



# 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 100CFM of continuous principal ventilation. With its flexible and compact top port design incorporating the 5" oval 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 **Turbo Touch™** 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.

##### RESIDENTIAL USE ONLY

#### 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.

- Eco-Touch™ – Programmable Touch Screen Wall Control
- RTS2 – 20 minute timer over-ride
- RTS5 – 20/40/60 minute timer
- EDF1R – Triple function wall control
- MDEH1 – Dehumidistat
- EDF1 – Multi-Function control

**MOTORS:** Two (2) German-manufactured, factory-balanced EBM motors with 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.

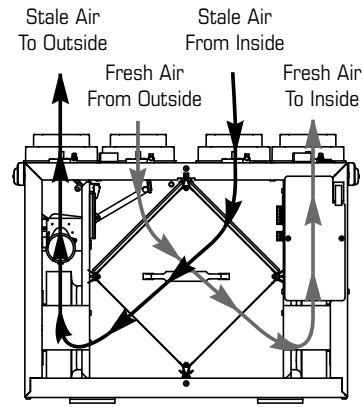
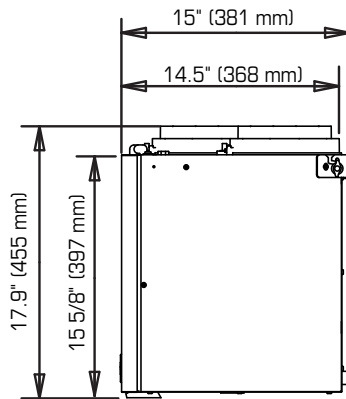
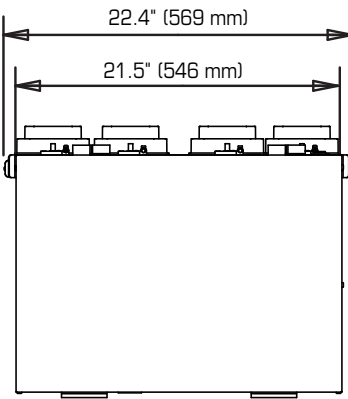
**FILTERS:** Two (2) washable electrostatic panel type air filters, 8.5" (216mm) x 12.5" (318 mm) x 0.125" (3mm).

**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:

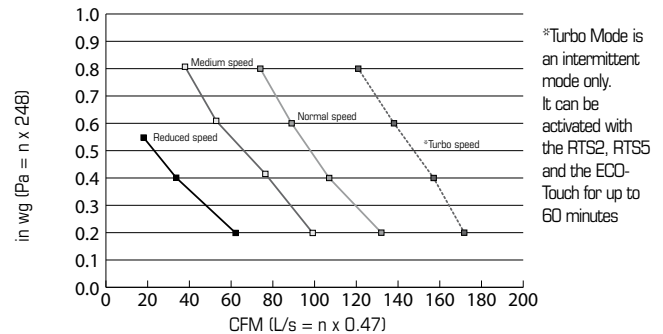
## Dimensions & Airflow



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

## Ventilation Performance

MAXIMUM CONTINUOUS AIRFLOW							
EXT. STATIC PRESSURE		NET SUPPLY AIR FLOW		GROSS AIR FLOW SUPPLY		EXHAUST	
Pa	in wg	L/s	cfm	L/s	cfm	L/s	cfm
25	0.1	69	146	70	148	70	148
50	0.2	61	129	62	132	63	133
75	0.3	55	116	56	118	57	120
100	0.4	49	105	50	107	51	107
125	0.5	45	96	46	97	45	95
150	0.6	41	88	42	89	40	84
175	0.7	38	80	39	82	35	73
200	0.8	34	73	35	74	30	63



## Energy Performance

	SUPPLY TEMPERATURE		NET AIRFLOW		POWER CONSUMED WATTS	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	LATENT RECOVERY/MOISTURE TRANSFER
	°C	°F	L/s	cfm				
Heating	0	32	24	52	56	70	80	-0.08
	0	32	33	69	56	67	75	-0.06
	0	32	47	99	102	64	73	-0.04
	-25	-13	34	72	98	66	78	0.00

## Specifications

- Model: FLEX 100H
- Total assembled weight: 39 lbs (17.7 kg)
- Mounting: Wall bracket included as standard
- Motors: Permanently sealed motors, backward curved blades
- Supply & Exhaust ducts: 5" (125mm) oval
- Insulated with high density polystyrene foam.
- Core: Aluminum
- 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
120V	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.



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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

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