



Fantech

FLEX 100H

Heat Recovery Ventilator



THE FLEX™ 100H HRV:

Powerful things can come in a small package!

FLEX is a compact HRV specially designed for small residential and multi-residential applications such as condominiums and apartment buildings that require up to 100 CFM of continuous principal ventilation. With its flexible and compact top port design incorporating the 5" oval collars with integrated airflow measurement and **EZ-Mount™** wall bracket, it can be installed in small spaces such as 24" closets or above the hot water heater.

The FLEX is also equipped with the **TurboTouch™** function to temporarily increase its exhaust capacity when needed; for example, when bathrooms or kitchens are exhausted with the use of an HRV instead of conventional methods.

FEATURES

- **TurboTouch** function boosts exhaust capacity by up to 50%
- 5" (125mm) oval duct connections with integrated airflow measurement
- Removable screw terminal for easy connection
- Lightweight: only 39 lbs (17.7 kg) including core
- Super compact size
- Top port design fits in tight spaces
- Includes **EZ-Mount** wall bracket
- **Aluminum** heat recovery core
- Multiple speed operation
- Internal recirculation defrost

OPTIONAL CONTROLS:

Speed control for Normal and Reduced speed standard on unit. Other operating modes available from optional controls below.

- MDEH1 – Dehumidistat
- RTS2 – 20 minute timer over-ride
- EDF1R – Triple function wall control
- EDF5 – Multi-function control

MOTORS: Two (2) German-manufactured, factory-balanced EBM motors with **Radical** backward curved blades. Motors come with permanently lubricated, sealed ball-bearings to guarantee long life and maintenance-free operation. Covered by a seven (7) year warranty.

HEAT RECOVERY CORE: **Aluminum** heat recovery core covered by a limited lifetime warranty. Core dimensions are 8.5" x 8.5" (216 x 216 mm) with a 12" (305 mm) depth. Our heat exchangers are designed and manufactured to withstand extreme temperature variations.

WINTERGUARD™ DEFROST: 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 (-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 mode.

SERVICEABILITY: All serviceable internal components, including core, filters, motors and electronic board are easily accessible and can be fully removed in under 5 minutes for complete service. A 12" (305 mm) clearance from the front of the unit is recommended to fully remove the core and other internal components.

DUCT CONNECTIONS: 5" (125mm) Oval plastic duct connections with integrated balancing damper and airflow measurement ports.

CASE: 24 gauge galvanized steel. Baked power-coated paint for a superior adhesion and resistance.

INSULATION: Cabinet is fully insulated with 1" (25 mm) high density expanded polystyrene.

FILTERS: Two (2) washable electrostatic panel type air filters, 8.5" (216mm) x 12.5" (318 mm) x 0.125" (3mm).

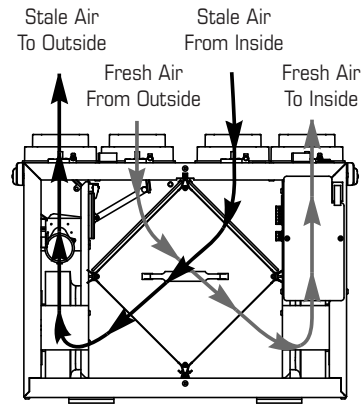
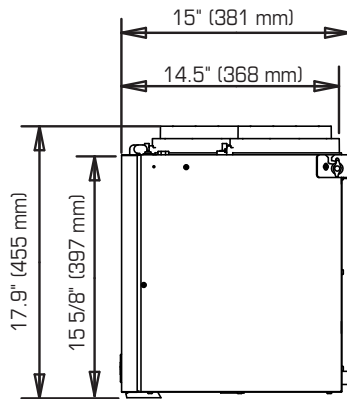
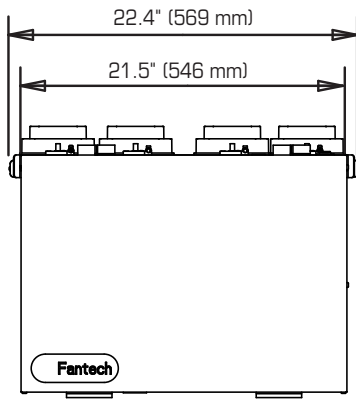
DRAIN: 1/2" (13mm) OD (outside diameter) drain spout provided, entire bottom of unit covered by drain pan.

