Specification Sheet

FIT 120E-D Fresh Air Appliance (FAA/ERV)

Product #: 463403



With an integrated mechanical shutoff damper, the FIT® 120E-D fresh air appliance gives you options to meet your desired installation scheme.

The FIT 120E-D, designed for multi-family applications, brings a continuous supply of fresh air into the premises while exhausting an equal amount of contaminated air out. As such, the energy recovery core transfers both heat and moisture from the outgoing exhaust air to the incoming fresh air, reducing the energy required to condition it.

Features

- Warm supply and return air on the right-hand side
- Compact design
- No drain required
- Mechanical shutoff damper
- 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

RTS2 – 20 minute over-ride
MDEH1 – Dehumidistat

Specifications

• Duct size — 5 in. (125 mm) round

Voltage/Phase - 120/1
Rated power - 120 W
Running amperage - 1.0 A
CSA rated amperage - 1.4 A

Average airflow – 127 cfm (60 L/s) @ 0.4 in. wg (100 Pa)

• Weight — 35lbs (16kg) including core











Name in. w.g.

D.4 Energy Da . Recovery

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

Energy recovery core made from water vapor transport durable polymer membrane that is highly permeable to humidity. The ERV core is freeze tolerant, water washable, and is resistant to mold and bacteria. Core dimensions are 12 in. x 12 in. $(305 \times 305 \text{mm})$ with a 8.15 in. (207 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 sequence, the supply blower shuts down, the mechanical shutoff damper closes & 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 the cycle.

Serviceability

Core, filters, fans and electronic panel can be accessed easily. Core conveniently slides out with only 8.5 in. (216mm) clearance.

Duct Connections

5 in. (125mm) round metal duct connections with rubberized seal.

Cas

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

Insulation

Insulated with 3/4 in. (20 mm) high density expanded polystyrene.

Filters

Two (2), UL900 certified, washable electrostatic panel type air filters 11.3 in. (287mm) x 8.15 in. (207mm) x 0.125 in. (3mm).

Installation

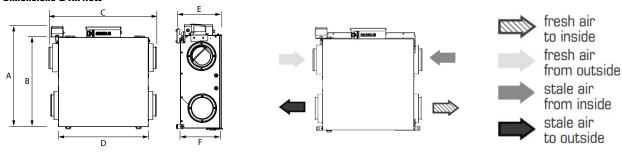
Unit is typically hung by using ceiling bracket supplied with unit. Optional chain kit available.

Limited Warranty

7 years on the motor, 5 years on the electrical components and the core.



Dimensions & Airflow

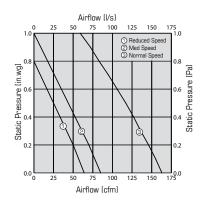


	A		В		С		D		E		F	
Model	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
FIT 120E-D	23 ⁵ /32	588	20 3/4	527	25 ¹ /16	636	20 27/32	529	10	254	9 1/4	235

Clearance of 8.5 in. (216mm) in front of the appliance is recommended for removal of core. All appliances 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)							
Net supply airflow	155 (73)	146 (69)	136 (64)	127 (60)	117 (55)	106 (50)	95 (45)	83 (39)
Gross supply airflow	159 (75)	150 (71)	140 (66)	129 (61)	119 (56)	108 (51)	97 (46)	87 (41)
Gross exhaust airflow	163 (77)	153 (72)	142 (67)	131 (62)	123 (58)	112 (53)	100 (47)	89 (42)



Energy performance

	Supply temperature		Net airflow		Consumed power	Sensible recovery efficiency	Adjusted sensible recovery efficiency	Latent recovery/moisture transfer
	°F	°C	cfm	L/s	W	%	%	%
Heating	32	0	51	24	55	74	81	76
	32	0	68	32	63	69	75	71
	32	0	131	62	104	64	69	60
	-13	-25	51	24	55	61	63	54

	Supply te	Supply temperature		rflow	Consumed power	Total recovery efficiency	Adjusted Total recovery efficiency	Latent recovery/moisture transfer	
	°F	°C	cfm	L/s	W	%	%	%	
Cooling	95	35	51	24	55	64	68	68	

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

Contacts

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

Distributed by:

