU 106A	19	23 7/8	18 7/8	16 7/8
5DDU 10AA	19	23 7/8	18 7/8	16 7/8
5DDU 12CA	22	26 1/8	19 5/8	17 3/4
5DDU 13DB	22	27 7/8	20 3/4	18 1/2
5DDU 15CA	26	29 7/8	22	19 3/8
5DDU 16DB	26	31 3/4	22 3/4	20 1/8
5DDU 18EB	30	34	24	21 1/8

Dimensional information is in inches.



Accessories for UL 762 Commercial Kitchen Exhaust Applications

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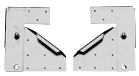

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Hinge Kit
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Accessories for Non-UL 762 Applications

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5DDD Series

Direct Drive Downblast Roof Ventilator

- Airflow up to 4,037 cfm
- Externally cooled motor compartment
- Equipped with a built-in bird screen
- Air stream temperatures up to 170 °F

Application

Direct-drive downblast ventilators are designed for use where steady exhaust ventilation is needed under low to moderate static pressure conditions. Ventilators can be mounted on the roof or wall. Wall applications require a curb or other means of clearance from wall.

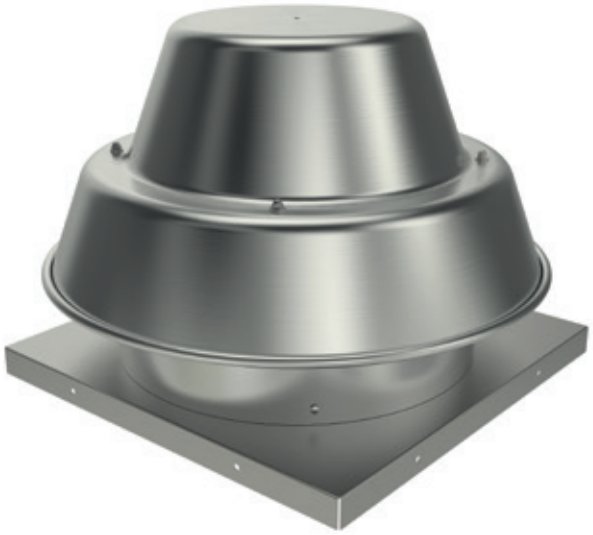
Design

All models are equipped with a backward inclined aluminum fan wheel and a speed controllable motor.

Certification

All models are UL 705 listed.

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings include the effects of the bird screen.



Specification data

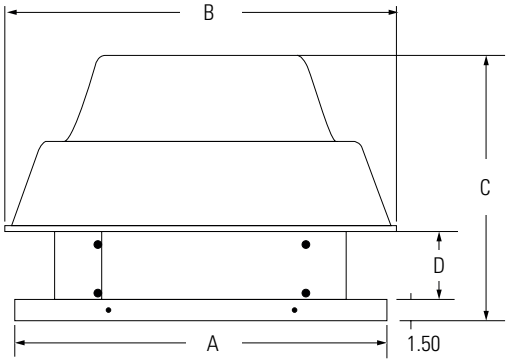
Model	Rated power	Voltage / phase	Amperage full load	RPM	0.0" P_s	0.25" P_s	0.375" P_s	0.50" P_s	0.625" P_s	0.75" P_s	1.00" P_s	Shipping weight	Shipping class	Item #	List price
	HP	V / ~	Amps	min^{-1}	cfm							lbs			USD
					Sones † | BHP #										
5DDD 085A	1/25	120	1.5	1661	414 6.8 | -	259 5.9 | -	157 5.4 | -	- -	- -	- -	- -	26	2	47386	308.-
5DDD 106A	1/20	120	1.2	1150	645 5.5 | -	309 5.0 | -	- -	- -	- -	- -	- -	41	2	47387	393.-
5DDD 10AA	1/6	120	2.7	1650	985 9.6 | -	824 9.1 | -	724 8.1 | -	619 7.9 | -	498 7.8 | -	352 -	- -	44	2	47388	448.-
5DDD 12CA	1/3	120	4.0	1694	1743 15.6 | 0.35	1605 14.9 | 0.36	1543 14.6 | 0.36	1475 14.2 | 0.37	1392 13.8 | 0.38	1316 13.6 | 0.39	1137 13.2 | 0.39	55	2	47392	532.-
5DDD 13DB	1/2	120/230	8.0 / 4.0	1684	2553 18.2 | 0.44	2402 17.1 | 0.48	2326 15.6 | 0.49	2245 14.2 | 0.51	2159 13.4 | 0.51	2073 12.7 | 0.56	1866 11.4 | 0.57	66	2	47394	729.-
5DDD 15CA	1/3	120	4.4	1124	2160 11.9 | 0.32	1930 11.1 | 0.34	1792 10.3 | 0.34	1645 9.7 | 0.34	1481 9.1 | 0.34	1255 9.0 | 0.34	- -	138	2	47399	841.-
5DDD 16DB	1/2	120/230	6.2 / 3.1	1143	2914 15.9 | 0.45	2660 14.2 | 0.48	2526 13.4 | 0.49	2389 11.7 | 0.50	2231 10.3 | 0.50	2061 10.3 | 0.50	1493 11.0 | 0.49	149	2	47401	896.-
5DDD 18EB	3/4	120/230	10.5 / 5.0	1106	4037 19.8 | 0.75	3766 19.2 | 0.80	3629 18.8 | 0.82	3476 18.4 | 0.85	3324 18.0 | 0.87	3147 17.8 | 0.89	2765 17.5 | 0.89	164	2	47403	1,065.-

Performance certified is for installation type A: free inlet, free outlet. Performance rating includes the effects of bird screen. Speed (RPM) shown is nominal, and performance is based on actual speed of test.
† The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA standard 301. Values shown are for installation type A, free inlet hemispherical sone levels.

Dimensions

Model	A	B	C	D
5DDD 085A	19	18 7/8	13 1/4	3 1/2
5DDD 106A	19	22 3/8	16 1/2	3 3/8
5DDD 10AA	19	22 3/8	16 1/2	3 3/8
5DDD 12CA	22	24 1/4	17 7/8	4
5DDD 13DB	22	25 5/8	18 1/8	4 3/8
5DDD 15CA	26	27 7/8	18 1/2	4 3/8
5DDD 16DB	26	29 3/4	20 1/4	4 3/4
5DDD 18EB	30	31 5/8	21 3/8	5 5/8

Dimensional information is in inches.



Accessories

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Non-ventilated Curb
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5ACC.. SC
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5BDD Series

Belt Drive Downblast Roof Ventilators

- Airflow up to 18,850 cfm
- Externally cooled motor compartment
- Equipped with a built-in bird screen
- Air stream temperatures up to 170 °F

Application

Roof mounted belt drive downblast ventilators are designed to exhaust air out of commercial and industrial buildings. These models are for roof mounting only.

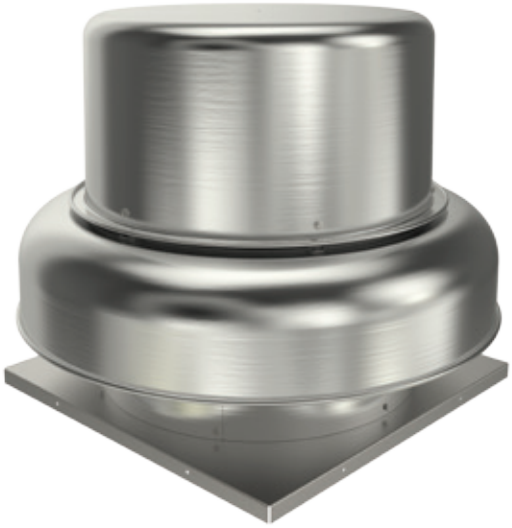
Design

Welded curb cap corners eliminate water entry into ducts or building. Ball bearing motors and variable pitch drives are packed separately when ordered with ventilators. Motor and wheel are easily detachable without removing ventilator from curb. Permanently lubricated ball bearings (5BDD 10 - 5BDD 13) and regreasable pillow block bearings (5BDD 15 - 5BDD 24).

Certification

All models are UL 705 listed.

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings include the effects of the bird screen.



Specification data

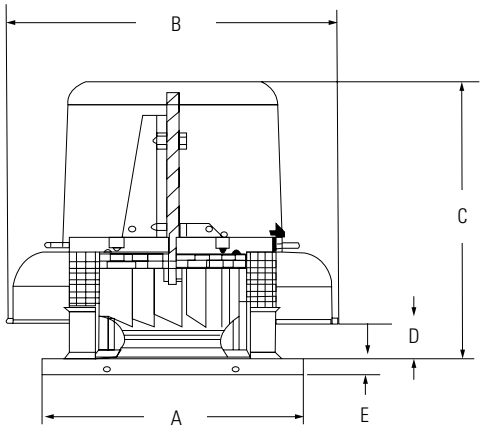
Model	Rated power	Voltage	RPM	0.0" P_s	0.25" P_s	0.375" P_s	0.50" P_s	0.625" P_s	0.75" P_s	1.0" P_s	Shipping weight	Shipping class	Item #	List price
	HP	V / ~	min^{-1}	cfm							lbs			USD
				Sones † | BHP #										
5BDD 10BB-A	1/4	120/230	1819	1197 14.2 | 0.22	1104 14.3 | 0.23	1055 13.9 | 0.24	1004 13.4 | 0.24	950 13.4 | 0.25	884 12.7 | 0.25	723 12.1 | 0.25	110	2	46900	784.-
5BDD 12CB-A	1/3	120/230	1566	1611 13.1 | 0.29	1481 12.7 | 0.31	1414 12.7 | 0.32	1339 12.3 | 0.32	1260 11.7 | 0.33	1169 11.0 | 0.33	966 10.3 | 0.33	124	2	46902	874.-
5BDD 13DB-A	1/2	120/230	1528	2106 18.5 | 0.41	1969 16.8 | 0.44	1901 15.9 | 0.45	1820 14.9 | 0.46	1735 14.7 | 0.47	1645 14.2 | 0.47	1446 13.3 | 0.48	137	2	46905	947.-
5BDD 15DB-A	1/2	120/230	1301	2587 15.4 | 0.44	2402 15.0 | 0.48	2308 15.0 | 0.48	2190 14.0 | 0.49	2072 14.2 | 0.50	1939 14.0 | 0.50	1633 13.0 | 0.49	143	2	46909	1,092.-
5BDD 16EB-A	3/4	120/208-230	1261	3235 17.9 | 0.63	3036 16.8 | 0.67	2936 16.3 | 0.68	2817 16.3 | 0.70	2698 15.4 | 0.71	2579 15.2 | 0.72	2269 14.5 | 0.72	154	2	46918	1,165.-
5BDD 18FB-A	1	120/208-230	1169	4324 17.5 | 0.86	4075 16.7 | 0.91	3951 16.5 | 0.93	3815 15.9 | 0.96	3667 15.5 | 0.97	3520 15.4 | 0.99	3179 14.5 | 1.00	201	2	46927	1,311.-
5BDD 20GB-A	1-1/2	120/208-230	1154	5506 23 | 1.27	5222 22 | 1.35	5080 21 | 1.38	4938 20 | 1.41	4787 19.7 | 1.44	4636 19.5 | 1.46	4308 18.5 | 1.50	233	2	46939	1,457.-
5BDD 24GB-A	1-1/2	120/208-230	832	7121 19.8 | 1.35	6659 19.6 | 1.43	6429 19.0 | 1.46	6148 18.8 | 1.49	5868 18.7 | 1.51	5554 18.4 | 1.52	4823 17.8 | 1.51	254	2	46949	1,748.-
5BDD 24HX-A (*)	2	208-230/460	916	7839 22 | 1.80	7421 22 | 1.89	7209 22 | 1.93	6984 22 | 1.97	6730 21 | 2.00	6476 21 | 2.02	5889	310	2	46951	1,860.-

Performance certified for installation type A: free inlet, free outlet. Performance rating includes the effect of bird screen. # Power rating (BHP) does not include transmission losses. (*) - 3 phase motor
† The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301.Values shown are for installation type A, free inlet hemispherical sone levels.

Dimensions

Model	A	B	C	D	E
5BDD 10	19	25 3/4	22 7/8	3	1 1/2
5BDD 12	22	28	23 3/8	3	1 1/2
5BDD 13	22	29 3/4	24 5/8	3 1/4	1 1/2
5BDD 15	26	31 11/16	27 3/8	3 3/4	1 1/2
5BDD 16	26	33 11/16	27 3/4	4 3/16	1 1/2
5BDD 18	30	36	29 5/8	4 3/4	1 1/2
5BDD 20	30	38 1/4	30 1/4	5 1/4	1 1/2
5BDD 24	34	44 1/4	33	6 11/16	1 1/2
5BDD 30	42	51 7/16	37 1/2	8 13/32	1 1/2
5BDD 36	46	60	41 5/16	10 1/2	1 1/2

Dimensional information is in inches.



FULLY ASSEMBLED PRVs

Downblast and Upblast fans with a "-A" designation indicate fans available as fully assembled. For models with a complete range motor and shell configurations, refer to pages 198-199 (Downblast) and 186-187 (Upblast). These fans are shipped unassembled as Shell, Motor, and Drive Pack separately. Shell comes complete with blower wheel, shaft assembly and motor mount installed.

Installation of the motor utilizing drive pack components ranges from 5-10 minutes depending on the skill range of the installer.

Accessories

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Non-ventilated Curb
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5BDD Series

Belt Drive Downblast Roof Ventilators

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings include the effects of the bird screen.

In order to offer the 5BDD series with quick-ship availability, Fantech offers the complete range as 3 easily assembled components. The fans come with a Shell featuring a fully welded windband, heavy duty motor supports and machine balanced and mounted blower wheel. Factory pressed bearings complete the shaft and motor mount assembly. Choosing the right motor is as easy as finding your desired airflow and matching that performance with the corresponding motor size and drive pack. **Not all available motor combinations are shown in the specification data table below.** Please refer to our online PRV selection tool for a complete listing of Fan combinations and performance data at **fantech.net/products/select/prv-fan-select/**

Specification data

Model	Rated power	Voltage	RPM	0.0" P_s	0.125" P_s	0.25" P_s	0.375" P_s	0.50" P_s	0.625" P_s	0.75" P_s	0.875" P_s	1.00" P_s	1.25" P_s
	HP	V	min^{-1}	cfm									
				Sones † | BHP #									
5BDD 12	1/4	120/230	1423	1464	1392	1321	1242	1158	1058	950	813	-	-
				12.5 | 0.22	12.3 | 0.23	11.7 | 0.24	11.4 | 0.24	10.9 | 0.25	10.3 | 0.25	10.0 | 0.25	9.2 | 0.25	-	-
5BDD 13	1/4	120/230	1213	1672	1586	1500	1393	1279	1154	1009	-	-	-
				14.0 | 0.21	13.4 | 0.22	12.3 | 0.23	11.1 | 0.23	10.0 | 0.24	9.3 | 0.24	9.3 | 0.24	-	-	-
	1/3	120/230	1335	1840	1762	1684	1595	1498	1390	1277	1145	638	-
				15.7 | 0.28	15.2 | 0.29	14.6 | 0.30	13.8 | 0.31	12.5 | 0.31	11.3 | 0.32	10.8 | 0.32	10.7 | 0.32	9.9 | 0.24	-
5BDD 15	1/4	120/230	1033	2054	1937	1816	1668	1503	1306	518	-	-	-
				11.8 | 0.22	11.5 | 0.23	11.2 | 0.24	10.9 | 0.25	10.7 | 0.25	9.9 | 0.25	8.6 | 0.15	-	-	-
	1/3	120/230	1136	2259	2153	2047	1919	1782	1628	1446	1183	-	-
				13.1 | 0.29	12.9 | 0.30	12.5 | 0.32	12.3 | 0.33	12.1 | 0.33	11.4 | 0.33	11.1 | 0.33	10.5 | 0.32	-	-
	1/2	120/230 208-230/460	1301	2587	2494	2402	2308	2190	2072	1939	1804	1633	-
				15.4 | 0.44	15.4 | 0.45	15.2 | 0.47	15.0 | 0.48	14.0 | 0.49	14.2 | 0.50	14.0 | 0.50	13.2 | 0.50	13.0 | 0.49	-
5BDD 16	1/3	120 / 230	962	2468	2338	2201	2044	1865	1648	1351	-	-	-
				11.8 | 0.28	11.3 | 0.29	10.8 | 0.31	9.9 | 0.32	9.5 | 0.32	8.9 | 0.32	8.5 | 0.31	-	-	-
	1/2	120/230 208-230/460	1100	2825	2711	2597	2467	2330	2177	1999	1790	1491	-
				14.1 | 0.42	13.6 | 0.43	13.4 | 0.45	12.8 | 0.46	12.2 | 0.47	11.7 | 0.48	11.2 | 0.48	11.0 | 0.48	10.2 | 0.46	-
	3/4	120/230 208-230/460	1261	3235	3136	3036	2936	2817	2698	2579	2425	2269	1877
				17.9 | 0.63	16.9 | 0.65	16.8 | 0.67	16.3 | 0.68	16.3 | 0.70	15.4 | 0.71	15.2 | 0.72	14.5 | 0.72	14.5 | 0.72	13.2 | 0.70
5BDD 18	1/3	120 / 230	811	2999	2821	2631	2418	2168	1821	-	-	-	-
				10.3 | 0.29	9.4 | 0.30	9.2 | 0.32	8.7 | 0.33	8.4 | 0.33	8.4 | 0.33	-	-	-	-
	1/2	120/230 208-230/460	928	3432	3276	3120	2939	2754	2533	2264	-	-	-
				13.4 | 0.43	11.3 | 0.45	11.0 | 0.47	10.8 | 0.48	10.4 | 0.49	9.9 | 0.50	9.5 | 0.50	-	-	-
	3/4	120/208-230 208-230/460	1062	3928	3791	3655	3514	3352	3190	3004	2811	2549	-
				14.7 | 0.64	13.9 | 0.67	13.7 | 0.69	13.4 | 0.71	13.3 | 0.73	12.7 | 0.74	12.6 | 0.75	12.0 | 0.75	11.3 | 0.74	-
5BDD 20	1/3	120 / 230	699	3335	3101	2858	2588	2241	-	-	-	-	-
				12.5 | 0.28	10.0 | 0.31	9.3 | 0.32	8.8 | 0.33	8.3 | 0.33	-	-	-	-	-
	1/2	120/208-230 208-230/460	800	3817	3612	3406	3188	2942	2653	2220	-	-	-
				14.7 | 0.42	11.3 | 0.45	11.2 | 0.47	10.6 | 0.49	10.0 | 0.50	9.8 | 0.50	9.4 | 0.48	-	-	-
	3/4	120/208-230 208-230/460	916	4371	4192	4013	3828	3638	3429	3181	2895	2335	-
				15.6 | 0.64	14.8 | 0.67	14.2 | 0.69	13.5 | 0.72	12.9 | 0.75	12.6 | 0.75	12.0 | 0.75	11.9 | 0.75	11.7 | 0.69	-
	1	120/208-230 208-230/460	1008	4810	4647	4484	4322	4149	3976	3786	3560	3325	1186
				18.7 | 0.85	17.7 | 0.88	17.1 | 0.91	16.4 | 0.94	16.0 | 0.96	15.4 | 0.98	14.6 | 1.00	14.5 | 1.00	14.4 | 1.00	13.3 | 0.57

Performance certified for installation type A: free inlet, free outlet. Performance rating includes the effect of bird screen. # Power rating (BHP) does not include transmission losses.
† The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A, free inlet hemispherical sone levels.

5BDD Series

Belt Drive Downblast Roof Ventilators

Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings include the effects of the bird screen.

Specification data (cont.)

Model	Rated power	Voltage	RPM	0.0" P_s	0.125" P_s	0.25" P_s	0.375" P_s	0.50" P_s	0.625" P_s	0.75" P_s	1.00" P_s	1.25" P_s	1.50" P_s
	HP	V	min^{-1}	cfm									
				Sones † | BHP #									
5BDD 24	1/3	120 / 230	504	4313	3931	3478	2877	-	-	-	-	-	-
				9.6 | 0.30	9.5 | 0.32	9.0 | 0.34	8.5 | 0.34	-	-	-	-	-	-
	1/2	120/230 208-230/460	577	4938	4605	4233	3795	3253	-	-	-	-	-
				11.8 | 0.45	11.7 | 0.48	11.7 | 0.50	11.0 | 0.51	10.2 | 0.50	-	-	-	-	-
	3/4	120/208-230 208-230/460	660	5649	5358	5059	4707	4309	3844	2837	-	-	-
				15.1 | 0.67	15.1 | 0.71	14.9 | 0.73	14.9 | 0.75	14.2 | 0.76	13.3 | 0.76	12.3 | 0.68	-	-	-
	1	120/208-230 208-230/460	727	6222	5959	5692	5389	5069	4689	4266	-	-	-
				18.0 | 0.90	18.0 | 0.97	18.0 | 0.97	17.9 | 1.00	17.4 | 1.01	17.0 | 1.02	16.0 | 1.01	-	-	-
5BDD 30	1/2	120/208-230 208-230/460	412	6470	5866	5234	4371	-	-	-	-	-	-
				10.7 | 0.44	10.8 | 0.47	10.5 | 0.50	10.0 | 0.50	-	-	-	-	-	-
	3/4	120/208-230 208-230/460	471	7396	6869	6326	5732	4906	-	-	-	-	-
				12.5 | 0.66	12.1 | 0.70	11.8 | 0.73	11.5 | 0.75	11.0 | 0.74	-	-	-	-	-
	1	120/208-230 208-230/460	519	8150	7672	7188	6681	6084	5257	-	-	-	-
				13.5 | 0.89	13.5 | 0.92	13.0 | 0.96	12.7 | 1.00	12.3 | 1.01	11.6 | 0.98	-	-	-	-
	1-1/2	120/208-230 208-230/460	594	9227	8910	8490	8058	7619	7099	6515	-	-	-
				16.1 | 1.33	15.8 | 1.37	15.6 | 1.41	15.0 | 1.46	14.8 | 1.49	12.9 | 1.51	13.9 | 1.50	-	-	-
	2	208-230/460	653	10254	9875	9493	9111	8708	8305	7826	6545	-	-
				17.8 | 1.76	17.8 | 1.81	17.5 | 1.86	16.9 | 1.91	16.7 | 1.96	16.3 | 1.99	15.3 | 2.00	15.1 | 1.95	-	-
	3	208-230/460	748	11746	11416	11082	10749	10414	10062	9711	8907	7855	-
				21 | 2.65	21 | 2.71	21 | 2.76	20 | 2.82	19.9 | 2.87	19.7 | 2.92	19.2 | 2.97	18.1 | 3.01	17.8 | 2.96	-
	5	208-230/460	887	13928	13651	13370	13089	12808	12526	12238	11546	11037	10278
				30 | 4.42	29 | 4.49	30 | 4.55	30 | 4.62	29 | 4.68	28 | 4.74	28 | 4.81	27 | 4.87	25 | 5.01	24 | 5.02
5BDD 36	3/4	120/208-230 208-230/460	339	10032	9207	8221	6803	-	-	-	-	-	-
				11.9 | 0.74	10.3 | 0.78	9.4 | 0.81	8.5 | 0.79	-	-	-	-	-	-
	1	120/208-230 208-230/460	373	11038	10288	9435	8397	6687	-	-	-	-	-
				13.6 | 0.98	12.0 | 1.03	11.0 | 1.07	10.3 | 1.07	10.0 | 1.00	-	-	-	-	-
	1-1/2	120/208-230 208-230/460	427	12636	11981	11302	10495	9541	8114	-	-	-	-
				16.7 | 1.48	14.9 | 1.53	14.1 | 1.58	13.7 | 1.61	12.9 | 1.61	12.8 | 1.55	-	-	-	-
	2	208-230/460	470	13908	13313	12718	12017	11284	10357	9030	-	-	-
				19.5 | 1.97	18.2 | 2.03	17.8 | 2.09	16.8 | 2.13	16.1 | 2.15	15.0 | 2.14	14.9 | 2.07	-	-	-
	3	208-230/460	538	15921	15401	14881	14352	13712	13071	12310	11486	-	-
				24.0 | 2.96	23.0 | 3.03	23 | 3.10	22.0 | 3.15	21 | 3.20	20 | 3.22	19.2 | 3.22	18.0 | 3.19	-	-
	5	208-230/460	637	18850	18411	17972	17533	17094	16563	16023	14861	-	-
				28.0 | 4.90	28.0 | 4.99	29.0 | 5.08	28.0 | 5.15	27.0 | 5.22	27.0 | 5.28	25 | 5.32	23.0 | 5.35	-	-

Performance certified for installation type A: free inlet, free outlet. Performance rating includes the effect of bird screen. # Power rating (BHP) does not include transmission losses.
† The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A, free inlet hemispherical sone levels.

5BDD Series

Downblast Roof Ventilator Components

Model	Shell			HP	1 Phase for Fans Less Motor and Drive						3 Phase for Fans Less Motor and Drive					
					Drive Pack			Motor			Drive Pack			Motor		
	Item #	MSRP	Shipping Weight		Item #	DP ID	MSRP	Item #	Motor ID	MSRP	Item #	DP ID	MSRP	Item #	Motor ID	MSRP
		USD	lbs				USD			USD			USD			USD
5BDD10	49810	515.-	90	1/4	48992	DP-10"-BB	54.-	49907	MOT BB	107.-						
5BDD12	49811	560.-	100	1/4	48993	DP-12"-BB	59.-	49907	MOT BB	107.-						
				1/3	48994	DP-12"-CB	59.-	49909	MOT CB	145.-						
5BDD13	49812	627.-	110	1/4	48995	DP-13"-BB	61.-	49907	MOT BB	107.-						
				1/3	48996	DP-13"-CB	61.-	49909	MOT CB	145.-						
				1/2	48997	DP-13"-DB	61.-	49910	MOT DB	147.-	49000	DP-13"-DX	61.-	49911	MOT DX	176.-
5BDD15	49813	672.-	120	1/4	49001	DP-15"-BB	67.-	49907	MOT BB	107.-						
				1/3	49002	DP-15"-CB	67.-	49909	MOT CB	145.-						
				1/2	49003	DP-15"-DB	67.-	49910	MOT DB	147.-	49004	DP-15"-DX	67.-	49911	MOT DX	176.-
				3/4	49005	DP-15"-EB/EX	67.-	49912	MOT EB	252.-	49005	DP-15"-EB/EX	67.-	49913	MOT EX	214.-
				1	49007	DP-15"-FB/FX	67.-	49914	MOT FB	226.-	49007	DP-15"-FB/FX	67.-	49915	MOT FX	226.-
5BDD16	49814	729.-	130	1/3	49010	DP-16"-CB	69.-	49909	MOT CB	145.-						
				1/2	49011	DP-16"-DB	69.-	49910	MOT DB	147.-	49012	DP-16"-DX	69.-	49911	MOT DX	176.-
				3/4	49013	DP-16"-EB/EX	69.-	49912	MOT EB	252.-	49013	DP-16"-EB/EX	69.-	49913	MOT EX	214.-
				1	49015	DP-16"-FB/FX	69.-	49914	MOT FB	226.-	49015	DP-16"-FB/FX	69.-	49915	MOT FX	226.-
5BDD18	49815	896.-	164	1/3	49017	DP-18"-CB	76.-	49909	MOT CB	145.-						
				1/2	49018	DP-18"-DB	76.-	49910	MOT DB	147.-	49019	DP-18"-DX	76.-	49911	MOT DX	176.-
				3/4	49020	DP-18"-EB/EX	76.-	49912	MOT EB	252.-	49020	DP-18"-EB/EX	76.-	49913	MOT EX	214.-
				1	49022	DP-18"-FB/FX	76.-	49914	MOT FB	226.-	49022	DP-18"-FB/FX	76.-	49915	MOT FX	226.-
				1-1/2	49024	DP-18"-GB	76.-	49916	MOT GB	305.-	49024	DP-18"-GB	76.-	49917	MOT GX	291.-
				2							49026	DP-18"-HX	76.-	49918	MOT HX	573.-
5BDD20	49816	953.-	185	1/3	49027	DP-20"-CB	81.-	49909	MOT CB	145.-						
				1/2	49028	DP-20"-DB	81.-	49910	MOT DB	147.-	49029	DP-20"-DX	81.-	49911	MOT DX	176.-
				3/4	49031	DP-20"-EB/EX	81.-	49912	MOT EB	252.-	49031	DP-20"-EB/EX	81.-	49913	MOT EX	214.-
				1	49032	DP-20"-FB/FX	81.-	49914	MOT FB	226.-	49032	DP-20"-FB/FX	81.-	49915	MOT FX	226.-
				1-1/2	49036	DP-20"-GB/GX	81.-	49916	MOT GB	305.-	49036	DP-20"-GB/GX	81.-	49917	MOT GX	291.-
				2							49038	DP-20"-HX	81.-	49918	MOT HX	573.-
5BDD24	49817	1,065.-	212	1/3	49039	DP-24"-CB	91.-	49909	MOT CB	145.-						
				1/2	49040	DP-24"-DB	91.-	49910	MOT DB	147.-	49041	DP-24"-DX	91.-	49911	MOT DX	176.-
				3/4	49042	DP-24"-EB/EX	91.-	49912	MOT EB	252.-	49042	DP-24"-EB/EX	91.-	49913	MOT EX	214.-
				1	49044	DP-24"-FB/FX	91.-	49914	MOT FB	226.-	49044	DP-24"-FB/FX	91.-	49915	MOT FX	226.-
				1-1/2	49046	DP-24"-GB/GX	91.-	49916	MOT GB	305.-	49046	DP-24"-GB/GX	91.-	49917	MOT GX	291.-
				2							49051	DP-24"-HX	91.-	49918	MOT HX	573.-
5BDD30	49818	2,746.-	310	1/2	49466	DP-30"-DB	107.-	49910	MOT DB	147.-	49052	DP-30"-DX	107.-	49911	MOT DX	176.-
				3/4	49053	DP-30"-EB/EX	107.-	49912	MOT EB	252.-	49053	DP-30"-EB/EX	107.-	49913	MOT EX	214.-
				1	49055	DP-30"-FB/FX	107.-	49914	MOT FB	226.-	49055	DP-30"-FB/FX	107.-	49915	MOT FX	226.-
				1-1/2	49057	DP-30"-GB/GX	107.-	49916	MOT GB	305.-	49057	DP-30"-GB/GX	107.-	49917	MOT GX	291.-
				2							49060	DP-30"-HX	107.-	49918	MOT HX	573.-
				3							49061	DP-30"-JX	107.-	49919	MOT JX	678.-
				5							49062	DP-30"-KX	107.-	49920	MOT KX	580.-
5BDD36	49562	4,202.-	380	3/4	49063	DP-36"-EB/EX	123.-	49912	MOT EB	252.-	49063	DP-36"-EB/EX	123.-	49913	MOT EX	214.-
				1	49065	DP-36"-FB/FX	123.-	49914	MOT FB	226.-	49065	DP-36"-FB/FX	123.-	49915	MOT FX	226.-
				1-1/2	49067	DP-36"GB/GX	123.-	49916	MOT GB	305.-	49067	DP-36"GB/GX	123.-	49917	MOT GX	291.-
				2							49069	DP-36"-HX	123.-	49918	MOT HX	573.-
				3							49070	DP-36"-JX	123.-	49919	MOT JX	678.-
				5							49072	DP-36"-KX	123.-	49920	MOT KX	580.-

*Shell items listed on this page are Shipping Class 2, motor items are Shipping Class 1.

