



Products for a Healthier Indoor Environment
Inline Ventilation for the Home and Workplace



Metal and Plastic
Inline Fans and Accessories





Products for a Healthier Indoor Environment Don't Just Build Green...Build Spruce Green

Spruce Environmental Technologies, Inc. manufactures inline ventilation fans available through authorized distributors. The company, founded in 1989, is committed to improving indoor air quality by building the highest quality inline ventilation fans. Since we developed our first inline fan, we have expanded the Spruce product offerings to include more than 21 fan models. Foremost in our product research and planning are the public's growing concerns about healthier indoor air and builders' and contractors' desire to comply with green building practices and requirements. To further address those concerns and needs, we also have added accessories, such as current-sensing and pressure-sensing switches, to our product offerings to make our *green* products even *greener*.



Spruce is an Energy Star® Partner, with more than 90 percent of our fans Energy Star® Qualified, and most are HVI Certified and ETL Listed.



Our complete line of metal and plastic inline fans supply superior ventilation for use in the home and workplace, including:



- Bathrooms
- Kitchens
- Family or Hobby Rooms
- Laundry Rooms
- Basements
- Commercial Duct Boosting
- Garages
- General/Whole House
- Radon and Other Soil Gas Reduction
- Moisture Control
- Duct Boosting
- Indoor Growing

In addition to individual inline fans, this catalog includes full Dryer Boosting and Radon Reduction Kits, as well as HomeAire™ Active Dampness Control fans and installation kits.

For additional information about Spruce or our products, please visit our website, www.spruce.com or contact our Director of Sales at 800-355-0901 or sales@spruce.com.



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Bathroom Ventilation



Multiple intake points with one fan.

Spruce Inline Fans offer quiet, effective bath ventilation.

Spruce Energy Star® rated remote mounted inline bath fans operate in true silence. Their balanced design and high quality motors offer the latest technology in home ventilation.

Without proper ventilation, residual surface moisture builds up on bathroom walls, linens and carpeting. Moisture buildup can cause or increase allergy symptoms by encouraging the growth of mold, mildew, bacteria and dust mites.

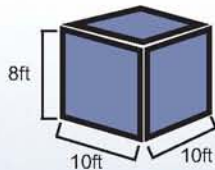
Moisture can cause more than unsightly mildew stains and allergy symptoms. It can also create structural damage by providing an ideal condition for insects and wood rot. The Home Ventilation Institute recommends a ventilation rate based on the size of the room and the number and type of fixtures present. Exhaust points should be located over or near the shower and/or tub and in any enclosed toilet area. A Spruce inline fan is ideal as it can attach to multiple intake points. Matched with the proper fan control, an Energy-Star® fan from Spruce is truly *Green friendly*.



Features:

- ◆ Remote Mounting
- ◆ Ultra Quiet
- ◆ Rated for Commercial or Residential Installations
- ◆ Five-Year Warranty
- ◆ Rated for Continuous Operation
- ◆ Available with Variable Speed Control

Bathroom Ventilation



Sizing Guide For Bathroom: 8 Air Changes/Hour (ACH)

Example: 10ft x 10ft x 8ft ceilings =
800 cu. ft x 8 / 60 = 107 CFM Fan

Fans suitable for bathroom application:

- RV Series
- RB Series
- RL Series

Model	Description	Energy Star	CFM @ 0" WC	CFM @ 0.2" WC
RV125	4" Duct - 125 CFM		116	110
RV150	4" Duct - 150 CFM		150	140
RV200	6" Duct - 185 CFM		185	170
RB110	4" Duct - 135 CFM	✓	135	100
RB275	6" Duct - 275 CFM	✓	275	230
RB300	6" Duct - 320 CFM	✓	320	270
RB350	6" Duct - 302 CFM		327	302
RB400	8" Duct - 470 CFM	✓	510	470
RB500	10" Duct - 500 CFM	✓	500	460
RL200	4" Duct - 160 CFM	✓	160	147
RL300	6" Duct - 261 CFM	✓	261	237
RL350	6" Duct - 290 CFM	✓	290	266
RL450	8" Duct - 476 CFM	✓	476	429
RL500	10" Duct - 531 CFM	✓	531	479
RL600	12" Duct - 665 CFM	✓	670	610



See pages 15-16 for specifications.

