Performance

Unit Tag: DOAS4

Summary

Unit Details			
Unit Tag:	DOAS4		
Model:	A16IN - (325 - 775 CFM)	Orientation:	Horizontal
Qty:	1	ESP SA / RA (inH2O):	0.75 / 0.75
Location:	Indoor	Filters OA / RA:	2" 85% MERV-13 / 2" 30% MERV-8
Altitude (ft):	164	Controls Preference:	Constant Volume
Bypass:	No	Dampers & Actuator:	NA

Electrical Requirements

Total Number of Connections Required: 0

Unit		Preheat Electric Heater	
Voltage:	208V/1ph/60Hz	Std. Coil:	1
Range:	207 - 253V	Controls:	SCR
FLA:	5.29	Voltage:	208V/3ph/60Hz
MCA:	5.91	Range:	187.2 - 218.4V
RFS:	15A	FLA:	11.12
		MCA:	13.9
		RFS:	15A
		Max KW:	4

Preheat Electric Heater

Actual	
Outdoor Air (CFM):	500
Voltage:	208V/3ph/60Hz
kW:	2.1
Ent. Air DB/WB (F):	-4.4 / -4.5
Lvg Air DB/WB (F):	7.6 / 5.5
Installation:	Duct mounted
*Separate electrical connection required for heater	

Heat Exchanger

Design Condtions	Outdoor Air	Return Air
SCFM:	500	500
Summer DB (F) / WB (F) / RH (%):	84.2 / 68.2 / 44.4	75 / 63 / 51.2
Winter DB (F) / WB (F) / RH (%):	7.6 / 5.5 / 51.4	70 / 54.3 / 35

Performance Leaving Air	Supply Air	Exhaust Air
SCFM:	500	500
Summer DB (F) / WB (F) / RH (%):	77.9 / 65 / 50.6	81.3 / 66.3 / 45.4
Winter DB (F) / WB (F) / RH (%):	50.7 / 40.8 / 40.2	26.9 / 26.7 / 97.7

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 %:	61.8	64.7
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	500	500
Energy Recover Ratio %:	61.84	64.64
BTU/H Saved	5518	29366

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.