

# FIT<sup>®</sup> 120E

## Energy Recovery Ventilator

Product #: 44940



With a profile of only 8.75" high, Fantech's FIT 120E is ideally suited for condos and apartments that have no mechanical room and where it must be located over a false ceiling. The FIT 120E brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. The energy recovery core at the center of the unit transfers heat and moisture from the incoming air to the outgoing air that was cooled and dried by the building's air conditioner.

### Features

- Slim design, only 8.75" (222 mm) high
- No drain required
- Easy to install ceiling bracket included
- Weight: only 36 lbs (16 kg) including core
- Fans with backward curved RadiCAL blade
- Electrostatic filters (washable)
- Easy Core Guide Channels For Removing Core
- Multiple speed operation

### Optional Controls

- ECO-Touch™ (#44929) – Programmable Touch Screen Wall Control
- EDF7 (#44883) – Electronic multi-function dehumidistat
- EDF1 (#40375) – Multi-function control
- RTS5 (#44794) – 20/40/60 minute over-ride
- RTS2 (#40164) – 20 minute over-ride
- MDEH1 (#40172) – Dehumidistat

### Specifications

- Duct size – 5" (125 mm) oval
- Voltage/Phase – 120/1
- Power rated – 170 W
- Amp – 1.4 A
- Average airflow – 106 cfm (50 L/s)  
@ 0.4" P<sub>s</sub> (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.

### Energy Recovery Core

AHRI certified core made from water vapor transport durable polymer membrane that is highly permeable to humidity. The ERV core is freeze tolerant and water washable. Core dimensions are 11.5" x 11.5" (290 x 290 mm) with a 7.8" (198 mm) depth.

### Frost Prevention

A preset frost prevention sequence is activated at an outdoor air temperature of 14°F (-10°C) and lower. During the frost prevention sequence, the supply blower shuts down and the exhaust blower switches into high speed to maximize the effectiveness of the frost prevention strategy. The unit then returns to normal operation, and continues cycle.

### Serviceability

Core, filters, fans and electrical panel can be accessed easily from the access panel. Core conveniently slides out with only 8" (203 mm) clearance.

### Cabinet

24 gauge G90 galvanized steel.

### Insulation

Insulated with 1 in. (25 mm) of foil-faced high density polystyrene foam and 0.25 in. (6 mm) of closed-cell foam on the top of the unit.

### Filters

Two (2) washable electrostatic panel type air filters. Exhaust air filter dimensions 11.2" (284mm) x 7" (176 mm) x 0.125" (3mm). Supply air filter dimensions 11.4" (289mm) x 7.7" (196 mm) x 0.125" (3mm).

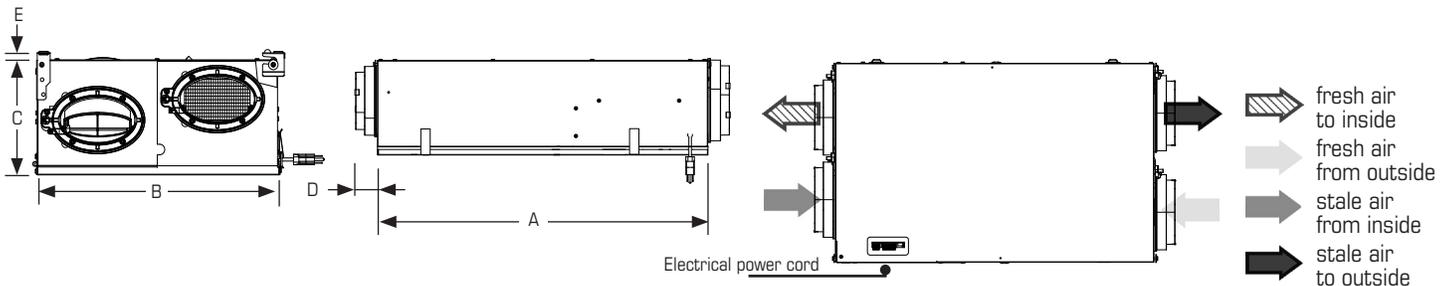
### Installation

Unit is typically hung by using ceiling bracket supplied with unit. Optional chain kit available.

### Warranty

5 years on energy recovery core, 7 year on motors, and 5 year on parts.

## Dimensions & Airflow

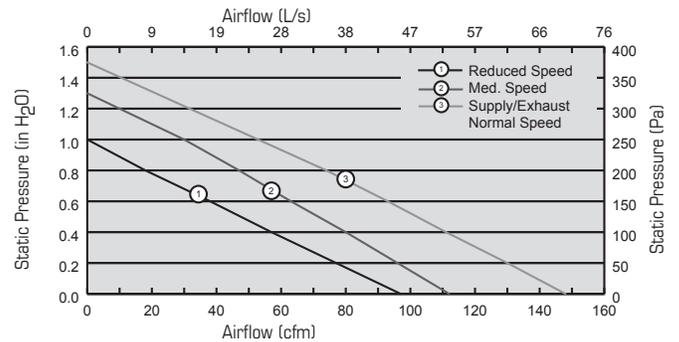


Model	A		B		C		D		E	
	in	mm	in	mm	in	mm	in	mm	in	mm
FIT 120E	30 1/2	775	19	485	8 3/4	222	2	51	1/2	14

Clearance of 8" (203 mm) 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)	0.2 (50)	0.4 (100)	0.6 (150)	0.8 (200)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Net supply airflow	125 (59)	106 (50)	89 (42)	70 (33)
Gross supply airflow	129 (61)	110 (52)	93 (44)	74 (35)
Gross exhaust airflow	129 (61)	110 (52)	93 (44)	74 (35)



## 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	65	31	82	65	85	55
	32	0	85	40	112	64	80	50
	32	0	98	46	148	63	78	48
	5	-15	66	31	82	56	80	45
Cooling	95	35	47	22	82		45 <sup>1</sup>	

<sup>1</sup> Total recovery efficiency

## 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
- ERV Core ISO 846 certified for mold and bacteria resistance
- HVI certified

## Contacts

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

## Distributed by:

**United States** 10048 Industrial Blvd. • Lenexa, KS 66215 • 1.800.747.1762 • www.fantech.net

**Canada** 50 Kanalfakt Way • Bouctouche, NB E4S 3M5 • 1.800.565.3548 • www.fantech.net

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.



**fantech**®  
a systemair company