Kitchen Ventilation

Spruce Inline Fans provide a clean, odor-free environment. 

The Spruce line of virtually silent RL Series metal fans minimize grease buildup and maximize proper ventilation to control cooking odors and moisture in the kitchen, helping to meet Energy Star® Indoor Air Package requirements. Spruce RL fans feature a phosphorus steel housing specifically designed to withstand the harsh elements that cooking produces. A baked powder interior and exterior coating prevents grease corrosion and is heat resistant.

The performance characteristics of the RL Series are ideal for both commercial and residential kitchens. They help to maintain better air quality by providing a strong, quiet ventilation system. Every chef and cooking hobbist will appreciate the benefits of the RL Series fans and their ability to quietly remove contaminants, smoke, grease, odor and moisture.

HVI Sizing Recommendations

By Range/Cooktop Location

Location	Ventilation Rate/Linear Ft. of Range	Min. Ventilation Rate/Linear Ft. of Range
Against a wall	100 CFM	40 CFM
In an island	150 CFM	50 CFM

By BTU

For high output, professional-grade cooktops and ranges

10 CFM for every 1,000 BTUs

Example: 4-burner cooktop w/9,000 BTUs/burner = 36,000 BTUs : 1000 BTUs = 36 X 10 CFM = 360 CFM

Features:

- ◆ Remote Mounting
- ◆ Quiet
- ◆ Rated for Commercial or Residential Installations
- ◆ Five-Year Warranty
- ◆ Rated for Continuous Operation
- ◆ Available with Variable Speed Control



Kitchen Ventilation



Fans suitable for kitchen application:

- RV Series
- RB Series
- RL Series



Model	Description	Energy Star	CFM @ 0" WC	CFM @ 0.2" WC
RL200	4" Duct - 160 CFM		160	147
RL300	6" Duct - 261 CFM	✓	261	237
RL350	6" Duct - 290 CFM	✓	290	266
RL450	8" Duct - 476 CFM	✓	476	429
RL500	10" Duct - 531 CFM	✓	531	479
RL600	12" Duct - 665 CFM	✓	670	610

See pages 15-16 for specifications.

Dryer Boosting

There is a solution to drying clothes completely and efficiently.

Clothes dryers, particularly in today's large homes, condos and apartment buildings often are installed at a distance from exterior vent outlets. The resultant long duct runs can compromise the dryer's efficiency and increase the amount of energy required to adequately dry clothes.

A remotely installed Spruce inline fan is the ideal solution to this problem. It will boost air flow, working nearly silently to increase dryer efficiency, reduce energy consumption and avoid heat buildup. Spruce Dryer Boost Kits come complete with switching options to automatically turn the fan on and off with dryer operation.



Dryer Boosting



Dryer Boost Kits:

Kits include inline fan, switch, and mounting bracket.

- Interior mount
- Lightweight, durable construction
- Rated for continuous operation

SDB110C Kit

For use with 4" duct. Includes

- RB110 Inline Fan
- A/C Current-Sensing Switch

SDB350C Kit

For use with 4" or 6" duct. Includes

- RB350 Inline Fan
- A/C Current-Sensing Switch

SDB110P Kit

For use with 4" duct. Includes

- RB110 Inline Fan
- Air Pressure-Sensing Switch
- Probe
- Vinyl tubing

Radon Reduction & Other Soil Gases

Spruce fan kit for radon and other soil gas reduction

Radon Reduction Kit*

Spruce specifically designed the RV200 fan for radon mitigations. It is equally effective for reducing levels of other harmful soil gases. The fan's 6" duct is easily connected to 4" PVC pipe with a 4"x6" flexible coupling. The RV200 is extremely effective for subslab systems. It is ultra quiet and suitable for wet environments. Sold separately or as part of a kit which includes:



