FLEX® 100H

Heat Recovery Ventilator
Product #: 463333

As Fantech's masterpiece of versatility, features and efficiency, the FLEX 100H 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 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 allows for sizing based entirely on principal ventilation requirements. With its exclusive TurboTouch feature, the FLEX 100H can deliver increased exhaust capacity to easily meet supplemental ventilation needs whenever additional airflow is required.

Features
- TurboTouch function boosts exhaust capacity
- 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®   – Programmable Touch Screen Wall Control
- EDF7   – Electronic multi-function dehumidistat
- RTS2   – 20 minute timer over-ride
- RTS5   – 20/40/60 minute timer
- MDEH1   – Dehumidistat

Specifications
- Duct size   – 5″ (125mm) oval
- Voltage/Phase   – 120/1
- Power rated   – 172 W
- Amp   – 1.6 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 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 accesses 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
22 gauge galvanized steel cabinet with a pre-painted steel corrosion resistant door.

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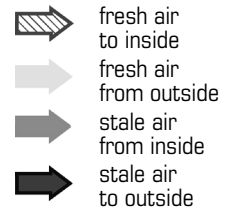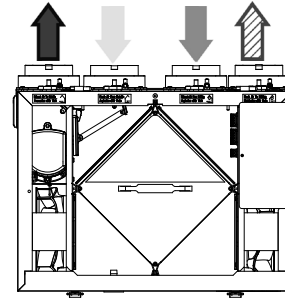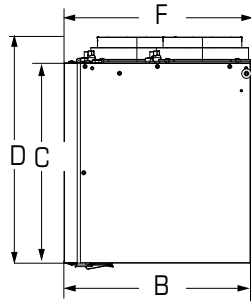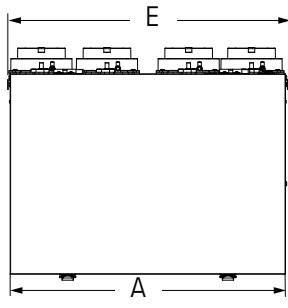1/2" (13mm) OD (outside diameter) drain spout provided, entire bottom of unit covered by drain pan.

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

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Dimensions & Airflow

fresh air to inside

fresh air from outside

stale air from inside

stale air to outside

Model	A		B		C		D		E		F	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
FLEX 100H	21 $\frac{1}{2}$	546	14 $\frac{1}{2}$	368	15 $\frac{5}{8}$	397	17 $\frac{7}{8}$	454	22 $\frac{1}{2}$	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.
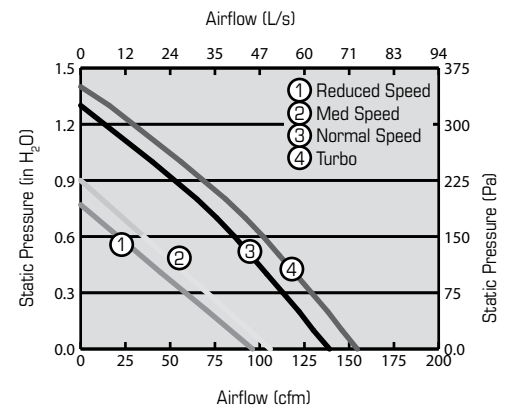
Ventilation Performance

in. wg. (Pa)	0.1 (25)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)
	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)	93 (44)	85 (40)	74 (35)
Gross supply airflow	133 (63)	125 (59)	117 (55)	108 (51)	97 (46)	89 (42)	78 (37)
Gross exhaust airflow	133 (63)	121 (57)	110 (52)	102 (48)	93 (44)	83 (39)	74 (35)

*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.

** - Balancing Range : 70 cfm (33 L/s) to 110 cfm (52 L/s)

- If a balanced flow outside the above range is required, please revisit our product offerings to ensure a properly sized unit is selected

① Reduced Speed
② Med Speed
③ Normal Speed
④ Turbo

Energy performance

Heating	Supply temperature		Net airflow		Consumed power	Sensible recovery efficiency	Adjusted sensible recovery efficiency	Latent recovery/moisture transfer
	ºF	ºC	cfm	L/s	W	%	%	-
	32	0	62	29	89	60	66	0.00
	32	0	78	37	100	60	67	0.10
	32	0	100	47	145	59	65	0.00
	-13	-25	66	31	100	56	60	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

Contacts

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

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