

## Performance

## Unit Tag: ERV10

## Summary

## Unit Details

Unit Tag:	ERV10	Orientation:	Horizontal
Model:	B20IN - (525 - 1300 CFM)	ESP SA / RA (inH <sub>2</sub> O):	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 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 (%):	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 (inH <sub>2</sub> O):	0.37	0.37
Exhaust Air PD (inH <sub>2</sub> O):	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



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](http://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.

