

FLEX[®] 100H ES

Heat Recovery Ventilator

Product #: 44001



As Fantech's masterpiece of versatility, features and efficiency, the FLEX 100H ES is ideal for high-rise apartment applications, condominiums, single and multi family homes. With its compact top port design featuring 5 inch oval collars and the included EZ-Mount™ wall bracket, the FLEX 100H ES can be installed in spaces as small as 24 inches, such as a closet or maintenance room.

Unlike traditional HRVs that require excessive power to meet supplemental ventilation needs, the compact, yet powerful FLEX 100H ES allows for sizing based entirely on principal ventilation requirements. With its exclusive TurboTouch™ feature, the FLEX 100H ES can deliver up to 50% more exhaust capacity to easily meet supplemental ventilation needs whenever additional airflow is required.

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:

- ECO-TOUCH[®] (#44929) – Programmable Touch Screen Wall Control
- EDF7 (#44883) – Electronic multi-function dehumidistat
- RTS2 (#40164) – 20 minute timer over-ride
- RTS5 (#44794) – 20/40/60 minute timer
- MDEH1 (#40172) – Dehumidistat

Specifications

- Duct size – 5" (125mm) oval
- Voltage/Phase – 120/1
- Power rated – 168 W
- Amp – 1.4 A
- Average airflow – 104 cfm (49 L/s)
@ 0.4" P_s (100Pa)

Fans

Two (2) factory-balanced fans with backward curved blades. Motors come with permanently lubricated, sealed ball-bearings to guarantee long life and maintenance-free operation.

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 ES 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

Core, filters, fans and electronic panel can be accessed easily from the access panel. Core conveniently slides out with only 14" (356 mm) clearance.

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).

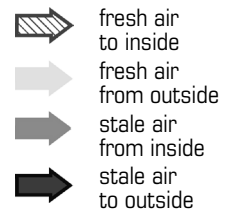
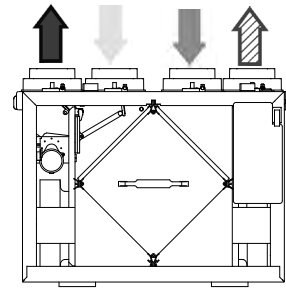
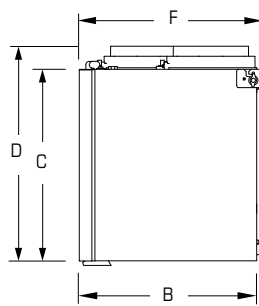
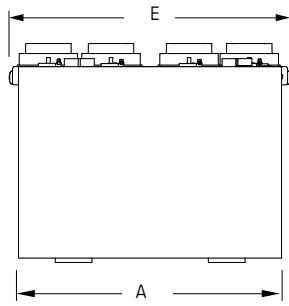
Drain

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.

Dimensions & Airflow



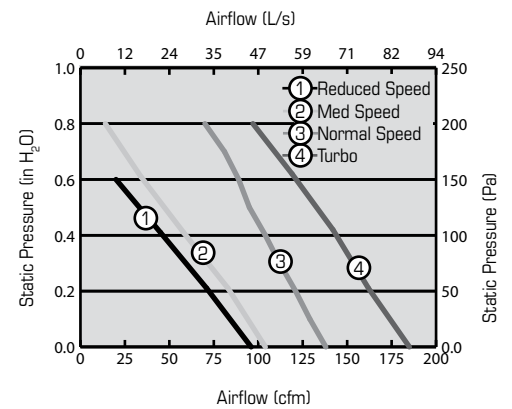
Model	A		B		C		D		E		F	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
FLEX 100H ES	21 1/2	546	14 1/2	368	15 5/8	397	17 7/8	454	22 1/2	572	15	381

Dimensional information is in inches. Clearance of 14" (356mm) in front of the unit is recommended for removal of core. All units feature three foot plug-in power cord with 3-prong plug.

Ventilation Performance

in. wg. (Pa)	0.1 (25)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)	0.8 (200)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Net supply airflow	129 (61)	121 (57)	112 (53)	104 (49)	95 (45)	89 (42)	81 (38)	70 (33)
Gross supply airflow	131 (62)	123 (58)	114 (54)	106 (50)	97 (46)	89 (42)	81 (38)	72 (34)
Gross exhaust airflow	131 (62)	123 (58)	114 (54)	106 (50)	97 (46)	89 (42)	81 (38)	70 (30)

*Turbo Mode is an intermittent mode only. It can be activated with the RTS2, RTS5 and the ECO-Touch for up to 60 minutes. Only the data of the normal speed are HVI certified.



Energy performance

Heating	Supply temperature		Net airflow		Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	°C	cfm	L/s	W	%	%	-
	32	0	64	30	50	65	69	0.02
	32	0	81	38	65	63	68	-0.01
	32	0	102	48	100	60	66	0.00
	-13	-25	66	31	65	62	65	0.04

Requirements and standards

- Complies with the UL 1812 requirements regulating the construction and installation of Heat Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- Complies with the CSA F326 requirements regulating the installation of Heat Recovery Ventilators
- Technical data was obtained from published results of test relating to CSA C439 Standards
- HVI certified and ENERGY STAR® qualified*

* 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.

Contacts

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

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