

Summary			
Unit Details			
Unit Tag:	ERV1	Orientation:	Horizontal
Model:	A16IN - (325 - 775 CFM)	ESP SA / RA (inH2O):	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

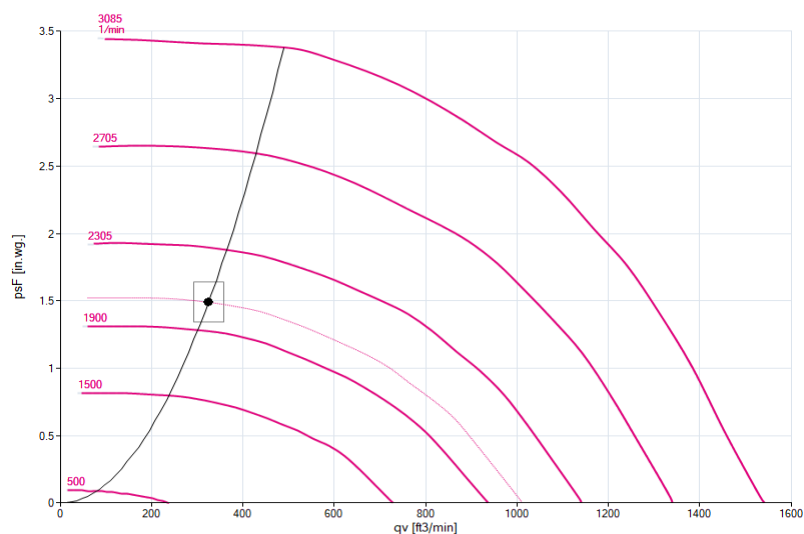
Performance	Summer	Winter
Supply Air PD (inH ₂ O):	0.24	0.24
Exhaust Air PD (inH ₂ O):	0.51	0.51
Sensible Effectiveness %:	74.8	74.8
Latent Effectiveness %:	60.3	60.3
Total Effectiveness %:	69.2	71.6
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	325	325
Energy Recover Ratio %:	69.05	71.52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



Sound Data	63	125	250	500	1000	2000	4000	8000	dB (A)
Discharge Sound Power Level (dB):	74.6	71.51	71.68	65.43	64.58	63.22	56.51	51.84	70.04

*Sound data represents fans only, does not reflect final unit sound

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

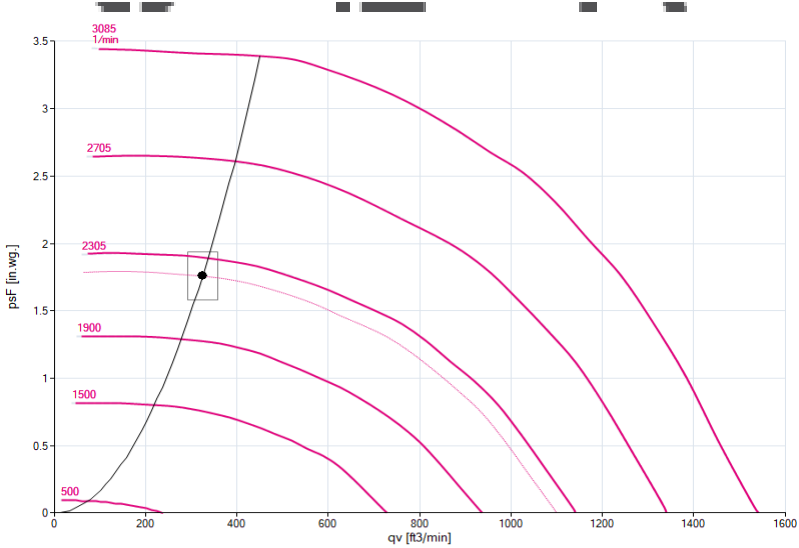
SFP (W/CFM): 0.53

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



Sound Data									
	63	125	250	500	1000	2000	4000	8000	dB (A)
Discharge Sound Power Level (dB):	79.03	73.42	74.61	68.25	67.35	66.53	59.62	55.07	72.99

*Sound data represents fans only, does not reflect final unit sound

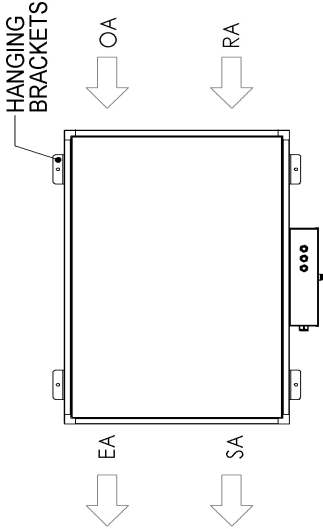
NOMENCLATURE:

- SA - SUPPLY AIR
- RA - RETURN AIR
- OA - OUTDOOR AIR
- EA - EXHAUST AIR

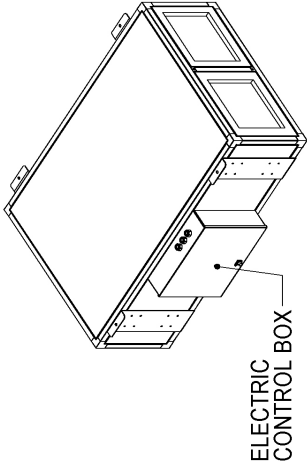
NOTES:

36" OF CLEARANCE MUST BE MAINTAINED PERPENDICULAR TO THE ELECTRICAL BOX AS PER THE NATIONAL ELECTRIC CODE (NEC).