5ADE Series

Direct Drive Axial Exhaust Roof Fan

- Airflow up to 7,839 cfm
- Externally cooled motor compartment
- Equipped with a built-in bird screen
- Air stream temperatures up to 140 °F

Application

Direct-drive axial roof ventilators are designed for use in applications requiring the steady exhaust of air under low to moderate static pressures. Ventilators are wall mountable (requires a curb or other means of clearance from wall).

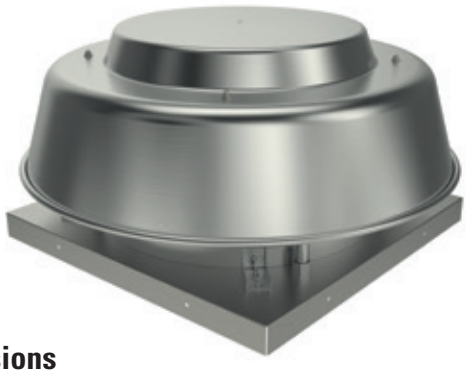
Design

Direct-drive axial roof ventilators are designed for use in applications requiring the steady exhaust of air under low to moderate static pressures. All models are manufactured from durable spun aluminum; venturi, inlet and supports are galvanized. Blades are made from stamped aluminum.

Certification

All ventilators are listed UL 705 for electrical.

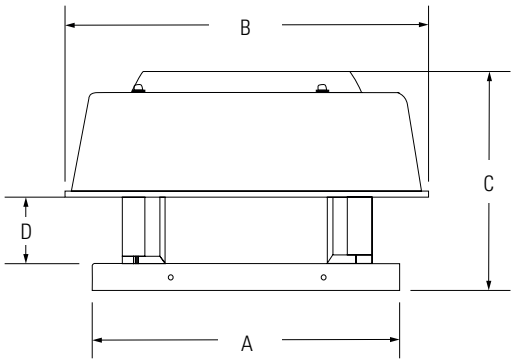
Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings include the effects of the bird screen.



Dimensions

Model	A	B	C	D
5ADE 102A	19	23 5/8	13 3/8	5 1/2
5ADE 12BA	22	28	15 1/2	6 1/2
5ADE 16EA	26	33 1/4	16 1/2	6 1/8

Dimensional information is in inches.



Accessories

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Flat Roof Curb
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Flat Roof Curb
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5ACC.. RD
Roof Damper
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5ACC.. SC
Speed Control
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5ACC.. MS
Motor Disconnect
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Specification data

Model	Rated power	Voltage / phase	Amperage full load	RPM	0.0" P_s	0.25" P_s	0.375" P_s	0.50" P_s	0.625" P_s	0.75" P_s	1.00" P_s	Shipping weight	Shipping class	Item #	List price
	HP	V / ~	Amps	min^{-1}	cfm							lbs			USD
					Sones † | Max BHP										
5ADE 102A	1/30	120 / 1	0.9	1759	547 8.9 | -	269 9.3 | -	191 10.0 | -	- -	- -	- -	- -	83	2	47242	387.-
5ADE 12BA	1/4	120 / 1	2.3	1764	1423 10.0 | 0.18	993 10.8 | 0.18	891 13.0 | 0.18	644 15.3 | 0.18	441 -	225 -	- -	98	2	47244	513.-
5ADE 16EA	3/4	120 / 1	4.5	1730	2767 17.9 | 0.49	2367 16.5 | 0.49	2159 18.0 | 0.49	1958 19.3 | 0.49	1625 21 | 0.49	1377 22 | 0.49	936 26 | 0.49	147	2	47246	751.-

Performance certified is for installation type A: Free Inlet, Free Outlet. Performance ratings include the effects of bird screens. Speed (RPM) shown is nominal, and performance shown is based on actual speed of test.
† The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A, Free Inlet hemispherical sone levels.


Driven by EC

STREAMLINE MANUFACTURING

Marcus FuQua Sr.,
Mechanical Specialist

"Streamlined manufacturing isn't only modern tooling and skilled workers. A great production plant is a facilty where everything is in sync: raw materials are in stock; product components are produced and assembled; testing and packaging are straightforward, shipping of finished products is on time. Our facilities in the United States and Canada are designed to excel at that day after day, year after year. For us, it is very important that our products exceed customer expectations."

2GMS Series
Guard Mounted Exhaust Fans

Application
Guard mounted exhaust fans are widely used for ventilating warehouses, greenhouses, workshops and other low pressure applications of up to 0.125 P_s.

Design
Steel wire intake guard complies with OSHA regulations and has four mounting loops to make in stallation easy, and baked-on gray polyester finish to help resist corrosion.

Certification
c UL us

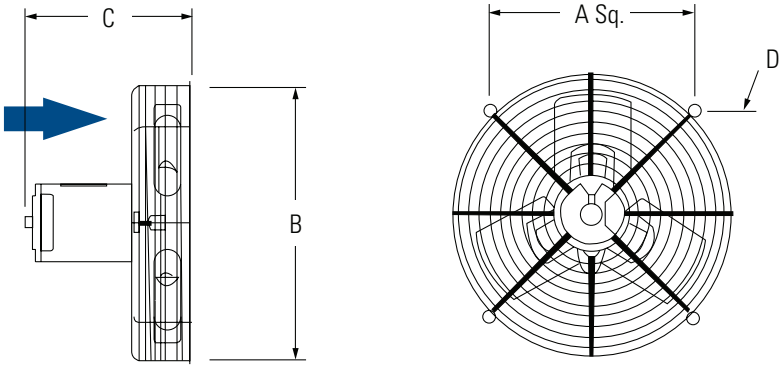
Buy American Act Compliant

- Airflow up to 2,600 cfm at free air
- Deep pitch aluminum propeller
- Guard complies with OSHA regulations
- Not for use with speed control

Specification data

Model	Rated power	Voltage / phase	Amperage full load	RPM	0.0" P_s	0.125" P_s	Sones @ 0.125" P_s	Shipping weight	Shipping class	Item #	MSRP
	HP	V / ~	Amps	min^{-1}	cfm			lbs			USD
2GMS 1021	1/30	120 / 1	1.4	1550	595	405	5.5	6	1	47090	136.-
2GMS 1221	1/30	120 / 1	1.4	1550	820	535	6.2	8	1	47091	146.-
2GMS 1661	1/20	120 / 1	1.7	1550	1060	585	8.0	13	1	47092	207.-
2GMS 20B1	1/4	120 / 1	4.0	1725	2600	2690	11.4	25	2	47094	321.-

Dimensions



Model	Propeller Dia	A	B	C	D
2GMS 1021	10	8 3/4	11	5 9/16	1/4
2GMS 1221	12	10 3/16	13	5 15/16	1/4
2GMS 1661	16	12 15/16	17 3/8	6 1/2	1/4
2GMS 20B1	20	16 3/4	22 1/8	11 15/16	5/16

Dimensional information is in inches.

Accessories

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FADE Series
Axial Fans

- Airflow up to 7,858 cfm
- 100% speed-controllable
- Shallow profile with no protruding motor
- Maximum inlet temperature is 100°F

Application
Fantech's FADE Series axial fans are designed to effectively and quietly handle major ventilation challenges in locations such as large warehouses without taking up a lot of valuable space.

Design
All FADE Series fans combine aerodynamically designed propeller blades and an external rotor motor expertly integrated into one unit. Fans feature a heavy gauge galvanized steel and powdercoated finish casing. With fan sizes ranging from 8" to 25", Fantech's FADE Series fans move a lot of air, yet are statically and dynamically balanced for vibration-free operation. The external rotor motorized propeller provides excellent heat dissipation, even at low RPM. Rated for continuous duty.

Certification
Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings include the effects of the intake guard.

FADE WHD Series
WHD models are fully assembled: include a wall cabinet and backdraft damper.

FADE Series
Assembled on a square wall plate made of powder coated galvanized steel

Specification data

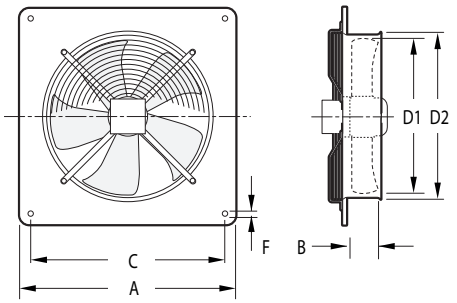
Model	Rated power	Voltage / Phase	Max. Amps	RPM	0.0" P_s	0.1" P_s	0.25" P_s	0.375" P_s	0.5" P_s	Sones†	Shipping weight	Shipping class	Item #	MSRP
	W		A		cfm						lbs			USD
FADE 8-4	45	120 / 1	0.41[1]	1550	304	246	74	-	-	4.1	15	1	411298	244.-
FADE 10-4	68	120 / 1	0.62[1]	1500	624	558	377	132	-	7.9	15	1	411350	279.-
FADE 12-4 / FADE 12-4 WHD	130	120 / 1	1.19[1]	1400	1208	1069	797	-	-	9.4	20 / 47	1 / 2	411351 / 45422	336.- / 591.-
FADE 14-4 / FADE 14-4 WHD	245	120 / 1	2.24[1]	1200	1839	1654	1295	-	-	9.6	20 / 54	1 / 2	411352 / 45423	414.- / 647.-
FADE 16-4 / FADE 16-4 WHD	458	120 / 1	2.70[1]	1400	3054	2882	2570	2198	1699	12.0	25 / 64	1 / 2	411353 / 45424	494.- / 830.-
FADE 18-4 / FADE 18-4 WHD	698	120 / 1	6.39[2]	1550	4115	3895	3549	3239	2908	14.3	30 / 69	1 / 2	411299 / 45425	772.- / 1,045.-
FADE 20-4 / FADE 20-4 WHD	1450	120 / 1	8.39[2]	1450	4949	4682	4274	3917	3445	16.4	45 / 80	2	411354 / 45427	920.- / 1,271.-
FADE 20-6 / FADE 20-6 WHD	435	120 / 1	3.98[1]	1100	3693	3368	2775	1429	-	10.7	45 / 88	2	411300 / 45426	835.- / 1,193.-
FADE 22-6 / FADE 22-6 WHD	756	120 / 1	6.92[2]	1000	5629	5248	4432	-	-	12.0	55 / 115	2	411305 / 45429	1,148.- / 1,511.-
FADE 25-6 / FADE 25-6 WHD	1134	120 / 1	10.38[3]	1000	7858	7355	6557	-	-	14.8	65 / 125	2	411355 / 45431	1,357.- / 1,727.-

Performance certified is for installation type A - Free inlet, Free outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of intake guard. The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A, free inlet hemispherical sone levels.

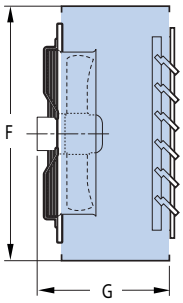
[1] Recommended speed control rating 5A [2] Recommended speed control rating 10A [3] Recommended speed control rating 15A

Dimensions

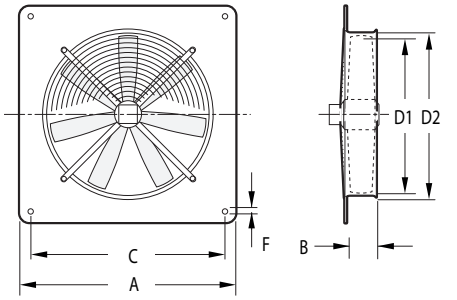
FADE S Blade Type



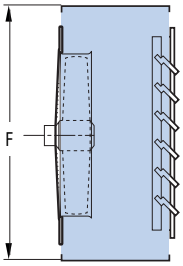
FADE WHD S Blade Type



FADE A Blade Type



FADE WHD A Blade Type



Model	A	B	C	D1	D2	E	F	G	Blade Type
FADE 8-4	12 5/16	2	10 1/4	7 3/4	8 1/16	1/4	-	-	S
FADE 10-4	14 9/16	2	12 5/8	10	10 5/16	1/4	-	-	S
FADE 12-4 / FADE 12-4 WHD	17	3	15	12	12 7/8	5/16	21	15 1/2	S
FADE 14-4 / FADE 14-4 WHD	19 3/16	3 1/8	17 1/8	14	15 3/8	5/16	21	15 1/2	S
FADE 16-4 / FADE 16-4 WHD	22 3/4	3 1/2	21	16 1/2	17 1/4	3/8	24	16 1/2	S
FADE 18-4 / FADE 18-4 WHD	22 9/16	4 1/4	21	18	18 1/2	3/8	24	16 1/2	A
FADE 20-4 / FADE 20-4 WHD	25 3/16	4 1/2	24 1/4	20	20 1/2	3/8	26	17 1/2	A
FADE 20-6 / FADE 20-6 WHD	25 3/16	4 1/2	24 1/4	20	20 1/2	3/8	26	17 1/2	A
FADE 22-6 / FADE 22-6 WHD	28 5/8	5 1/4	26 9/16	22	22 1/2	3/8	32	18 3/4	A
FADE 25-6 / FADE 25-6 WHD	31 3/4	6	29 1/2	25	25 1/2	3/8	32	18 3/4	A

Dimensional information is in inches.

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2SHE Series
Direct Drive Shutter Fans

- Airflow up to 8,225 cfm
- Speed-controllable (except for 30C1 and 36D1)
- Totally enclosed motors
- Shipped ready to install

Application
Shutter mounted exhaust fans are widely used for ventilating warehouses, stores, factories, workshops, greenhouses and farm buildings. Shutter frames with prepunched mounting holes allow for easy installation.

Design
Heavy duty guards comply with OSHA regulations. Totally enclosed, sleeve bearing motors.

Certification
Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type D – Ducted inlet, Ducted outlet. Performance rating includes the effects of guard and shutter.

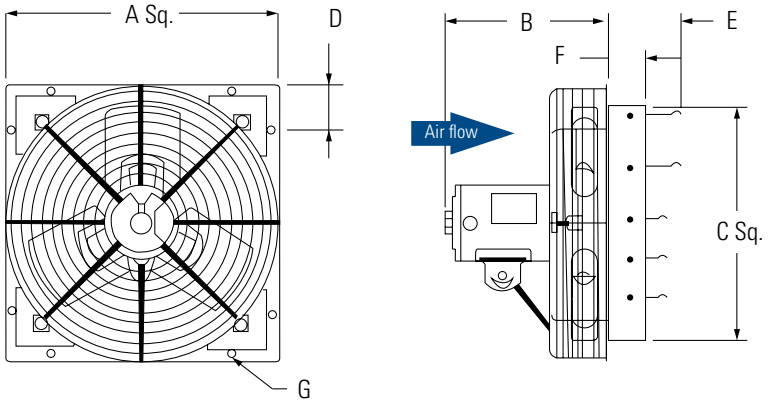
Specification data

Model	Rated power	Voltage / phase	RPM	Bearing type	Amperage full load	0.0" P_s	0.125" P_s	0.25" P_s	Sones @ 0.0" P_s	Shipping weight	Shipping class	Item #	MSRP
	HP	V / ~	min^{-1}		Amps	cfm				lbs			USD
2SHE 0721	1/30	120 / 1	1725	Sleeve	1.4	140	-	-	4.8	15	1	47096	151.-
2SHE 1021	1/30	120 / 1	1585	Sleeve	1.4	585	285	-	6.6	10	1	47097	153.-
2SHE 1221	1/30	120 / 1	1570	Sleeve	1.4	800	470	-	7.6	21	1	47098	162.-
2SHE 1621	1/20	120 / 1	1550	Sleeve	1.5	1095	720	-	8.0	19	1	47099	212.-
2SHE 1871	1/15	120 / 1	1075	Sleeve	1.2	1860	850	-	8.4	22	1	47100	278.-
2SHE 20B1W	1/4	120 / 1	1150	Sleeve	4.6	2830	2250	1235	11.3	39	2	47102	383.-
2SHE 24B1W	1/4	120 / 1	1150	Ball	3.7	3240	2485	1110	11.4	39	2	47103	430.-
2SHE 30C1*	1/3	120 / 1	850	Ball	4.4	6075	4195	2150	13.5	65	2	47104	547.-
2SHE 36D1*	1/2	120 / 1	850	Ball	5.6	8225	6480	2935	14.7	75	2	47105	623.-

Performance certified is for installation type A, Free Inlet, Free Outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of guard and shutter. The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A, Free Inlet hemi-spherical sone levels.

* Single speed motor

Dimensions



Model	A	B	C	D	E	F	G
2SHE 0721	11 1/8	4 15/16	8 1/2	3 9/16	5 3/4	3	1/4 x 1/2
2SHE 1021	13 1/8	5 7/16	10 1/2	10 1/2	5 3/4	3	1/4 x 1/2
2SHE 1221	15 1/8	6	13	3 9/16	5 3/4	3	1/4 x 1/2
2SHE 1621	19 1/8	6 13/16	17	10 1/2	5 3/4	3	1/4 x 1/2
2SHE 1871	21 1/8	8 1/2	18 1/2	3 9/16	5 3/4	3	1/4 x 1/2
2SHE 20B1W	23 1/8	10 3/4	21	10 1/2	5 3/4	3	1/4 x 1/2
2SHE 24B1W	27 1/8	9 3/4	25	3 9/16	5 3/4	3	1/4 x 1/2
2SHE 30C1	33 1/8	13 11/32	31	10 1/2	5 3/4	3	1/4 x 1/2
2SHE 36D1	39 1/8	13 1/8	37	10 1/2	5 3/4	3	1/4 x 1/2

Dimensional information is in inches.

Accessories

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FTD 7
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2VLD Series

Direct Drive Medium Duty Propeller Fans

- Airflow up to 3,455 cfm
- Speed-controllable
- Shipped ready to install
- Totally enclosed, sleeve bearings

Application

Medium duty exhaust fans are designed for general ventilation in dusty, dirty and grease or moisture-laden environments.

Design

Deep drawn steel venturi frame for maximum performance. Wire guards comply with OSHA regulations. Totally enclosed, sleeve bearing motor.

Certification

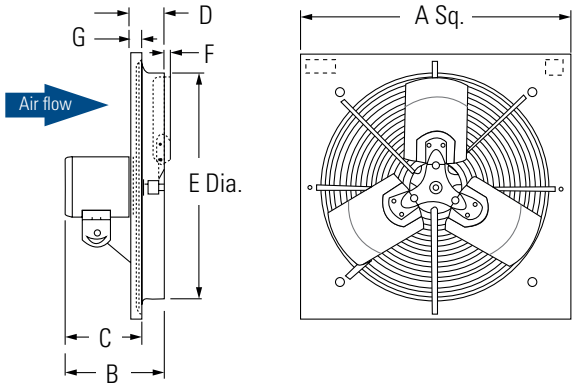
Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance rating includes the effects of shutter and guard.

Specification data

Model	Rated power	Voltage / phase	Amperage full load	RPM	0.0" P_s	0.125" P_s	0.25" P_s	0.375" P_s	Sones @ 0.125" P_s	Shipping weight	Shipping class	Item #	MSRP
	HP	V / ~	Amps	min^{-1}	cfm					lbs			USD
2VLD 1221	1/30	120 / 1	1.4	1550	845	665	315	-	7.8	14	1	47114	157.-
2VLD 1661	1/20	120 / 1	1.6	1520	1170	885	560	-	13.6	18	1	47115	207.-
2VLD 18B1	1/4	120 / 1	3.9	1150	2500	2130	1590	1025	10.4	28	1	47116	330.-
2VLD 20B1	1/4	120 / 1	4.9	1165	3440	2995	2310	1450	12.5	36	2	47117	369.-
2VLD 24B1	1/4	120 / 1	4.1	1150	3455	2985	2410	1580	12.8	36	2	47118	452.-

Performance certified is for installation type A: Free Inlet, Free Outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of shutter and guard. The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A, hemispherical sone levels.

Dimensions



Model	A	B	C	D	E	F	G
2VLD 1221	16	5 3/16	3 11/16	2 1/2	12 3/8	3/4	1
2VLD 1661	20	6 3/16	4 7/16	2 3/4	16 7/16	9/16	1
2VLD 18B1	22	8	6 1/16	2 15/16	18 7/16	1 1/2	1
2VLD 20B1	24	9 5/8	7 1/2	3 3/16	20 1/2	11/16	1
2VLD 24B1	28	8 1/2	6	3 5/8	24 3/8	1/2	1

Dimensional information is in inches.

Accessories

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Wall Damper
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5ACC.. MS
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FAT 10
Thermostat
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FTD 7
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FH 20
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1SDE Series

Standard Duty Exhaust Wall Fans

- Airflow up to 29,550 cfm
- Vertical/horizontal mounting options
- Rolled venturi for maximum air performance
- Final assembly on site (motor drive pack shipped loose)
- All models are Shipping class 2

Application

Standard duty belt drive exhaust wall fans are designed to move large volumes of air quickly at relatively low static pressures. They are ideal for light to medium duty applications such as warehouses, factories, parking garages, greenhouses, barns, mechanical rooms, gymnasiums, laundries and boiler rooms.

Design

Five-blade steel propeller. Deep drawn steel venturi frame for maximum performance. Self-aligning and pre-lubricated ball bearings. 1" Shaft stepped down to 7/8" to match blade sheaves. Tubular steel supports designed for rigid construction. Adjustable motor mounts permitting easy belt adjustment.

Certification

All ventilators are listed UL 705 for electrical.

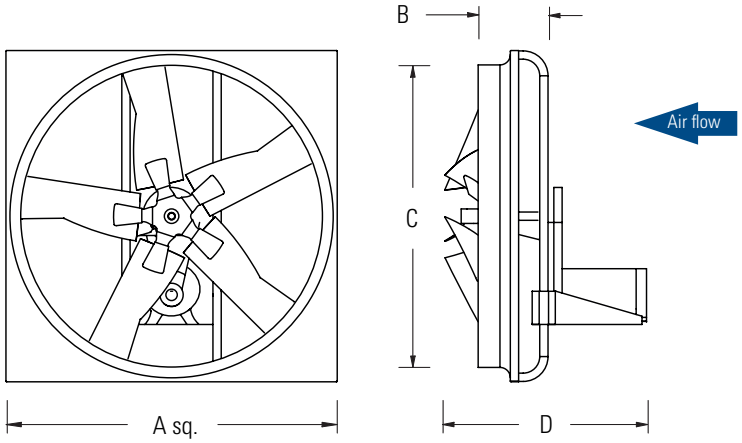
Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance rating includes the effects of shutter and guard.

Specification data

Model	Rated power	RPM	Max BHP	0.0" P_s	0.125" P_s	0.25" P_s	0.375" P_s	Sones† @ 0.125" P_s	Shipping weight	Motor type	Item #	MSRP	Motor type	Item #	MSRP
	HP			cfm					lbs	115 / 208-230, 1~		USD	208-230 / 460, 3~		USD
1SDE 24	1/4	650	0.32	5120	4195	2160	-	12.7	37	BB	K45525	657.-	-	-	-
	1/3	710	0.44	5595	4775	2830	1650	13.6	37	CB	K45526	666.-	-	-	-
	1/2	835	0.66	6580	5910	4970	3100	16.7	37	DB	K45527	709.-	DX	K45549	705.-
	3/4	945	0.93	7445	6870	6200	4800	19.2	37	EB	K45528	728.-	EX	K45550	710.-
1SDE 30	1/4	470	0.27	6895	4950	-	-	14.1	44	BB	K45529	689.-	-	-	-
	1/3	500	0.35	7335	5605	2320	-	14.3	44	CB	K45530	705.-	-	-	-
	1/2	585	0.52	8585	7305	4750	-	16.1	44	DB	K45531	735.-	DX	K45551	685.-
	3/4	670	0.80	9830	8805	7120	4130	17.7	44	EB	K45532	753.-	EX	K45552	696.-
	1	720	0.96	10565	9615	8205	5945	19.5	44	FB	K45533	821.-	FX	K45553	696.-
1SDE 36	1/3	415	0.38	10160	7590	-	-	14.1	54	CB	K45534	759.-	-		
	1/2	485	0.62	11875	9915	5045	-	18.1	54	DB	K45535	783.-	DX	K45554	726.-
	3/4	540	0.88	13220	11490	8565	4215	22.0	54	EB	K45536	792.-	EX	K45555	740.-
	1	605	1.20	14815	13300	11415	6600	26.0	54	FB	K45537	801.-	FX	K45556	742.-
	1 1/2	660	1.53	16160	14805	13215	10400	30.0	54	GB	K45538	870.-	GX	K45557	748.-

† Performance certified is for installation type A: Free inlet, Free outlet. Speed (RPM) shown is nominal. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A, hemispherical sone levels.

Dimensions



Model	A	B	C	D	Venturi gauge	Shaft Dia
1SDE 24	28	7 1/8	24 3/8	23 1/4	18	7/8
1SDE 30	34	8 3/4	30 1/2	24 1/4	18	7/8
1SDE 36	40	8 7/16	36 1/2	26 1/4	18	7/8
1SDE 42	46	9 1/16	42 3/4	29 1/4	18	7/8
1SDE 48	54	9 3/4	48 3/4	32 1/8	18	7/8

Dimensional information is in inches.

Specification data (cont.)

Model	Rated power	RPM	Max BHP	0.0" P_s	0.125" P_s	0.25" P_s	0.375" P_s	Sones† @ 0.125" P_s	Shipping weight	Motor type	Item #	MSRP	Motor type	Item #	MSRP
	HP			cfm					lbs	120 / 208-230, 1~		USD	208-230 / 460, 3~		USD
1SDE 42	1/2	380	0.57	14515	11040	-	-	15.4	66	DB	K45539	811.-	DX	K45558	880.-
	3/4	430	0.79	16425	13670	6645	-	18.9	66	EB	K45540	898.-	EX	K45559	889.-
	1	460	1.04	17570	15045	8350	4855	21.0	66	FB	K45541	937.-	FX	K45560	870.-
	1 1/2	535	1.51	20435	18345	15480	8530	27.0	66	GB	K45542	998.-	GX	K45561	868.-
1SDE 48	1/2	315	0.49	17060	10790	-	-	15.3	80	DB	K45543	821.-	DX	K45562	909.-
	3/4	370	0.83	20040	15900	6450	-	21.0	80	EB	K45544	885.-	EX	K45563	913.-
	1	400	1.16	21665	18120	8860	3465	23.0	80	FB	K45545	957.-	FX	K45564	911.-
	1 1/2	450	1.50	24375	21345	15700	7640	28.0	80	GB	K45546	1,020.-	GX	K45565	907.-
	2	470	1.67	25455	22575	17615	9275	30.0	80	-	-	-	HX	K45547	1,168.-
	3	499	3.61	26875	24500	20500	12375	25.0	80	-	-	-	JX	K45548	1,354.-

† Performance certified is for installation type A: Free inlet, Free outlet. Speed (RPM) shown is nominal. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A, hemispherical sone levels.

Accessories

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Motorized Damper
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1ACC.. SG
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1ACC.. WC
Wall Collar
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1WMC Series
Wall Mount Cabinet Exhaust Fans

- Airflow up to 23,295 cfm
- High-efficiency propellers
- Variable pitch sheaves allow reduction of CFM
- Maximum inlet temperature is 120°F

Application
Wall Mount Cabinet Exhaust fans are designed for use with light to medium duty applications such as greenhouses, factories and warehouses.

Design
The fan housing is manufactured from galvanized steel. Propellers are powder-coated. Each unit is shipped fully assembled with wall collar, guard and damper for easy installation.

Certification
All ventilators are listed UL 705 for electrical.

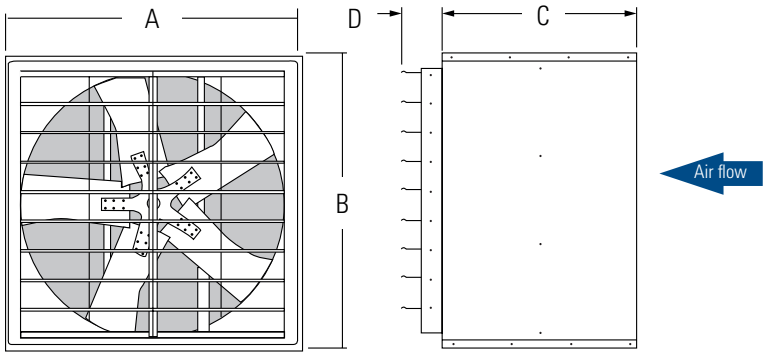
Fantech, Inc. certifies that the models shown are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A- Free inlet, Free outlet. Performance ratings include the effects of shutter and guard.

Specification data

Model	Rated power	Voltage / phase	RPM	Max BHP#	0.0" P_s	0.125" P_s	0.25" P_s	Sones† @ 0.125" P_s	Shipping weight	Shipping class	Item #	MSRP
	HP	V / ~	min^{-1}		cfm				lbs			USD
1WMC 24D2	1/2	120 / 1	800	0.56	5230	4410	3530	16.1	141	2	47065	1,008.-
1WMC 30E2	3/4	120 / 1	680	0.81	8645	7430	5835	16.7	169	2	47066	1,180.-
1WMC 30FY	1	208-230/460 / 3	750	1.09	9535	8455	7130	22.0	176	2	47457	1,170.-
1WMC 36F2	1	120 / 1	585	1.21	12650	10648	7602	20.0	202	2	47067	1,346.-
1WMC 36GY	1-1/2	208-230/460 / 3	677	1.53	14345	12880	11160	26.0	204	2	47068	1,343.-
1WMC 42GY	1-1/2	208-230/460 / 3	530	1.42	17540	14745	10800	22.0	252	2	47070	1,515.-
1WMC 48HY	2	208-230/460 / 3	480	1.82	23295	20310	14720	25.0	305	2	47072	1,755.-

Performance certified is for installation type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include transmission losses.Performance ratings include the effects of shutter and guard.
† The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.

