



# Fantech

## Heat Recovery Ventilator

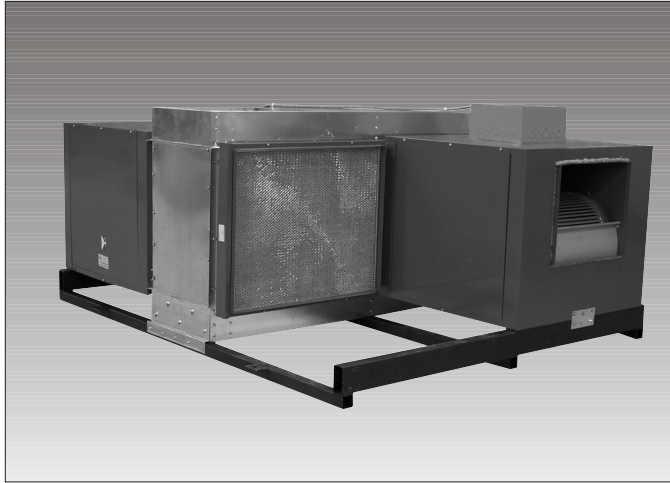
# KHP 20000

# KHP 30000



### Light Commercial HRV

#### SPECIFICATIONS



The KHP 20000 or KHP 30000 Heat Recovery Ventilation system (HRV) complements the energy efficiency of modern buildings by filtering incoming fresh outdoor air before it enters the heat-recovery core where it is preheated by the outgoing, stale contaminated air. The HRV then distributes the preheated fresh filtered air throughout the building by direct ductwork installed specifically for the HRV or through the ductwork of a forced-air system.

#### APPLICATIONS INCLUDE:

- Class Rooms
- Retail Shops
- Hair Salons
- Bars & Restaurants
- Offices
- Clinics
- Animal Shelters
- Swimming Pools \*

#### POWER

- |                    |                        |
|--------------------|------------------------|
| • Unit Volts       | 230 Volts / 60 Hz      |
| • Motors KHP 20000 | 115V,230V / 17.6A,8.8A |
| • Motors KHP 30000 | 115V,230V / 14A,7A     |
| • Phase            | Single Phase           |



#### OPTIONAL CONTROLS

- MDEH 1 – Mechanical Low Voltage Dehumidistat
- FD15M – 15 Minutes Crank Timer
- AQS 2 – Air Quality Sensor (with transformer)

- External dry contacts (provided)

\* Protective coating of coil is recommended for this application. Contact factory for details.

**CASE** 20 gauge galvanized steel for core housing. Blower case and filter case are pre-assembled & painted. Two (2) drain connections 1/2" NPT.

**BLOWERS** Two (2) belt driven blowers. Blowers come with galvanized wheel and housing. Blowers are rubber mounted to reduce noise and vibration.

**MOTORS** Two (2) totally enclosed, self-cooled, energy efficient motors with epoxy enamel finish. Featuring start capacitor, sleeve & ball bearing . KHP 20000 - 3/4 horsepower, single phase, 115/230 volts with over load protection, KHP 30000 - 1 horsepower, single phase, 115/230 volts with over load protection.

**CORE** Modular heat pipe core configured for efficient performance and retrieval of heat.

**FILTERS** Two (2) throw-away fiberglass filters in a drawer type filter rack. Filters are 1" thick. Cabinet for filters is insulated.

**MOUNTING** Unit can be installed using mounting brackets already fastened to the unit. Unit is mounted in place using threaded rods (purchased separately). The rods are then connected to the base plates provided with the bracket. The plates must be a minimum of 2" (50.8 mm) from the edge of the rail and in a range of 6" (152.4 mm) from each other. Unit can also be mounted by attaching it on a platform.

**CONTROLS** Low voltage (24VAC) external dry contacts to activate high speed. Two (2) speed controls for continuous ventilation speeds (one for each blower).

