

Performance

Unit Tag: ERV1

Summary

Unit Details

Unit Tag:	ERV1	Orientation:	Vertical
Model:	B22OU - (525 - 1300 CFM)	ESP SA / RA (inH ₂ O):	0.75 / 0.75
Qty:	1	Filters OA / RA:	2" 85% MERV-13 / 2" 30% MERV-8
Location:	Outdoor	Controls Preference:	Constant Volume
Altitude (ft):	30	Dampers & Actuator:	No Casing - Field Mounted and Wired
Bypass:	No		

Electrical Requirements

Total Number of Connections Required: 3

Unit	Preheat Electric Heater	Heating Electric Heater
Voltage: 460V/3ph/60Hz	Std. Coil: 1	Std. Coil: 1
Range: 380 - 480V	Controls: SCR	Controls: SCR
FLA: 8.14	Voltage: 460V/3ph/60Hz	Voltage: 460V/3ph/60Hz
MCA: 9.14	Range: 414.0 - 483.0V	Range: 414.0 - 483.0V
RFS: 15A	FLA: 8.4	FLA: 8.4
	MCA: 11.025	MCA: 11.025
	RFS: 15A	RFS: 15A
	Max KW: 7	Max KW: 7

Preheat Electric Heater

Actual	
Outdoor Air (CFM):	1000
Voltage:	460V/3ph/60Hz
kW:	0.4
Ent. Air DB/WB (F):	35 / 34
Lvg Air DB/WB (F):	36 / 34.6
Installation:	In Casing – Field Mounted and Wired
*Separate electrical connection required for heater	

Heat Exchanger

Design Conditions	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 (%):	36 / 34.6 / 87.3	72 / 60.1 / 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 (%):	58.8 / 50.8 / 57.5	49.2 / 46.7 / 83.5

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	58.2
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	1000	1000
Energy Recover Ratio %:	55.7	58.06
BTU/H Saved	21084	35532



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

Heating Electric Heater

Electric Heater	
Outdoor Air (CFM):	1000
Voltage:	460V/3ph/60Hz
kW:	4.2
Entering Temp (F):	58.8
Leaving Temp (F):	72
Installation:	In Casing – Field Mounted and Wired
*Separate electrical connection required for heater	

