FIT® 70E

Fresh Air Appliance - ERV

Product #: 463400

Download BIM model and Specs

FIT — Product Name
70 — CFM @ 0.4 in. w.g.
E — Energy Recovery

Fantech's newest addition to the FIT series is the smallest and most compact fresh air appliance with a profile of only 18.5 in. x 19.5 in. and 9.75 in. high, the FIT 70E is ideally suited for small condos and apartments that have no mechanical room and where it must be located over a false ceiling. The FIT 70E 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 both heat and moisture from the incoming air to the outgoing air that was cooled and dried by the building's air conditioner.

Features

- Compact design, only 10.4 in. (264 mm) installed depth
- No drain required
- Easy to install on ceiling or wall with mounting bracket included
- Energy recovery core
- Electrostatic filters (washable)
- Removable screw terminal for easy connection with external access
- Multiple speed operation
- Lightweight

Recommended Controls

- ECO-Feel® AUTO IAQ – Automatic IAQ Control

Also Compatible With

- ECO-Touch® AUTO IAQ – Programmable Touch Screen Wall Control
- EDF8 – Electronic multi-function dehumidistat
- EDF3 – Multi-function control
- RTS-W – Wireless 20/40/60 minute over-ride
- RTS5 – 20/40/60 minute over-ride
- RTS4 – 20/40/60 minute over-ride
- RTS2 – 20 minute over-ride
- MDEH1 – Dehumidistat

Specifications

- Duct size – 4 in. (100 mm) round
- Voltage/Phase – 120/1
- Rated power – 58 W
- Running amperage – 0.6 A
- CSA rated amperage – 1.1 A
- Average airflow – 70 cfm (33 L/s) @ 0.4 in. wg (100Pa)
- Weight – 32 lbs (14 kg) including core

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 8.5 in. x 8.5 in. (216 x 216 mm) with a 8 in. (205 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 in. (205 mm) clearance.

Duct Connections

4 in. (100 mm) round metal duct connections with rubberized seal.

Case

22 gauge galvanized steel cabinet with a pre-painted steel corrosion resistant door.

Insulation

Insulated with 1 in. (25 mm) of high density polystyrene.

Filters

Two (2), UL900 certified, washable electrostatic panel type air filters 8.5 in. (216 mm) x 8 in. (205 mm) x 0.125 in. (3 mm).

Installation

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

Limited Warranty

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

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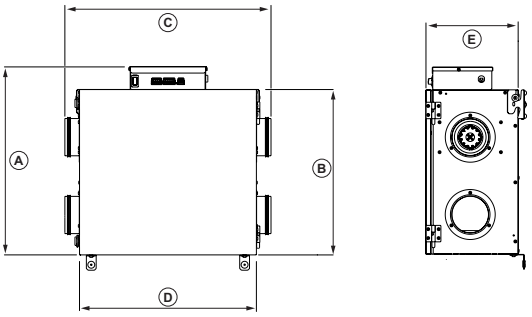
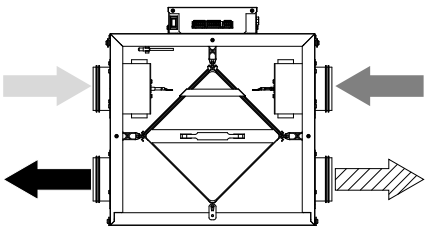
Dimensions & Airflow





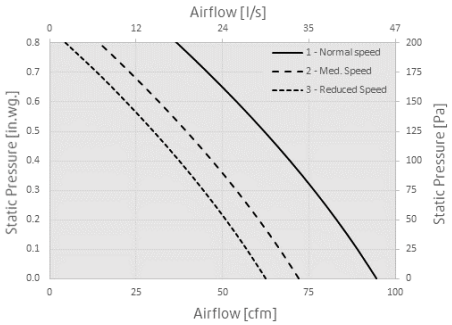
fresh air to inside
fresh air from outside
stale air from inside
stale air to outside

Model	A		B		C		D		E	
	in	mm	in	mm	in	mm	in	mm	in	mm
FIT 70E	19 5/8	498	17 1/4	438	21 1/2	546	18 1/2	470	9 3/4	248

Clearances:
8 in. (203 mm.) in front of the product for removal of core.
2 3/8 in. (61 mm.) above the electrical box to do the wire connections.

Ventilation Performance

in.wg. (Pa)	0.1 (25)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Net supply airflow	89 (42)	83 (39)	76 (36)	70 (33)	61 (29)	53 (25)
Gross supply airflow	93 (44)	87 (41)	81 (38)	72 (34)	66 (31)	55 (26)
Gross exhaust airflow	93 (44)	87 (41)	81 (38)	72 (34)	66 (31)	55 (26)



Energy performance

	Supply temperature		Net airflow		Consumed power	Fan efficacy	Sensible recovery efficiency	Adjusted Sensible recovery efficiency	Latent recovery/moisture transfer
	°F	°C	cfm	L/s	W	cfm/W	%	%	%
Heating	32	0	51	24	40	1.2	70	75	45
	32	0	59	28	44	1.3	67	72	42
	32	0	70	33	52	1.3	65	69	40
	5	-15	55	26	42	1.3	55	58	35
	-13	-25	59	28	34	1.7	34	35	21

	Supply temperature		Net airflow		Consumed power	Fan efficacy	Total recovery efficiency	Adjusted Total recovery efficiency	Latent recovery/moisture transfer
	°F	°C	cfm	L/s	W	cfm/W	%	%	%
Cooling	95	35	51	24	40	1.2	40	43	30

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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