

B20IN SELECTION ONLY Not for Submittal Use

Performance

Unit Tag: ERV2

Summary				
Unit Details				
Unit Tag: Model: Qty: Location: Altitude (ft): Bypass:	ERV2 B20IN - (525 - 1300 CFM) 1 Indoor 0 No	Orientation: ESP SA / RA (inH2O): Filters OA / RA: Controls Preference: Dampers & Actuator:	Horizontal 0.75 / 0.75 2" 85% MERV-13 / 2" 30% MERV-8 Constant Volume No Casing - Field Mounted and Wired	

Electrical Requirements

Total Number of Connections Required: 3

Unit		Preheat Electric Heater		Heating Electric Heater	
Voltage:	208V/1ph/60Hz	Std. Coil:	1	Std. Coil:	1
Range:	207 - 253V	Controls:	SCR	Controls:	SCR
FLA:	8.09	Voltage:	208V/1ph/60Hz	Voltage:	208V/1ph/60Hz
MCA:	9.06	Range:	187.5 - 218.4	Range:	187.5 - 218.4
RFS:	15A	FLA:	33.67	FLA:	33.67
		MCA:	42.0875	MCA:	42.0875
		RFS:	45A	RFS:	45A
		Max KW:	7	Max KW:	7

Preheat Electric Heater

Actual	
Outdoor Air (CFM):	500
Voltage:	208V/1ph/60Hz
kW:	6.1
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

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Heat Exchanger

Design Condtions	Outdoor Air	Return Air
SCFM:	500	500
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:	500	500
Summer DB (F) / WB (F) / RH (%):	79.2 / 66.2 / 50.6	86.8 / 69.8 / 43
Winter DB (F) / WB (F) / RH (%):	55.6 / 47 / 51.9	29.4 / 28.6 / 91.7

Performance	Summer	Winter
Supply Air PD (inH2O):	0.22	0.22
Exhaust Air PD (inH2O):	0.43	0.43
Sensible Effectiveness %:	73.9	73.9
Latent Effectiveness %:	61.7	61.8
Total Effectiveness %:	67.4	69.3
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	500	500
Energy Recover Ratio %:	67.49	69.25
BTU/H Saved	12763	33393



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.

Heating Electric Heater

FI	lectric	Heater

Outdoor Air (CFM): 500

Voltage: 208V/1ph/60Hz

kW: 2.6 Entering Temp (F): 55.6 Leaving Temp (F): 72

Installation: In Casing – Field Mounted and

Wired

*Separate electrical connection required for heater