Dimensions



Model	A	B	C	D (max)
1WMC 24D2	28 1/4	28 1/4	24 1/4	6
1WMC 30E2	34 1/4	34 1/4	25 1/4	6
1WMC 30FY	34 1/4	34 1/4	25 1/4	6
1WMC 36F2	40 1/4	40 1/4	26 1/4	6
1WMC 36GY	40 1/4	40 1/4	28 1/4	6
1WMC 42GY	46 1/4	46 1/4	28 1/4	6
1WMC 48HY	54 1/4	54 1/4	47 3/4	6

Dimensional information is in inches.

Accessories

1ACC.. WH
Weatherhood
page 274

1ACC.. MD
Motorized Damper
page 275

5ACC.. MS
Motor Disconnect
page 261

AC Series

Air Curtains for light commercial applications

Application

Installing an air curtain above the door or window adds a "barrier" in that opening. Air curtains reduce heat loss/heat gain, improving energy efficiency by reducing the load on the buildings HVAC system while effectively maintaining a comfortable air temperature indoors. Multiple units can be positioned end to end to cover unlimited widths.

Design

Thanks to compact design and air intake at the front, the AC Series air curtain can be mounted where space is limited between the ceiling and the upper edge of the doorway. The AC Series has a simple connection making it possible to easily link units together in order to cover wide openings.

Certification

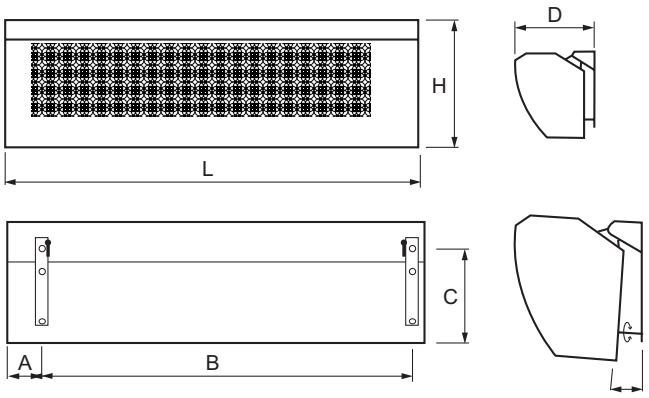
c UL us

- Length of airstream up to 9 feet
- Quiet design
- Horizontal mounting
- Simple to install, operate, and maintain

Specification data

Model	Voltage / phase	Max amps*	Airflow min/max	Air Velocity max	Sound Level	Shipping weight	Shipping class	Item #	MSRP
	V / ~	A	cfm	fpm	db (A)	lbs			USD
AC 3600/1	120	1.2	590/795	2018	44/53	24	2	411131	864.-
AC 4800/1	120	1.3	765/1000	2400	45/54	29	2	411130	912.-

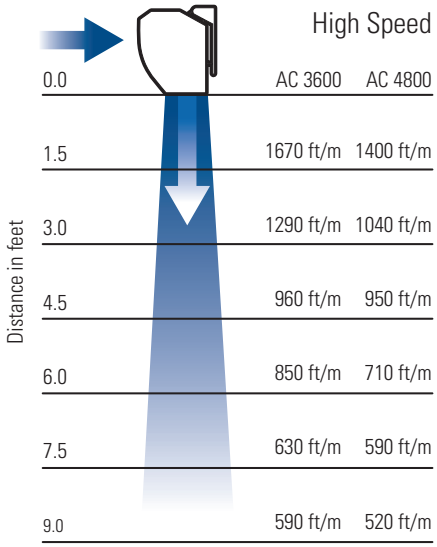
Dimensions



Model	A	B	C	D	H	L
AC 3600	3 3/4	30 1/4	8 1/2	8 1/2	9 1/4	36
AC 4800	3 3/4	42 1/2	8 1/2	8 1/2	9 1/4	48

Dimensional information is in inches.

Air velocity



Accessories

AS DS
Door Switch
page 261

EPD Series

Low Grain Industrial Dehumidifiers

- Low temperature operation to 40^0 F
- Electronic controls for precise, convenient setup
- Digital hour meter for recording job times
- 36 3/4 (h) x 23 1/2 (d) x 18 (w)

Application

The EPD Series of portable dehumidifiers is one of the most effective and versatile drying devices available in the US today. Quiet, efficient, portable and reliable, the EPD Series provides exceptional performance across the full range of jobsite conditions. Engineered for the heavy demands of job site humidity control and water damage restoration, our unit's rugged rotomolded housing and durable construction makes the EPD Series dehumidifier a top choice for professionals everywhere.

How it works

Low temperature operation to 40^{0}F allows moisture to be removed from the air at lower humidity levels than is the current standard. When you combine this performance with, convenient setup and simple operation and electronic controls for precise measurement, it is clear to see why the EPD Series is considered the ultimate in low grain refrigerant dehumidification.

Certification

Specification data

Model	Voltage / phase	Maximum amperage	Average airflow	Capacity at saturation	Capacity at 80^{0}F, 60% RH	Temperature range	Refrigeration system	Compressor type	Shipping weight	Shipping class	Item #	List price
	V / ~	A	cfm	pints per day	pints per day	^{0}F			lbs			USD
EPD 150LR	120 / 1	8.7	300	150	75	40... 95	Low Grain	Rotary	90	1	412951	2,186.-
EPD 180CR	120 / 1	11.3	300	190	95	40... 95	Low Grain	Rotary	90	1	412952	2,221.-
EPD 190LR	120 / 1	8.7	300	180	90	40... 95	Standard	Rotary	90	1	412953	2,245.-
EPD 250CR	120 / 1	11.3	300	250	125	40... 95	Standard	Rotary	90	1	412954	2,292.-

GDC and GD Series

Heavy and Light Duty Dehumidifiers

Application

These steel dehumidifiers are great for flood recovery and restoration in both commercial and industrial environments. Durable steel cabinet housing withstands heavy use. These dehumidifiers offer 40°F to 95°F operating temperature range. Models include 20' drainage hose and washable air filters.

Models

GDC Series

Heavy Duty

This Series provides up to 235 CFM with 1-speed fan. Includes dual tubular steel handles and 2 large axle mounted wheels that allow stacking for easy transport and compact storage. Series feature built-in condensate pump with 20' lift, hour counter and internal cord storage.

- Stacks for easy transport and compact storage
- Two large axle mounted wheel
- Built-in condensate pump
- Washable filters
- IPX 2 Rating
- 6 9/16 (h) x 23 13/16 (d) x 22 (w)

GD 55S

Light Duty

This model provides up to 325 cfm with 2-speed fan. Includes a dehumidistat and overflow protection with an indicator light. The steel cabinet is painted black. Equipped with fold down handle and 4 casters.

- Durable steel housing
- Removeable 21 pint bucket
- Adjustable humidistat
- Washable filters
- 21 (h) x 18 (d) x 13 1/2 (w)

Certification

C SA US

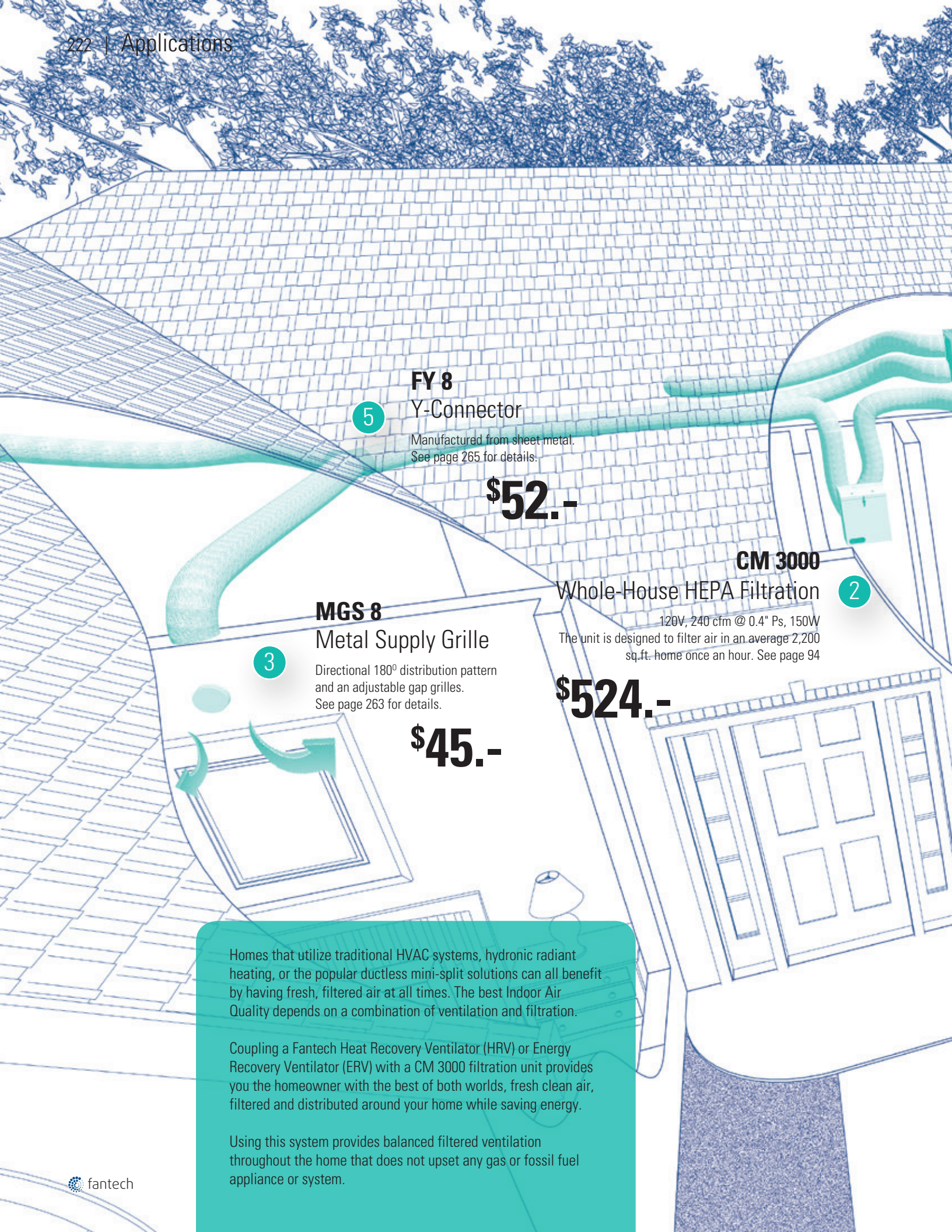
Specification data

Model	Voltage / phase	Maximum amperage	Average airflow	Capacity at saturation	Capacity at 80°F, 60% RH	Temperature range	Refrigeration system	Compressor type	Shipping weight	Shipping class	Item #	List price
	V / ~	A	cfm	pints	pints	°F			lbs			USD
GDC 124CS	120 / 1	5.9	235	124	60	40... 95	R410A / 12 oz	Rotary	90	1	405263	1,417.-
GDC 124CSS	120 / 1	5.9	235	124	60	40... 95	R410A / 12 oz	Rotary	90	1	405264	1,595.-
GD 55S	120 / 1	5.0	325	101	53	40... 95	R410A / 12 oz	Rotary	50	1	412942	768.-

James McAllister,
Material Handler

"Wherever you start your career at Systemair, it's up to you where you end up. You can move between roles and even countries, if you like. Systemair encourages you to explore your talents and develop new skills. Your ideas will still travel if you prefer to stay put. We help people enjoy the best, healthiest indoor air all around the world and live a better life. With this thought, the career is worth planning. When can you start?"

CAREERS FILLED WITH OPPORTUNITIES



5

FY 8

Y-Connector

Manufactured from sheet metal.
See page 265 for details.

$52.-

CM 3000

Whole-House HEPA Filtration

2

120V, 240 cfm @ 0.4" Ps, 150W
The unit is designed to filter air in an average 2,200 sq.ft. home once an hour. See page 94

$524.-

3

MGS 8

Metal Supply Grille

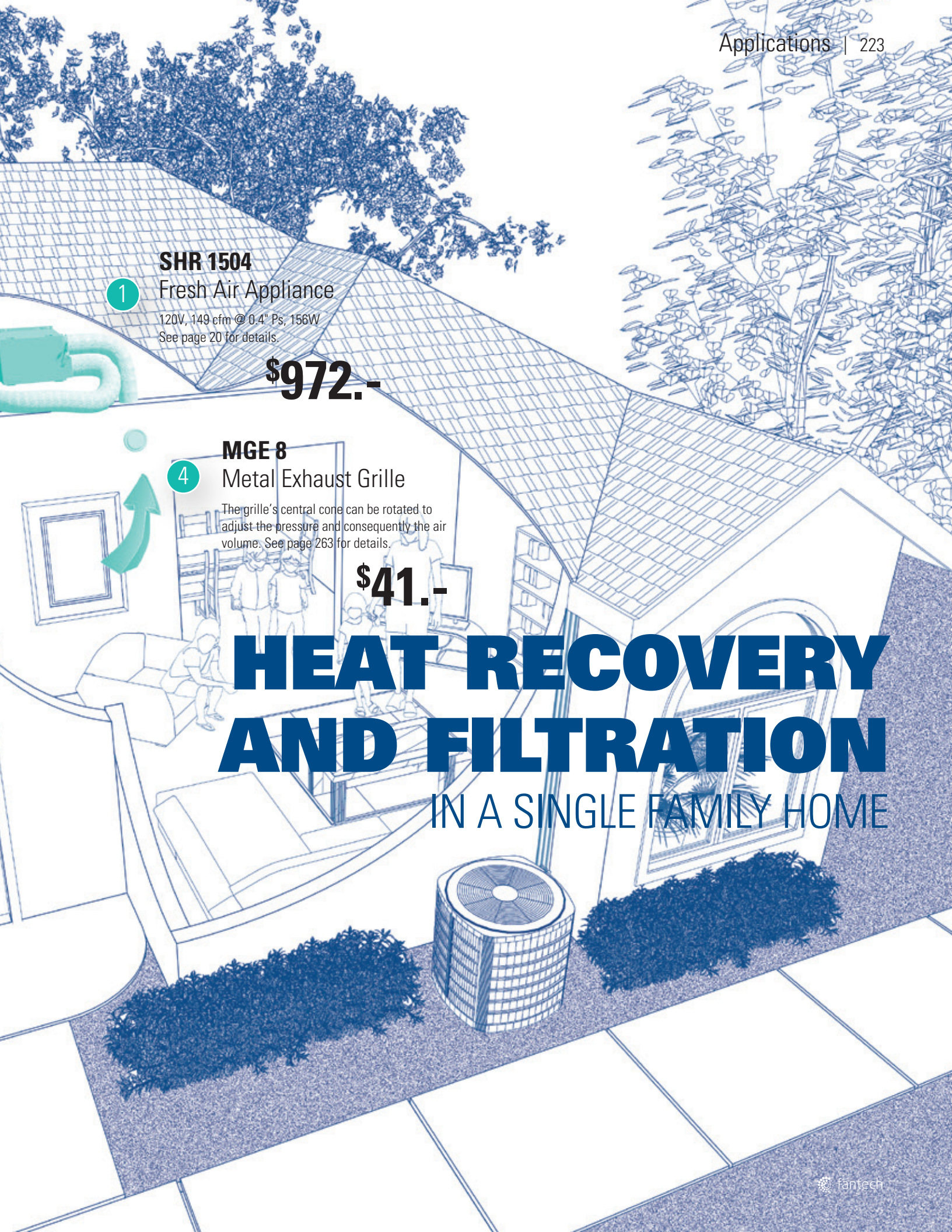
Directional 180^0 distribution pattern and an adjustable gap grilles.
See page 263 for details.

$45.-

Homes that utilize traditional HVAC systems, hydronic radiant heating, or the popular ductless mini-split solutions can all benefit by having fresh, filtered air at all times. The best Indoor Air Quality depends on a combination of ventilation and filtration.

Coupling a Fantech Heat Recovery Ventilator (HRV) or Energy Recovery Ventilator (ERV) with a CM 3000 filtration unit provides you the homeowner with the best of both worlds, fresh clean air, filtered and distributed around your home while saving energy.

Using this system provides balanced filtered ventilation throughout the home that does not upset any gas or fossil fuel appliance or system.



1 **SHR 1504**
Fresh Air Appliance

120V, 149 cfm @ 0.4" Ps, 156W
See page 20 for details.

$972.-

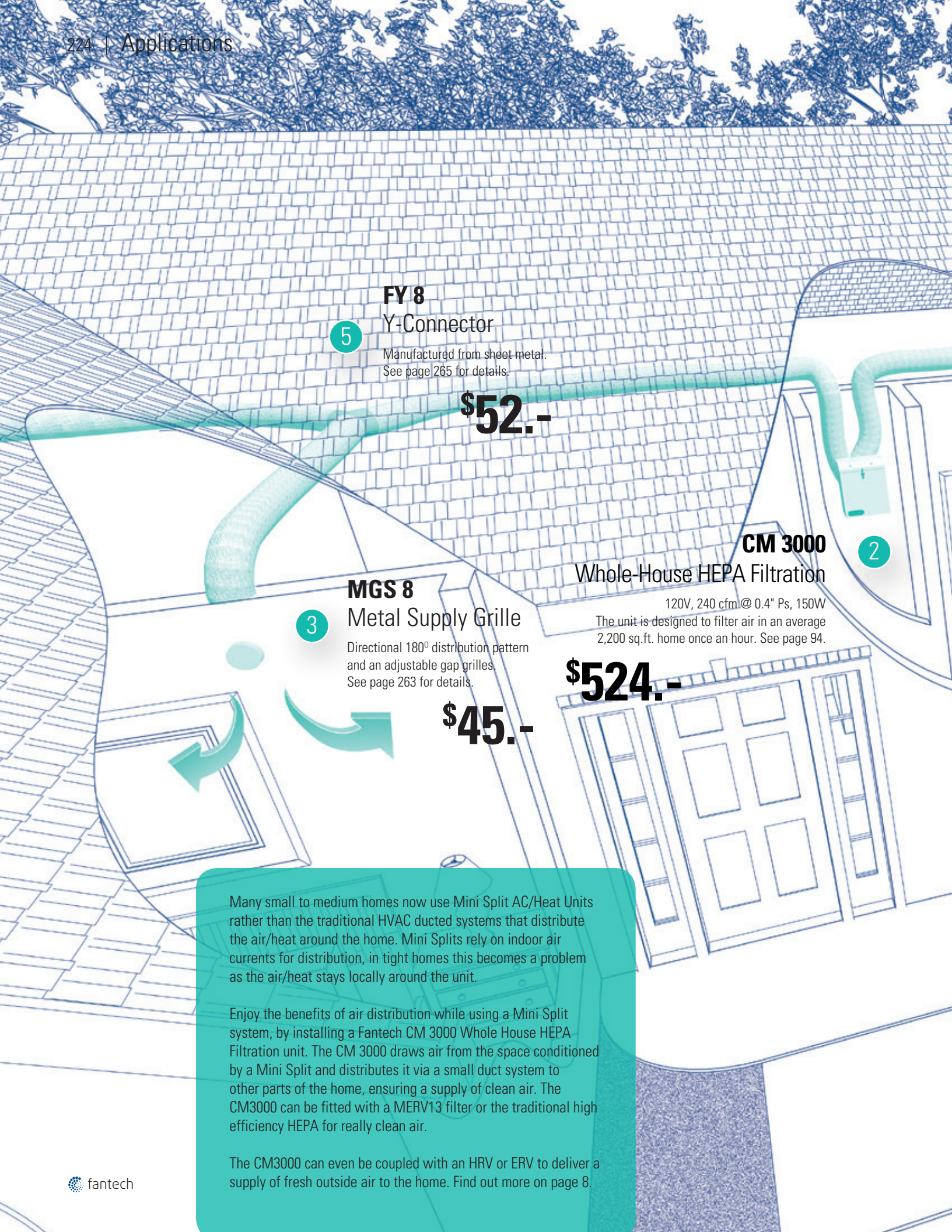
4 **MGE 8**
Metal Exhaust Grille

The grille's central cone can be rotated to adjust the pressure and consequently the air volume. See page 263 for details.

$41.-

HEAT RECOVERY AND FILTRATION

IN A SINGLE FAMILY HOME



5

FY 8
Y-Connector

Manufactured from sheet metal.
See page 265 for details.

$52.-

2

CM 3000
Whole-House HEPA Filtration

120V, 240 cfm @ 0.4" Ps, 150W
The unit is designed to filter air in an average 2,200 sq.ft. home once an hour. See page 94.

$524.-

3

MGS 8
Metal Supply Grille

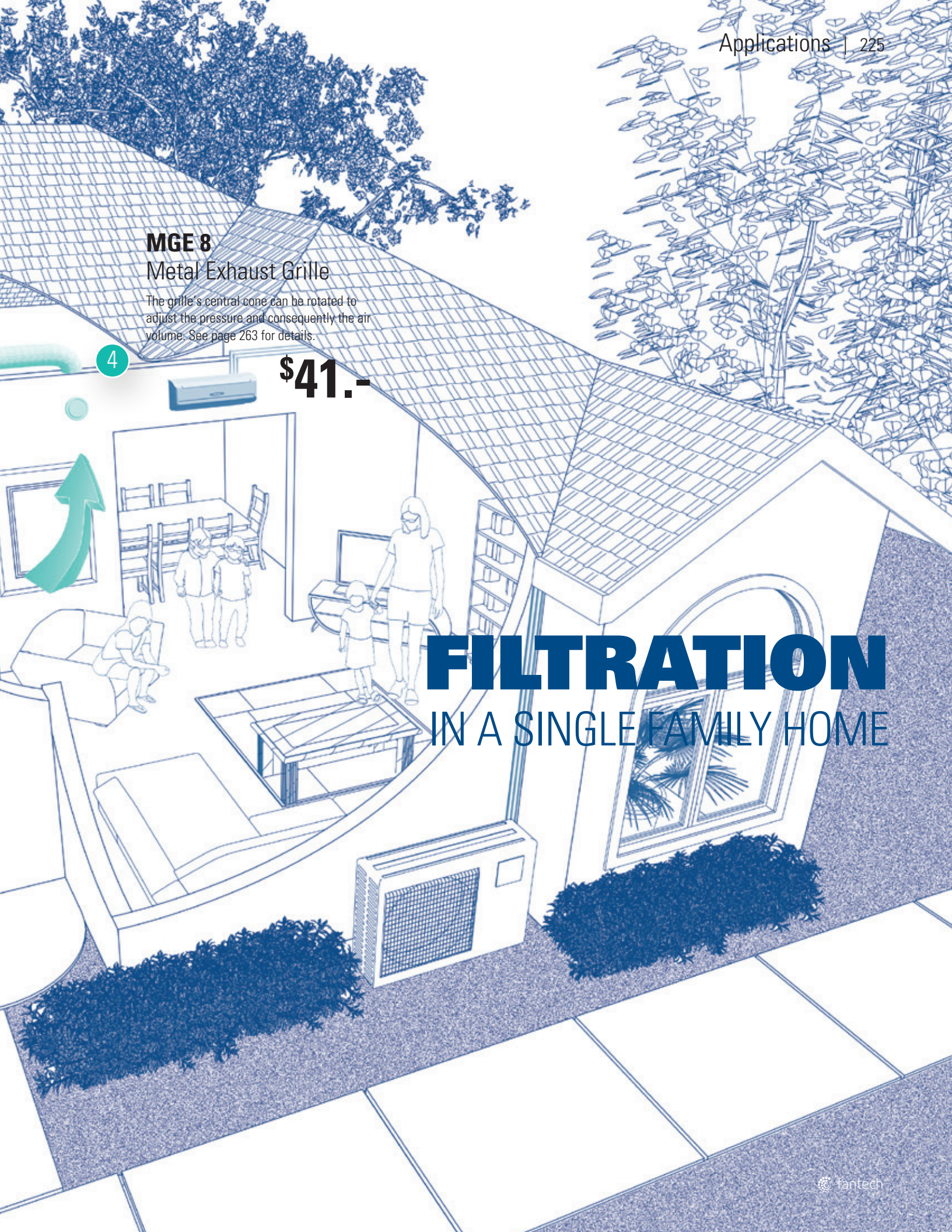
Directional 180⁰ distribution pattern and an adjustable gap grilles.
See page 263 for details.

$45.-

Many small to medium homes now use Mini Split AC/Heat Units rather than the traditional HVAC ducted systems that distribute the air/heat around the home. Mini Splits rely on indoor air currents for distribution, in tight homes this becomes a problem as the air/heat stays locally around the unit.

Enjoy the benefits of air distribution while using a Mini Split system, by installing a Fantech CM 3000 Whole House HEPA Filtration unit. The CM 3000 draws air from the space conditioned by a Mini Split and distributes it via a small duct system to other parts of the home, ensuring a supply of clean air. The CM3000 can be fitted with a MERV13 filter or the traditional high efficiency HEPA for really clean air.

The CM3000 can even be coupled with an HRV or ERV to deliver a supply of fresh outside air to the home. Find out more on page 8.



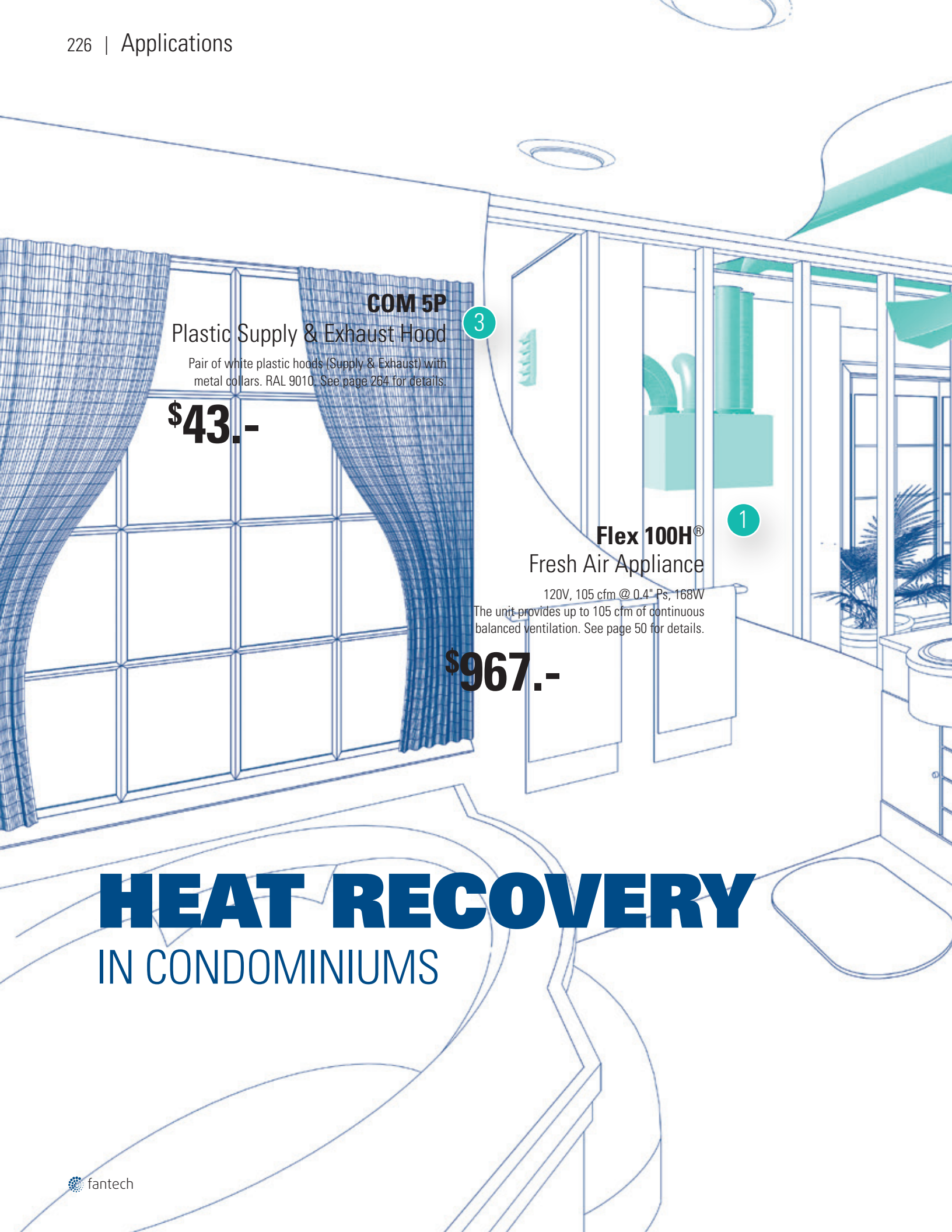
MGE 8
Metal Exhaust Grille

The grille's central cone can be rotated to adjust the pressure and consequently the air volume. See page 263 for details.

4

$41.-

FILTRATION
IN A SINGLE FAMILY HOME



COM 5P

Plastic Supply & Exhaust Hood

3

Pair of white plastic hoods (Supply & Exhaust) with metal collars. RAL 9010. See page 264 for details.

