

Performance

Unit Tag: ERV1

Summary

Unit Details

Unit Tag:	ERV1	Orientation:	Horizontal
Model:	A16IN - (325 - 775 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):	6	Dampers & Actuator:	NA

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:
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:	1.1
Ent. Air DB/WB (F):	-5 / -5
Lvg Air DB/WB (F):	5 / 3.5
Installation:	In Casing – Field Mounted and Wired
*Separate electrical connection required for heater	

Heat Exchanger

Design Conditions	Outdoor Air	Return Air
SCFM:	325	325
Summer DB (F) / WB (F) / RH (%):	13.3 / 10.9 / 54.6	75 / 63 / 51.6
Winter DB (F) / WB (F) / RH (%):	5 / 3.5 / 59.2	70 / 53 / 30.2

Performance Leaving Air	Supply Air	Exhaust Air
SCFM:	325	325
Summer DB (F) / WB (F) / RH (%):	59.4 / 51.2 / 56.9	28.9 / 28.9 / 100
Winter DB (F) / WB (F) / RH (%):	53.6 / 42.1 / 35.4	21.4 / 21.2 / 97.4
Summer Condensation:	No	Yes

Performance	Summer	Winter
Supply Air PD (inH ₂ O):	0.24	0.24
Exhaust Air PD (inH ₂ O):	0.51	0.51
Sensible Effectiveness %:	74.8	74.8
Latent Effectiveness %:	60.3	60.3
Total Effectiveness %:	69.2	71.6
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	325	325
Energy Recover Ratio %:	69.05	71.52
BTU/H Saved	24492	20926

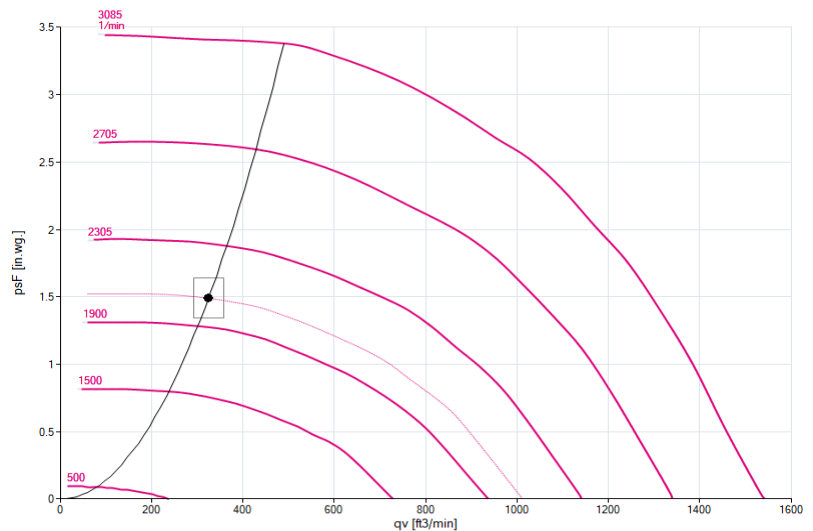


Summer performance: Certified in accordance with the AHRI ERV Certification Program, which is based on AHRI Standard 1060. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Winter performance: Application rating is outside the scope of the AHRI ERV Certification Program but is rated in accordance with AHRI Standard 1060.

Supply Fan

Fan	
Model:	GR25C-6ID.BD.CR
Nominal values for single fan	
Power Input (KW):	0.50
FLA (A):	2.50
Operating point for single fan	
Power Input (KW):	0.14
Current (A):	0.63
RPM:	2049
SFP (W/CFM):	0.44
Filter Pressure Drop:	
Included in TSP and fan curve (in w.g.):	0.50
Clean filter (in w.g.):	0.50
Dirty filter (in w.g.):	1.00



