

Performance

Unit Tag: ERV31

Summary			
Unit Details			
Unit Tag: Model: Qty: Location: Altitude (ft): Bypass:	ERV31 A16IN - (325 - 775 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: 2

Unit		Preheat Electric Heater		
Voltage:	208V/1ph/60Hz	Std. Coil:	1	
Range:	207 - 253V	Controls:	SCR	
FLA:	5.29	Voltage:	208V/1ph/60Hz	
MCA:	5.91	Range:	187.5 - 218.4	
RFS:	15A	FLA:	19.24	
		MCA:	24.05	
		RFS:	25A	
		Max KW:	4	

Preheat Electric Heater

Actual			
Outdoor Air (CFM):	325		
Voltage:	208V/1ph/60Hz		
kW:	4		
Ent. Air DB/WB (F):	-20 / -21		
Lvg Air DB/WB (F):	15 / 9.4		
Installation:	In Casing – Field Mounted and Wired		
*Separate electrical con	nnection required for heater		

Heat Exchanger

Design Condtions	Outdoor Air	Return Air
SCFM:	325	325
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:	325	325
Summer DB (F) / WB (F) / RH (%):	79 / 66.2 / 51.1	87 / 69.8 / 42.6
Winter DB (F) / WB (F) / RH (%):	56.1 / 47 / 49.8	28.9 / 28.6 / 97.1

Performance	Summer	Winter
Supply Air PD (inH2O):	0.24	0.24
Exhaust Air PD (inH2O):	0.51	0.51
Sensible Effectiveness %:	74.8	74.8
Latent Effectiveness %:	60.3	60.3
Total Effectiveness %:	67.1	69.3
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	325	325
Energy Recover Ratio %:	67.14	69.23
BTU/H Saved	8254	21699



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.