



Performance
Unit Tag: ERU1

B22 SUBMITTAL
OU

Summary

Unit Details			
Unit Tag:	ERU1	Orientation:	Vertical
Model:	B22OU - (525 - 1300 CFM)	ESP SA / RA (inH2O):	0.75 / 0.75
Qty:	1	Filters OA / RA:	2" 30% MERV-8 / 2" 30% MERV-8
Location:	Outdoor	Controls Preference:	Constant Volume
Altitude (ft):	164	Dampers & Actuator:	No Casing - Field Mounted and Wired
Drain Connection:	Yes		
Bypass:	No		

Electrical Requirements

Total Number of Connections Required: 0

Unit		Preheat Electric Heater	
Voltage:	208V/3ph/60Hz	Std. Coil:	1
Range:	200 - 240V	Controls:	SCR
FLA:	12.33	Voltage:	208V/3ph/60Hz
MCA:	13.83	Range:	187.2 - 218.4V
RFS:	15A	FLA:	19.46
		MCA:	24.325
		RFS:	25A
		Max KW:	7

Preheat Electric Heater

Actual	
Outdoor Air (CFM):	1500
Voltage:	208V/3ph/60Hz
kW:	2.6
Ent. Air DB/WB (F):	-4.4 / -4.5
Lvg Air DB/WB (F):	0.6 / -0.2
Installation:	In Casing – Field Mounted and Wired
*Separate electrical connection required for heater	

Heat Exchanger

Design Conditions	Outdoor Air	Return Air
SCFM:	1500	1500
Summer DB (F) / WB (F) / RH (%):	84.2 / 68.2 / 44.4	75 / 63 / 51.2
Winter DB (F) / WB (F) / RH (%):	0.6 / -0.2 / 73.7	70 / 54.3 / 35

Performance Leaving Air	Supply Air	Exhaust Air
SCFM:	1500	1500
Summer DB (F) / WB (F) / RH (%):	78.9 / 65.6 / 49.6	80.3 / 65.7 / 46.3
Winter DB (F) / WB (F) / RH (%):	40.5 / 33.9 / 49.2	30.1 / 30 / 98.8

Performance	Summer	Winter
Supply Air PD (inH2O):	0.56	0.56
Exhaust Air PD (inH2O):	1.24	1.24
Sensible Effectiveness %:	57.5	57.5
Latent Effectiveness %:	41.4	41.4
Total Effectiveness %:	50.5	53.7
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	1500	1500
Energy Recover Ratio %:	50.55	53.52
BTU/H Saved	13531	79184

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.