Exhaust Fan

Fan

Model:GR25C-6ID.BD.CR

Nominal values for single fan

Power Input (KW):0.50

FLA (A):2.50

Operating point for single fan

Power Input (KW):0.17

Current (A):0.75

RPM:2221

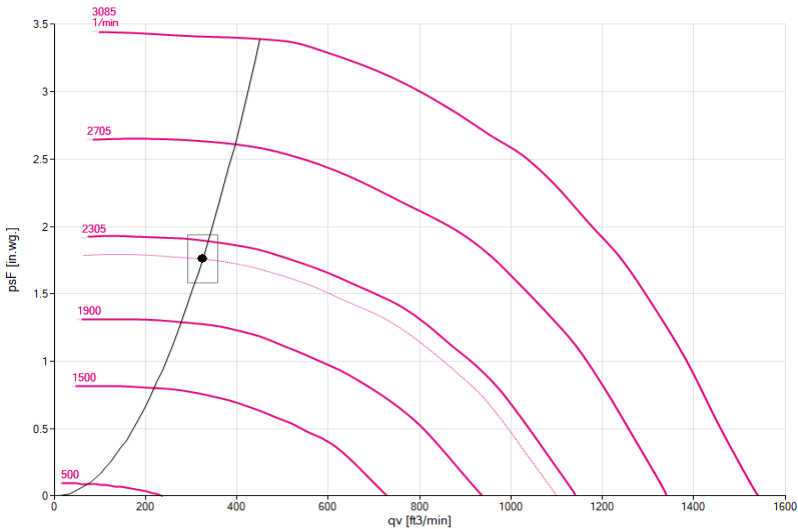
SFP (W/CFM):0.53

Filter Pressure Drop:

Included in TSP and fan curve (in w.g.):0.50

Clean filter (in w.g.):0.14

Dirty filter (in w.g.):1.00

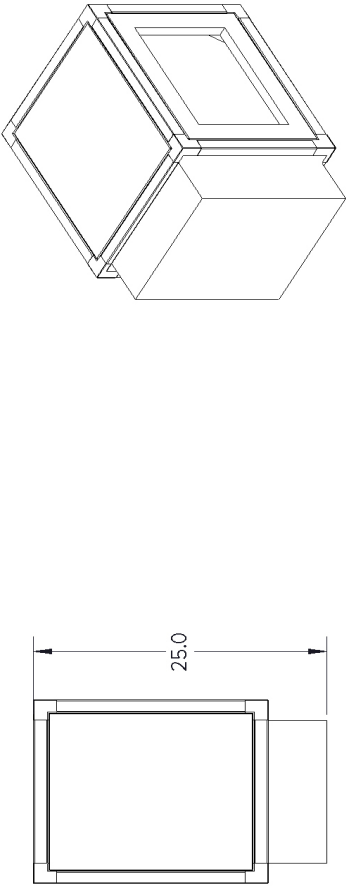


Unit Sound Data

	63	125	250	500	1000	2000	4000	8000	dB (A)
Unit Radiated	76	75	67	57	50	50	40	33	63
Supply Fan Lw: 325 CFM	72	69	69	63	62	60	52	47	67
Exhaust Fan Lw: 325 CFM	77	71	72	66	65	63	55	50	70

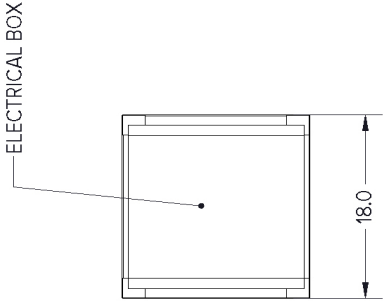
NOTES:

OVERALL UNIT DIMENSIONS ARE SUBJECT
TO CHANGE WITHOUT NOTICE.

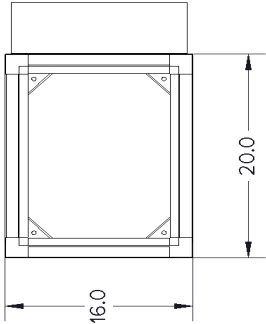


TOP VIEW

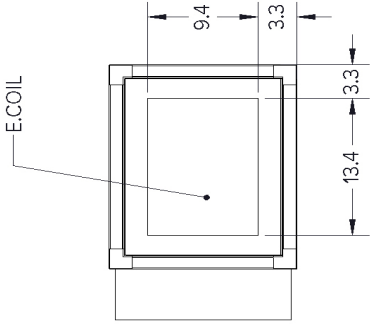
ISO VIEW



FRONT VIEW



LEFT VIEW



RIGHT VIEW

ASSEMBLY DRAWING		Rev: A	Size: B	Scale: 1:12
Description: ACCESSORY NOVA A16 INDOOR COUPLED HORIZONTAL LH 2081_04		Drawing No: ACC_NOVA_A16_LPH_LEC_2081_04		Weight: 128 Lbs
Drawn By: B. K.		Drawn Date: 2021-09-07		Application: FLOOR MOUNTED
Appd By: M. D.		Appd Date: 2021-09-10		Sheet 1 of 1

OXYGEN

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONS : 0.03
DECIMALS : 0.010
FINISH : 125 μin
REMOVE ALL BURRS AND
BREAK ALL SHARP EDGES

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