- RV200 Fan
- 4"x 6" Flexible Couplings (2)
- Manometer
- System Label
- Component Label



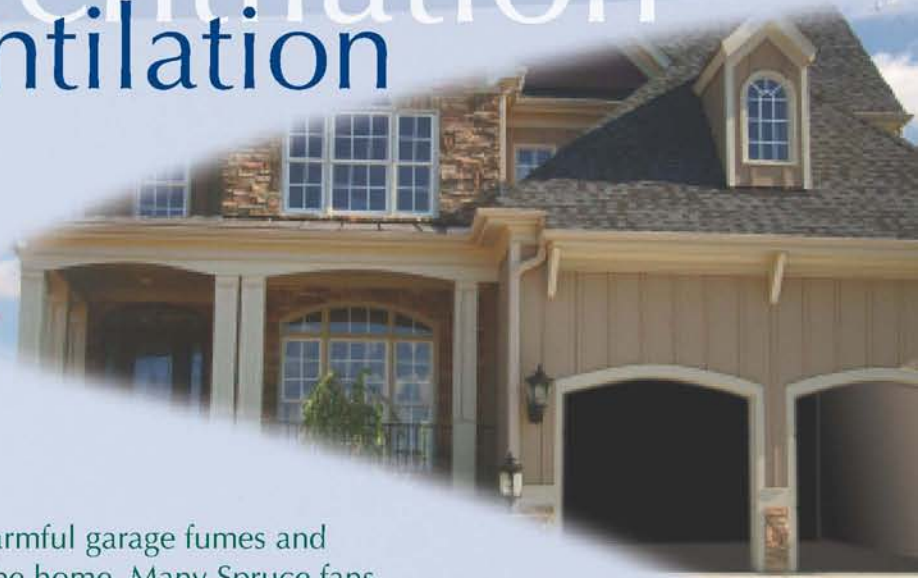
Features:

- ◆ Ultra quiet
- ◆ Can be installed indoors or outdoors
- ◆ Designed for commercial and residential use
- ◆ 5-year warranty

*Spruce Environmental Technologies, Inc. has designed this kit to be installed by qualified radon mitigators. We do not recommend that unqualified personnel install a radon reduction system.

Garage Ventilation

Garage Ventilation



Spruce Garage Ventilation

Spruce inline fans are ideal for removing harmful garage fumes and pollutants, preventing them from entering the home. Many Spruce fans comply with the Energy Star® Indoor Air Package, which specifies: Garages shall have an ENERGY STAR qualified 100 cfm exhaust ventilation fan venting to outdoors, designed for continuous operation.



Features:

- ◆ Ultra Quiet
- ◆ Indoor or Outdoor Installation*
- ◆ Rated for Commercial or Residential Installations
- ◆ Five-Year Warranty

Model	Description	Energy Star	CFM @ 0" WC	CFM @ 0.2" WC
RV125	4" Duct - 125 CFM		116	110
RV150	4" Duct - 150 CFM		150	140
RB110	4" Duct - 135 CFM	✓	135	100
RB275	6" Duct - 275 CFM	✓	275	230
RL200	4" Duct - 160 CFM		160	147
RL300	6" Duct - 261 CFM	✓	261	237

See pages 15-16 for specifications.

* Plastic fans (non metal fans) are suitable for outdoor use.



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www.spruce.com

Continuous Ventilation & Duct Boosting

Continuous Ventilation & Duct Boosting

Mechanical ventilation is often necessary to assure good indoor air quality in today's tightly sealed homes and commercial buildings. A Spruce inline fan enhances air quality and helps to meet Energy Star® IAQ requirements with continuous ventilation, which reduces point source pollutants in a variety of home and business settings including workshops, hobby rooms, smoking rooms and other indoor spaces where pollutants enter the air.

Spruce inline fans are ideal for ventilating a new addition and/or for improving the efficiency of an existing air system. Duct boosting will give an old heating and cooling system the lift it needs to get conditioned air into newly expanded living or working areas as well as any other areas that need a boost to condition the air properly.



