



Performance

Unit Tag: WELCOME

A16IN SUBMITTAL
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Summary

Unit Details			
Unit Tag:	WELCOME	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):	0	Dampers & Actuator:	No Casing - Field Mounted and Wired
Bypass:	No		

Electrical Requirements

Total Number of Connections Required: 0

Unit	Preheat Electric Heater	Heating Electric Heater
Voltage: 208V/1ph/60Hz	Std. Coil: 1	Std. Coil: 1
Range: 207 - 253V	Controls: SCR	Controls: SCR
FLA: 5.29	Voltage: 575V/3ph/60Hz	Voltage: 575V/3ph/60Hz
MCA: 5.91	Range: 517.5 - 603.8V	Range: 517.5 - 603.8V
RFS: 15A	FLA: 3.84	FLA: 3.84
	MCA: 4.8	MCA: 4.8
	RFS: 15A	RFS: 15A
	Max KW: 4	Max KW: 4

Preheat Electric Heater

Actual	
Outdoor Air (CFM):	325
Voltage:	575V/3ph/60Hz
kW:	0.1
Ent. Air DB/WB (F):	35 / 33
Lvg Air DB/WB (F):	36 / 33.6
Installation:	Duct mounted
*Separate electrical connection required for heater	

Heat Exchanger

Design Conditions	Outdoor Air	Return Air
SCFM:	325	325
Summer DB (F) / WB (F) / RH (%):	95 / 78 / 47.3	75 / 63 / 51.2
Winter DB (F) / WB (F) / RH (%):	36 / 33.6 / 78.7	70 / 58 / 47.9

Performance Leaving Air	Supply Air	Exhaust Air
SCFM:	325	325
Summer DB (F) / WB (F) / RH (%):	80 / 68.7 / 56.5	90 / 73.4 / 46
Winter DB (F) / WB (F) / RH (%):	61.4 / 51.7 / 51.3	44.6 / 42.1 / 82

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 %:	65.9	69.8
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	325	325
Energy Recover Ratio %:	65.97	69.62
BTU/H Saved	12405	12842

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

Heating Electric Heater

Electric Heater	
Outdoor Air (CFM):	325
Voltage:	575V/3ph/60Hz
kW:	1.1
Entering Temp (F):	61.4
Leaving Temp (F):	72
Installation:	Duct mounted
*Separate electrical connection required for heater	