$43.-

Flex 100H®

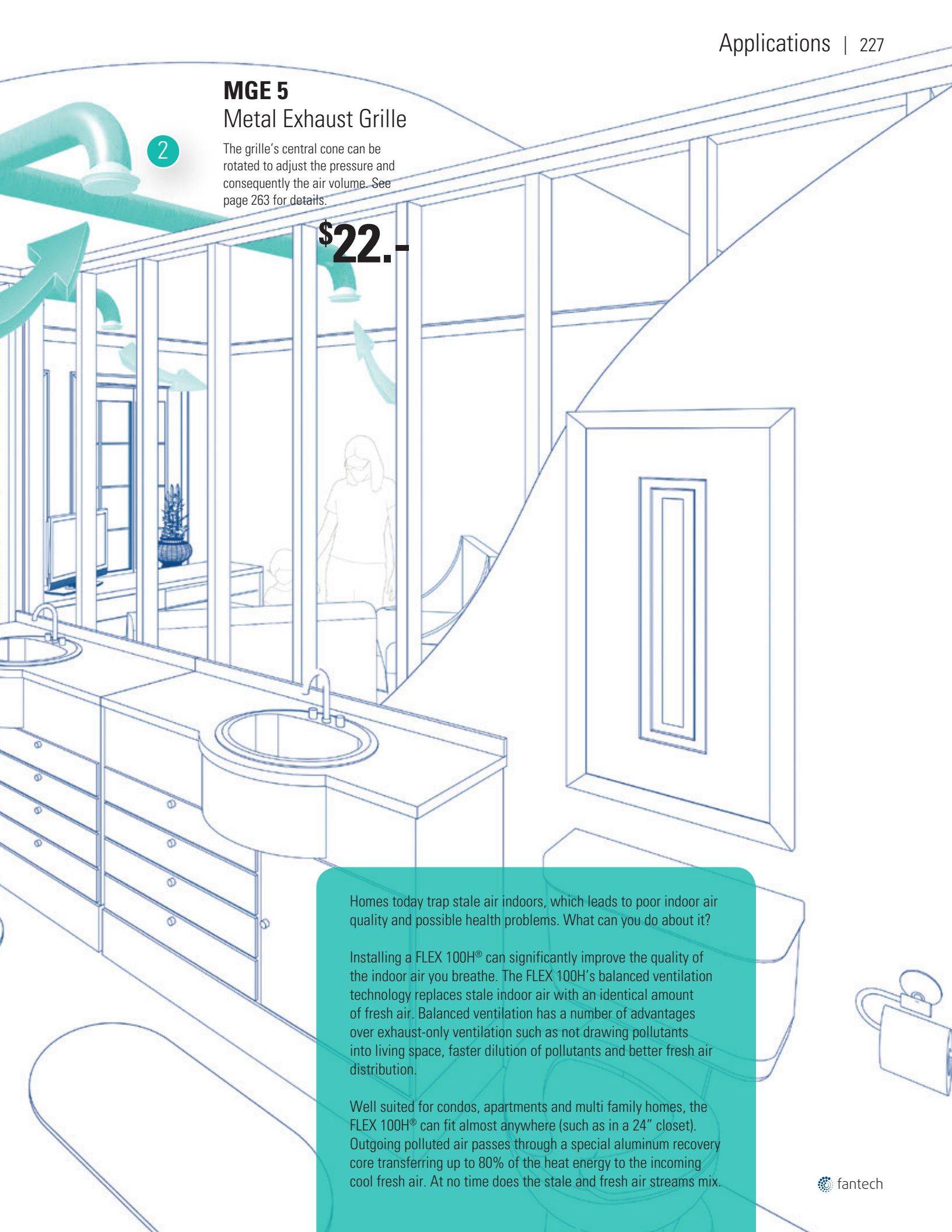
Fresh Air Appliance

1

120V, 105 cfm @ 0.4" Ps, 168W
The unit provides up to 105 cfm of continuous balanced ventilation. See page 50 for details.

$967.-

HEAT RECOVERY
IN CONDOMINIUMS



2

MGE 5
Metal Exhaust Grille

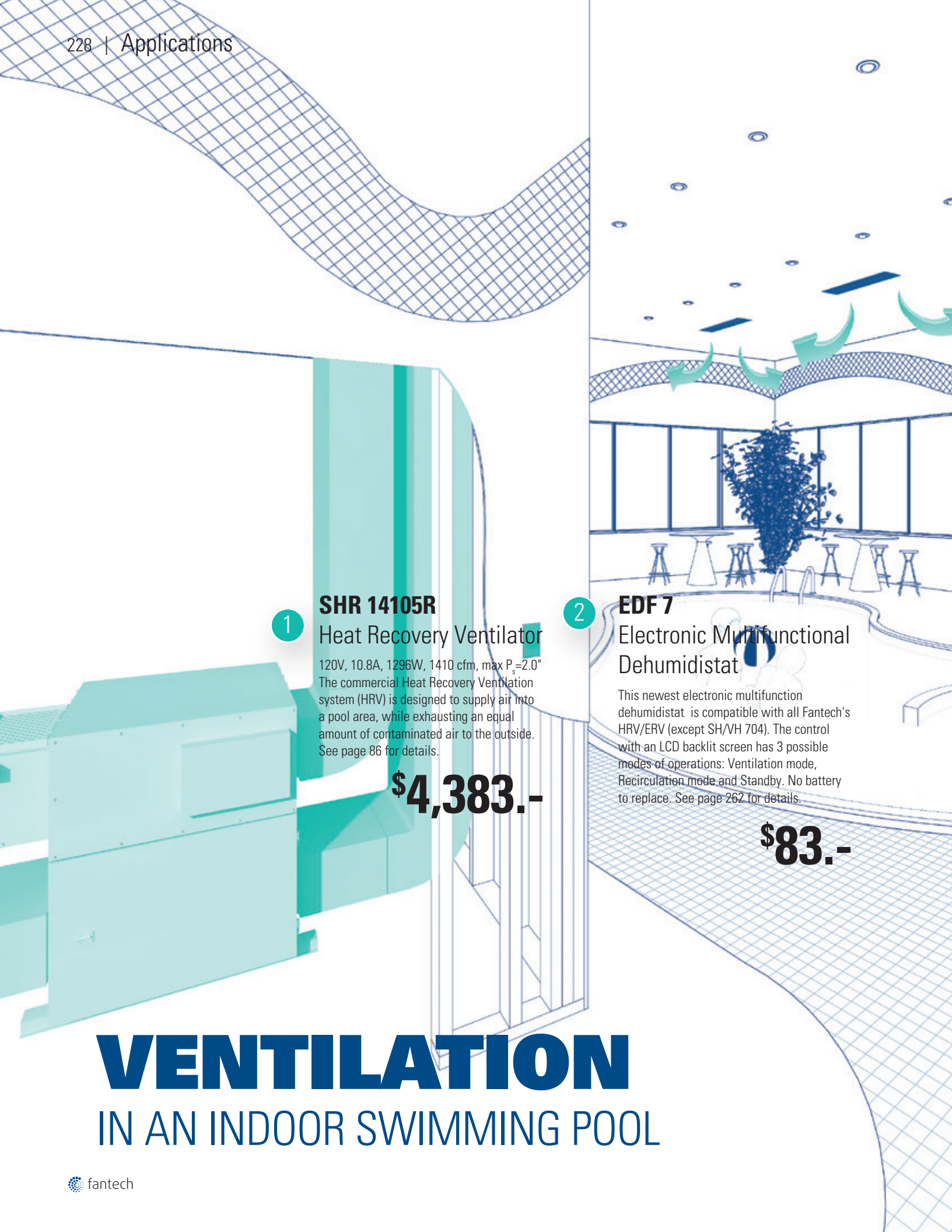
The grille's central cone can be rotated to adjust the pressure and consequently the air volume. See page 263 for details.

$22.-

Homes today trap stale air indoors, which leads to poor indoor air quality and possible health problems. What can you do about it?

Installing a FLEX 100H® can significantly improve the quality of the indoor air you breathe. The FLEX 100H's balanced ventilation technology replaces stale indoor air with an identical amount of fresh air. Balanced ventilation has a number of advantages over exhaust-only ventilation such as not drawing pollutants into living space, faster dilution of pollutants and better fresh air distribution.

Well suited for condos, apartments and multi family homes, the FLEX 100H® can fit almost anywhere (such as in a 24" closet). Outgoing polluted air passes through a special aluminum recovery core transferring up to 80% of the heat energy to the incoming cool fresh air. At no time does the stale and fresh air streams mix.



1

SHR 14105R

Heat Recovery Ventilator

120V, 10.8A, 1296W, 1410 cfm, max P_s=2.0"
The commercial Heat Recovery Ventilation system (HRV) is designed to supply air into a pool area, while exhausting an equal amount of contaminated air to the outside. See page 86 for details.

$4,383.-

2

EDF 7

Electronic Multifunctional Dehumidistat

This newest electronic multifunction dehumidistat is compatible with all Fantech's HRV/ERV (except SH/VH 704). The control with an LCD backlit screen has 3 possible modes of operations: Ventilation mode, Recirculation mode and Standby. No battery to replace. See page 262 for details.

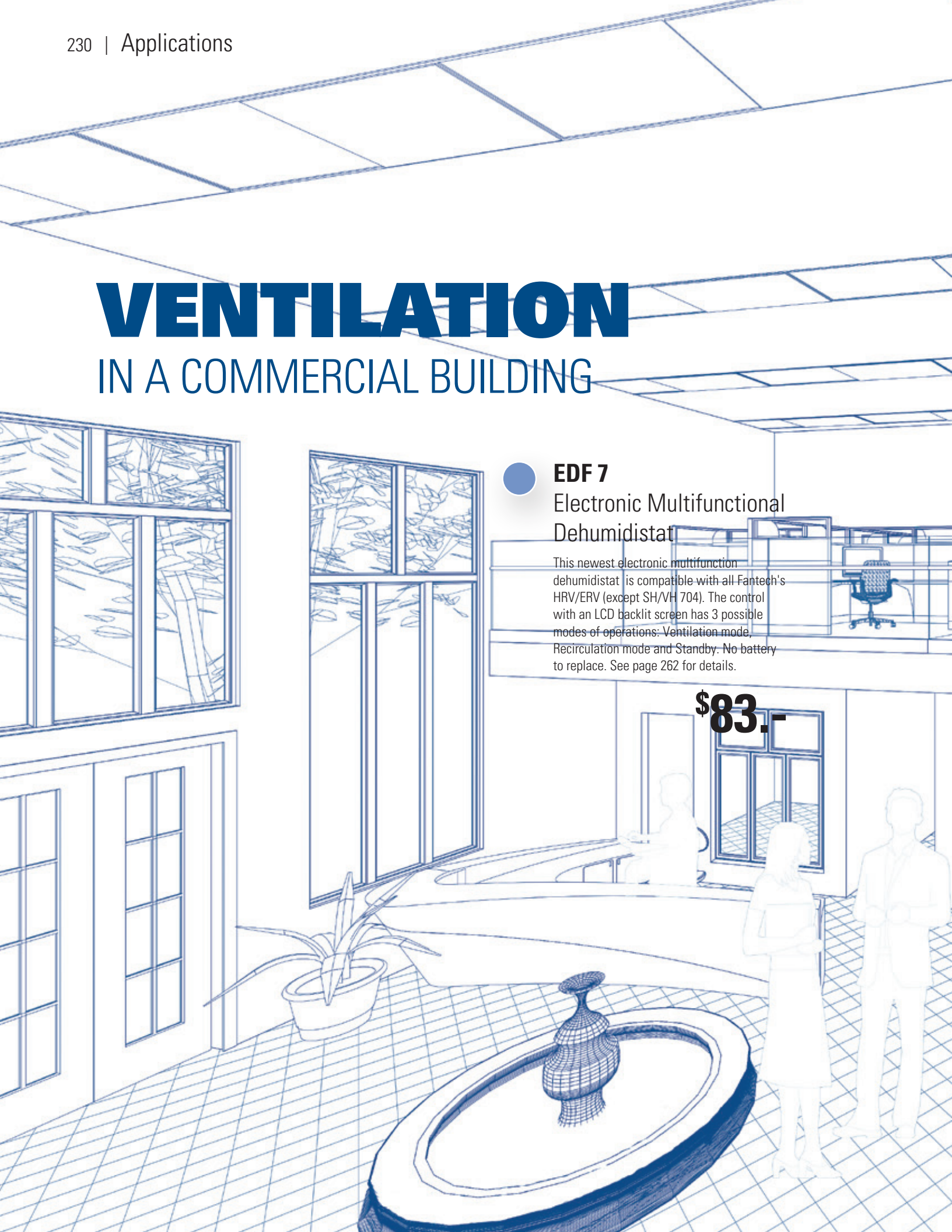
$83.-

VENTILATION
IN AN INDOOR SWIMMING POOL

An indoor pool can be a lot of fun, if ventilated and dehumidified properly. The complex environment needs constant care and maintenance. Ventilation plays a significant role in occupant comfort and asset protection.

Using a Fantech Heat Recovery Ventilator provides an economical, energy saving solution to pool ventilation and dehumidification in climates where the air is dryer outside than inside. Heat from the exhaust air is transferred to the incoming cooler air raising the temperature and lowering the load on the HVAC system. The unit is designed to reduce the occurrence of condensation in the indoor environment by first operating in the recirculation mode, moving air around the structure, keeping windows dry and eliminating troublesome cold spots, then switching to air exchange mode as needed.

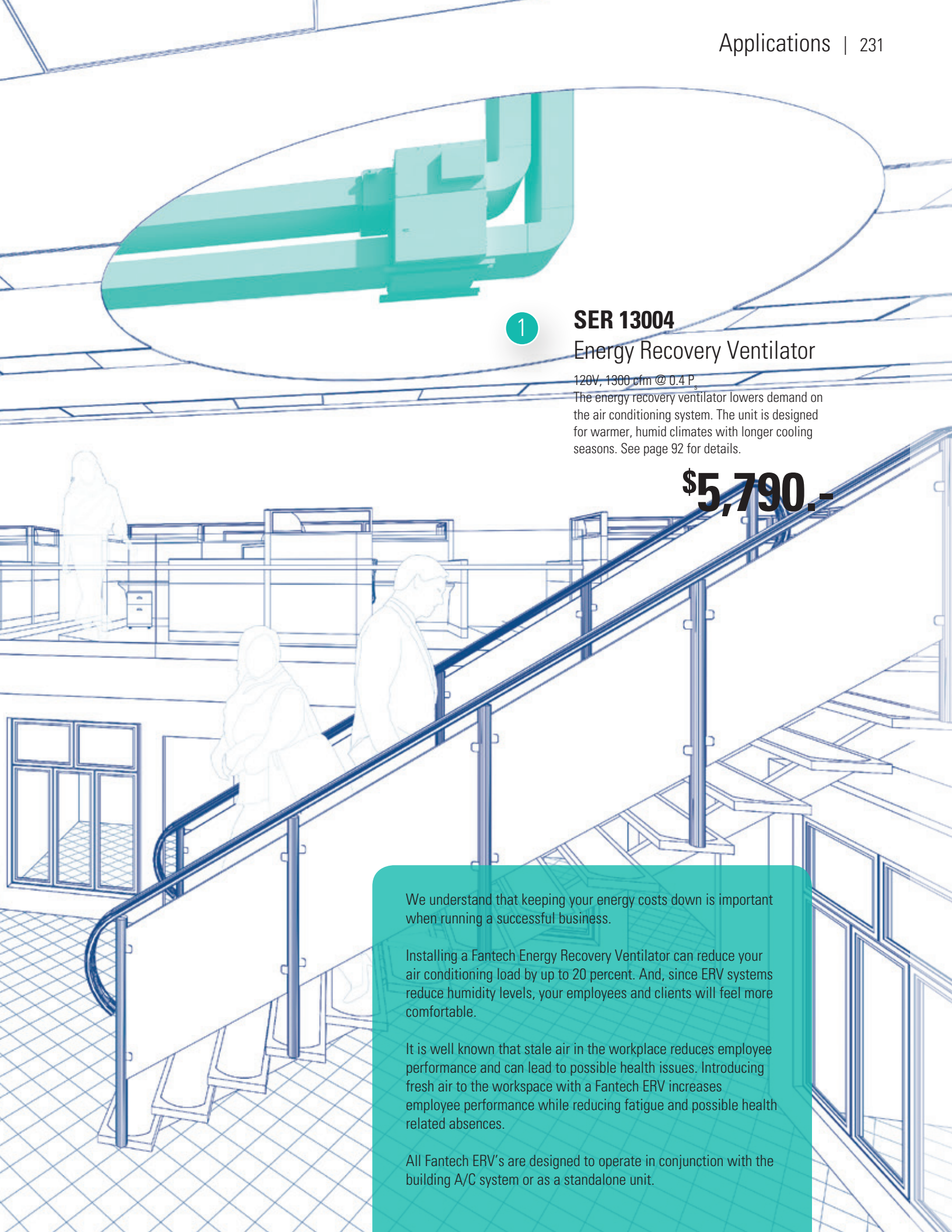
VENTILATION
IN A COMMERCIAL BUILDING



EDF 7
Electronic Multifunctional Dehumidistat

This newest electronic multifunction dehumidistat is compatible with all Fantech's HRV/ERV (except SH/VH 704). The control with an LCD backlit screen has 3 possible modes of operations: Ventilation mode, Recirculation mode and Standby. No battery to replace. See page 262 for details.

$83.-



1

SER 13004

Energy Recovery Ventilator

120V, 1300 cfm @ 0.4 P_s

The energy recovery ventilator lowers demand on the air conditioning system. The unit is designed for warmer, humid climates with longer cooling seasons. See page 92 for details.

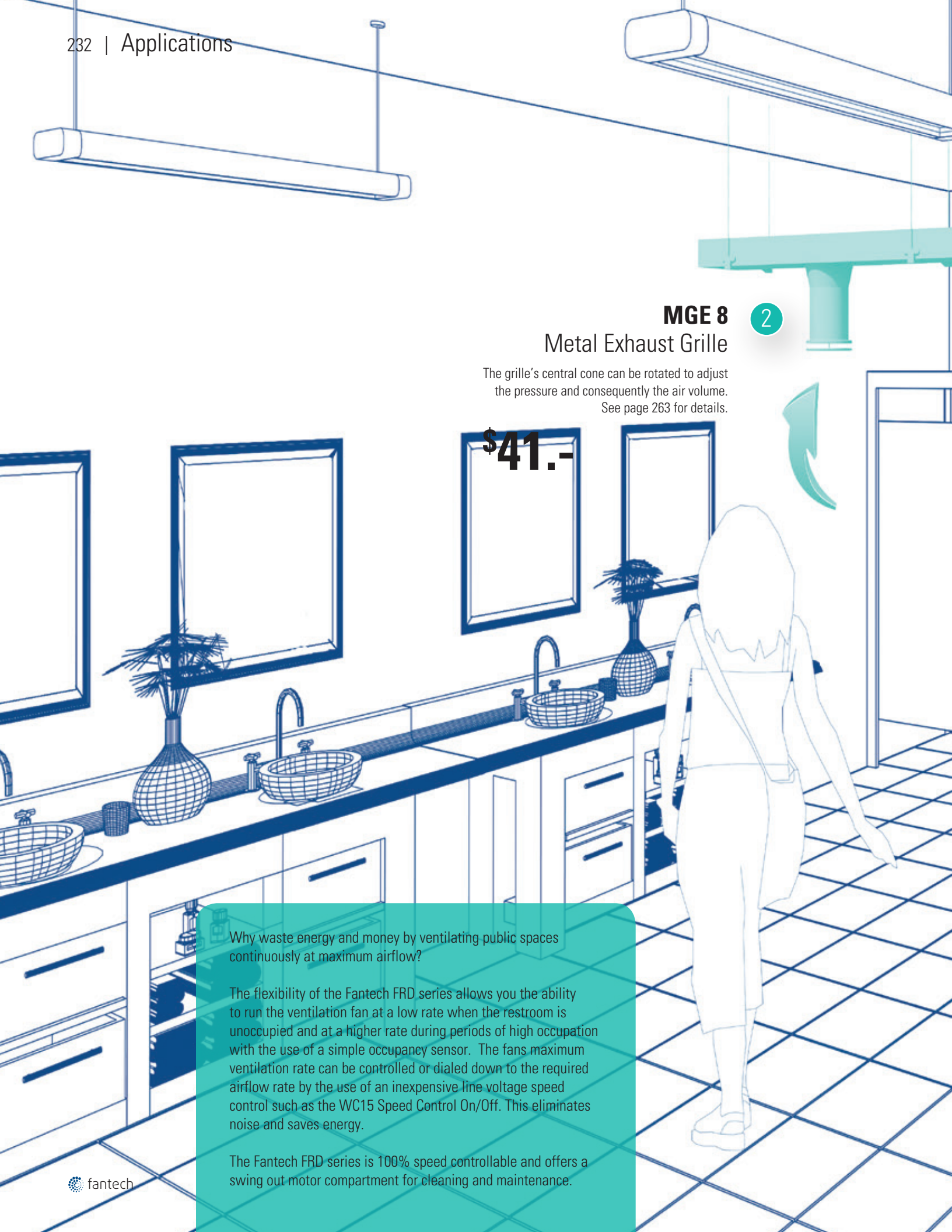
$5,790.–

We understand that keeping your energy costs down is important when running a successful business.

Installing a Fantech Energy Recovery Ventilator can reduce your air conditioning load by up to 20 percent. And, since ERV systems reduce humidity levels, your employees and clients will feel more comfortable.

It is well known that stale air in the workplace reduces employee performance and can lead to possible health issues. Introducing fresh air to the workspace with a Fantech ERV increases employee performance while reducing fatigue and possible health related absences.

All Fantech ERV's are designed to operate in conjunction with the building A/C system or as a standalone unit.



MGE 8
Metal Exhaust Grille

2

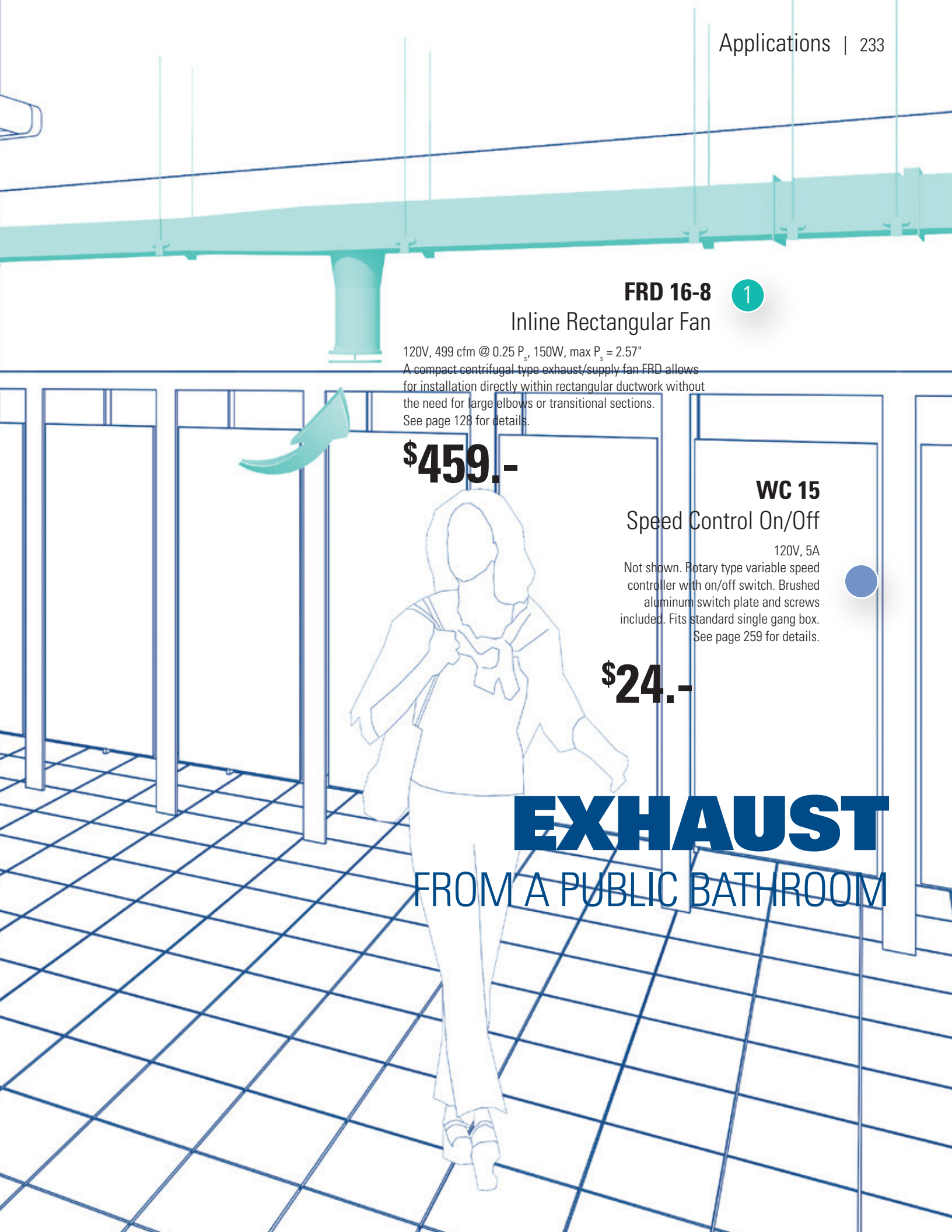
The grille's central cone can be rotated to adjust the pressure and consequently the air volume.
See page 263 for details.

$41.-

Why waste energy and money by ventilating public spaces continuously at maximum airflow?

The flexibility of the Fantech FRD series allows you the ability to run the ventilation fan at a low rate when the restroom is unoccupied and at a higher rate during periods of high occupation with the use of a simple occupancy sensor. The fans maximum ventilation rate can be controlled or dialed down to the required airflow rate by the use of an inexpensive line voltage speed control such as the WC15 Speed Control On/Off. This eliminates noise and saves energy.

The Fantech FRD series is 100% speed controllable and offers a swing out motor compartment for cleaning and maintenance.



FRD 16-8 1

Inline Rectangular Fan

120V, 499 cfm @ 0.25 P_s, 150W, max P_s = 2.57"
A compact centrifugal type exhaust/supply fan FRD allows for installation directly within rectangular ductwork without the need for large elbows or transitional sections.
See page 128 for details.

$459.-

WC 15

Speed Control On/Off

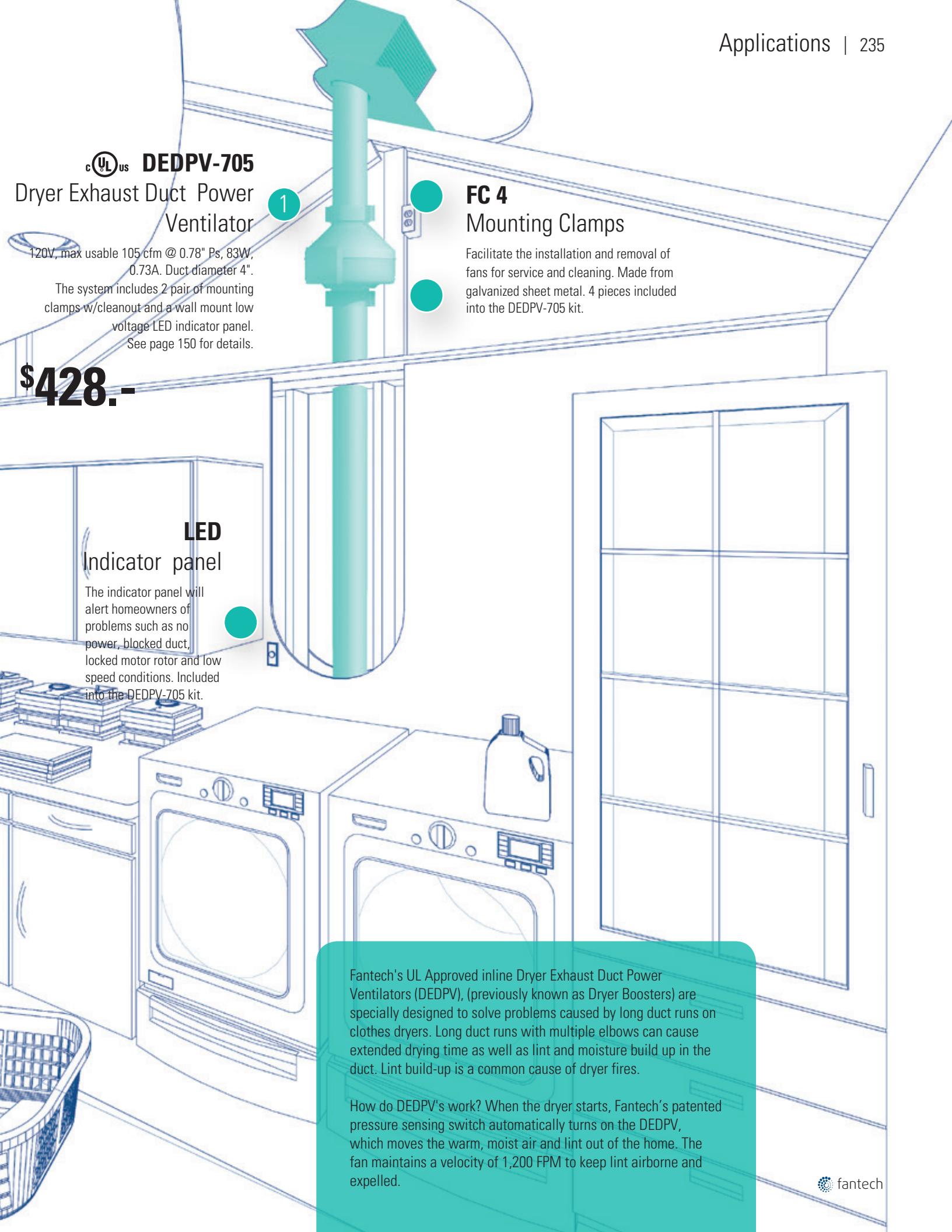
120V, 5A
Not shown. Rotary type variable speed controller with on/off switch. Brushed aluminum switch plate and screws included. Fits standard single gang box.
See page 259 for details.

$24.-

EXHAUST

FROM A PUBLIC BATHROOM

LAUNDRY EXHAUST
IN A SINGLE FAMILY HOME



DEDPV-705
Dryer Exhaust Duct Power Ventilator

120V, max usable 105 cfm @ 0.78" Ps, 83W, 0.73A. Duct diameter 4".
The system includes 2 pair of mounting clamps w/cleanout and a wall mount low voltage LED indicator panel.
See page 150 for details.