Model	Description	Energy Star	CFM @ 0" WC	CFM @ 0.2" WC
RV125	4" Duct - 125 CFM		116	110
RV150	4" Duct - 150 CFM		150	140
RV200	6" Duct - 185 CFM		185	170
RB110	4" Duct - 135 CFM	✓	135	100
RB275	6" Duct - 275 CFM	✓	275	230
RB300	6" Duct - 320 CFM	✓	320	270
RB350	6" Duct - 302 CFM		327	302
RB400	8" Duct - 470 CFM	✓	510	470
RB500	10" Duct - 500 CFM	✓	500	460
RL200	4" Duct - 160 CFM		160	147
RL300	6" Duct - 261 CFM	✓	261	237
RL350	6" Duct - 290 CFM	✓	290	266
RL450	8" Duct - 476 CFM	✓	476	429
RL500	10" Duct - 531 CFM	✓	531	479
RL600	12" Duct - 665 CFM	✓	670	610



Fresh Air Injection & Make-Up Air

Fresh Air Injection & Make-Up Air

Bringing in fresh air is a priority for creating a healthy indoor environment. In addition, combustion equipment (gas-fired water heater, clothes dryer, furnace, etc.) requires fresh air to operate properly. Many of today's homes are built so tightly that air must be introduced by a fan. Spruce inline fans offer excellent performance with minimal sound. For the most efficiency and energy savings while injecting needed make-up air, Spruce fans can be set to turn on automatically when appliances are in use by installing an appropriate switching mechanism. (See page 19.)



Fans suitable for applications:

- RV Series
- RB Series
- RL Series



Model	Description	Energy Star	CFM @ 0" WC	CFM @ 0.2" WC
RV125	4" Duct - 125 CFM		116	110
RV150	4" Duct - 150 CFM		150	140
RV200	6" Duct - 185 CFM		185	170
RB110	4" Duct - 135 CFM	✓	135	100
RB275	6" Duct - 275 CFM	✓	275	230
RB300	6" Duct - 320 CFM	✓	320	270
RB350	6" Duct - 302 CFM		327	302
RB400	8" Duct - 470 CFM	✓	510	470
RB500	10" Duct - 500 CFM	✓	500	460
RL200	4" Duct - 160 CFM		160	147
RL300	6" Duct - 261 CFM	✓	261	237
RL350	6" Duct - 290 CFM	✓	290	266
RL450	8" Duct - 476 CFM	✓	476	429
RL500	10" Duct - 531 CFM	✓	531	479
RL600	12" Duct - 665 CFM	✓	670	610

See pages 15-16 for specifications.



800.355.0901
www.spruce.com

Moisture Control

Moisture Control

Build Green - Reduce Moisture Entry

Basement dampness in newly constructed homes is responsible for a myriad of new home problems, including warping wood, odors, mold and insect infestation. Studies have shown that properly installed inline moisture control fans can prevent more than 1,000 gallons of water vapor from entering the home each year.

HomeAire™ Active Dampness Control (ADC) fans from Spruce run quietly and continuously for only pennies a day, protecting the home by exhausting damaging moisture and harmful gases and providing significant health and comfort benefits for the homeowners.

Installation guidelines must be followed to obtain moisture control benefits from ADC fans.

Most importantly, they must be installed on a properly prepared site during new construction. A properly prepared site will include:

- 4" layer of gravel
- 6 mil (minimum) vapor barrier
- 3" or 4" PVC pipe
- ADC fan

For more site preparation details, contact your Spruce representative or go to www.spruce.com/pdfs/ADC-siteprep.

