Performance

Unit Tag: ERV10

Summary

Unit Details

Unit Tag:	ERV10		Orientation:	Horizontal
Model:	B20IN - (525 - 1300 CFM)		ESP SA / RA (inH2O):	0.75 / 0.75
Qty:	1		Filters OA / RA:	2" 85% MERV-13 / 2" 30% MERV-8
Location:	Indoor		Controls Preference:	Constant Volume
Altitude (ft):	0		Dampers & Actuator:	NA
Bypass:	No			

Electrical Requirements

Total Number of Connections Required: 2

Unit		Preheat Electric Heater	
Voltage:	208V/1ph/60Hz	Std. Coil:	3
Range:	207 - 253V	Controls:	SCR
FLA:	8.09	Voltage:	208V/1ph/60Hz
MCA:	9.06	Range:	187.5 - 218.4
RFS:	15A	FLA:	86.58
		MCA:	108.225
		RFS:	110A
		Max KW:	18

Preheat Electric Heater

Actual

Outdoor Air (CFM):	1000
Voltage:	208V/1ph/60Hz
kW:	12.2
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:	1000	1000
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:	1000	1000
Summer DB (F) / WB (F) / RH (%):	80.8 / 67.4 / 50.3	85.2 / 68.6 / 43.3
Winter DB (F) / WB (F) / RH (%):	49.9 / 42.1 / 51.1	35.1 / 34.5 / 94.7

Performance	Summer	Winter
Supply Air PD (inH2O):	0.37	0.37
Exhaust Air PD (inH2O):	0.81	0.81
Sensible Effectiveness %:	63.5	63.5
Latent Effectiveness %:	48.7	48.8
Total Effectiveness %:	55.6	57.9
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	1000	1000
Energy Recover Ratio %:	55.71	57.89
BTU/H Saved	21069	55739

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.