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FANTECH FTC463280 Owner's Manual

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SER 260D Fresh Air Appliance

Side duct connection ERV, 267 cfm

Item #: 463280

Variant: 120V 1~ 60Hz



- Airflow up to 239 cfm @ 0.4" PS
- Removable screw terminal for easy connection
- ERV transfers both heat and humidity
- Optional drain line
- Anti-microbial material
- Withstands freezing
- AHRI certified
- Fans with backward curved RadiCAL blade
- No balancing required

Application

Suitable for very large residential or small commercial applications, the compact SER260D comes with access panels on both sides of the unit for installation versatility.

How it works

The SER260D unit brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. The enthalpic 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.

When it is warm and humid outside and the indoors are cooled and dehumidified already, the ERV pre-cools the fresh incoming air and transfers a portion of the incoming humidity into the exhaust air, reducing the ventilation load. Reducing the load on the homes air conditioner, saves on cooling costs. This unit is designed for warmer, humid climates with longer cooling seasons.

Defrost cycle

The unit has a built-in defrost mechanism that activates at 23°F in order to prevent the energy transfer core from freezing. Also included are a condensation drain pan & spout.

Note: If you are using the appliance for a simplified installation, i.e. connecting appliance's supply air duct to a furnace's return air duct, the appliance must operate continuously. In case it is turned off, the furnace will continue to draw in outdoor air directly into the furnace without re-heating or re-cooling. If the appliance is installed such that the homeowner may turn it off during the cold or hot seasons, we recommend installing a motorized damper ADC between the appliance's supply air and the furnace's return air duct that closes when the appliance is not operating.

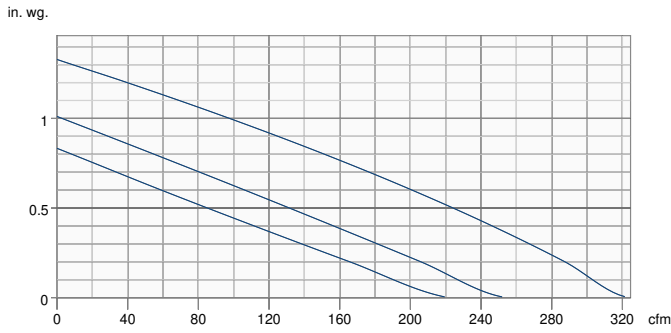


Technical parameters

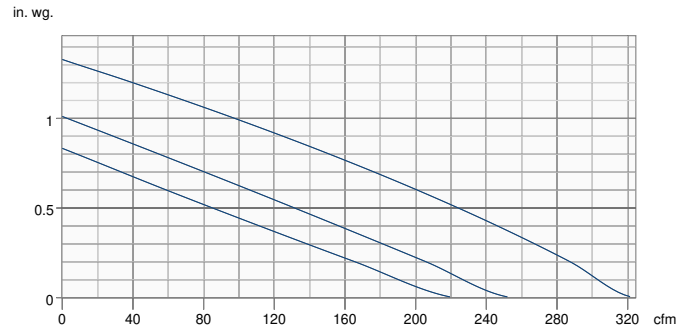
Product		
Voltage (nominal)	120	V
Frequency	60	Hz
Phase(s)	1~	
Input power	300	W
Input current	2.5	A
Air flow	max 239	cfm
Static pressure	0.4	in.wg
Certificate	CSA, AHRI	
Exchanger		
Exchanger type	Energy recovery (synthetic)	
Dimensions and weights		
Weight	79.6	lb
Used for		
Installation placement	Horizontal	