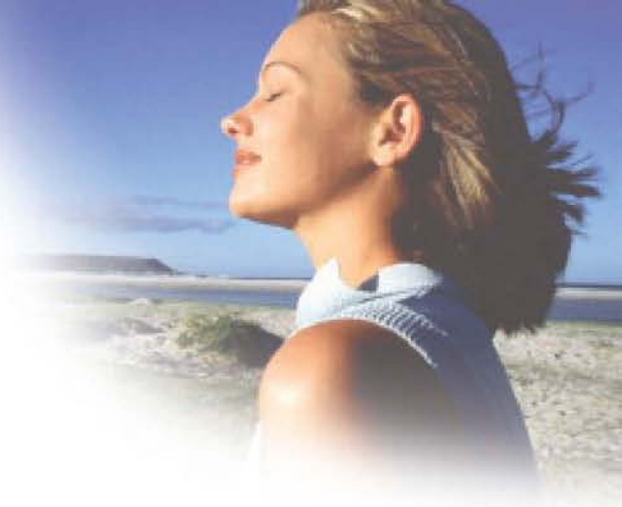


Model	Description	Watts	CFM @ 0.5" WC
ADC-4	4" Duct - 134 CFM	14-20	68
ADC-5	4" Duct - 173 CFM	37-71	132
ADC-6	6" Duct - 275 CFM	52-72	180
ADC-7	6" Duct - 327 CFM	86-140	260

See page 17 for ADC Installation kits.



RL Series Metal Housings



Suitable for:

- Bathroom Ventilation
- Kitchen Ventilation
- Duct Boosting
- Living Area



Model	P/N	Duct	Watts	Typical CFM vs. Static Pressure							Energy Star
				0"	0.2"	0.5"	0.75"	1.0"	1.25"	1.5"	
RL200	28224	4"	39-59	160	147	127	108	90	60	42	--
RL300	28225	6"	50-73	261	237	175	125	90	55	37	✓
RL350	28226	6"	64-86	290	266	220	175	141	100	55	✓
RL450	28227	8"	95-150	476	429	350	280	235	192	145	✓
RL500	28228	10"	98-152	531	479	395	310	240	197	160	✓
RL600	28126	12"	150-215	670	610	513	420	329	263	206	✓



Model	H	h	L	D	d
RL200	8.75	7.38	4.88	9.50	3.88
RL300	9.38	7.50	6.88	13.50	5.88
RL350	9.38	7.50	6.88	13.50	5.88
RL450	10.50	9.13	6.88	13.50	7.88
RL500	10.50	9.13	6.88	13.50	9.88
RL600	N/A	10.00	8.00	15.88	12.38

RV Series



Suitable for:

- Bathroom Ventilation
- Kitchen Ventilation
- Duct Boosting
- Living Area



Model	P/N	Duct	Watts	Typical CFM vs. Static Pressure						
				0"	0.2"	0.5"	0.75"	1.0"	1.25"	1.5"
RV125	28042	4"	48-68	116	110	98	88	72	57	44
RV150	28041	4"	48-65	150	140	119	100	76	53	26
RV200	28049	6"	49-65	185	170	144	123	87	48	1

RB Series



Suitable for:

- Bathroom Ventilation
- Kitchen Ventilation
- Duct Boosting
- Living Area



Model	P/N	Duct	Watts	Typical CFM vs. Static Pressure							Energy Star
				0"	0.2"	0.5"	0.75"	1.0"	1.25"	1.5"	
RB110*	28128	4"	14-20	135	100	68	10	--	--	--	✓
RB275*	28115	6"	52-72	275	230	176	140	103	70	20	✓
RB300	28088	6"	65-90	320	270	211	172	135	90	30	✓
RB350	28261	6"	86-140	327	302	260	230	207	176	139	--
RB400	28206	8"	103-156	510	470	393	315	268	218	165	✓
RB500	28207	10"	103-156	500	460	384	319	259	197	136	✓

*Dimensions differ from those shown:

RB110 H8.5" x Dia.9.7"
RB275 H8.6" x Dia.11.8"

Dryer

Dryer Boosting Kits



Model	P/N	Duct	Watts	Typical CFM vs. Static Pressure							
				0"	0.2"	0.5"	0.75"	1.0"	1.25"	1.5"	
SDB110P	28131	4"	14-20	135	100	68	10	---	---	---	
SDB110C	28259	4"	14-20	135	100	68	10	---	---	---	
SDB350C	28260	6"	86-140	327	302	260	230	207	176	139	