**DEFROST** The defrost sequence is activated when the exhaust air temperature drops below the preset level. The sensor shuts down the supply fan until the core defrosts and then the unit returns to normal operation.

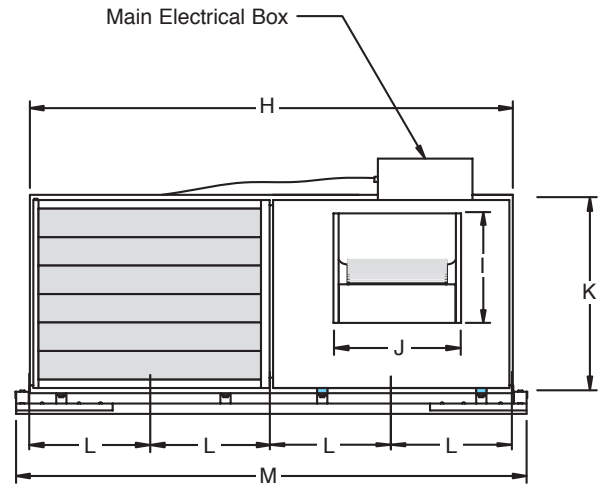
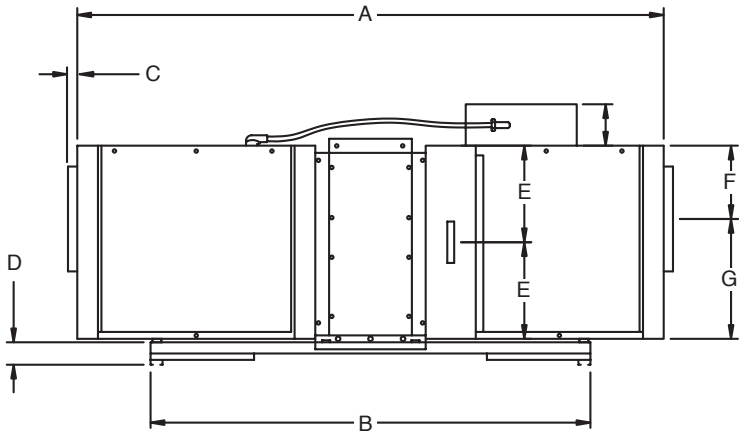
**SERVICEABILITY** Cores, filters, blowers and drain pans can be accessed easily from two sides of the HRV through access panels.

Unit is 55% (average) efficient at transferring heat/energy from the exhaust to the supply air stream.

**FOR MORE INFORMATION CONTACT:**

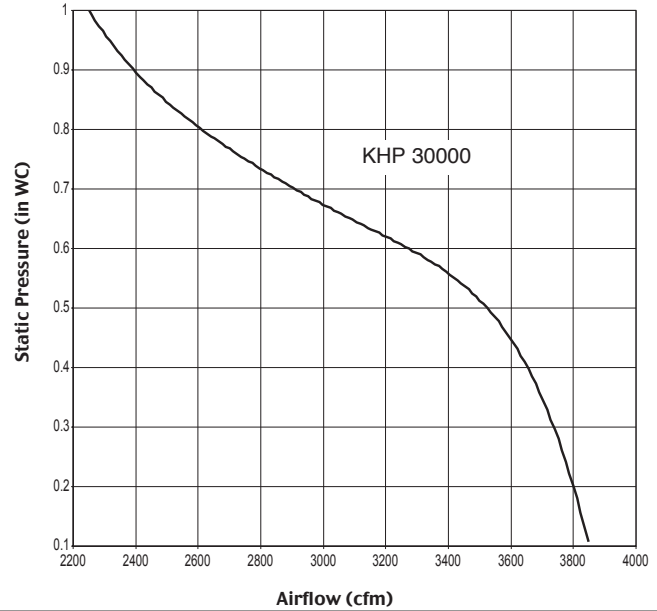
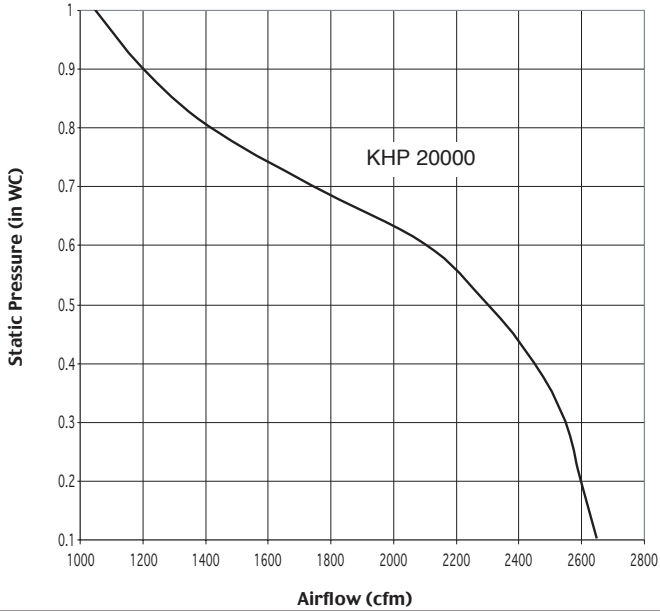
# KHP 20000/30000 Light Commercial HRV

