Performance

Unit Tag: ERV3

Summary

Unit Details	

Unit Tag:	ERV3		
Model:	A16IN - (325 - 775 CFM)	Orientation:	Horizontal
Qty:	1	ESP SA / RA (inH2O):	0.75 / 0.75
Location:	Indoor	Filters OA / RA:	2" 85% MERV-13 / 2" 30% MERV-8
Altitude (ft):	0	Controls Preference:	Constant Volume
Bypass:	No	Dampers & Actuator:	No Casing - Field Mounted and Wired

Electrical Requirements

Total Number of Connections Required: 2

Unit		Preheat Electric Heater	
Voltage:	208V/1ph/60Hz	Std. Coil:	1
Range:	207 - 253V	Controls:	SCR
FLA:	5.29	Voltage:	208V/1ph/60Hz
MCA:	5.91	Range:	187.5 - 218.4
RFS:	15A	FLA:	19.24
		MCA:	24.05
		RFS:	25A
		Max KW:	4

Preheat Electric Heater

Actual	
Outdoor Air (CFM):	325
Voltage:	208V/1ph/60Hz
kW:	4
Ent. Air DB/WB (F):	-20 / -21
Lvg Air DB/WB (F):	15 / 9.4
Installation:	In Casing – Field Mounted and Wired

*Separate electrical connection required for heater

Heat Exchanger

Design Condtions	Outdoor Air	Return Air
SCFM:	325	325
Summer DB (F) / WB (F) / RH (%):	91 / 73 / 42.7	75 / 62.5 / 49.9
Winter DB (F) / WB (F) / RH (%):	15 / 9.4 / 1.9	70 / 58.4 / 50

Performance Leaving Air	Supply Air	Exhaust Air
SCFM:	325	325
Summer DB (F) / WB (F) / RH (%):	79 / 66.2 / 51.1	87 / 69.8 / 42.6
Winter DB (F) / WB (F) / RH (%):	56.1 / 47 / 49.8	28.9 / 28.6 / 97.1

Performance	Summer	Winter
Supply Air PD (inH2O):	0.24	0.24
Exhaust Air PD (inH2O):	0.51	0.51
Sensible Effectiveness %:	74.8	74.8
Latent Effectiveness %:	60.3	60.3
Total Effectiveness %:	67.1	69.3
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	325	325
Energy Recover Ratio %:	67.14	69.23
BTU/H Saved	8254	21699

AHRI CERTIFIED®
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Air-to-Air ERV
AHRI Standard 1060
Energy Recovery COMPONENT is certified. Actual performance in packaged equipment may vary.

Summer performance: Certified in accordance with the AHRI ERV Certification Program, which is based on AHRI Standard 1060. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Winter performance: Application rating is outside the scope of the AHRI ERV Certification Program but is rated in accordance with AHRI Standard 1060.