WARRANTY: Limited lifetime on aluminum core, 7 year on motors, and 5 year on parts.

FOR MORE INFORMATION CONTACT:

Empty box for contact information.

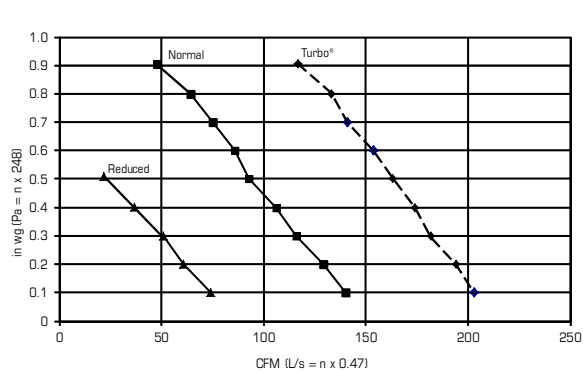
Dimensions & Airflow - All units feature three foot plug-in power cord with 3-prong plug.



• 12" (305mm) of clearance in the front is recommended for removal of core

Ventilation Performance

EXT. STATIC PRESSURE		NORMAL SPEED NET SUPPLY AIR FLOW		GROSS AIR FLOW			
Pa	in wg	L/s	cfm	SUPPLY		EXHAUST	
				L/s	cfm	L/s	cfm
25	0.1	66	140	67	141	66	140
50	0.2	61	129	62	131	61	128
75	0.3	55	116	56	118	54	115
100	0.4	50	106	51	107	50	106
125	0.5	44	93	44	94	46	96
150	0.6	40	86	41	87	41	87
175	0.7	35	75	36	76	38	81
200	0.8	30	64	31	65	35	73



*Turbo speed not available as a continuous ventilation speed

Energy Performance

	SUPPLY TEMPERATURE		NET AIRFLOW		POWER CONSUMED WATTS	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS
	°C	°F	L/s	cfm			
Heating	0	32	25	52	52	63	76
	0	32	30	64	58	62	74
	0	32	56	118	108	58	65
	-25	-13	29	61	52	62	75

Specifications

- Model: FLEX 100H
- Total assembled weight: 39 lbs (17.7 kg)
- Mounting: Wall bracket included as standard
- Motors: ebm motors w/Radical™ backward curved blades
- Supply & Exhaust ducts: 5" (125mm) oval
- Insulated with high density polystyrene foam.
- Core: Aluminum 8.5" (216mm) x 8.5" (216mm) x 12" (305mm)
- Filters: 2 washable electrostatic filters 8.5" (216mm) x 12.5" (318mm) x 0.125" (3mm)
- Cabinet: 24 ga. steel w/powder coat finish

- Electrical requirements:

Volts	Frequency	Amps
115V	60Hz	1.4A
- 3' plug-in power cord w/ 3-prong plug

Contacts

Submitted by:	Date:
Qty:	Model #:
Comments:	
Project #:	
Location:	
Architect:	
Engineer:	
Contractor:	

Fantech reserves the right to modify, at any time and without notice, any or all of its products' features, designs, components and specifications to maintain their technological leadership position.



United States
 10048 Industrial Blvd.
 Lenexa, KS 66215
 Phone: 800.747.1762; 913.752.6000
 Fax: 800.487.9915; 913.752.6466

Canada
 50 Kanalfakt Way,
 Bouctouche, NB E4S 3M5
 Phone: 800.565.3548; 506.743.9500
 Fax: 877.747.8116; 506.743.9600

www.fantech.net; info@fantech.net

Item #: 405336
 Rev Date: 013111