$428.-

1

FC 4
Mounting Clamps

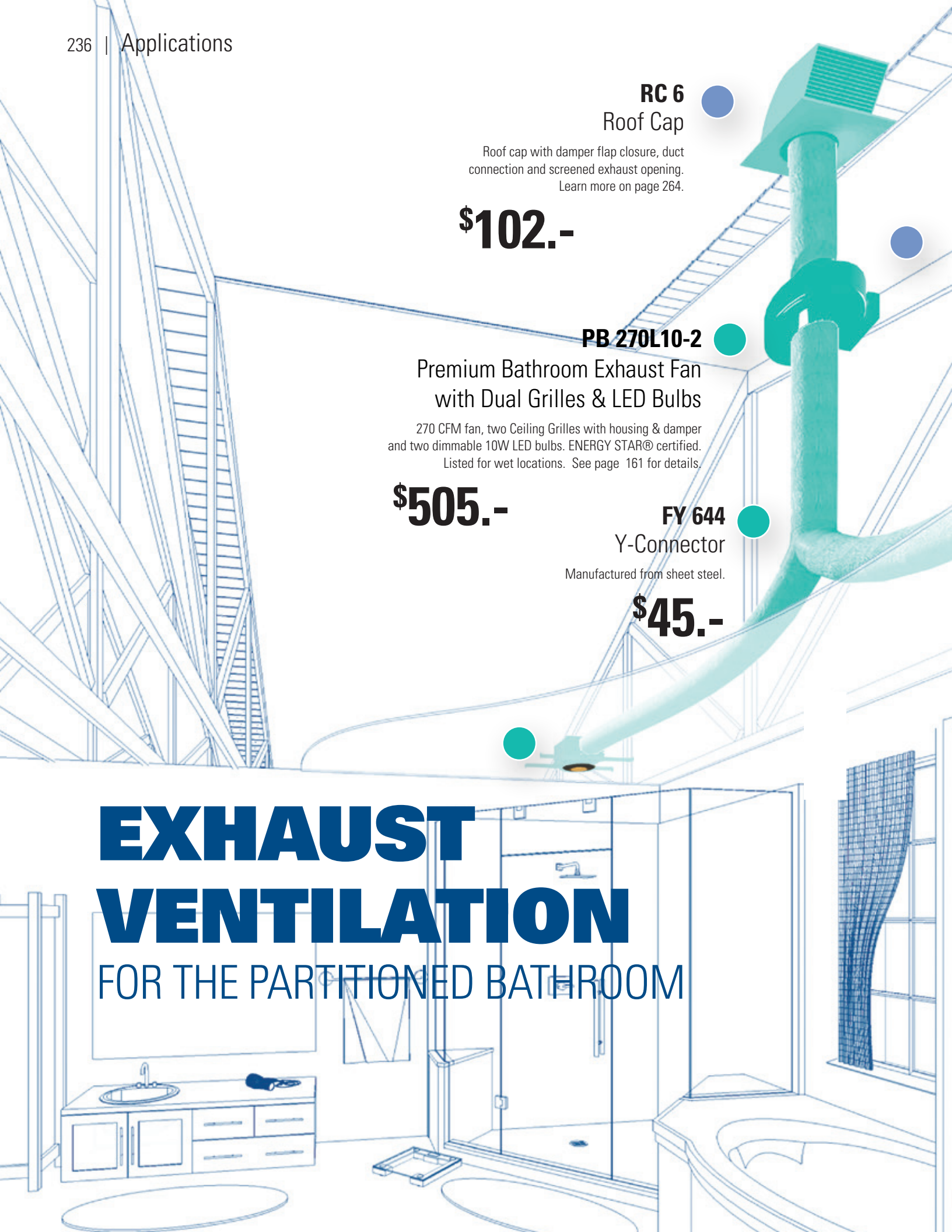
Facilitate the installation and removal of fans for service and cleaning. Made from galvanized sheet metal. 4 pieces included into the DEDPV-705 kit.

LED
Indicator panel

The indicator panel will alert homeowners of problems such as no power, blocked duct, locked motor rotor and low speed conditions. Included into the DEDPV-705 kit.

Fantech's UL Approved inline Dryer Exhaust Duct Power Ventilators (DEDPV), (previously known as Dryer Boosters) are specially designed to solve problems caused by long duct runs on clothes dryers. Long duct runs with multiple elbows can cause extended drying time as well as lint and moisture build up in the duct. Lint build-up is a common cause of dryer fires.

How do DEDPV's work? When the dryer starts, Fantech's patented pressure sensing switch automatically turns on the DEDPV, which moves the warm, moist air and lint out of the home. The fan maintains a velocity of 1,200 FPM to keep lint airborne and expelled.



RC 6
Roof Cap

Roof cap with damper flap closure, duct connection and screened exhaust opening.
Learn more on page 264.

$102.-

PB 270L10-2
Premium Bathroom Exhaust Fan with Dual Grilles & LED Bulbs

270 CFM fan, two Ceiling Grilles with housing & damper and two dimmable 10W LED bulbs. ENERGY STAR® certified. Listed for wet locations. See page 161 for details.

$505.-

FY 644
Y-Connector

Manufactured from sheet steel.

$45.-

EXHAUST VENTILATION
FOR THE PARTITIONED BATHROOM

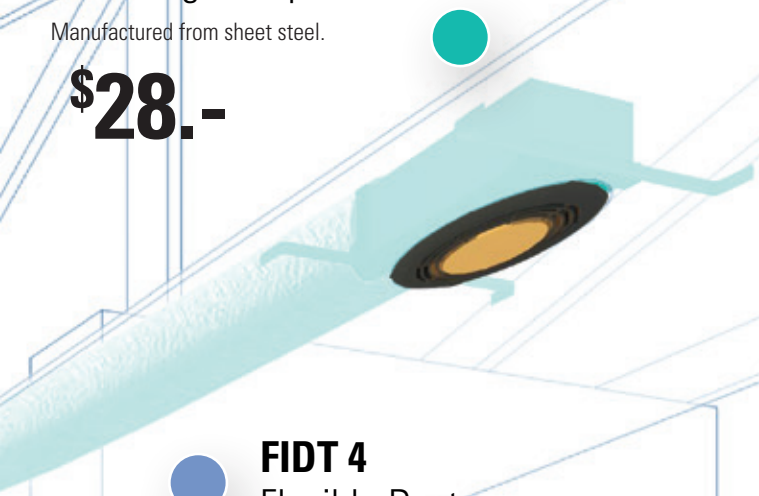
Part of a Premium Bath Fan kit

Recommended accessories

FC 6
Mounting Clamps

Manufactured from sheet steel.

$28.-



FIDT 4
Flexible Duct

Flexible round insulated duct. The insulation provides great sound and thermal efficiency. UL Listed. Available in 25-foot lengths. See page 265.

$36.-

Myth vs Reality

Myth:
Remote mount fans are more expensive

Powerful and silent remote mount bath fan solutions from Fantech are more economical than you may think. The table below illustrates an average installed cost for two fans mounted in a master bath or in adjacent bathrooms. Top it off with an unbeatable 7 year warranty, and the competition is left far behind.

Listed costs verified by using 2015 National Construction Estimator.

Equipment / Labor	Comparable 110CFM Ceiling Mount Fan*				Premium Bath Fan by Fantech			
	Materials	Quantity	Cost	Total	Materials	Quantity	Cost	Total
		pc	$ / ea	$		pc	$ / ea	$
Main Bathroom	Comparable 110CFM Ceiling Mount Fan	1 pc	180.-	180.-	PB 270L10-2 Remote Mount Bath Fan (270 CFM)	1 pc	390.-	390.-
Master Bathroom	Comparable 110CFM Ceiling Mount Fan	1 pc	180.-	180.-	Second Location FREE	1 pc	-	-
Controls	Std On/Off Toggle Switches	2 pcs	5.-	10.-	Std On/Off Toggle Switches	2 pcs	5.-	10.-
Ducts	12 ft. 6" insulated ducts	1 pc	40.-	40.-	6" Flex + 4" Flex	1 pc	40.-	40.-
Roof Caps	6" roof cap	2 pcs	30.-	60.-	6" roof cap	1 pc	30.-	30.-
Electrical Labor	Wiring fan	2 hrs	55.-	110.-	Wiring fan	1 hr	55.-	55.-
Ducting labor	Mount grille box	2 pcs	38.-	76.-	Mount grille box	2 pcs	38.-	76.-
	Mount duct & roof cap	2 pcs	90.-	180.-	Mount duct & roof cap	1 pc	90.-	90.-
Installation Cost				**$ 836.-**				**$ 691.-**

* Based on internet retail cost of Panasonic FV-11VQL6

1

PBW 110L7

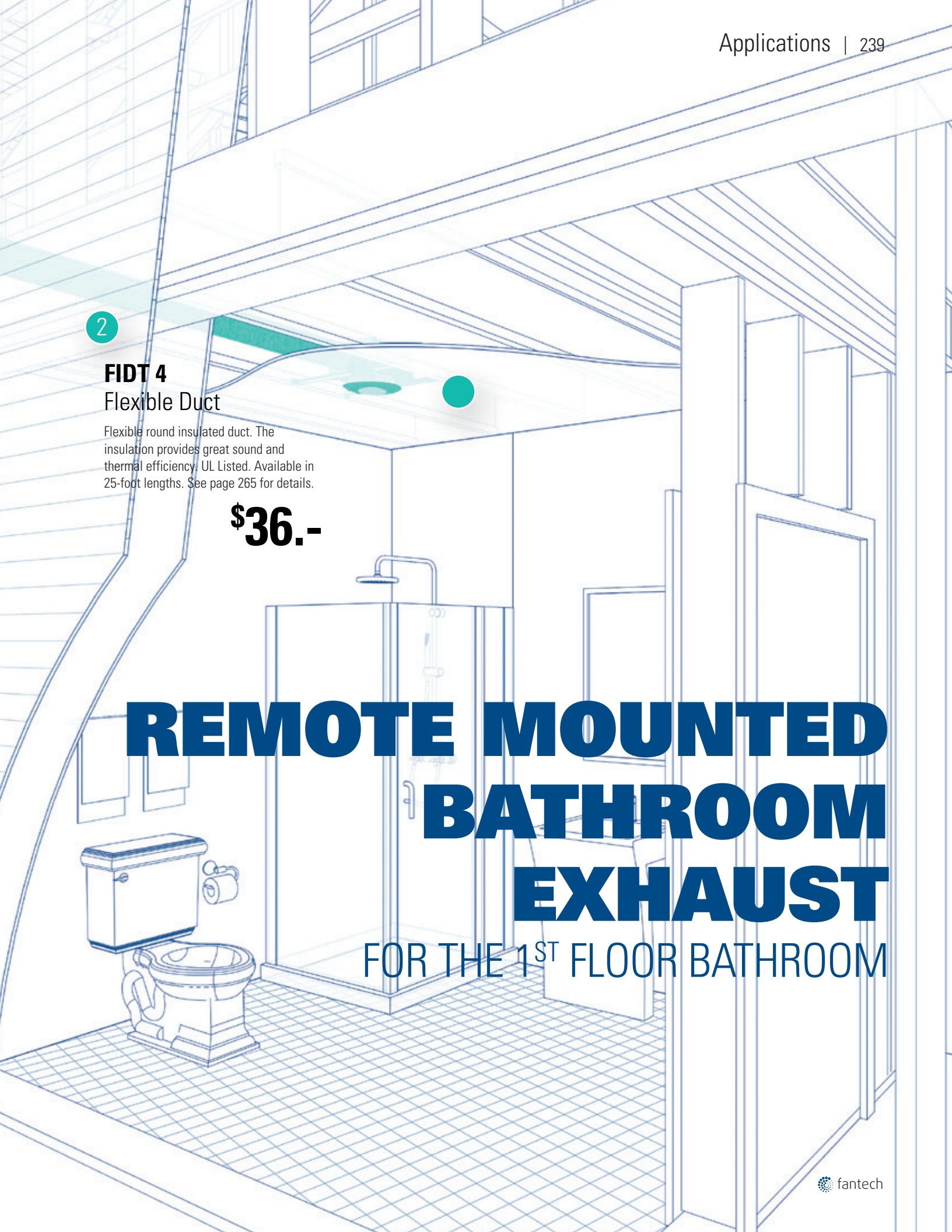
Exterior Wall Mount Bath Fan with one Grille & LED Light

120 CFM fan, one Ceiling Grille with housing & damper and a dimmable 7W LED bulb. UL Listed for wet locations.
See page 164 for details.

$374.-

Because there are often finished levels above, 1st floor bathrooms can be a challenge to ventilate with vertically routed duct work. When duct work is routed horizontally between two levels of the home, it can be difficult to locate a remote-mounted fan indoors. No need to worry - Fantech has a solution!

With the PBW series of exterior, wall-mount premium bath fans, even 1st floor bathrooms can be provided with the benefits of remote-mounted fans. The PBW series features a fan that mounts on the exterior wall. The fan's natural sound is kept at a distance from the ceiling grille, resulting in a very quiet operation. Similar to the other premium bath fan products, PBW models include ceiling grilles with and without lights.



2

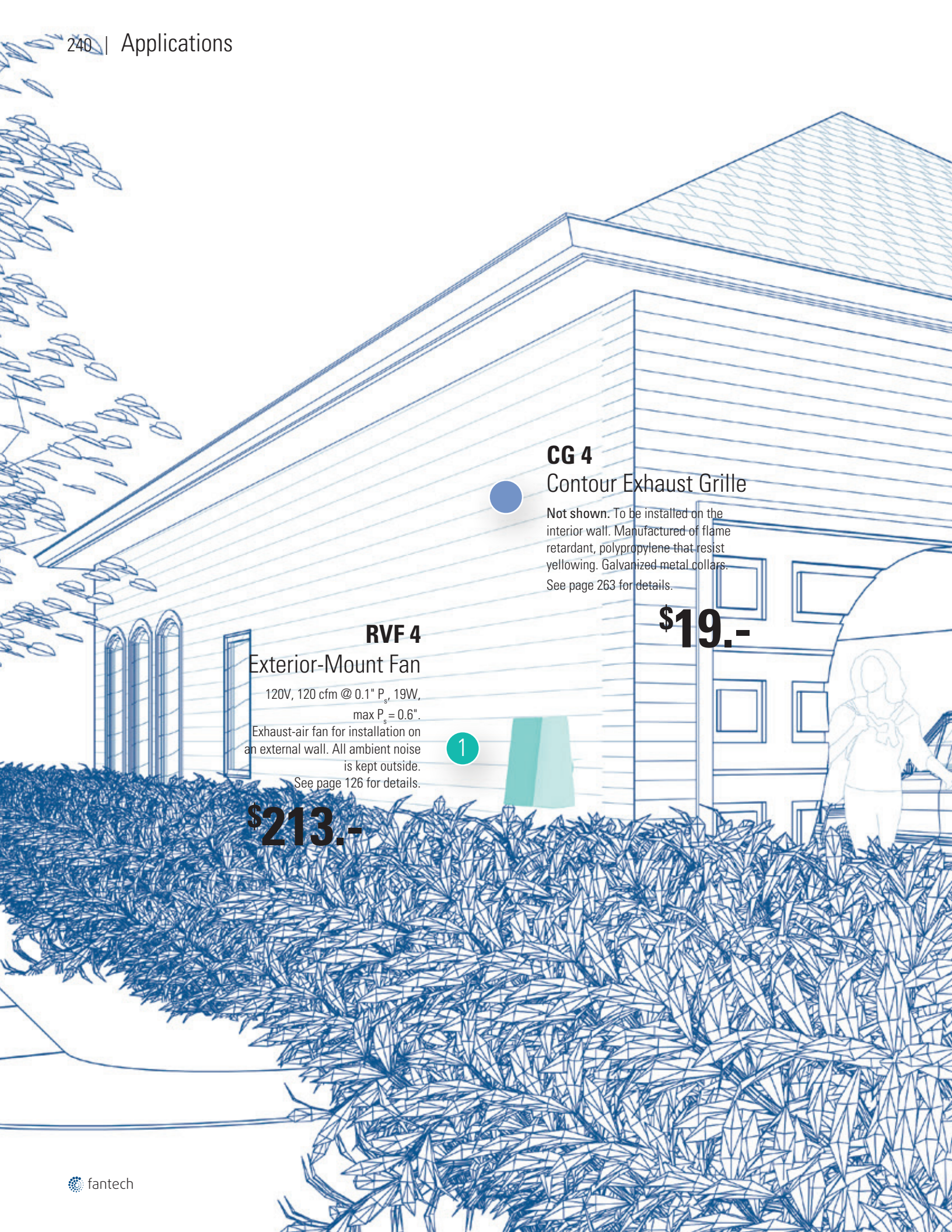
FIDT 4
Flexible Duct

Flexible round insulated duct. The insulation provides great sound and thermal efficiency. UL Listed. Available in 25-foot lengths. See page 265 for details.

$36.-

REMOTE MOUNTED BATHROOM EXHAUST

FOR THE 1ST FLOOR BATHROOM



CG 4
Contour Exhaust Grille

Not shown. To be installed on the interior wall. Manufactured of flame retardant, polypropylene that resist yellowing. Galvanized metal collars.
See page 263 for details.

$19.-

RVF 4
Exterior-Mount Fan

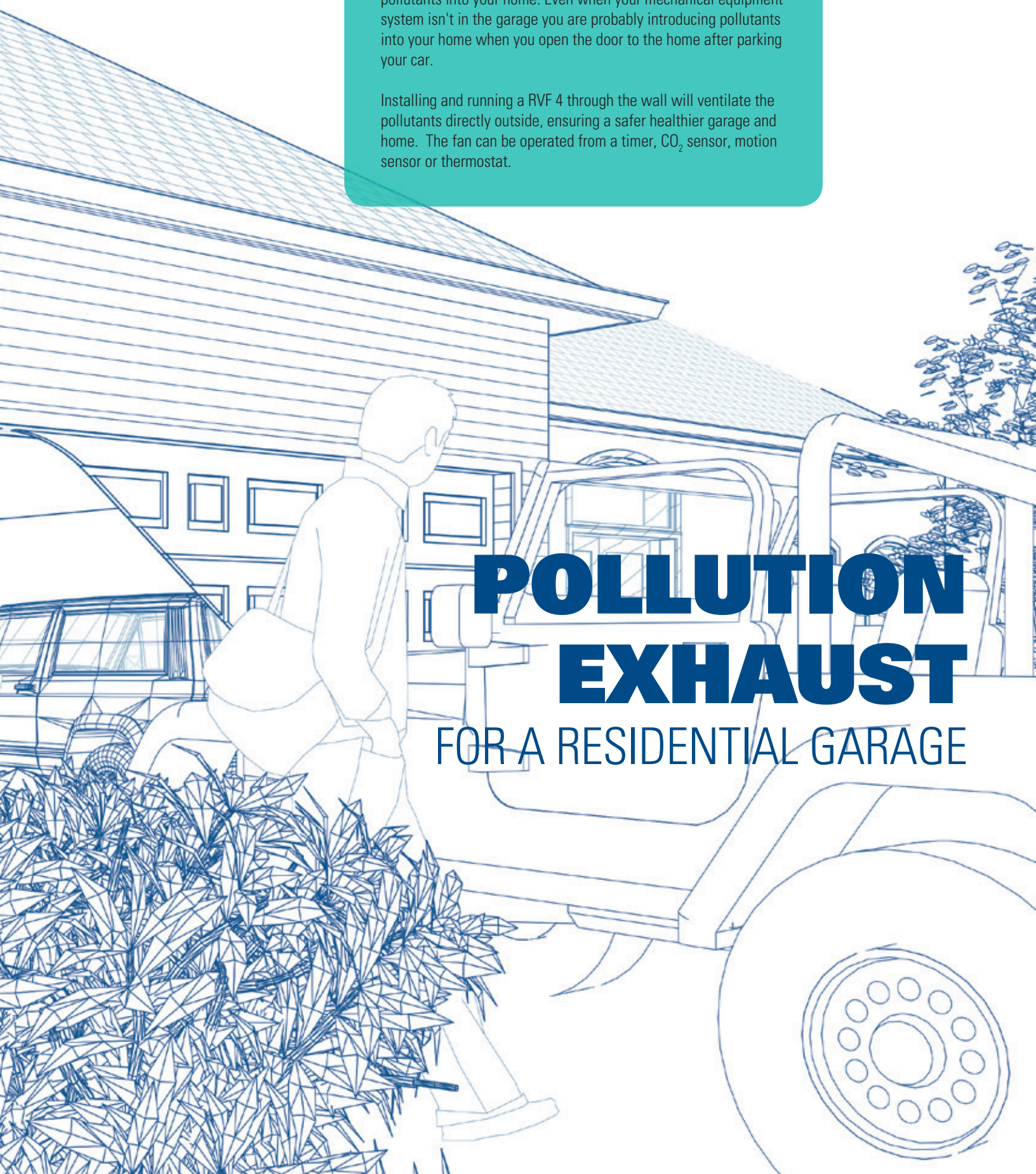
120V, 120 cfm @ 0.1" P_s, 19W, max P_s = 0.6". Exhaust-air fan for installation on an external wall. All ambient noise is kept outside.
See page 126 for details.

$213.-

From unhealthy odors and gasses from cars and mechanical equipment to stored garden chemicals and gasoline, attached garages are a source of pollution.

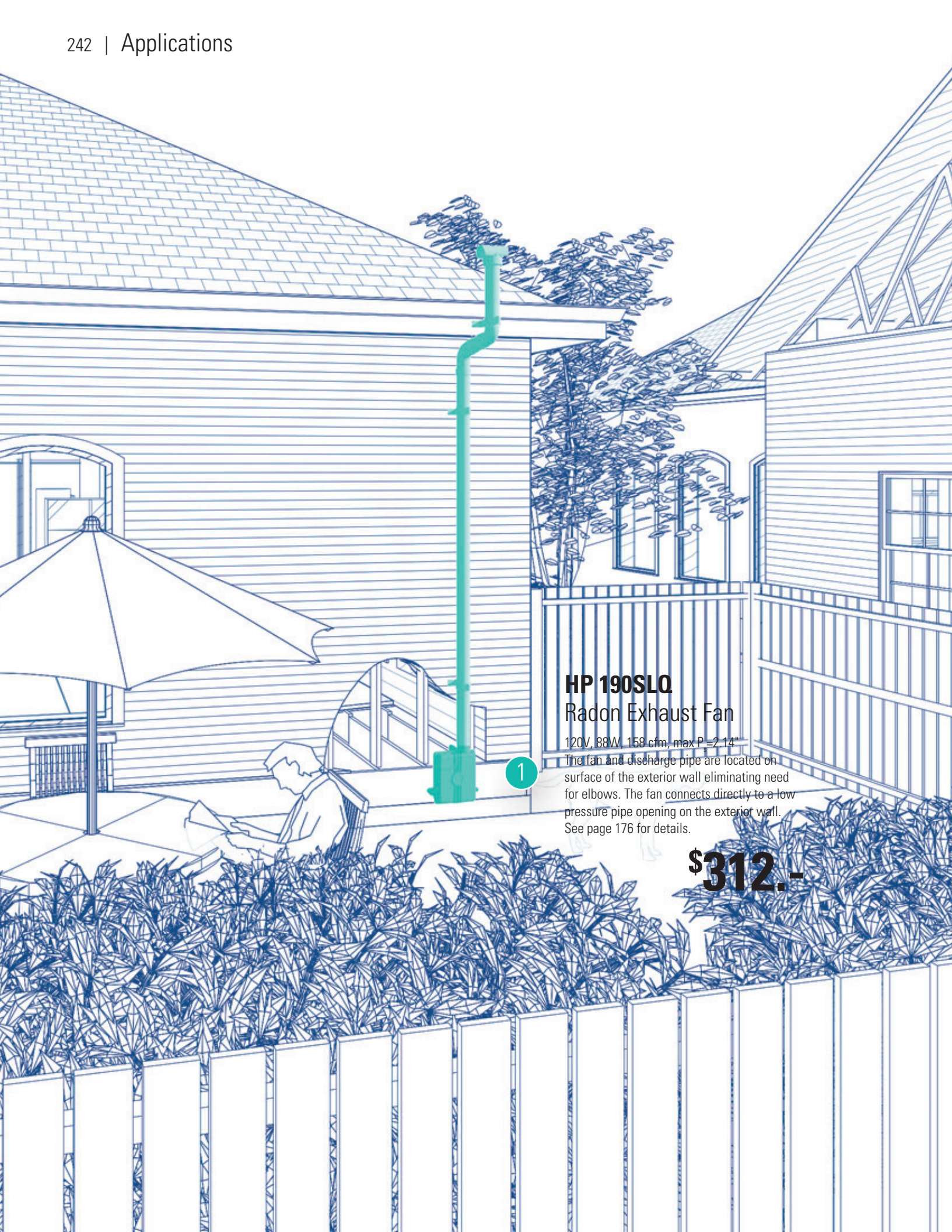
If your mechanical equipment is in your garage, any exposed duct work that is not sealed properly, could introduce unhealthy pollutants into your home. Even when your mechanical equipment system isn't in the garage you are probably introducing pollutants into your home when you open the door to the home after parking your car.

Installing and running a RVF 4 through the wall will ventilate the pollutants directly outside, ensuring a safer healthier garage and home. The fan can be operated from a timer, CO_2 sensor, motion sensor or thermostat.



POLLUTION EXHAUST

FOR A RESIDENTIAL GARAGE



HP 190SLQ
Radon Exhaust Fan

120V, 88W, 158 cfm, max P =2.14"
The fan and discharge pipe are located on surface of the exterior wall eliminating need for elbows. The fan connects directly to a low pressure pipe opening on the exterior wall.
See page 176 for details.

$312.-

2

HP 190

Radon Exhaust Fan

120V, 85W, 157 cfm, max P_s=2.46"
Ideally tailored performance curve for a vast majority of your mitigations.
See page 172 for details.

$189.-

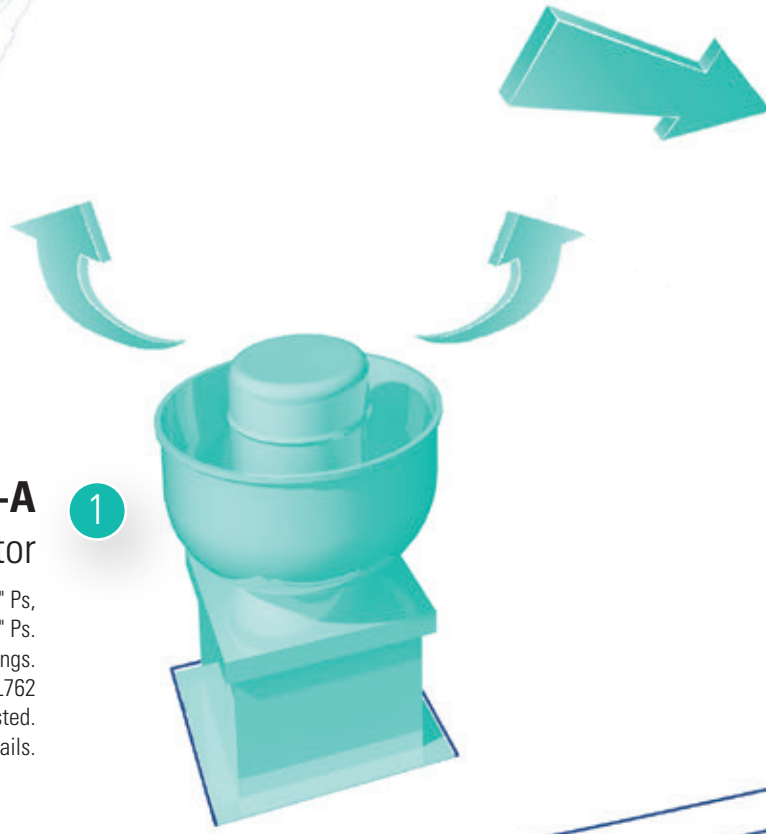
RADON EXHAUST

IN A SINGLE FAMILY HOME

Radon comes from the natural (radioactive) breakdown of uranium in soil, rock and water and get's into the air you breathe. Radon is all over the US in every type of building, however you and your family are most likely to get your greatest exposure at home, where you spend most of your time.

Testing is the only way to know if you and your family are at risk. Testing is easy and inexpensive; most hardware stores carry Radon Test Kits. The EPA recommends that you mitigate your home if the radon level is above 4 Picocuries per liter (4pCi/L).

The good news is that reducing the levels is not hard but requires the technical knowledge of a qualified mitigator. Check with your state Radon office for names of qualified or state certified radon contractors in your area.



5BDU 15FB-A 1

Upblast Roof Ventilator

120/208-230V, 2956 cfm @ 0.25" Ps,
max P_s=1.00" Ps.
For commercial and industrial buildings.
UL 705 Standard (electrical) and UL762
Standard (restaurant exhaust) listed.
See page 184 for details.

$1,149.-

COMMERCIAL KITCHEN EXHAUST

IN A RESTAURANT

2

5FSU 12EB

Filtered Supply Ventilator

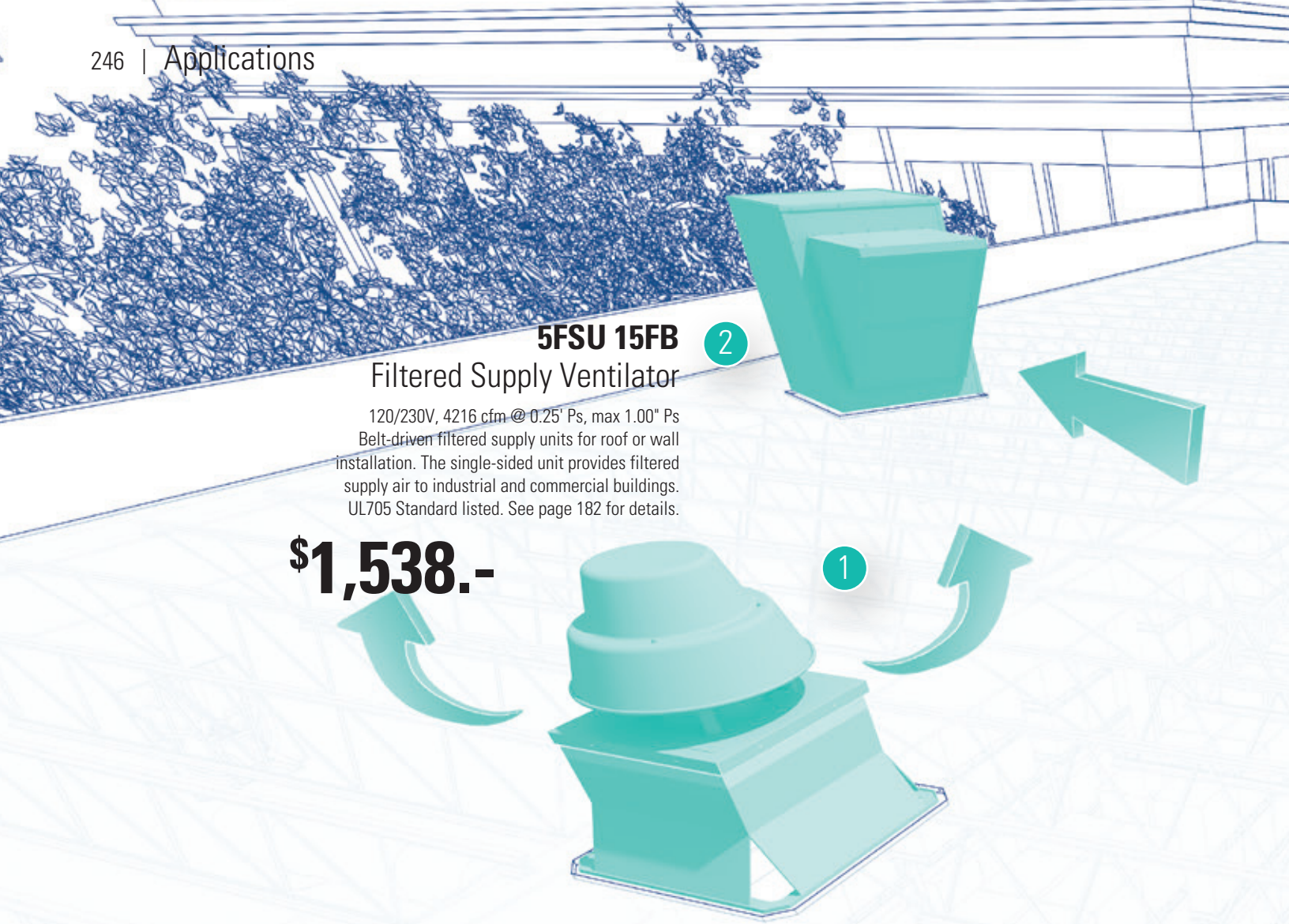
120/230V, 2769 cfm @ 0.25' Ps, max 1.25" Ps
Belt-driven filtered supply units for roof or wall installation. The single-sided unit provides filtered supply air to industrial and commercial buildings. UL705 Standard listed.
See page 182 for details.