Performance

Supply - Performance curve



Extract - Performance curve

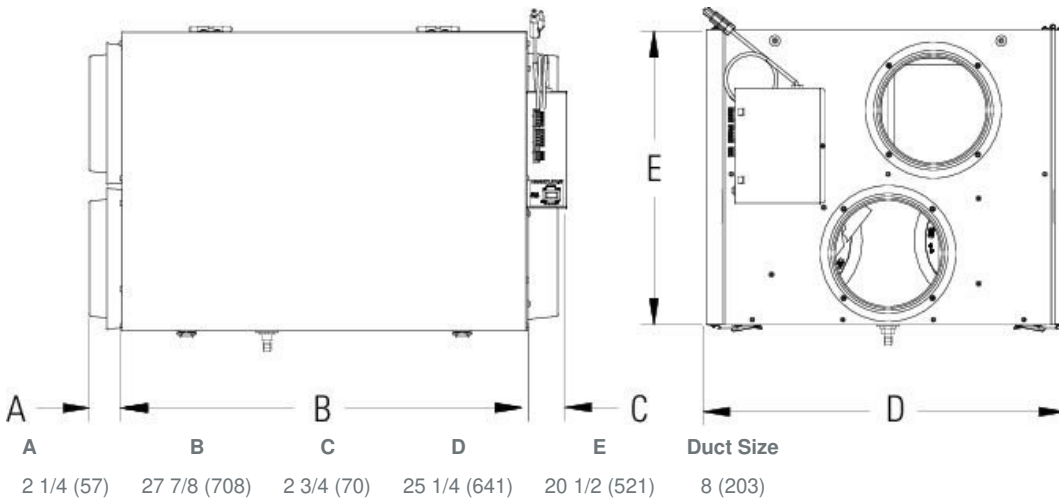


Unit	Supply	Extract
Required air flow	-	-
Working air flow	-	-
Required external pressure	-	-
Working air pressure	-	-
Power	-	-
Current	-	-
Air density	0.075 lb/ft ³	
Fan control - RPM	-	-

Performances

	Speed	Supply Temperature		Net Airflow		Net Effectiveness			
		°F	°C	cfm	L/s	Latent W	Total %	%	
Heating	Low	35	1.7	165	78	163	73	58	68
	Medium	35	1.7	205	97	197	71	54	65
	High	35	1.7	240	113	275	70	52	63
Cooling	Low	95	35	165	78	163	73	54	61
	Medium	95	35	205	97	197	71	50	58
	High	95	35	240	113	275	70	47	56

Dimensions



Dimensional information is in inches (mm)

Accessories

- ECO-Feel® Auto IAQ Control (414729)
- RTS-W Wireless Timer (414920)
- FML 8 Metal Hood Supply Air (45148)
- Filter,MERV13,260-450,Repl.kit (414935)
- MDEH1 Low Voltage Dehumidistat (40172)
- ECO-Touch® Auto IAQ (414727)
- FIDT 8 Insulated Flex Duct (411065)
- ADC 8 Shut-off Damper w Motor (44690)
- Filter,MERV8,260-450,Repl. kit (414928)

Documents

- E400058 SER 260D Dimensional Submittal.pdf
- 445512 SER260D IOM EN FR.pdf
- 463280 SER 260D Spare Part List.pdf
- 445531 SER260D Spec Sheet.pdf

Specification

Fans

Four (4) 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

Two (2) 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 12" x 12" (305 x 305 mm) with a 12" (305 mm) depth.

Defrost

A preset defrost sequence is activated at an outdoor air temperature of 23°F (-5°C) and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower switches into high speed to maximize the effectiveness of the defrost strategy. The unit then returns to normal operation, and continues cycle.

Serviceability

Core, filters, fans, drain pan and electrical panel can be accessed easily from the access panel. Core conveniently slides out with only 14" (356 mm) clearance.

Case

22 gauge galvanized pre-painted steel corrosion resistant.

Insulation

Cabinet is fully insulated with 1" (25 mm) high density expanded polystyrene.

Filters

Four (4) washable electrostatic panel type air filters 11.75" (292mm) x 15" (380mm) x 0.125" (3mm).

Controls

External three (3) position (Reduced/Stand By/Normal) rocker switch that will offer continuous ventilation. In addition Fantech offers a variety of external controls.

Warranty

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

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
- Energy Recovery Core is ISO 846 certified for mold and bacteria resistance and AHRI certified (certificate #8931528)
- Technical data was obtained from published results of test relating to AHRI 1060 Standards