

Performance

Unit Tag: DOAS

Summary

Unit Details

Unit Tag:	DOAS	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):	0	Dampers & Actuator:	NA
Bypass:	No		

Electrical Requirements

Total Number of Connections Required: 3

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: 208V/1ph/60Hz	Voltage: 208V/1ph/60Hz
MCA: 5.91	Range: 187.5 - 218.4	Range: 187.5 - 218.4
RFS: 15A	FLA: 19.24	FLA: 19.24
	MCA: 24.05	MCA: 24.05
	RFS: 25A	RFS: 25A
	Max KW: 4	Max KW: 4

Preheat Electric Heater

Actual	
Outdoor Air (CFM):	500
Voltage:	208V/1ph/60Hz
kW:	0.2
Ent. Air DB/WB (F):	35 / 33
Lvg Air DB/WB (F):	36 / 33.6
Installation:	In Casing – Field Mounted and Wired
*Separate electrical connection required for heater	

Heat Exchanger

Design Conditions	Outdoor Air	Return Air
SCFM:	500	500
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 / 52.9 / 30

Performance Leaving Air	Supply Air	Exhaust Air
SCFM:	500	500
Summer DB (F) / WB (F) / RH (%):	81.2 / 69.8 / 56.9	88.8 / 72.4 / 45.8
Winter DB (F) / WB (F) / RH (%):	59.5 / 47.2 / 38	46.5 / 40.7 / 60.3

Performance	Summer	Winter
Supply Air PD (inH2O):	0.34	0.34
Exhaust Air PD (inH2O):	0.77	0.77
Sensible Effectiveness %:	69.0	69.0
Latent Effectiveness %:	52.3	52.2
Total Effectiveness %:	58.7	66.9
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	500	500
Energy Recover Ratio %:	58.85	66.78
BTU/H Saved	17022	14194



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):	500
Voltage:	208V/1ph/60Hz
kW:	2
Entering Temp (F):	59.5
Leaving Temp (F):	72
Installation:	In Casing – Field Mounted and Wired
*Separate electrical connection required for heater	