$1,538.-

1

What goes out must come in, so says physics. Exhaust the smoke, heat and cooking odors with a Fantech UL762 listed Upblast fan the Belt Drive 5BDU, while at the same time supply Makeup Air with a Belt Drive 5FSU. Balanced systems like these alleviate problems with spillage from kitchen hoods that breeds mildew and can create a toxic environment in the kitchen. Poor air quality in the kitchen can spread to the restaurant creating problems for customers and employees and improper ventilation increases the presence of cooking odors that may deter customer traffic.

Good air quality is essential to the operation of a successful restaurant; invest in Fantech equipment that will secure the safety of your business, employees and customers for many years to come.



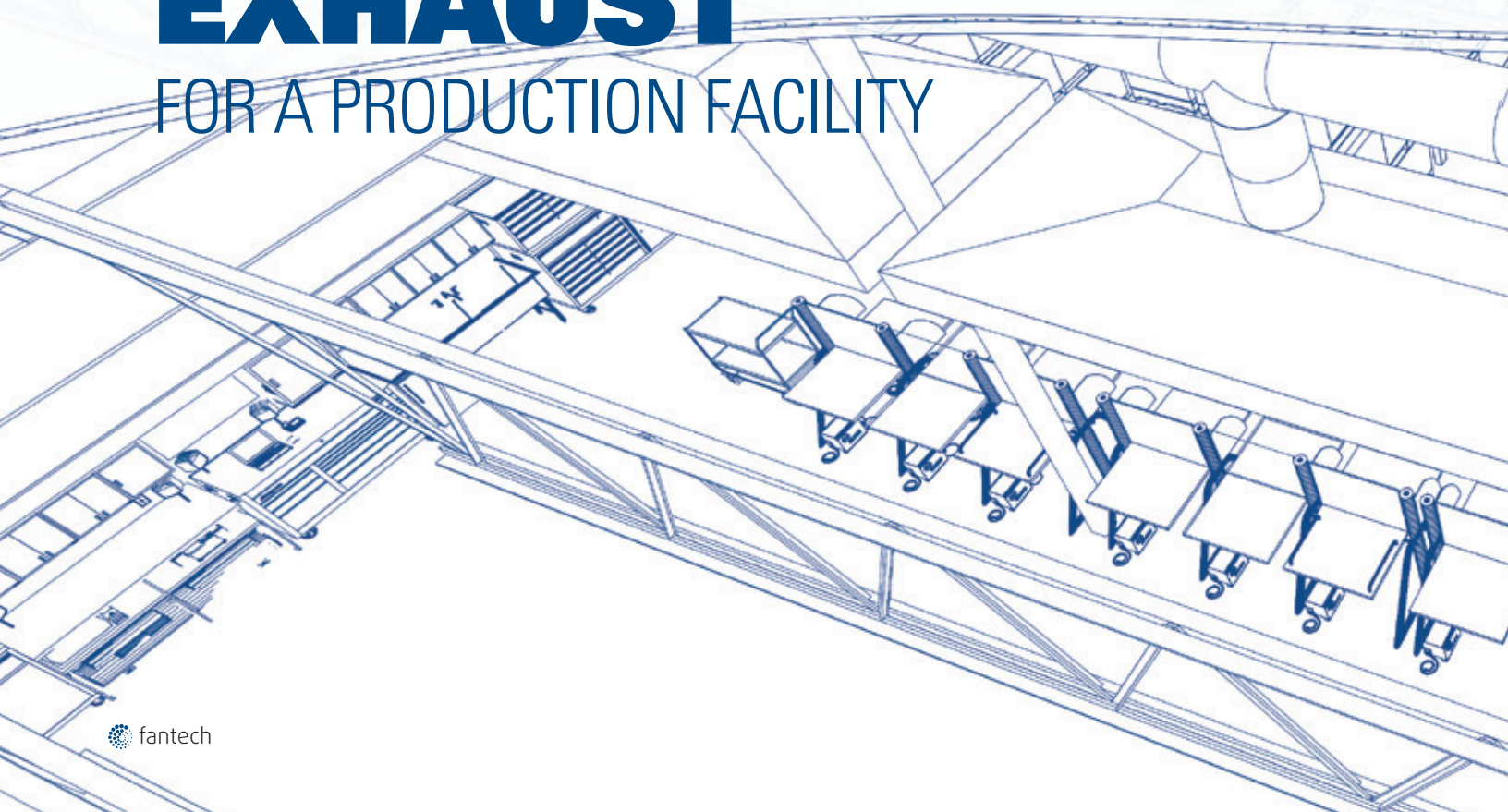
5FSU 15FB 2
Filtered Supply Ventilator

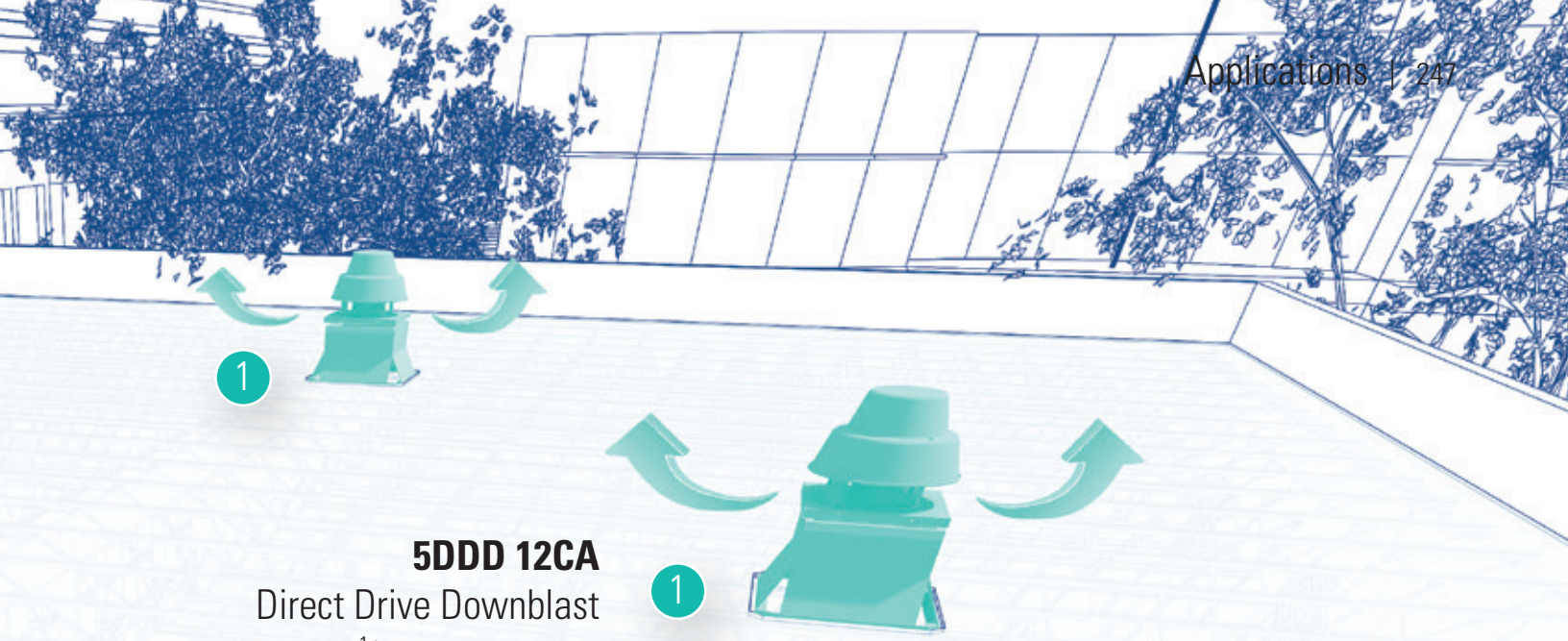
120/230V, 4216 cfm @ 0.25' Ps, max 1.00" Ps
Belt-driven filtered supply units for roof or wall installation. The single-sided unit provides filtered supply air to industrial and commercial buildings. UL705 Standard listed. See page 182 for details.

$1,538.-

1

EXHAUST
FOR A PRODUCTION FACILITY





5DDD 12CA

Direct Drive Downblast

120V, $^{1}/_{3}$ HP, 1605 cfm @ 0.25" P_s, max P_s=1.0" P_s For steady exhaust ventilation. The model is equipped with a backward inclined aluminum fan wheel and a speed controllable motor. UL 705 Standard listed. See page 194.

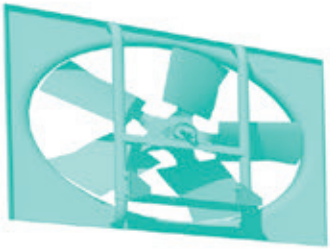
$532.-

Whether it's welding, plasma cutting, grinding, milling or soldering all give off smoke or noxious fumes, which if not vented properly, can be harmful to employees, users or operators.

Spot ventilation with a Fantech 5DDD Direct Drive Downblast exhaust fan prevents these noxious fumes escaping the capture hood or process vent, thereby aiding indoor air quality (IAQ) and the health of employees. Studies show healthy employees are more productive.

What goes out must come in so goes physics, supplying fresh make up air with a 5FSU aids IAQ and fulfills the code requirement for ventilation.

Fantech roof fans are designed for ease of installation and maintenance.



1

1SDE 24DB

Standard Duty Exhaust Wall Ventilator

120V, 5910 cfm @ 0.125" P_s, 16,7 Sones @ 0.125" P_s
Designed to move large volumes of air quickly at relatively low static pressures. Ideal for light to medium duty applications such as warehouses, factories, parking garages, greenhouses, etc.
See page 212 for details.

$709.-

Warehouses have a tendency to get very hot due to the high concentration and type of materials that are stored in them.

The code says the minimum ventilation in any warehouse is 0.06 cfm per sq.ft. Of course, this minimum does not take into account heat or VOC build-up where more ventilation may be required.

Maintaining good quality air in any warehouse is a must to ensure the health and safety of employees as well as the valuable inventory. Healthy workers in a safe environment are productive workers.

Using 1SDE 24DB Belt Drive Propeller Exhaust Ventilators to expel the contaminated or hot air, while bringing in a supply of fresh cooler air through 1ACC 24MD intake dampers is a simple cost effective ventilation solution.

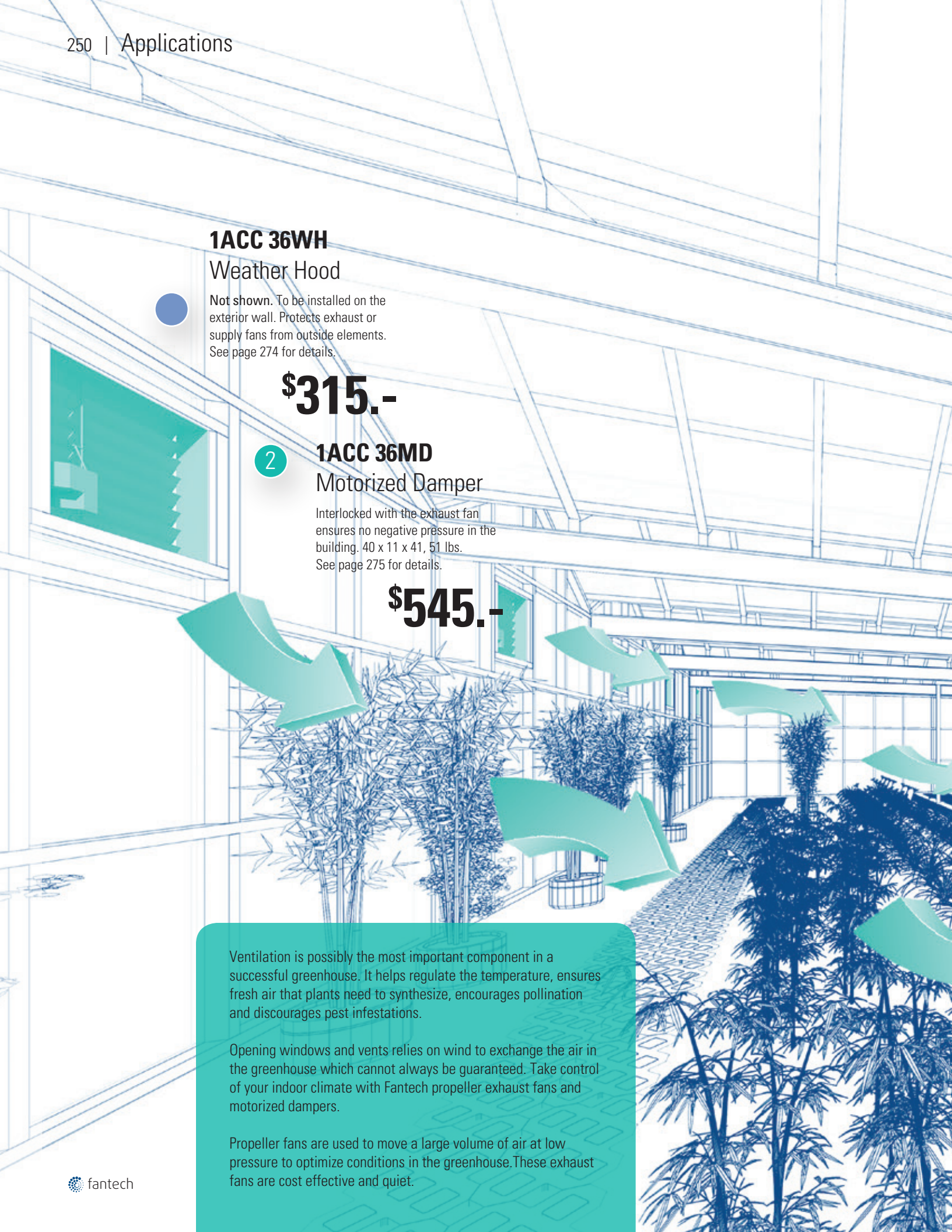
WALL EXHAUST
IN A WAREHOUSE

2

1ACC 24MD
Motorized Damper

120/240V, 0.19/0.11A, 3500 fpm
Manufactured from 14-gauge galvanized steel frame 2" deep with 1" flange. Damper is equipped with a motor to open and a spring return to close.
See page 275 for details.

$290.-



1ACC 36WH
Weather Hood

Not shown. To be installed on the exterior wall. Protects exhaust or supply fans from outside elements. See page 274 for details.

$315.-

2

1ACC 36MD
Motorized Damper

Interlocked with the exhaust fan ensures no negative pressure in the building. 40 x 11 x 41, 51 lbs. See page 275 for details.

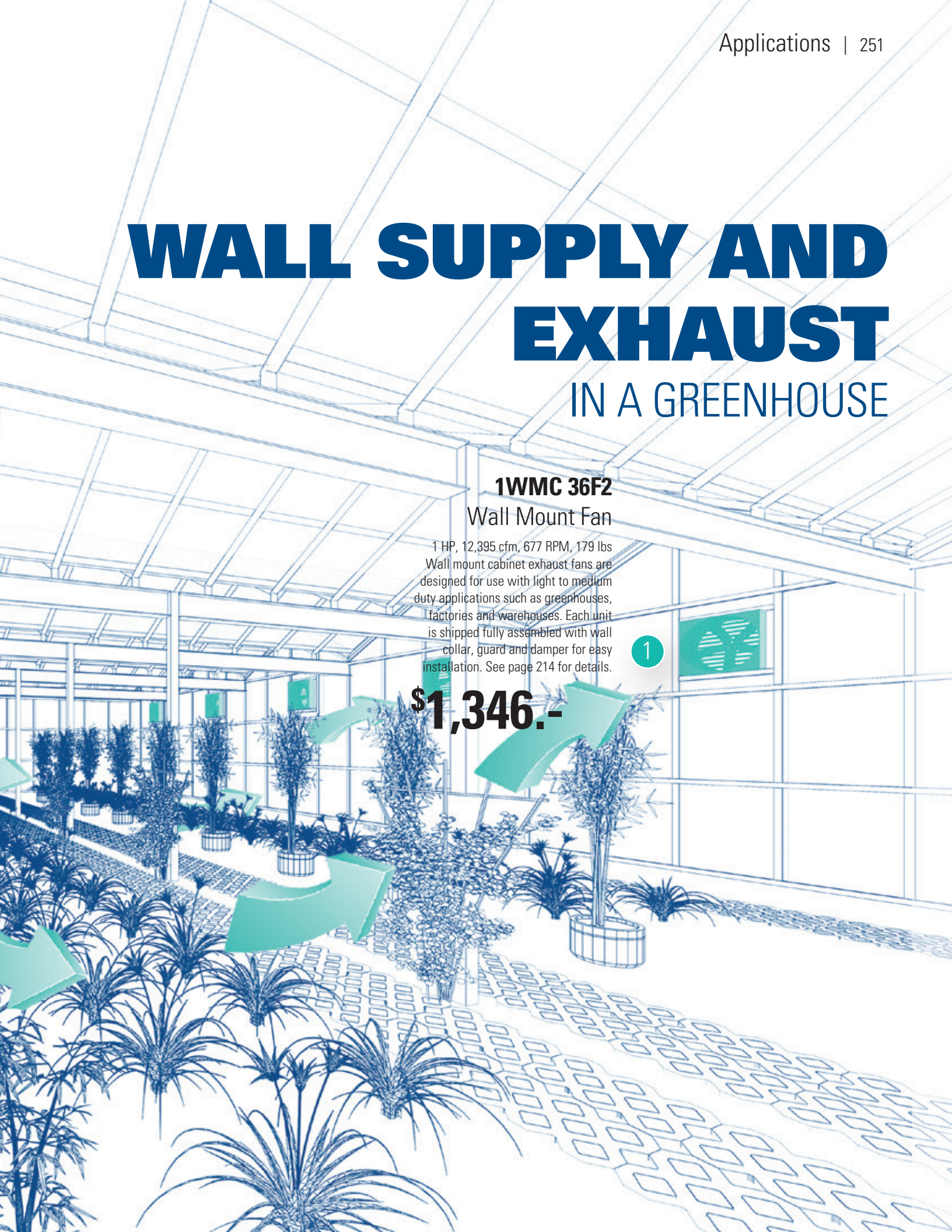
$545.-

Ventilation is possibly the most important component in a successful greenhouse. It helps regulate the temperature, ensures fresh air that plants need to synthesize, encourages pollination and discourages pest infestations.

Opening windows and vents relies on wind to exchange the air in the greenhouse which cannot always be guaranteed. Take control of your indoor climate with Fantech propeller exhaust fans and motorized dampers.

Propeller fans are used to move a large volume of air at low pressure to optimize conditions in the greenhouse.These exhaust fans are cost effective and quiet.

WALL SUPPLY AND EXHAUST
IN A GREENHOUSE



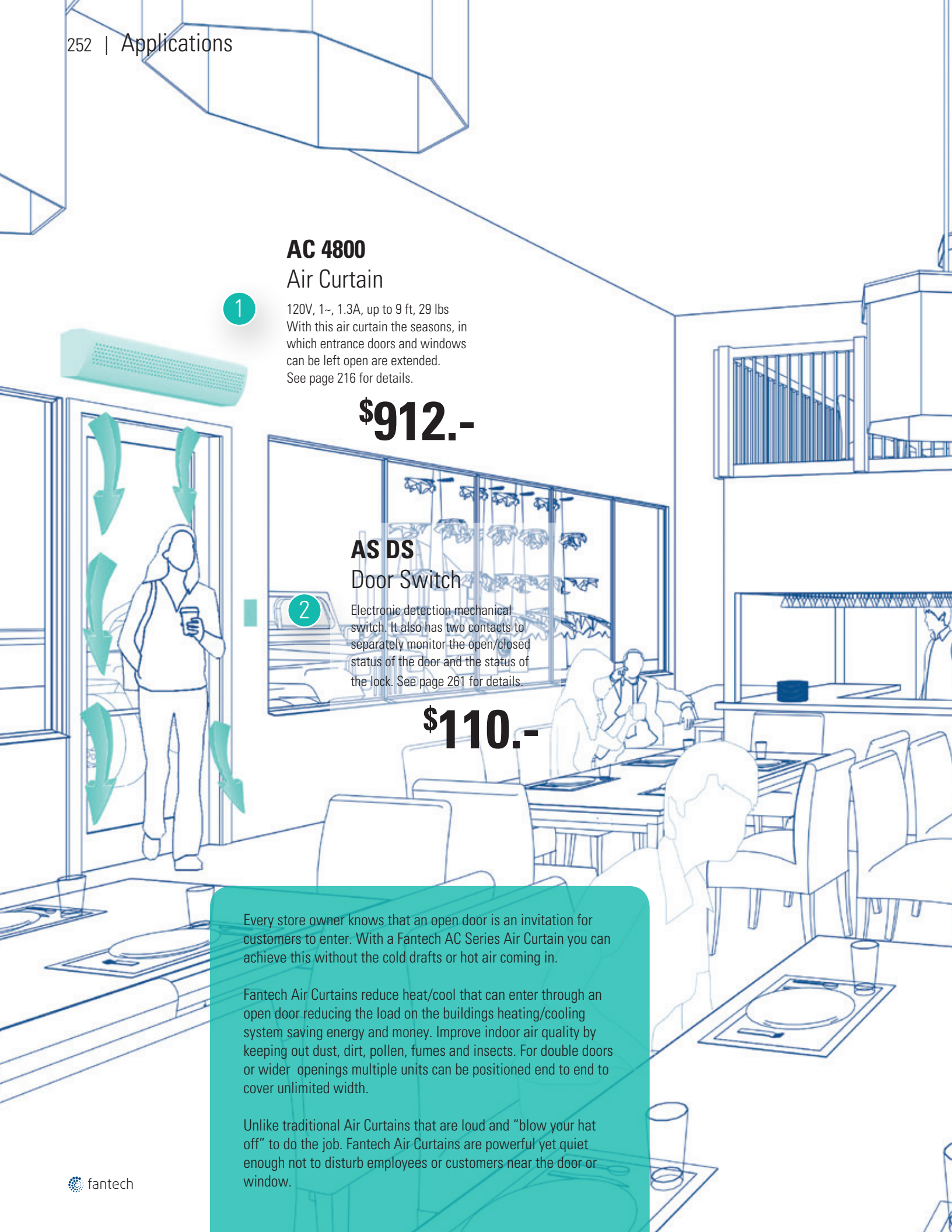
1WMC 36F2

Wall Mount Fan

1 HP, 12,395 cfm, 677 RPM, 179 lbs
Wall mount cabinet exhaust fans are designed for use with light to medium duty applications such as greenhouses, factories and warehouses. Each unit is shipped fully assembled with wall collar, guard and damper for easy installation. See page 214 for details.

1

$1,346.-



1

AC 4800
Air Curtain

120V, 1~, 1.3A, up to 9 ft, 29 lbs
With this air curtain the seasons, in which entrance doors and windows can be left open are extended.
See page 216 for details.

$912.-

2

AS DS
Door Switch

Electronic detection mechanical switch. It also has two contacts to separately monitor the open/closed status of the door and the status of the lock. See page 261 for details.

$110.-

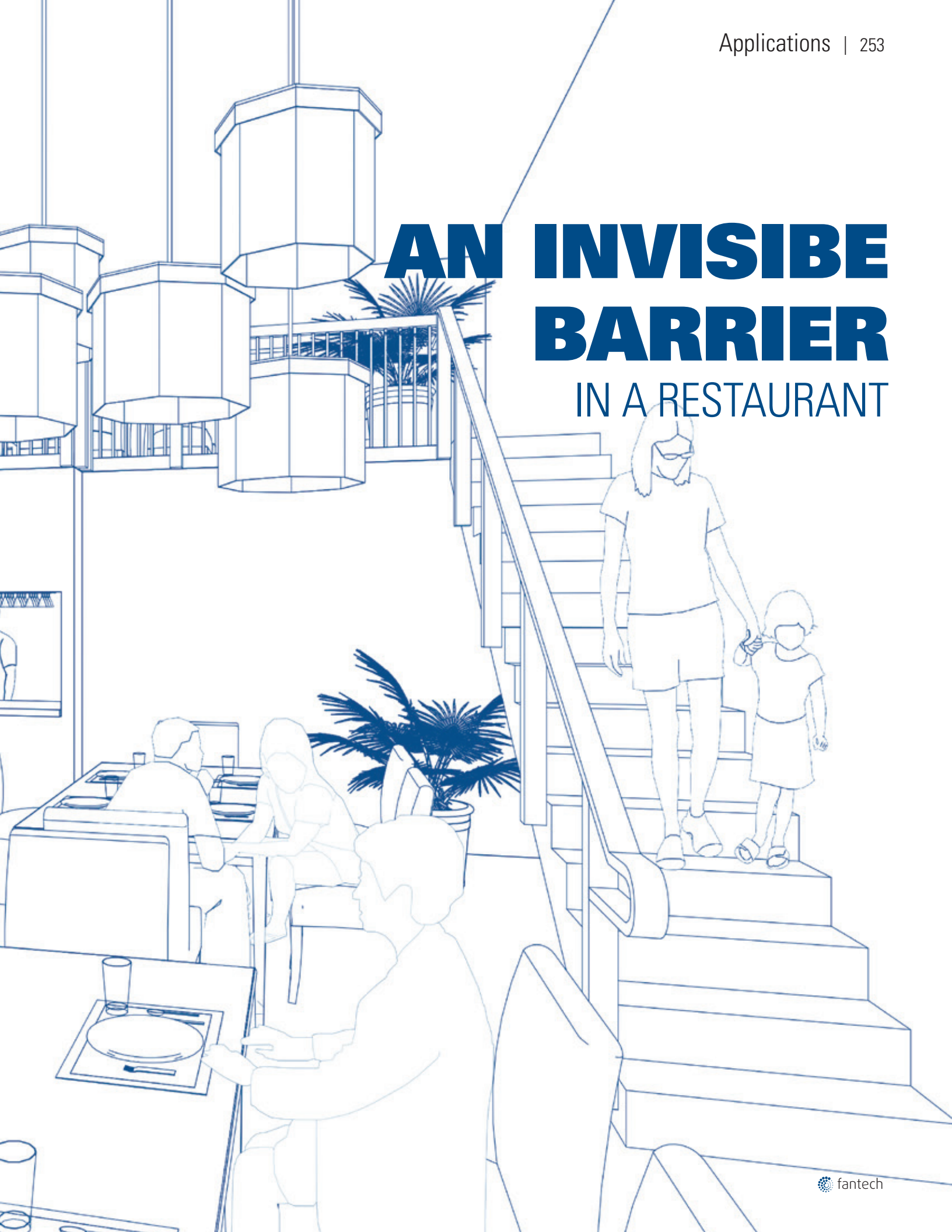
Every store owner knows that an open door is an invitation for customers to enter. With a Fantech AC Series Air Curtain you can achieve this without the cold drafts or hot air coming in.

Fantech Air Curtains reduce heat/cool that can enter through an open door reducing the load on the buildings heating/cooling system saving energy and money. Improve indoor air quality by keeping out dust, dirt, pollen, fumes and insects. For double doors or wider openings multiple units can be positioned end to end to cover unlimited width.

Unlike traditional Air Curtains that are loud and "blow your hat off" to do the job. Fantech Air Curtains are powerful yet quiet enough not to disturb employees or customers near the door or window.

AN INVISIBE BARRIER

IN A RESTAURANT



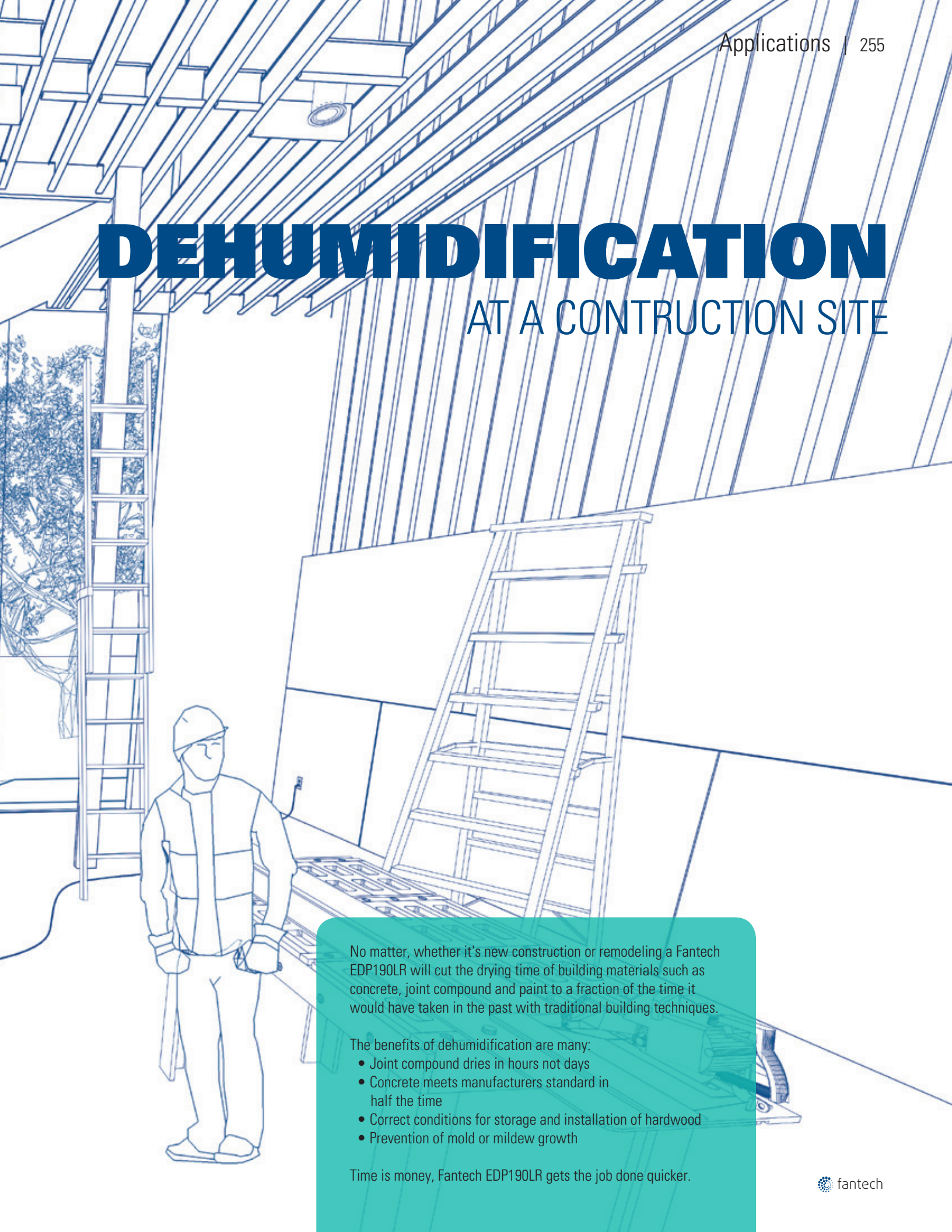
1

EPD 190LR

Industrial Dehumidifier

120V, 300 cfm, 75 pints at 80°F, 60% RH
Low grain refrigerant system removes more moisture from the air.
Electronic controls for precise, convenient setup and simple operation.
See page 218 for details.

