



Job:
Mark: 50 Ton OAU SA-8000 DH
Model: VX-312-50D-O

VX-312-50D-O

Unit Performance

Design Conditions						
Elevation (ft)	Summer		Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Exhaust Air (CFM)
	DB (F)	WB (F)				
837	80.0	76.5	30.0	8,000	8,000	-

Unit Specifications						
Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing	Furnace ETL Listing
1	5,663 (+/- 5%)	Packaged DX	Indirect Gas	Outdoor	UL/cUL 1995	ANSI Z83.8 / CSA 2.6

Configuration				
Outdoor Air			Exhaust Air	
Intake	Discharge		Intake	Discharge
End	Bottom		-	-

ASHRAE 90.1-2016 Compliance			
ISMRE	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
	4	4.1	✓

Cooling Specifications							
Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	Coil (DB/WB)		Reheat	
				EAT (F)	LAT (F)	Capacity (MBH)	LAT (F)
Packaged DX	640.1	223.4	Digital Scroll	80.0 / 76.5	54.1 / 53.8	175.5	74.4

Heating Specifications								
Type	Gas Type	Input (MBH)	Output (MBH)	Temperature Rise		Turndown	Performance	
				Min (F)	Max (F)		EAT (F)	LAT (F)
Indirect Gas	Natural	600.0	480.0	3.0	56.0	16:1	30.0	85.6

Air Performance							
Type	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	FRPM	Fan		
					Qty	Type	Drive-Type
Supply	8,000	1	1.874	1191	2	Plenum	Direct

Motor Specifications						
Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	2	1.68	2	ODP	PE	1750

Electrical Specifications				
Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	Fan Power (W/CFM)*
Unit	460/60/3	102.0	125.0	0.313

*Fan Power (W/CFM) = (Supply BHP + Exhaust BHP) / Supply CFM



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Construction Features And Accessories

Unit	
Unit Installation - Outdoor	Std
Unit Construction - Double Wall	Std
Insulation - 2 inch 2.4# R13 foam	Std
Corrosion Resistant Fasteners	Std
Hinged Access	Std
Factory Wired Non-Fused Disconnect Switch	X
Direct Drive Plenum Blower & Motor Assemblies	X
Factory Wired VFDs	Std
Unit Finish - Permatector, Concrete Gray (RAL 7023)	X
Stainless Steel Condensate Drain Pan and Connection	Std
Condensate Drain Trap	Std
Short Circuit Current - 5 kA	Std
Controls	
Unit Controls - Full Control	Std
Internally Mounted Control Center with 24 VAC control transformer(s) and control circuiting fusing	Std
BMS Protocol - BACNetIP	X
BMS Monitoring Points	
Supply Fan Control - Constant Volume-Adj. Setpoint	X
Exhaust Fan Control	
Exhaust Fan Only Power	
Energy Wheel Rotation Sensor	
Web-Based User Interface	Std
Outd/Rec. Air Damper Ctrl - 100% OA-No Recirculation	X
Economizer Control	
Furnace Control - 16:1 Modulating	X
Control Accessories	
Remote Display - w/10 ft cord	X
Dirty Filter Sensor(s) - Supply	X
Airflow Monitor - Supply Air	X
Room Thermostat	
Phase/Brownout Protection	Std
Economizer Fault Detection Diagnostics	

Accessories	
Recirc Air Damper	
Outdoor Air Damper - Low Leakage	X
Return Air Damper	
Roof Curb - GKD - 91.4/148.6-G14	X
Supply Air Filters - 2" Merv 8, 8-20x20x2, 4-16x20x2	Std
Service Outlet - Factory mounted and wired	X
Piping Vestibule	
Vapor Tight Lights	
Condensate Overflow Switch	X
Spare Filters	
Exhaust Discharge Gravity Backdraft Damper	
ElectroFin Coil Coating - All Coils	X
Motor Shaft Grounding	X
UV Lights	
Bipolar Ionization	
Smoke Detector(s), Supply - Shipped Loose	X
Barometric Relief Damper	
Power Venting	Std
Hail Guards	
Warranty Options	
Unit Warranty - 1 Yr (Standard)	Std
Compressor Warranty - 5 Yrs (4 Yrs Extended)	X
Furnace HX Warranty - 25 Yrs	Std

Standard Option	Std
Not Included	
Included	X

Notes
Electrofin coil coating requires monthly and quarterly coil maintenance to maintain the coil coating, failure to follow cleaning recommendations will void the coatings warranty
Outdoor Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM / ft ² @ 1 in. wg), Class 1A