

## Performance

## Unit Tag: DOAS

## Summary

## Unit Details

Unit Tag:	DOAS	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:	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](http://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	