Radon

Radon Reduction Kit

Radon Reduction kit includes:

- RV200 Fan
- 2 4"x6" flexible couplings
- 2 component labels
- 1 manometer
- 1 system label



Model	P/N	Duct	Watts	Typical CFM vs. Static Pressure							
				0"	0.2"	0.5"	0.75"	1.0"	1.25"	1.5"	
Kit	28274	6"	49-65	185	170	144	123	87	48	1	

Moisture

Moisture Control Kits



Model	P/N	Duct	Watts	CFM @	CFM @
				0" WC	0.5" WC
ADC-4	28162	4"	14-20	134	68
ADC-5	28163	4"	37-71	173	132
ADC-6	28164	6"	52-72	275	180
ADC-7	28165	6"	86-140	327	260

- 3" x 4"**
- (2) 3" x 4" Couplings
 - Manometer
 - System Labels

- 4" x 4"**
- (2) 4" x 4" Couplings
 - Manometer
 - System Labels

- 4" x 6"**
- (2) 4" x 6" Couplings
 - Manometer
 - System Labels

Black:
P/N 28211

Black:
P/N 28215

Black:
P/N 28217

White:
P/N 28212

White:
P/N 28216

White:
P/N 28218



Accessories

Additional Products & Accessories

Intake / Exhaust Grilles



duct grille w/ metal collar
for joist mount
4", 6", 8" available



duct grille w/ locking ring
for ceiling mount
4", 6", 8" available



Return/exhaust grille
assembly w/adjustable
damper; fits 4", 6", 8" duct*
* Rough-in flanges available; inquire



Grille/light; 7" ceiling mount
w/14 watt fluorescent bulb;
4" duct; Energy Star

Roof Vent Caps



Milled aluminum
4", up to 7", up to 10"

Self-Dampening Vent Hoods



louvered white plastic
with tailpiece
4", 6" available



wide mouthed aluminum
with tailpiece
4", 6", 3 1/4" x 10" available

Backdraft Dampers



Inline metal
4", 6", 8" available

Duct Connectors



metal Y
4", 6", 8" available



metal T
4", 6" available



metal straight
4", 6" available

Undampened Intake/ Exhaust Vent w/Screen



4" white plastic wide
mouth with tailpiece



6" louvered white plastic

Makeup Air Inlets



AIRLET 200, 5" x 9", 5 1/8"
round sleeve,
white grille

Reducers / Clamps



5" x 4" metal reducer
6" x 4" metal reducer
6" x 5" metal reducer



Metal worm drive
4", 6", 8" available

Duct



Flexible Vinyl
4" x 8'
4" x 20'
4" x 50'



Foil-Laminate Flex
- UL Listed
4" x 25'
6" x 25'
8" x 25'



Semi-Rigid Aluminum
4" x 8'
4" x 25'
6" x 8'
6" x 25'



Insulated Flexible - UL
Listed
4" x 25'
6" x 25'
8" x 25'

Fan Controls



Fan speed control
(Motor Rated)



Humidity-activated switch
(adjusts from 20-80% RH)

MARKTIME



For Greener building and energy savings, install a MarkTime® switch with a Spruce Energy Star® fan. Control energy use as well as mold and mildew in high moisture environments with a MARKTIME® switch. MARKTIME® switches can be used in many applications in combination with exhaust fans, lights, and heat lamps.

MarkTime Switches



MarkTime® fan/light timer
switch, ivory;
2 position, on/time-delay off



MarkTime® fan/light timer
switch, white;
2 position, on/time-delay off



MarkTime® digital fan/light
timer switch, white/ivory
decorative overlay; time-delay
off at 20, 40 or 60 min.

MarkTime® digital timer switch,
white/ivory decorative overlay;
time-delay off at 15, 30, 60 or
120 min.



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