

Performance

Unit Tag: DOAS1

Summary

Unit Details

Unit Tag:	DOAS1	Orientation:	Horizontal
Model:	C24IN - (2000 - 2700 CFM)	ESP SA / RA (inH ₂ O):	1 / 1
Qty:	2	Filters OA / RA:	2" 85% MERV-13 / 2" 30% MERV-8
Location:	Indoor	Controls Preference:	Constant Volume
Altitude (ft):	164	Dampers & Actuator:	In Casing - Field Mounted and Wired
Bypass:	No		

Electrical Requirements

Total Number of Connections Required: 2

Unit	Preheat Electric Heater
Voltage: 208V/3ph/60Hz	Std. Coil: 1
Range: 200 - 240V	Controls: SCR
FLA: 17.53	Voltage: 460V/3ph/60Hz
MCA: 19.68	Range: 414.0 - 483.0V
RFS: 25A	FLA: 15.6
	MCA: 20.475
	RFS: 25A
	Max KW: 13

Preheat Electric Heater

Actual	
Outdoor Air (CFM):	2600
Voltage:	460V/3ph/60Hz
kW:	10.9
Ent. Air DB/WB (F):	-4.4 / -4.5
Lvg Air DB/WB (F):	7.6 / 5.5
Installation:	In Casing – Field Mounted and Wired
*Separate electrical connection required for heater	

Heat Exchanger

Design Conditions	Outdoor Air	Return Air
SCFM:	2600	2600
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:	2600	2600
Summer DB (F) / WB (F) / RH (%):	78.3 / 65.4 / 50.5	80.9 / 66 / 45.5
Winter DB (F) / WB (F) / RH (%):	47.9 / 38.3 / 39	29.7 / 29.5 / 97.4

Performance	Summer	Winter
Supply Air PD (inH2O):	0.96	0.96
Exhaust Air PD (inH2O):	1.79	1.79
Sensible Effectiveness %:	64.5	64.5
Latent Effectiveness %:	43.8	43.9
Total Effectiveness %:	55.6	59.3
EATR %:	0.5	0.5
OACF:	1.00	1.00
Net Supply Airflow (SCFM):	2600	2600
Energy Recover Ratio %:	55.62	59.16
BTU/H Saved	25804	139717



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.

