

Performance

Unit Tag: ERV1

Summary

Unit Details

Unit Tag:	ERV1	Orientation:	Vertical
Model:	C70IN - (5500 - 8100 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:	Indoor	Controls Preference:	Constant Volume
Altitude (ft):	0	Dampers & Actuator:	No Casing - Field Mounted and Wired
Bypass:	No		

Electrical Requirements

Total Number of Connections Required: 1

Unit

Voltage:	208V/3ph/60Hz
Range:	200 - 240V
FLA:	51.93
MCA:	58.38
RFS:	80A

Heat Exchanger

Design Conditions	Outdoor Air	Return Air
SCFM:	7000	7000
Summer DB (F) / WB (F) / RH (%):	91 / 73 / 42.7	75 / 62.5 / 49.9
Winter DB (F) / WB (F) / RH (%):	-20 / -21 / 11.9	70 / 58.4 / 50

Performance Leaving Air	Supply Air	Exhaust Air
SCFM:	7000	7000
Summer DB (F) / WB (F) / RH (%):	80.5 / 67.5 / 51.4	85.5 / 68.6 / 42.3
Winter DB (F) / WB (F) / RH (%):	39.2 / 35.6 / 71	10.8 / 10.8 / 100
Winter Condensation:	No	Yes

Performance	Summer	Winter
Supply Air PD (inH ₂ O):	0.83	0.83
Exhaust Air PD (inH ₂ O):	1.56	1.56
Sensible Effectiveness %:	65.8	65.8
Latent Effectiveness %:	45.7	45.7
Total Effectiveness %:	55.1	60.3
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	7000	7000
Energy Recover Ratio %:	55.15	59.99
BTU/H Saved	145995	567076



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.

At current design conditions the heat exchanger is at risk of freezing and performance will be affected. Contact Oxygen8 Applications team for a selection.

