

FIT[®] 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[™] (#414728) — 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 — 101 cfm (48 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.

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).

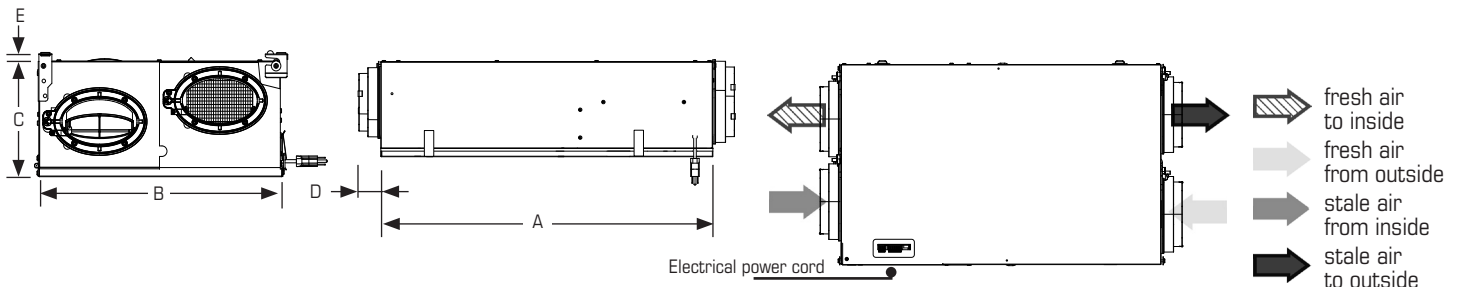
Installation

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

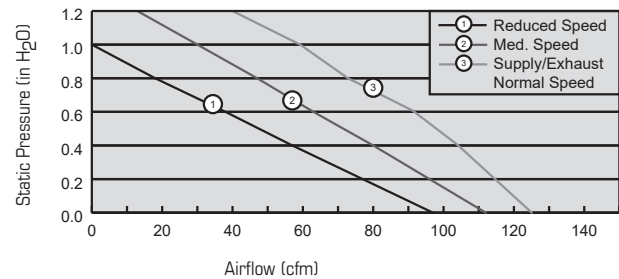


Model	A		B		C		D		E	
	in	mm	in	mm	in	mm	in	mm	in	mm
FIT 120E	30 1/2	775	19	485	8 3/4	222	2	51	1 1/2	14

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	113 (53)	101 (48)	87 (41)	74 (35)



Data for Energy performance

Heating	Supply temperature		Net airflow		Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness ²	Latent recovery/moisture transfer
	°F	°C	cfm	L/s	W	%	%	%
	32	0	60	28	72	74	89	54
	32	0	77	36	92	70	82	56
	32	0	88	42	112	69	82	46
	5	-15	64	30	72	46	84	40
Cooling	95	35	43	20	60	51 ¹	67	55

¹ Total recovery efficiency

² ASE is not an HVI certified value

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:	Project #:
Comments:	
Location:	
Architect:	
Engineer:	Contractor:

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