



Specification Sheet - For Model FER Packaged Electric Make-Up Air Heater With Fan



STANDARD FEATURES:

- Built in fan with variable speed controller
- Integrated backdraft damper
- Modulating (SCR) temperature control
- Low and High temperature limit protection
- Listed for zero clearance
- Current sensing relay to start fan
- Supply air temperature sensor
- Listed for horizontal installation
- Automatic and manual reset high limits
- Aluminum mesh permanent washable filter
- 10-year open coil element warranty
- 2-year parts warranty
- Made in North America

Specifications

*Model	Kw	BTU/H	Max CFM @ 0.2" Static	Temp [‡] Rise °F	Amps	Motor FLA	Motor HP	Volts	Phase	Circuit Breaker	Duct Collar	Shipping Weight
FER-6-1.5-120/1	1.5	5,118	100	45	12.5	0.4	1/16	120	1-50/60	20amp	6"	32
FER-6-2-240/1	2.0	6,824	100	60	8.34	0.4	1/16	240	1-50/60	15amp	6"	32
FER-6-3-240/1	3.0	10,236	100	90	12.5	0.4	1/16	240	1-50/60	20amp	6"	32
FER-8-6-240/1	6.0	20,472	300	60	25	0.7	1/10	240	1-50/60	40amp	8"	70
FER-10-10-240/1	10.0	34,120	300	100	41.7	0.7	1/10	240	1-50/60	60amp	10"	70
FER-12-10-240/1	10.0	34,120	600	50	41.7	1.42	1/5	240	1-50/60	60amp	12"	110
FER-12-20-240/1	20.0	68,240	600	100	83.4	1.42	1/5	240	1-50/60	2 x 60amp	12"	110
FER-8-6-208/3	6.0	20,472	300	60	16.7	0.7	1/10	208	3-50/60	30amp	8"	70
FER-10-10-208/3	10.0	34,120	300	100	27.8	0.7	1/10	208	3-50/60	40amp	10"	70
FER-12-10-208/3	10.0	34,120	600	50	27.8	1.42	1/5	208	3-50/60	40amp	12"	110
FER-12-20-208/3	20.0	68,240	600	100	55.6	1.42	1/5	208	3-50/60	2 x 40amp	12"	110
FER-12-20-480/3	20.0	68,240	600	100	24	1.42	1/5	480	3-50/60	40amp	12"	110

Specifications subject to change without notice.

*Custom sizes available in all voltages.

[‡]Based on 0.2" Static pressure

Selecting the Best Model for the Application:

1. Choose a desired temperature rise (ΔT = the difference between the coldest design temperature and the desired duct or supply air temperature).
2. Use the below formula to calculate required Kw size:
 $\Delta T \times \text{CFM} \div 3,412 \text{ (Btu per Kw)} = \text{Kw}$
3. For example: in an application where the coldest design temperature is 0°F and the desired delivery air temperature is 50°F, the temperature rise is 50°F.
 If 400 CFM of make-up air is needed, select the FER-8-6-240/1 model.
 $50 (\Delta T) \times 400 (\text{CFM}) \div 3,412 \text{ (Btu per Kw)} = 5.86 \text{ Kw}$

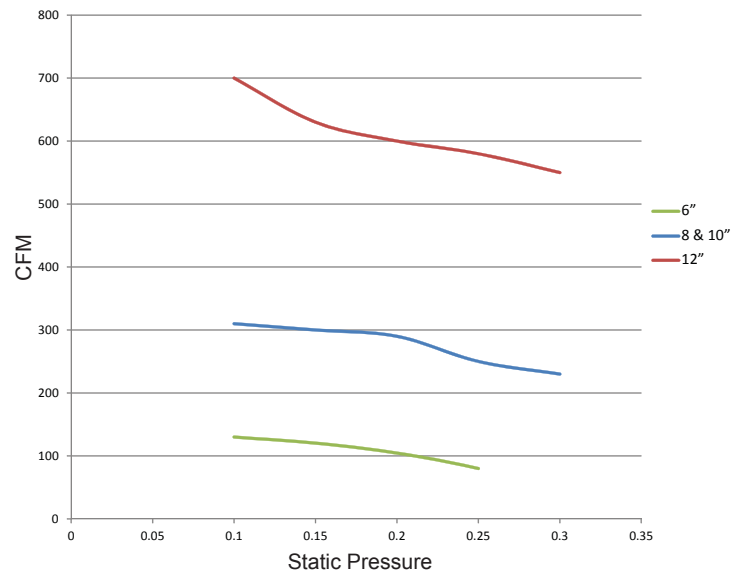
Available sizes:

	100 CFM Fan		300 CFM Fan		600 CFM Fan
Collar Size	6"	6"	8"	10"	12"
Single Phase	●	○	●	●	●
Three Phase		●	●	●	●
Max Voltage	240	600	600	600	600
Max kW	3	3	6	10	20
Dimensions (X x Y x Z)	18 1/2" x 8" x 10 1/2"		36 1/2" x 15" x 15"		43 1/2" x 16" x 21"
Controls Included	Current Sensor		Current Sensor		Current Sensor

○ 208 V > 12.5 Amps

Note: Sizes are approximate and may change without notice

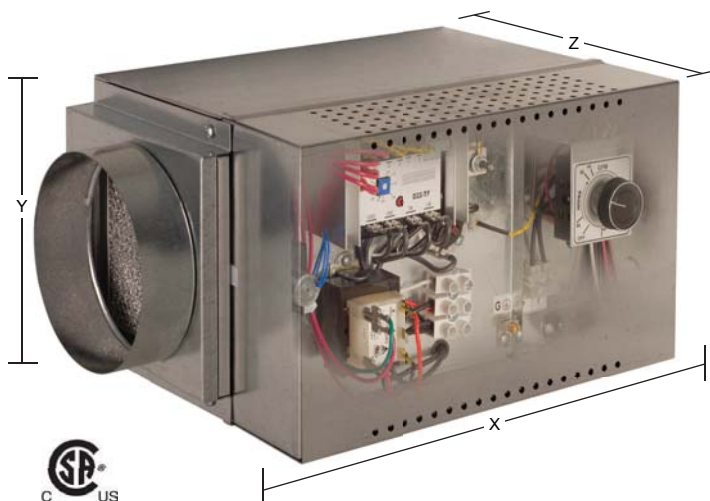
Fan performance:



When ordering please specify the collar size, kW and voltage/phase as in the following example:

FER-12-20-600/3

Collar size (inches) — kW — Voltage/Phase

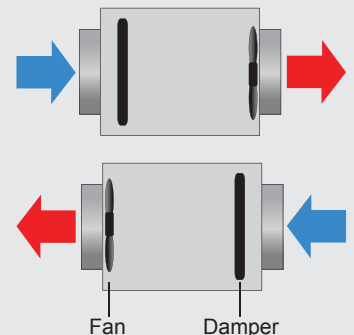


Reversible Airflow

There is no need to modify the fan or any wiring to reverse the airflow, simply rotate the unit 180°. This is possible due to the automatic thermal cutouts located on both the top and bottom of the unit.

NOTE:

Not suitable for vertical airflow.



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