## Dimensions

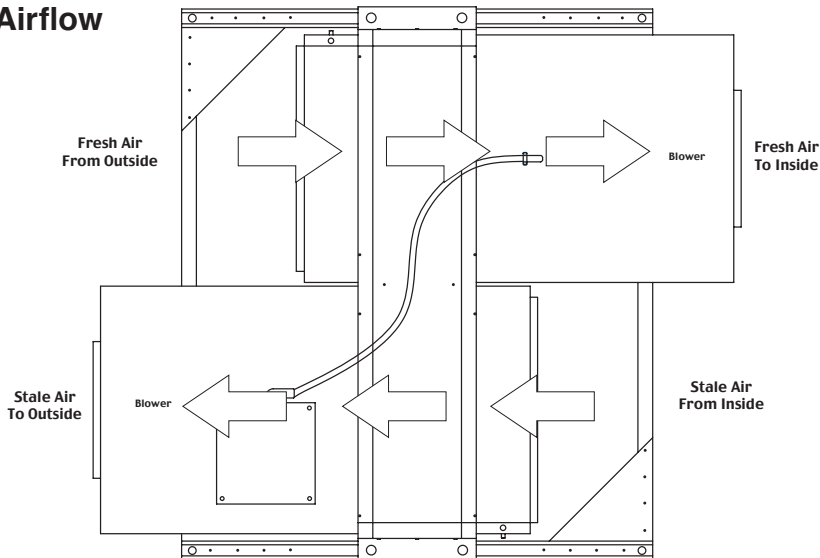


Model	A	B	C	D	E	F	G	H	I	J	K	L	M
KHP 20000	68.25"	47.00"	1.00"	3.25"	11.50"	8.25"	15.00"	55.00"	13.75"	15.50"	23.25"	13.50"	59.00"
KHP 30000	85.00"	63.75"	1.00"	3.25"	14.00"	10.63"	17.38"	70.00"	15.88"	18.50"	28.00"	16.75"	74.00"

## Fan Performance (high speed)



## Airflow



United States

1712 Northgate Blvd. • Sarasota, FL. 34234  
 (T) 1.800.747.1762 • (F) 1.800.487.9915  
 (T) 1.941.309.6000 • (F) 1.941.309.6099  
[www.fantech.net](http://www.fantech.net) • [info@fantech.net](mailto:info@fantech.net)

Canada

50 Kanalfakt Way, Bouctouche, NB E4S 3M5  
 (T) 1.800.565.3548 • (F) 1.877.747.8116  
 (T) 1.506.743.9500 • (F) 1.506.743.9600  
[www.fantech.ca](http://www.fantech.ca) • [info@fantech.ca](mailto:info@fantech.ca)

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