

Performance

Unit Tag: ERV1

		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 E	lectric 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

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 Condtions	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 (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 %:	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

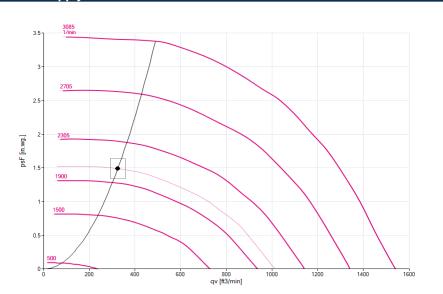


Summer performance: Certified in accordance with the AHRI ERV Certification Program, which is based on AHRI Standard 1060. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

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 s	ingle fan
Power Input (KW):	0.50
FLA (A):	2.50
Operating point for s	ingle 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



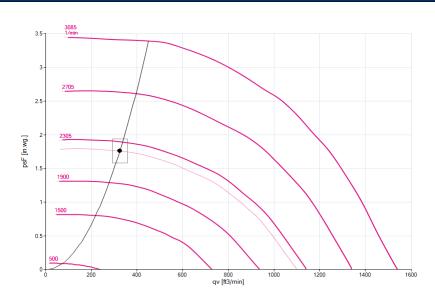
Exhaust Fan

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

SFP (W/CFM): 0.53

Filter Pressure Drop:
Included in TSP and fan curve (in w.g.):

Clean filter (in w.g.): 0.14 Dirty filter (in w.g.): 1.00



			Unit Sound	d 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

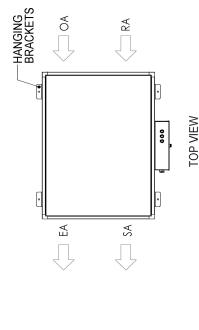
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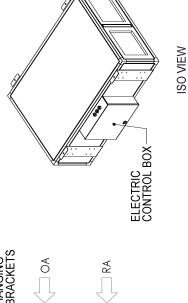
SA - SUPPLY AIR RA - RETURN AIR OA - OUTDOOR AIR EA - EXHAUST AIR

NOTES:

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

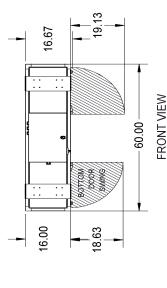
OVERALL UNIT DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.





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RIGHT VIEW

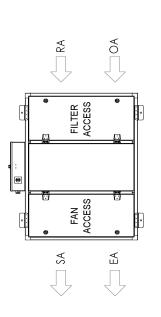


14.00 - 14.00 -

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LEFT VIEW



BOTTOM VIEW

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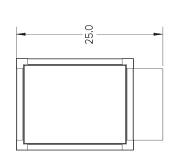
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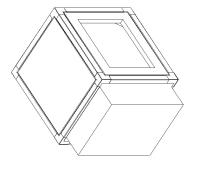
300-638 Smithe Street, Vancouver, British Columbia, V6B 1E3, Canada

	ASSEMBLY DRAWING		Rev: A Size: B	Size: B	Scale: 1:25
4	Description: NOVA A16	Description: NOVA A16 ERV INDOOR LH Horizontal S1 01_02_03_04	al S1 01_02	_03_04	
200	Drawing Ne: NOVA_A16_E	Drawing No: NOVA_A16_ERV_S_I_L_H_S1_ND_01_02_03_04	3_04	Weight: 263 Lbs	rps
	Drawn By: B. K.	Drawn Date: 2021-06-29		Installation:	
	Appd By: M. D.	Appd Date: 2021-06-29			Sheet 1 of 1

NOTES:

OVERALL UNIT DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

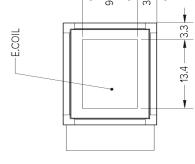




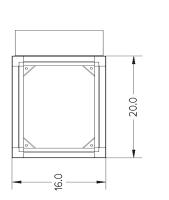
TOP VIEW

-ELECTRICAL BOX

ISO VIEW



RIGHT VIEW



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	FRONT VIEW

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LEFT VIEW

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	ASSEMBLY DRAWING		Rev: A	Rev: A Size: B	Scale: 1:12	2
	Description: ACCESSOF	Description: ACCESSORY NOVA A16 INDOOR COUPLED HORIZONTAL LH 2081_04	OUPLED P	HORIZON	TAL LH 2081_(4
or i	Drawing Ne: ACC_NOVA_A16_I_PH_L_EC_2081_04	116_I_PH_L_EC_2081_04	W	Weight: 128 Lbs	Lbs	
	Drawn By: B. K.	Drawn Date: 2021-09-07		ation: FLO	Application: FLOOR MOUNTED	
	Appd By: M. D.	Appd Date: 2021-09-10			Sheet 1 of 1	