$2,245.-



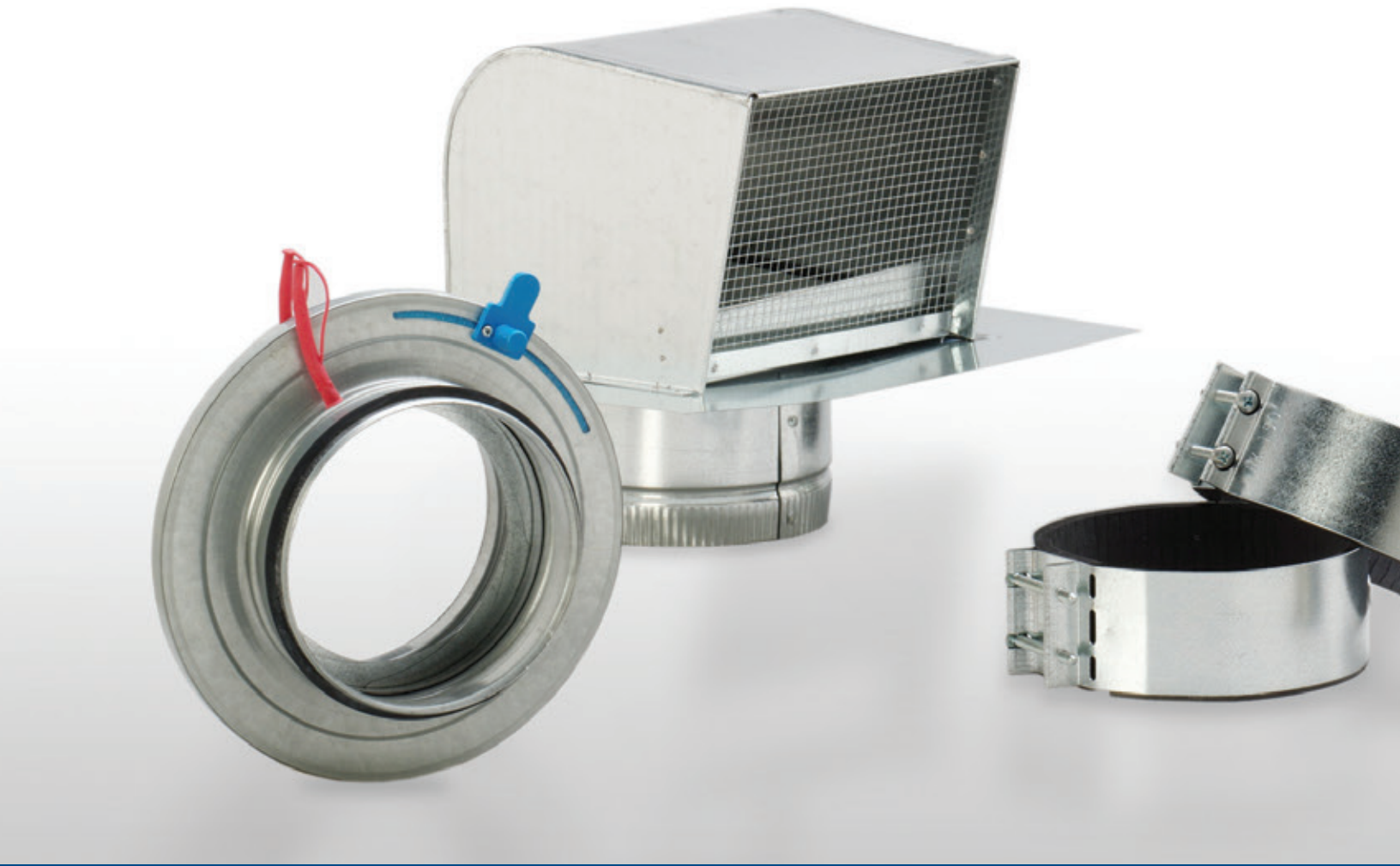
DEHUMIDIFICATION
AT A CONTRUCTION SITE

No matter, whether it's new construction or remodeling a Fantech EDP190LR will cut the drying time of building materials such as concrete, joint compound and paint to a fraction of the time it would have taken in the past with traditional building techniques.

The benefits of dehumidification are many:

- Joint compound dries in hours not days
- Concrete meets manufacturers standard in half the time
- Correct conditions for storage and installation of hardwood
- Prevention of mold or mildew growth

Time is money, Fantech EDP190LR gets the job done quicker.



ACCESSORIES


VENTILATION
MODE
AUTO
fantech

Bathroom Ventilation

Ceiling Grilles and Bulbs for Premium Bath Fans

PBV

Ceiling Grille and Housing

Includes damper and four hanger bars. Fits between 2x6 (PBV 4) or 2x8 (PBV 6) construction.

Specification Data

Model	Duct Size, inch	Power, W	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
PBV 4	4	-	4	1	412260	56.-
PBV 6	6	-	4	1	412261	72.-

PBL

Ceiling Grille and Housing with a dimmable LED light

Includes damper, four hanger bars, and a dimmable 7W or 10W LED bulb. Fits between 2x6 construction.

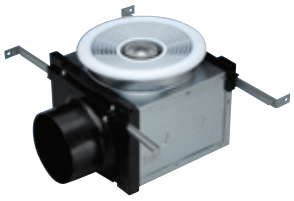
Specification Data

Model	Duct Size, inch	Power, W	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
PBL7 4	4	7	4	1	44951	155.-
PBL10 4	4	10	4	1	44952	185.-

PBH

Ceiling Grille and Housing with a Dimmable Halogen Light

Includes damper, four hanger bars and 50-watt halogen bulb. Fits between 2x6 construction.



Specification Data

Model	Duct Size, inch	Power, W	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
PBH 4	4	50	4	1	412262	122.-

REPLACEMENT BULBS FOR LEGACY FANTECH PREMIUM BATH FANS

Here is a list of bulbs that fit your Fantech premium bathroom fan.

PBB7 (item #44916) for PB 110L, PB 270L-2, PB 270LV-2
PBB14 (item #44955) for PB 110F-ES, PB 270FV-2, PB 270F-2
PBB15 (item # 47566) for PB 110F-ES, PB 270F-2ES, PB 270 FV-2ES
PBB50 (item #45156) for PB 110H, PB 270H-2, PB 270HV-2

Find compatible bath fan switch and control accessories in the Switches and Controls for Ventilation section of accessories.

PBB

Replacement Bulbs for PBL and PBH grilles

PBB L7-ES and PBB L10-ES are dimmable LED bulbs, 3000K, E26 base, wet location, ENERGY STAR®. Use with PB(W)xxxL7 / L10 bathroom fans and PBL7 / 10 ceiling grilles. All replacement packs include 6 bulbs.

PBB50 is a dimmable halogen bulb, GU10 base, wet location. Use with PB(W) 110H, PB 270H-2, PB 270HV-2 bathroom fans and PBH ceiling grilles.

Specification Data

Model	Power, W	Lumens	Shipping weight	Item #	MSRP, USD
PBB7-ES Repl. Pack	7	470	2	56063	216.-
PBB10-ES Repl. Pack	10	800	5	56064	367.-
PBB50 Repl. Pack	50	430	1	56065	65.-

FQ FD

Radiation Damper

Fire/Radiation Damper is UL 555C classified for use in 3-hour fire rated floor/ceiling or roof/ceiling assemblies for T-bar, hanger rod/wire ceiling installation. For use with Fantech FQ Series non-lighted exhaust fans. Shipping weight: 2 lbs.

Specification Data

Model	Fire rate, hr	Shipping weight,lbs	Shipping class	Item #	MSRP, USD
FQ FD	3	2	1	46975	78.-

PBB

Replacement Bulbs for Legacy PBF Bath Fans

Specification Data

Model	Power, W	Base	Grille models	Item #	MSRP, USD
PBB 14	14	GX24	PBF 4	45155	15.-
PBB 15-ES	15	GU24	PBF 4-ES	47566	15.-
PBB 7	7	GU10	PBL 4	44916	41.-

Switches and Controls for Ventilation

Speed Control for AC-motor Fans

WC 15

Multipurpose Speed Control

Rotary type variable speed controller with on/off switch. Brushed aluminum switch plate and screws included. Fits a standard single gang box.

Specification Data

Model	Voltage, V	Current, A	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
WC 15	120	5	1	1	411102	24.-

RPE

Multipurpose Speed Control

Heavy duty rotary type variable speed controller with on/off switch. Brushed aluminum switch plate and screws included.

Specification Data

Model	Voltage, V	Current, A	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
RPE 10	120	10	1	1	411101	63.-
RPE 15	120	15	1	1	411384	86.-
RPE 210	230	10	1	1	411385	69.-

5ACC..SC

Speed Control for Commercial Fans

Variable speed controller permits adjustment of air movement from 100% to approximately 50%. Can be used to operate more than one fan, if the combined total current do not exceed the control rating.

Specification Data

Model	Current, A	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
5ACC03SC	3	0.3	1	47185	24.-
5ACC06SC	6	0.3	1	47189	38.-

SCD

Multipurpose Speed Control

Slide type variable speed controller with on/off switch. White Decora-style switch plate and screws included. Fits standard single gang box.

Specification Data

Model	Voltage, V	Current, A	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
SCD 5	120	5	1	1	411381	80.-
SCD 7	120	7.5	1	1	411382	145.-

Speed control selection guide

Solid State Speed Control1 for AC-motor Fans				
Model	Type	Voltage, V	Current, A	Use With Fan Models
WC 15	Rotary w/ On-Off	120	5	AC-motor fans with 100% speed-controllable motors. Fan models include PB & PBW bath fans, prioAir (AC models), RVF, FG, FR, CVS, FKD, RE(C), FADE, FRD, and FSD
RPE 10	Rotary w/ On-Off	120	10	
RPE 15	Rotary w/ On-Off	120	15	
RPE 210	Rotary w/ On-Off	230	10	
SCD 5	Decora Slide w/ On-Off	120	5	
SCD 7	Decora Slide w/ On-Off	120	7.5	
5ACC03SC	Lim. Range Rotary w/ On-OFF	120	3	Commercial AC-motor fan models 5DDD, 5DDU, 5ADE, 2SHE3 and 2VLD
5ACC06SC	Lim. Range Rotary w/ On-OFF	120	6	

[1] Select speed control model for correct voltage and sufficient current capacity.
[2] Some commercial fan model sizes require speed control with greater current capacity (amperage) than is available with these accessory speed control models. Speed control for such fan model sizes must be furnished by others
[3] Not all 2SHE models are compatible with speed control; check specific fan model for suitability.

Switches and Controls for Ventilation

Controls for EC-motor Fans

MTP 10

Potentiometer for Manual Speed Control

May be surface or recessed wall mounted for manual speed control of all EC-motor fan models. Input is 10Vdc / Output is 0-10Vdc.

Specification Data

Model	Voltage, V dc	IP Class	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
MTP 10	0 - 10	IP 54	1	1	32731	64.-

DPC 200

Constant Pressure Control

This low pressure sensor with analog input and PI controlling mode is used with EC fans for constant pressure applications. The sensor reads the static pressure and regulates the fan's RPMs to maintain a preset desired static pressure.

- Measuring range 0 - 2.0" w.c. Ps
- Analog output 0 - 10Vdc

Specification Data

Model	Measuring range, w.c.	Output, Vdc	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
DPC 200	0 - 2.0" P_s	0 - 10	1	1	484048	638.-

Switches and Timers

FD 60EM

Bathroom Timer

Electronic push button timer. Select from 10, 20, 30 and 60 minute timed operation of fan. Fits standard single gang box. Ideal for multiple switching locations. Three panel colors. Switch plate not included.

Specification Data

Model	Voltage, V	Current, A	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
FD 60EM	120	20	1	1	411386	66.-

FTD 7

7 Day Digital Timer

An electronic 7 day timer with an automatic summer/winter time settings. Two outlets, 8 on/off programs.

Specification Data

Model	Voltage, V	Current, A	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
FTD 7	120	15	1	1	49792	45.-

FLD 60

Bathroom Light/Fan Switch

Designed as a replacement for the bathroom fan and light switch. By using a microprocessor to monitor and control fan operation, a precise amount of ventilation can be provided. Allows continuous operation of the fan for up to 1 hour after light switch is turned off.

Specification Data

Model	Voltage, V	Current, A	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
FLD 60	120	20	1	1	411388	110.-

VT 20

Programmable Bath/Ventilation Fan Control

The ultimate programmable 20 minute boost timer. Can be used to satisfy ASHRAE 62.2 Whole Building Ventilation requirements. Features easy-set slide adjustment for fan speed and run-time per hour. Controls are hidden under cover plate. Use with up to three VT20A (Auxiliary Controls) to allow 20 minute high speed boost in up to four locations.

Specification Data

Model	Voltage, V	Current, A	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
VT 20M	120	2.5	1	1	45386	63.-
VT 20A	120	2.5	1	1	45385	20.-

5ACC..MS

Motor Disconnect Switch (NEMA)

Provides manual "On-Off" control of single or three phase AC motors where overload protection is not required or is provided separately.

5ACC 01MS: 120/230/460V, 30A
5ACC 02MS: 208/230/460V, 30A

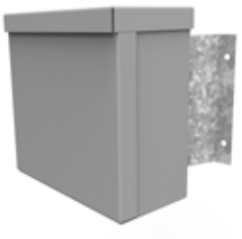
Specification Data

Model	Poles	Max HP	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
5ACC01MS	2	3	1	1	47182	136.-
5ACC02MS	3	10	1	1	47183	286.-

EC EMT

NEW!

Exterior Mount Control Enclosure



Accessory kit for locating the fan control of a 5DDU EC fan onto the fan shell's exterior or other outdoor location.

Kit includes a NEMA 3R enclosure and a mounting bracket.

Specification Data

Model	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
EC EMT	1	1	483340	124.-

Sensing Switches and Condition Control

ACCS

AC Current Sensing Switch

Current sensing switch relay. 120V, 2.5 A.

Specification Data

Model	Max Current, A	Shipping weight ,lbs	Shipping class	Item #	MSRP, USD
ACCS 40	2.5	1	1	40361	70.-

FAT 10

Attic Thermostat

Thermostat for use with attic ventilation systems. Adjustable between 80° and 130° F.

Specification Data

Model	Voltage, V	Current, A	Weight, lbs	Item #	MSRP, USD
FAT 10	120	22	1	411233	62.-

FPS

Pos/Neg Pressure Switch

Universal pressure switch (120V). Adjustable between .05" to 1.0" water differential pressure. Using either positive or negative pressure sensing for duct line.

Specification Data

Model	Max Current, A	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
FPS 10	10	2	1	411390	62.-

FH 20

Dehumidistat

Wall mounted dehumidistat. Adjustable between 20% and 80% relative humidity. A white powder-coated finish. Voltage 120V.

Specification Data

Model	Current, A	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
FH 20	7.5	1	1	410727	38.-

AS DS

Door Switch

Electronic detection mechanical switch. It also has two contacts to separately monitor the open/closed status of the door and the status of the lock.

Specification Data

Model	Contact	Weight, lbs	Item #	MSRP, USD
AS DS	Closed / Open	2	411392	110.-

Switches and Controls for Ventilation

Controls for Heat and Energy Recovery Ventilators

EDF 7

Electronic Multifunction Dehumidistat

An electronic multifunction dehumidistat that is compatible with all Fantech's HRV/ERV (except SH/VH 704). This control has 3 possible modes of operations: Ventilation mode, Recirculation mode and Standby.

Dimensions 3 5/8" (w) x 4 7/8" (h) x 7/8" (d).

In AUTO Mode, the EDF7 will activate normal speed ventilation when the indoor relative humidity is above the desired set point. During summer, the AUTO Mode can be deactivated to lower energy consumption. Shipping Class 1.

- Desired relative humidity set point
- User selected speed: Low, Medium, Normal and 20 min/hr
- LCD Backlit screen
- Summer mode allows user to deactivate dehumidistat
- Indoor relative humidity is displayed
- No battery to replace

Specification Data

Model	Voltage, V	Recirculation Cycle	Weight, lbs	Item #	MSRP, USD
EDF 7	12	Yes	1	44883	83.-

EDF

Triple Function Wall Control Timer

An electronic wall control timer is compatible with all Fantech HRV/ERV models (except SH/VH 704). This control activates the system on 3 possible modes of operation: continuous low speed operation (Green), Intermittent 20 minutes on, 40 minutes off (Yellow) and continuous high speed or boost (Red).

Specification Data

Model	Recirculation Cycle	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
EDF 1R	Yes	1	1	40393	50.-
EDF 1	No	1	1	40375	50.-

ECO-Touch™

Programmable Wall Control

Technologically advanced and feature-rich; the ECO-touch provides contractors and homeowners with a higher level of control over indoor air quality. The MAX mode gives you the extra ventilating power you need to quickly clear the air by taking advantage of the system's powerful fans.

- Preferences for desired indoor relative humidity
- Ventilation movement is displayed on LCD backlit touch screen
- 20 minute ventilation / 40 minute recirculation mode

Specification Data

Model	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
ECO-Touch	1	1	44929	140.-

RTS

Pushbutton Timer

The pushbutton timer is compatible with Fantech SHR, VHR and SER series models. The button activates the system to run in continuous mode for a period of time, it then returns to the predetermined setting. To cancel this operation, simply press the button a second time.

Specification Data

Model	Boost Time, min	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
RTS 2	20	1	1	40164	22.-
RTS 3*	20-40-60	1	1	40376	43.-
RTS 5 *	20-40-60	1	1	44794	43.-

* Look at the available accessories for the HRV or ERV you've selected to determine if the RTS3 or RTS5 should be used

MDEH

Low Voltage Dehumidistat

2-wire low voltage dehumidistat control with rotary dial. Just turn the dial to set the humidity level. Multiple units can be used with Fantech HRV's. Install in bathrooms, kitchen or laundry for easy access.

Model	Switch ON-OFF	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
MDEH 1	-	1	1	40172	26.-

Appurtenances for Ducted Air Systems

Indoor Grilles

MGS

Metal Supply Grille

This grille has a shielding device for producing a directional distribution pattern and has an adjustable gap grilles. The grille is manufactured from sheet metal with a white powder-coated finish.

- Easy installation either into the mounting frame or directly onto the duct
- For supply and exhaust air
- The airflow is adjusted by rotating the plate

Specification Data

Model	Duct Size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
MGS 4	4	1	1	411368	28.-
MGS 5	5	2	1	411369	29.-
MGS 6	6	2	1	411242	36.-
MGS 8	8	3	1	411243	45.-

MGE

Metal Exhaust Grille

An exhaust diffuser for installation on ceiling or wall. It can also be used for supply air. The diffuser has a lockable central cone, which is rotated to adjust the pressure and consequently the air volume. Can be used for supply air.

- Easy installation either into the mounting frame or directly onto the duct
- For supply and exhaust air
- The airflow is adjusted by rotating the valve cone

Specification Data

Model	Duct Size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
MGE 4	4	1	1	411106	19.-
MGE 5	5	2	1	411370	22.-
MGE 6	6	2	1	411371	27.-
MGE 8	8	3	1	411244	41.-

DG

Designer Exhaust Grille

A low profile, fixed circular plastic exhaust grille. Included with the grille is a matching diameter galvanized mounting collar with nailing strip.

DG models with collar for easy installation.

Specification Data

Model	Duct Size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
DG 4	4	1	1	411363	13.-
DG 6	6	2	1	411364	15.-

DGD

Designer Exhaust Grille

A low profile, fixed circular plastic exhaust grille. Included with the grille is a matching diameter galvanized mounting collar with nailing strip. For vertical installation only.

DGD models come with collar and back draft damper.

Specification Data

Model	Duct Size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
DGD 4	4	2	1	411365	33.-
DGD 6	6	3	1	411118	41.-

CG

Contour Grille

Grilles are manufactured of flame retardant, polypropylene that resist yellowing. White matte finish can be painted to match walls or ceiling.

- Easy installation either into the mounting frame or directly onto the duct
- For supply and exhaust air
- The airflow is adjusted by rotating the valve cone

Specification Data

Model	Duct Size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
CG 4	4	1	1	40306	19.-
CG 5	5	1	1	40308	21.-
CG 6	6	2	1	40309	23.-

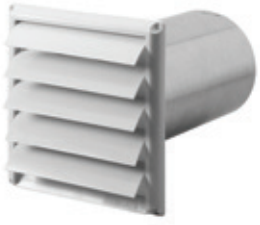
Appurtenances for Ducted Air Systems

Inlets and Outlets

HS

Louvered Shutter for Exhaust

Plastic louvered shutter with duct connection.For exhaust air only. Used with premium bathroom fans or dryer exhaust.



Specification Data

Model	Duct Size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
HS 4W	4	1	1	45151	13.-
HS 6W	6	1	1	45153	18.-

FML

Metal Hoods for Supply

A single prepainted aluminum hood with a white powder-coated finish for supply and exhaust applications. Equipped with a bug screen.

Specification Data

Model	Duct Size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
FML 8	8	2	1	45148	48.-
FML 10	10	3	1	45149	64.-
FML 12	12	3	1	45150	97.-
FML 14	14	4	1	492576	112.-

COM

Supply and Exhaust Hoods

Pair of Supply and Exhaust hoods with metal collars. COM 4P thru 6P are manufactured from white plastic. COM6M is manufactured from metal. White painted housing.

Specification Data

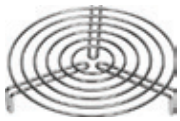
Model	Duct , inch	Duct Length* inch	Shippin weight, lbs	Shipping class	Item #	MSRP, USD
COM 4P	4	12 1/4 (11 1/8)	5	1	40369	31.-
COM 5P	5	13 1/2 (12 1/2)	5	1	40223	43.-
COM 6P	6	13 1/2 (12 1/2)	5	1	40222	48.-
COM 6M	6	3 1/4 (3 1/4)	4	1	40221	84.-

* Supply (Exhaust) duct

IG

Inlet Guard

Wire ring inlet guard used to prevent foreign objects from entering duct line. Zinc chromate plated steel.



Specification Data

Model	Duct size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
IG 4	4	1	1	411301	8.-
IG 5	5	1	1	411126	8.-
IG 6	6	1	1	411109	8.-
IG 8	8	2	1	411127	11.-
IG 10	10	2	1	411124	15.-
IG 12	12	2	1	411128	19.-

RC

Roof Cap

Roof Cap with damper flap closure, duct connection and screened exhaust opening.

Specification Data

Model	Duct size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
RC 4	4	2	1	411310	23.-
RC 5	4	3	1	411311	93.-
RC 6	6	3	1	411312	102.-
RC 8	8	5	1	411313	118.-
RC 10	10	7	1	411314	145.-
RC 12	12	9	1	411315	165.-

Appurtenances for Ducted Air Systems

Duct and Duct-mounted Components

FIDT

Insulated Flex Duct

Flexible round insulated duct. The insulation provides greater thermal efficiency to save energy. The product is also covered in a heavy duty, silver jacket for durability. The duct is UL listed. Available in 25-foot lengths.

Specification Data

Model	Duct size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
FIDT 4	4	7	1	411061	36.-
FIDT 5	5	8	1	411062	41.-
FIDT 6	6	9	1	411064	47.-
FIDT 8	8	11	1	411065	57.-
FIDT 10	10	13	1	411322	69.-

FC

Mounting Clamps

Mounting clips which facilitate the installation and removal of fans for service and cleaning. Made from galvanized sheet metal and fitted with an $^{1}/_{3}$" neoprene lining which suppresses vibration and ensures a tight fit. The mounting clips are clamped together by two screws, which allow for connecting ducts with a marginal difference in diameter. Sold in pairs.

Specification Data

Model	Diameter, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
FC 4	4	1	1	411295	20.-
FC 5	5	1	1	411108	26.-
FC 6	6	2	1	411120	28.-
FC 8	8	3	1	411121	30.-
FC 10	10	3	1	411122	33.-
FC 12	12	4	1	411123	36.-
FC 12-315	315 mm	4	1	45157	39.-
FC 14	14	4	1	45233	48.-

FEL 4

4" Elbow

Heavy-duty plastic 90º mounting collar/elbow for use in 2×4 stud walls. With half-inch drywall lip already set, just nail in place and connect duct. Low depth profile makes this elbow the perfect solution for sidewall ventilation within a wall partition. Suitable for 4-inch ducts.

Specification Data

Model	Duct Size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
FEL 4	4	2	1	45154	11.-

FY

Y-Connector for circular ducts

Made of galvanized sheet metal.

Specification Data

Model	Duct size, inch	Shippings weight, lbs	Shipping class	Item #	MSRP, USD
FY 4	4 x 4 x 4	2	1	411249	33.-
FY 5	5 x 5 x 5	2	1	411250	39.-
FY 6	6 x 6 x 6	2	1	411251	43.-
FY 644	6 x 4 x 4	2	1	412472	45.-
FY 664	6 x 6 x 4	2	1	45114	46.-
FY 866	8 x 6 x 6	3	1	411252	52.-
FY 8	8 x 8 x 8	3	1	411253	52.-
FY 810	10 x 8 x 8	4	1	411254	59.-

CKR

Duct Reducer

Round, concentric, galvanized metal duct size transition fitting.

Specification Data

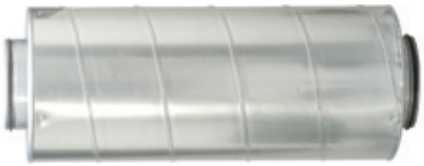
Model	Diameter, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
CKR 10-12	10 to 12	1	1	411970	19.-

Appurtenances for Ducted Air Systems

Duct and Duct-mounted Components

LD

Silencer for circular ducts



Easily-fitted silencer for circular ducts,fitted with a connection, which is compatible with a standard spiral duct. The LD effectively reduces noise in the duct. Two silencers can be used together in installations where noise reduction is critical. For the most effective noise reduction, the silencer should be fitted immediately behind a fan or bend.

- Insulation thickness 2 inches

Model	Duct, inch (mm)	Length, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
LD 4	4	23 5/8	13	1	411282	102.-
LD 5	5	23 5/8	16	1	411283	115.-
LD 6	6	23 5/8	17	1	411284	133.-
LD 8	8	23 5/8	20	1	411125	150.-
LD 10	10	35 1/2	26	1	411286	232.-
LD 12	12 (315)	35 1/2	35	1	411287	300.-
LD 14	14	35 1/2	44	1	483558	351.-
LD 16	16	35 1/2	56	1	411288	359.-

RSK

Backdraft Damper

Buy American Act Compliant

Backdraft damper for circular ducts, manufactured from galvanized sheet metal. The two blades are spring-loaded. Every damper is built with performance in mind. The damper can be mounted vertically.

Model	Duct, inch	Lendth, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
RSK 4	4	3 1/4	1	1	411112	16.-
RSK 5	5	3 1/8	1	1	411113	19.-
RSK 6	6	3 1/8	1	1	411114	20.-
RSK 8	8	3 1/8	1	1	411115	29.-
RSK 10	10	3	2	1	411116	35.-
RSK 12	12	3	2	1	411117	47.-
RSK 14	14	6 3/8	4	1	411198	147.-
RSK 16	16	6 3/8	5	1	45125	183.-

FGR

Filter Cassette

Cabinet is manufactured from galvanized sheet steel. Shipping class 1.

FGR 8 is shown.

Specification Data for Filter Cassettes

Model	Filter Type	Shipping weight	Max airflow	Item #	MSRP
		lbs	cfm		USD
FGR 8	MERV 6	7	480	44684	128.-
FGR 10	MERV 6	7	480	44685	153.-
FGR 12	MERV 6	9	645	44686	177.-
FGR 12HV	MERV 8	35	2,075	49896	292.-
FGR 14HV	MERV 8	34	2,075	49895	294.-

FGR RFP

Replacement Filter Packs

NEW!

A pack of supply air filters for filter cassettes FGR. Filter class MERV6 (MERV8 for FGR 12/14HV). Shipping class 1.

FGR 8/10 RFP is shown

Specification Data for Replacement Filters

Model	Quantity per pack	Shipping weight, lbs	Item #	MSRP, USD
FGR 8/10 Replacement Filter Pack	6	2	56060	47.-
FGR 12 Replacement Filter Pack	6	3	56061	61.-
FGR 12/14HV Replacement Filter Pack	12	15	56062	311.-

Appurtenances for Ducted Air Systems

Duct and Duct-mounted Components

ADC

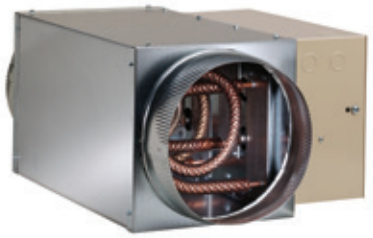
Shut-off Damper w/motor

Shut-off damper ADC is a turn off damper. The damper is provided with 24V AC motor with spring return actuator. Power connects to a connection block inside the electrical box. Positive closure is provided by a tight seal.