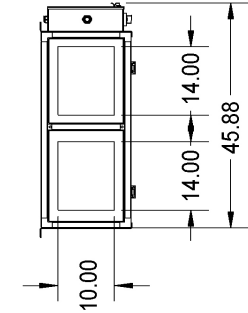
OVERALL UNIT DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



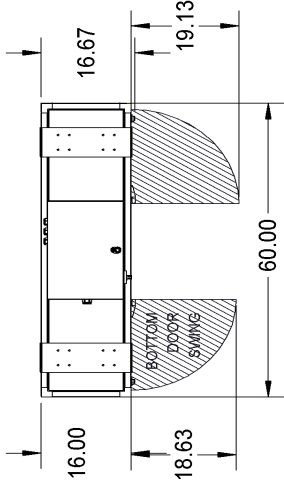
TOP VIEW



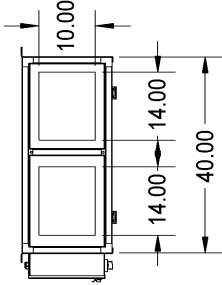
ISO VIEW



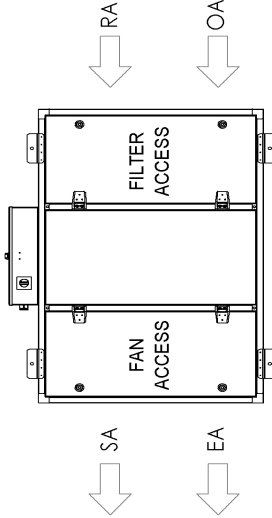
LEFT VIEW



FRONT VIEW



RIGHT VIEW



BOTTOM VIEW



300-638 Smith Street, Vancouver, British Columbia, V6B 1E3, Canada

UNLESS OTHERWISE SPECIFIED
0.015
0.03
0.00
0.010
FINISH .125 in
REMOVE ALL BURRS AND
BREAK ALL SHARP EDGES

THE REPRODUCTION,
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ALL DIMENSIONS ARE IN INCHES

ASSEMBLY DRAWING

Scale: 1:25

Rev: A

Size: B

Horizontal S1 01_02_03_04

Description: NOVA A16 ERV INDOOR LH
Drawing No: NOVA_A16_ERV_S1_LH_S1_ND_01_02_03_04
Weight: 263 Lbs

Drawn By: B. K.
Installation:

Drawn Date: 2021-06-29

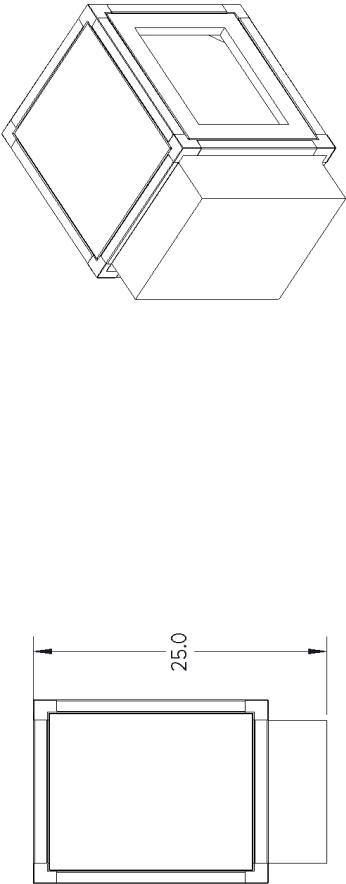
Appd Date: 2021-06-29

M. D.

Sheet 1 of 1

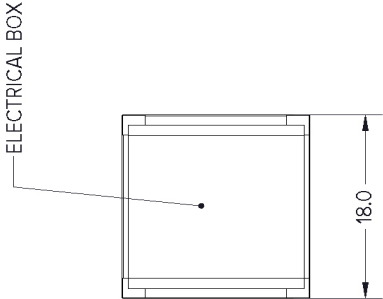
NOTES:

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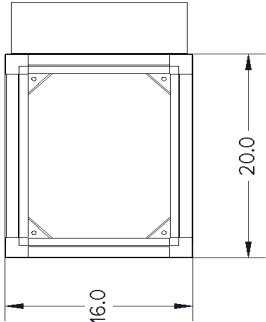


TOP VIEW

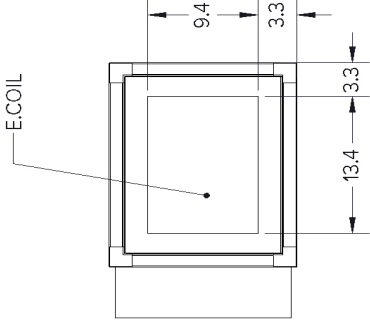
ISO VIEW



FRONT VIEW



LEFT VIEW



RIGHT VIEW

ALL DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED FRACTIONS : 1/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8 DECIMALS : 0.031, 0.062, 0.125, 0.250, 0.375, 0.500, 0.625, 0.750, 0.875, 1.000 FINISH : 125 μin REMOVE ALL BURRS AND BREAK ALL SHARP EDGES	OXYGEN 8	ASSEMBLY DRAWING	Rev: A	Size: B	Scale: 1:12
	THE REPRODUCTION, DISTRIBUTION AND UTILIZATION OF THIS DRAWING AS WELL AS THE COMMUNICATION OF ITS CONTENTS TO THIRD PARTIES WITHOUT EXPLICIT AUTHORIZATION IS PROHIBITED.	300-638 Smith Street, Vancouver, British Columbia, V6B 1E3, Canada	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.	Application: FLOOR MOUNTED		
			Appd By: M. D.	Sheet 1 of 1		