- Power Open Spring Closed (POSC)

Specification Data

Model	Duct size	Voltage	NC/NO	Shipping weight	Shipping class	Item #	MSRP
	inch	V		lbs			USD
ADC 4	4	24	NC	4	1	44966	107.-
ADC 6	6	24	NC	5	1	44967	107.-
ADC 8	8	24	NC	5	1	44690	115.-
ADC 10	10	24	NC	6	1	44691	121.-
ADC 12	12	24	NC	7	1	44692	131.-
ADC 14	14	24	NC	7	1	46245	149.-



EM-WX

Electric Heater

Duct heater with spigot connection for standard spiral circular ducts. Manufactured from Aluzinc-coated sheet metal. The heater maintains discharge air temperature set point. The unit is controlled by an integral electronic temperature regulator. Automatic reset at 135°F / 150°F / 180°F.

Specification Data

Model	Duct size	Rated power	Voltage	Max amps	Shipping weight	Shipping class	Item #	MSRP
	inch	kW / BTUh	V	A	lbs			USD
EM-WX 10	10	10 / 34,140	240 / 1	42	36	1	44688	995.-
EM-WX 12	12	20 / 68,280	240 / 1	80	50	1	497836	1,686.-
EM-WX 14	14	20 / 68,280	240 / 1	80	49	1	497860	1,703.-

Appurtenances for Ducted Air Systems

Duct and Duct-mounted Components

IR

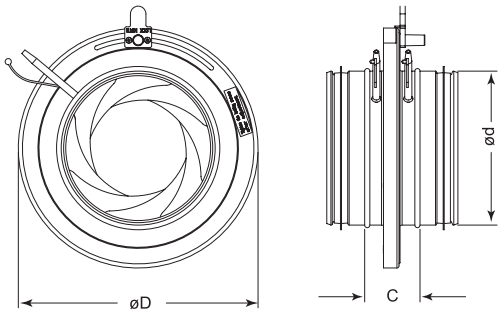
Iris Damper

The Iris Damper is the ideal device for measuring and adjusting airflow through a duct. The design of the adjustable aperture ensures low turbulence resulting in minimal self-generated noise. The damper is manufactured from galvanized sheet metal and is fitted with a rubber seal tested for air-tightness. The IR enables the taking of precise air flow measurements at all points including points close to duct deviations such as T junctions and bends, and points in front of other supply-air devices.

Specification Data

Model	ød	øD	C	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
IR 4	4	6 1/2	2 1/4	2	1	411234	65.-
IR 5	5	8 1/4	2 1/2	3	1	411235	67.-
IR 6	6	9	2	4	1	411236	71.-
IR 8	8	11 1/4	2 1/4	5	1	411237	83.-
IR 10	10	13	2 1/4	7	1	411238	141.-
IR 12	12	16	2 3/8	8	1	411239	165.-
IR 16	16	22	3 1/4	12	1	411240	376.-

Dimensions



Application-specific Ventilation Accessories

Residential Kitchen Exhaust

HL Baffle

NEW!

Baffle, Replacement 14"x12"

Stainless steel baffle filter replacement for HL series kitchen hood liners. Quantity of one baffle filter included.

Note: Hood liner models require multiple baffle filters: order the quantity appropriate for the HL model.

Specification Data

Model	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
HL Baffle	3	1	484139	140.-

HL Knob

NEW!

Knob, Metal Replacement

Metal control knob replaces the light dimmer switch knob and the fan speed control switch knob on HL series kitchen hood liners.

Quantity two knobs included.

Specification Data

Model	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
HL Knob	1	1	484136	15.-

Application-specific Ventilation Accessories

Residential-capacity Dryer Exhaust

DBLT 4W

Lint Trap for Dryer Exhaust Fans

Galvanized metal lint trap for dryer exhausting applications. Use when duct length between dryer and fan is less than 15 feet. Fits 4-inch duct. Features pull out white door with a view window with attached removable lint filter for easy cleaning and 1/2" flange for flush mount installation. The lint trap complements all Fantech dryer exhaust fans.

Specification Data

Model	Duct Size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
DBLT 4W	4	4	1	46000	52.-

DB 10

Pressure Switch

Automatic pressure switch (120V) allows for fully automatic operation of dryer exhaust fan. Fan runs for 10 minutes when positive pressure is sensed in the duct line then shuts off and turns on again as needed.

Specification Data

Model	Max Current, A	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
DB 10	3.8	1	1	411110	93.-

Radon Mitigation Systems

FRIK

Radon Installation Kit

Kits include a pair of flexible white couplings with stainless steel hose clamps, a U-tube manometer and radon system labels. FRIK SLQ includes the U-tube manometer and radon system labels only.

Model	Used with (fan models)	PVC pipe size, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
FRIK 190-3	HP 190	3	3	1	44960	60.-
FRIK 190-4	HP 190	4	3	1	44961	60.-
FRIK 2190-3	HP 2133 & 2190	3	3	1	44962	60.-
FRIK 2190-4	HP 2133 & 2190	4	3	1	44963	60.-
FRIK 220	HP 220	4	4	1	44964	60.-
FRIK SLQ	comes with manometer only		1	1	44965	20.-

Hi Alt Retrofit Switch for DBF 4XLT

Field-installed retrofit switch for a dryer exhaust fan installed in a high altitude location. Use only with fan model DBF 4XLT (not compatible with other DBF/DEDPV units). Recommended for installations above 7,000 ft elevation.

Specification Data

Model	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
Hi-Alt RS	1	1	413568	132.-

HEPA Filtration

RHF / RPFH

Replacement Filter

Replacement filter includes 1 HEPA filter. Filter also available in bulk of 12 pack RHF 1315B or RHF 16B. Shipping Class 1.

Specification data

Model	Filter type	Qty per package	Shipping weight, lbs	Item #	MSRP, USD
RPFH 1315	Pre-filter/Carbon	1	3	40195	38.-
RPFH 1315B	Pre-filter/Carbon	24	19	40196	681.-
RHF 16	HEPA	1	3	40193	121.-
RHF 16B	HEPA	12	22	40194	1,029.-


KC
KANSAS CITY
KANSAS CITY

LOOK AFTER IT

Renard Tolbert,
Customer Service Representative

"To get the best performance and longest life from your fresh air ventilator or a dryer exhaust fan, do take care to follow the specific maintenance instructions. They come with your product and you can refer to **fantech.net** if you need another copy."

Accessories for Commercial Fans

Power Roof Ventilation

5ACC..FS, 5ACC..FT

Fixed Non-Ventilated Curb

Manufactured from heavy gauge galvanized steel. Corners are welded construction. The curb features fiberglass insulation that deadens sound and minimizes heat loss. The curb is equipped with shutter flanges and a 1 $^{1}/_{2}$" and a wood nailer (fixed roof curbs only).

Specification Data

Model 8"/ 12"	Fan Size	5FSU Size	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
5ACC15FS	REC 54/6	-	11	2	49580	113.-
5ACC19FS	REC 8..10	-	28	2	471062	143.-
5ACC17FS / 5ACC17FT	8.5, 10	-	24 / 29	2	47206 / 47207	127.- / 162.-
5ACC20FS / 5ACC20FT	12, 13	-	28 / 33	2	47212 / 47213	140.- / 174.-
5ACC24FS / 5ACC24FT	15, 16	-	33 / 38	2	47217 / 47941	151.- / 189.-
5ACC28FS / 5ACC28FT	18, 20	5FSU 10	40 / 47	2	47221 / 47222	169.- / 210.-
5ACC32FS / 5ACC32FT	24	5FSU 12, 15	46 / 53	2	47226 / 47227	188.- / 232.-
5ACC40FS / 5ACC40FT	30	5FSU 18	57 / 68	2	47233 / 47901	237.- / 360.-
5ACC44FS / 5ACC44FT	36		63 / 74	2	47237 / 47238	273.- / 346.-

5ACC..VC

Fixed Ventilated Curb

Manufactured from galvanized steel. The curb features stamped louvers on curb sides that provide ventilation to hot exhaust ducts to protect building and roof members. Self-flashing design incorporates flat mounting flange for fastening directly to the roof deck. Curb is suitable for UL 762 commercial kitchen exhaust applications.

Specification Data

Model	Fan Size	Curb Height, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
5ACC 17VC	8.5, 10	24	38	2	47208	215.-
5ACC 20VC	12, 13	24	38	2	47214	230.-
5ACC 24VC	15, 16	24	47	2	47219	245.-
5ACC 28VC	18, 20	24	54	2	47223	269.-
5ACC 32VC	24	24	52	2	47228	329.-
5ACC 40VC	30	18	63	2	47234	403.-
5ACC 44VC	36	18	92	2	47665	426.-

Accessories for Commercial Fans

Power Roof Ventilation

5ACC..RD

Roof Mount Damper

Manufactured from 19-gauge galvanized steel frame 2" deep with 1" flange. For quiet operation aluminum blades have felted edges. Pre-punched conduit hole knock-out.

Specification Data

Model	Fan Size	Recommended Roof Opening	Outside Flange, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
5ACC 12RD	8.5, 10	12 1/2 x 12 1/2	14 x 14	3	1	47196	33.-
5ACC 15RD	12, 13	15 1/2 x 15 1/2	17 x 17	4	1	47203	39.-
5ACC 19RD	15, 16	19 1/2 x 19 1/2	21 x 21	5	1	47210	45.-
5ACC 23RD	18, 20	23 1/2 x 23 1/2	25 x 25	9	1	47215	58.-
5ACC 27RD	24	27 1/2 x 27 1/2	29 x 29	11	1	47220	67.-
5ACC 35RD	30	35 1/2 x 35 1/2	37 x 37	16	1	47229	95.-
5ACC 39RD	36	39 1/2 x 39 1/2	41 x 41	21	1	47232	115.-

5ACC..SD

Supply Damper

Manufactured from 19-gauge galvanized steel, frame is 2" deep with 1" flange. Aluminum blades have felted edges for quiet operation. System fan forces blades to open; integral spring returns blades to closed position. Pre-punched conduit hole knockout. Can be mounted on shelf in roof curb models 5ACC..FS / FT for supply air to building. Use with model series 5FSU filtered supply units. Shipping class 2.

Specification Data

Model	5FSU Size	Recommended Roof Opening	Fits curb model	Outside Flange, inch	Shipping weight, lbs	Item #	MSRP, USD
5ACC 23SD	5FSU 10	23 1/2 x 23 1/2	5ACC28FS / FT	25 x 25	9	482839	73.-
5ACC 27SD	5FSU 12, 15	27 1/2 x 27 1/2	5ACC32FS / FT	29 x 29	11	482840	85.-
5ACC 35SD	5FSU 18	35 1/2 x 35 1/2	5ACC40FS / FT	37 x 37	17	482842	118.-

SPEED CONTROLS AND DISCONNECT SWITCHES

Find appropriate speed control and disconnect switch accessories in the **Switches and Controls for Ventilation** section of accessories. See page 259.

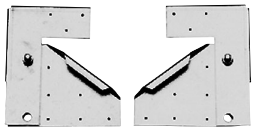
Accessories for Commercial Fans

Power Roof Ventilation

5ACC..HK

Hinge Kit

Model 5ACC 00HK suitable for 10"- 20" and model 5ACC 01HK suitable for 24"- 36". Allows entire fan to swing away for access to the wheel and ductwork.



Specification Data

Model	Fan Size	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
5ACC 00HK	10 - 20	4	1	47179	97.-
5ACC 01HK	24 - 36	40	1	47181	330.-

5ACC..GC

Grease Collector

The grease collector box manufactured from heavy gauge galvanized steel. It fastens to a ventilator base. Easy to remove for cleaning. Diverts and traps heavy residual grease while protecting roof surface. Available in 2 sizes.

Specification Data

Model 8"/ 12"	Fan Size	Length, inch	Width, inch	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
5ACC 00GC	10 - 13	14	5	4	1	47178	111.-
5ACC 01GC	15 - 36	24	7	12	1	47180	143.-

Side Wall Ventilation

2DVP

Venturi Frame

For customers assembling their own wall fans, this venturi frame is just the ticket! Made in the USA out of pressed galvanized steel, this heavy duty Venturi features a welded motor bracket and black powder coating. Just add your fan blade and motor.

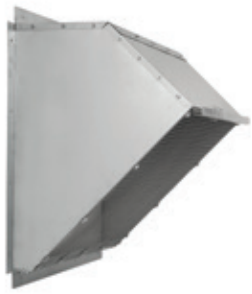
Specification Data

Model	Fan Size	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
2DVP 12	12	24	1	47420	81.-
2DVP 16	16	24	1	47755	103.-
2DVP 24	24	24	2	47725	124.-
2DVP 30	30	24	2	47614	162.-

1ACC..WH

Weatherhood

Shield fan and damper opening in walls from rain and snow. For direct- and belt-drive propeller fans. Sized to easily mount to wall collar. Galvanized steel construction. A bird screen is included. Weatherhoods are shipped unassembled with assembly hardware included. Shipping class 2.



Specification Data

Model	Fan Size	Recommended Wall Opening	Outside Flange, inch	Weight, lbs	Shipping class	Item #	MSRP, USD
1ACC24WH	24	28 1/4	32 x 32	31	2	47015	188.-
1ACC30WH	30	34 1/4	38 x 38	44	2	47020	256.-
1ACC36WH	36	40 1/4	44 x 44	58	2	47025	315.-
1ACC42WH	42	46 1/4	50 x 50	74	2	47030	323.-
1ACC48WH	48	54 1/4	58 x 58	97	2	47035	490.-

Accessories for Commercial Fans

Side Wall Ventilation

1ACC..WD

Wall Damper

Single panel exhaust shutter manufactured from 19-gauge galvanized steel frame 3" deep with 1 $^{5}/_{8}$" flange. For quiet operation aluminum blades have felted edges. The damper is designed for use with 2VLD ventilator models. Models 42WD and 48WD have double panel.

Specification Data

Model	Fan Size	Recommended Wall Opening	Outside Flange, inch	Weight, lbs	Shipping class	Item #	MSRP, USD
1ACC12WD	12	13 x 13	15 x 15	5	1	47004	60.-
1ACC16WD	16	17 x 17	19 x 19	6	1	47006	63.-
1ACC18WD	18	19 x 19	21 x 21	6	1	47008	63.-
1ACC20WD	20	21 x 21	23 x 23	7	2	47010	68.-
1ACC24WD	24	25 x 25	27 x 27	9	2	47014	84.-
1ACC30WD	30	31 x 31	33 x 33	17	2	47019	90.-
1ACC36WD	36	37 x 37	39 x 39	22	2	47024	96.-
1ACC42WD	42	43 x 43	45 x 45	26	2	47029	113.-
1ACC48WD	48	49 x 49	51 x 51	31	2	47034	209.-

1ACC..MD

Motorized Damper

Manufactured from 14-gauge galvanized steel frame 2" deep with 1" flange. Damper is equipped with a motor to open and a spring return to close. Maximum airflow is 3500 FPM. 120/240V, 0.19/0.11A, 60 Hz. 54MD and 60MD models are 240V only.

Specification Data

Model	Fan Size	Recommended Wall Opening	Outside Flange, inch	Weight, lbs	Shipping class	Item #	MSRP, USD
1ACC24MD	24	25 x 25	27 x 27	29	2	47011	290.-
1ACC30MD	30	31 x 31	33 x 33	39	2	47016	478.-
1ACC36MD	36	37 x 37	39 x 39	51	2	47021	545.-
1ACC42MD	42	43 x 43	45 x 45	67	2	47026	628.-
1ACC48MD	48	49 x 49	51 x 51	83	2	47031	693.-
1ACC54MD	54	55 x 55	57 x 57	114	2	47442	1,036.-
1ACC60MD	60	61 x 61	63 x 63	130	2	47980	1,106.-

1ACC..SG

Intake Guards

Manufactured from 20-gauge galvanized steel frame (except 48SG - 18-gauge). Screens are hinged and removeable for easy access. These guards comply with OSHA regulations. Shipped knocked down with assembly hardware included.

Specification Data

Model	Fan Size	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
1ACC12SG	12	35	1	47003	117.-
1ACC16SG	16	39	1	47005	155.-
1ACC24SG	24	35	1	47012	156.-
1ACC30SG	30	39	1	47017	207.-
1ACC36SG	36	61	2	47022	347.-
1ACC42SG	42	61	2	47027	401.-
1ACC48SG	48	120	2	47032	512.-

1ACC..WC

Wall Collar

An easy way to install vertically mounted supply and exhaust fans. An internal flange is provided for shutter mounting. The external flange provides a flashing for the wall opening. Galvanized steel construction.

Specification Data

Model	Fan Size	Shipping weight, lbs	Shipping class	Item #	MSRP, USD
1ACC24WC	24	53	2	47013	178.-
1ACC30WC	30	77	2	47018	255.-
1ACC36WC	36	88	2	47023	308.-
1ACC42WC	42	97	2	47028	314.-
1ACC48WC	48	123	2	47033	396.-

Terms & Conditions of Sale

TERMS AND PRICES

a) Terms and payment on all orders are subject to the approval of Fantech's credit department and, unless otherwise stated, are NET 30 days from the date of invoice without regard to the date of delivery of the Products. All orders will be COD prior to credit approval. No prox billing. 1-1/2% charge on all invoices over 30 days.

b) Prices and deliveries are FOB Fantech warehouse, or as otherwise stated, and the risk of loss and damage shall pass to Buyer upon the delivery to the carrier.

c) Buyer shall pay Fantech the amount of any sales, use or any other local, state or federal taxes which arise from the sale or delivery of the Products.

d) All pricing will be according to the current Fantech price list. Verbal quotes obtained via telephone are not binding, and subject to correction by the current printed Fantech price list. Unless a pricing quote is in writing from Fantech, the prices on the current price list supersede all prior price quotes.

e) Individual Project or Job quotes are subject to expiration 30 days from date of the quote unless otherwise stated.

f) The prices of any Product are subject to increase by Fantech to reflect increased costs of labor, raw materials, components, parts, overhead and other expenses.

g) Fantech reserves the right to change prices and specifications without notice.

h) No order will be shipped if any invoices are past due.

i) Next day or second day air shipments received after 12:00 PM EST are processed the following work day.

SHIPPING AND DELIVERY

a) Buyer's receipt of any products delivered by Fantech shall be an unqualified acceptance of, and a waiver by Buyer for any and all claims with respect to, such Products on the earliest to occur of 1) payment for the Products, or 2) failure of Fantech to receive notice in writing of shortages in the Products within ten (10) days of their delivery to Buyer.

b) UNDER NO CIRCUMSTANCES WILL FANTECH BE RESPONSIBLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING OUT OF OR OWING TO ANY DELAYS IN DELIVERY.

MINIMUM ORDER REQUIREMENTS

Traditional Distributors

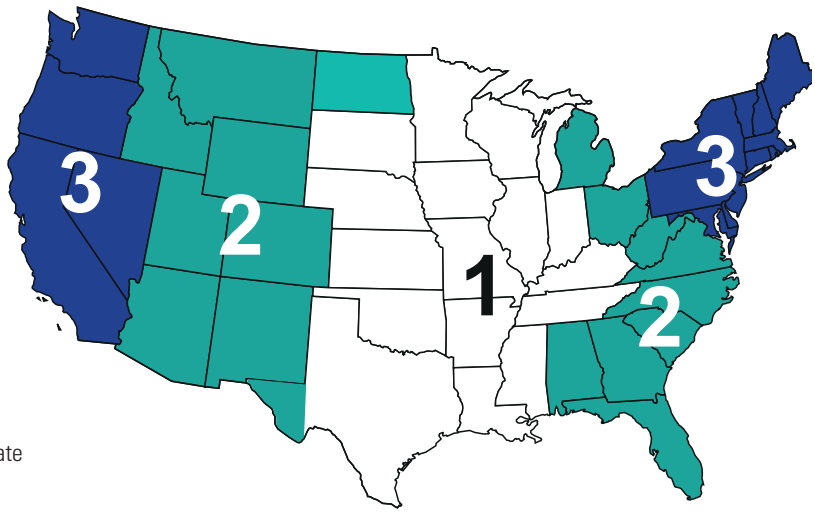
$200 Minimum order (orders will be raised to $200.00 if order is < $200)

Internet Distributors

$500 Minimum order ($100 handling change will be applied for orders < $500)

FREIGHT POLICIES

There are three classifications of products in this price list: Class 1, Class 2 and Class 3. Please, refer to the Fantech Excel version pricing sheet for Product Class Designations.



Zone	Freight adder	
	Class 1 or 2	Class 3
1	6.5 %	2 %
2	7.0 %	3 %
3	8.5 %	4 %

Class 1 Products

Fantech will prepay freight on orders of $2000 or more at net invoice pricing. For order less than $2000 NET freight charges will be calculated based on destination of shipment and added to invoice or shipped Collect. Please, refer to the three distinct zones indicated on the map at right and the freight added chart (above) to calculate charges. Inquire with your Fantech Sales Representative how to qualify for Class 1 prepaid threshold at $1,250 NET (orders without ERV/HRVs).

Class 2 Products

Fantech will prepay freight on orders of $10,000 or more at net invoice pricing. For order less than $10,000 NET freight charges will be calculated based on destination of shipment and added to invoice or shipped Collect. Please, refer to the three distinct zones indicated on the map at right and the freight added chart (above) to calculate charges.

Class 3 Products

Fantech will prepay freight on orders remains of $10,000 and more net, however a lower freight charge schedule will apply for the Class 3 items shipped in the continental USA.

Terms & Conditions of Sale

FREIGHT POLICIES (Cont.)

Class 3 Products

Model	Item #	Model	Item #
SHR 6904	40417	SHR 14105R	40445-1
SHR 6905R	41047	SER 6004	75266
SHR 8004	40443-1	SER 9504	75267
SHR 8005R	40455-1	SER 13004	75268
SHR 11004	40419	MUAS 650	K46000
SHR 11005R	41048	MUAS 1600	K46001
SHR 14104	40438-1	MUAS 2000	K46002

An order with a combination of
Classes 1, 2 or 3 products where the total net invoice is less than $10,000:

Items that would have qualified for Freight allowed such as $2,000 of Class 1 items will ship Freight allowed. The balance of the order will be charged freight and handling respective to Class.

This freight allowed is valid within the continental U.S. only; no order will be prepaid to Alaska, Hawaii, Canada, Puerto Rico, or any other location outside the continental U.S. Freight allowed shipments will be shipped by best way "ground" as determined by Fantech. For special or nonstock products check with Fantech Customer Service. Orders which include special or nonstock Products will be processed as split shipments with stock items shipped at once and special or nonstock products shipped when available unless a notation to the contrary appears on Buyer's purchase order. If Buyer specifies express or air shipment, Buyer shall pay the difference between express or air and freight rates (see Shipping Policy for additional information).

DAMAGES OR SHORTAGES

a) Claims for damages or shortages must be reported within ten (10) days of receipt of Product.
b) For any Product received damaged by a trucking company

THESE INSTRUCTIONS MUST BE FOLLOWED:

1. If Product received by UPS:
   Concealed damages: Keep all cartons, call for inspection and notify Fantech immediately. Visible damages: Damaged goods due to shipping must be filed with UPS immediately.
2. If Product received by a freight company:
   All damages due to handling during shipping must be filed directly with the freight company. Claim must be made by receiver immediately.

c) Shortages: Sign only for the number of pieces received, and call Fantech immediately.

FANTECH RETURN POLICY

a) All returns must be preauthorized and shipped with a Returned Materials Authorization (RMA) number. This can be obtained only by Buyer from Fantech.
b) RMA number must be clearly written on the outside of the carton, or the carton will be refused.
c) All Products being returned must be shipped prepaid.
d) Any Product returned to us that is not covered by Warranty will be returned, without action, to Buyer, freight collect; no credit will be issued.
e) Orders placed cannot be cancelled or altered nor can deferred deliveries of Products completed or in process be extended beyond original specified delivery dates, except with Fantech's consent and upon terms which will indemnify Fantech against loss.
f) Any claim based on the receipt of damaged products must be filed with the carrier which delivered the Products. Fantech will not allow credit for the return of damaged Products.
g) Items from the Pricelist returned within 1 year from date of purchase are subject to a 25% restocking fee for inspection and repackaging providing all items are in salable condition. No returns will be accepted beyond 12 months from date of sale.
h) No returns will be accepted for products not on the current Pricelist.
i) PRODUCTS RETURNED WITHOUT FANTECH'S RETURN MATERIALS AUTHORIZATION NUMBER WILL NOT BE ACCEPTED. FANTECH WILL NOT ACCEPT THE RETURN OF ANY SPECIAL, NONSTOCK, OBSOLETE OR UNSALEABLE PRODUCTS.

Terms & Conditions of Sale

FANTECH WARRANTY

1. EXCEPT AS EXPRESSLY STATED IN THIS AGREEMENT, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE. FANTECH DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AS TO BOTH FANTECH AND NON FANTECH PRODUCTS. FANTECH'S WARRANTIES EXTEND SOLELY TO ITS CUSTOMER. FANTECH WILL NOT BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF USE, REVENUES, PROFITS OR SAVINGS, EVEN IF FANTECH KNEW OR SHOULD HAVE KNOWN OF THE POSSIBILITY OF SUCH DAMAGES.

2. Equipment Warranty and Disclaimers

a) Subject to conditions (b) through (h) below, Fantech warrants that Equipment sold by it will be free from defects in material and workmanship during the Warranty Period. During the Warranty Period, Fantech will repair or replace any defective item of Equipment or part or component of Equipment, promptly sent to Fantech by Customer, which Fantech determines was defective due to faulty material or workmanship. "Warranty Period" means the period stated to be such on the operations manual

b) Because Equipment requires ongoing maintenance, the preceding warranty is void if the maintenance specified by Fantech as required maintenance has not been performed, as determined by Fantech.

c) This Warranty is void if the Fantech label control number or date of manufacture, which is affixed to the Equipment, has been removed or altered in any way

d) This Warranty does not apply to damage occurring after Fantech shall have delivered the Equipment to a shipper. If damage, whether concealed or visible, has been caused by shipping, Customer must file a claim with the freight company

e) This Warranty does not apply to damages resulting from improper wiring or installation, or resulting from improper consumer procedures such as lack of proper maintenance, misuse, abuse, abnormal use, use by an application other than one recommended by Fantech, or accident or application of incorrect electrical voltage or current

f) This Warranty does not apply to damage or failure caused by any cause beyond the control of Fantech, including acts of God, war, terrorism, riot, or insurrection

g) In no event will Fantech be liable for claims, demands, or actions against Customer by any person except as provided in Section 3

h) The entire liability of Fantech and Customer's exclusive remedy for any defective, non-Fantech products provided under this Agreement is limited to their return to Fantech within 90 days after shipment for refund of the amount paid to Fantech for such products (not including any amounts paid for related services.

3. Patent, Copyright and Trade Secret Indemnification.

a) Fantech, at its own expense, will defend and indemnify Customer against claims that products furnished under this Agreement infringe a United States patent or copyright, or misappropriate trade secrets protected under United States law, provided Customer: (i) gives Fantech prompt written notice of such claims at the following address: 10048 Industrial Blvd, Lenexa, Kansas 66215; (ii) permits Fantech to defend or settle the claims; and provides all reasonable assistance to Fantech in defending or settling of claims

b) As to any product which is, or in the opinion of Fantech, may become subject to a claim of infringement or misappropriation, Fantech may elect to (i) obtain the right of continued use of such product for Customer; or (ii) replace or modify such product to avoid such claim. If neither alternative is available on commercially reasonable terms, as determined by Fantech, then, at the request of Fantech, Customer will discontinue use and return the Equipment, and Fantech will grant a credit for the price paid to Fantech, less a reasonable offset for use and obsolescence

c) Fantech will not defend or indemnify Customer if any claim of infringement or misappropriation (i) is asserted by parent, subsidiary or affiliate of Customer; (ii) results from Customer's design or alteration of any product, or (c) results from the use of any product in combination with any non-Fantech product

d) This paragraph 3 states the entire liability of Fantech and Customer's sole and exclusive remedies for patent or copyright infringement and trade secret misappropriation.

4. Warranty Claim Procedure

a) Customer will pay transportation and insurance costs to ship Equipment if an offsite inspection and repair location is designated by Fantech. Fantech will pay the return costs if the Equipment was defective. Labor costs of diagnosis are not included in this Warranty;

Terms & Conditions of Sale

FACTORY RETURN

For factory return you must:

- Have a Return Materials Authorization (RMA) number. This may be obtained by calling FANTECH at 800.565.3548. Please have bill of sale available
- The RMA number must be clearly written on the outside of the carton, or the carton will be refused.
- All parts and/or product being returned must be shipped prepaid, and be accompanied with a copy of the bill of sale.

or

The List may place an order for the warranty part and/or product and is invoiced. The List will receive a credit equal to the invoice only after product is returned prepaid and verified to be defective.

FANTECH WARRANTY TERMS DO NOT PROVIDE FOR REPLACEMENT WITHOUT CHARGE PRIOR TO INSPECTION FOR A DEFECT. REPLACEMENTS ISSUED IN ADVANCE OF DEFECT INSPECTION ARE INVOICED, AND CREDIT IS PENDING INSPECTION OF RETURNED MATERIAL. DEFECTIVE MATERIAL RETURNED BY END USERS SHOULD NOT BE REPLACED BY THE List WITHOUT CHARGE TO THE END USER, AS CREDIT TO List'S ACCOUNT WILL BE PENDING INSPECTION AND VERIFICATION OF ACTUAL DEFECT BY FANTECH.
WARRANTY VALIDATION

- The user must keep a copy of the bill of sale to verify purchase date.
- These warranties give you specific legal rights, and are subject to any applicable consumer protection legislation. You may have additional rights which vary from state to state.

fantech.net

Our website provides tailored tools and information such as in-depth product & service information, online product selector, and where to buy lookup. So when you start your planning, start by exploring **fantech.net**

FAQ

Some questions are more common than others. That's why we created an FAQ section under the Support tab at **fantech.net**. If you can't find the answer to your question there, please feel free to contact us.

GET IN TOUCH

Phone

Need to talk to a live person? We're always happy to assist you. You can reach us at 800.747.1762. If you would like to see our Customer Care Team Members visit our Contact page at **fantech.net**

E-mail

Want to ask a specific question?

Write to us at email **USsupport@fantech.net**

Our goal is to respond within 24 hours.

INDEX

DESIGN

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