

Submittal Data VPD048S6M-5P Mini-VRF Heat Pump 208/230V

Job Name:	Location:	
Purchaser:	Engineer:	
Submitted to:	Reference Approval Construction	
Unit designation:	Schedule #:	

General Information

- Compatible with Lennox R-32 VRF indoor units and upcoming R-32 Universal Communication Kit.
- Active AI control enhances operational performance: AI Low Pressure Control can improve cooling speed up to 21%; AI High Pressure Control reduces unnecessarily high pressures, improving efficiency and reducing power consumption.
- · Auto-restart after power loss.
- · Soft-start compressor minimizing current inrush.

Construction

- · Galvanized steel with a baked-on powder coated finish for durability.
- The heat exchanger shall be mechanically bonded aluminum fin to copper tube.

Refrigerant System

- · The system shall utilize low-GWP R-32 refrigerant.
- The compressors shall be hermetically sealed, inverter driven, flash injected scroll type.
- The outdoor unit shall pump down the refrigerant in the event an indoor unit detects a refrigerant leak. The sequence of operations shall include closing refrigerant isolation valves at the end of the pump down process to secure as much refrigerant as possible in the outdoor unit in the event of refrigerant leakage within an indoor door unit.
- Refrigerant flow shall be controlled by an EEV (electronic expansion valve) throughout the system.
- A flat plate subcooler device will improve capacity at extreme system refrigerant pipe lengths and reduce refrigerant noise.
- The system shall include an R32 alarm output plug on the indoor unit and outdoor unit for notification of R32 leak when an indoor unit refrigerant leak detector detects a leak (VSTAT10P-1 accessories are required).

Controls

- · Control wiring shall be 2 X 16 AWG wire.
- No additional interface modules/adapters are required when connecting to Lennox central control options.



Convenience

- The outdoor unit shall have snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- Night-time Quiet Mode: reduction of operational sound during evening hours (automatic or manual activation).
- Maximum Current Control configurable from 50% 100% via outdoor unit, wired controller or central control.











Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor or visit www.energystar.gov.

Specifications VPD048S6M-5P

Model	Outdoor Unit Model Number (US Code)		VPD048S6M-5P
	Detail Organity	Cooling (Btu/h)	48,000
	Rated Capacity*	Heating (Btu/h)	54,000
Performance	Heating Capacity at 5°F OA, 70°	F Indoor DB (Btu/h, Ducted)	38,000
Репогтапсе	SEER2 (Ducted / Mixed / Non-du	ucted)	19 / 20.15 / 21.3
	EER2 (Ducted / Mixed / Non-duc	eted)	11.7 / 12.05 / 12.4
	HSPF2 (Ducted / Mixed / Non-ducted)		10 / 10.25 / 10.5
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		187 - 253
Dower		Cooling (A)	17.8
Power	Nominal Current**	Heating (A)	19.7
	Max. Breaker	Amps	30
	Min. Circuit Ampacity	Amps	24
Dimensione	WXHXD	ln.	37 x 55-15/16 x 13
Dimensions	Weight	lbs.	243.60
Sound Pressure Level	Cooling / Heating (high)		51 / 53
Operating Temperatures		Cooling	23 - 118°F (-5 - 48°C)
	Outdoor	Cooling	0 - 118°F (-18 - 48°C) W/Baffle
		Heating	-22 - 75°F (-30 - 24°C)
	High side		3/8
	Low side (suction)		5/8
Dina Cannactions	Max. Distance - ODU to IDU	ft.	492 (574 equivalent)
Pipe Connections	Max. Line Set Length (total)	ft.	984
	Max. Vertical Separation	Outdoor to indoor (ft.)	IDU above ODU: 131, ODU above IDU: 164
		Highest to lowest indoor (ft.)	49
	Туре		R-32
Refrigerant	Control Method		Electronic Expansion Valve (D)
	Factory Charge	OZ.	105.8
Compressor	Туре		Flash Injected, Inverter Driven Scroll
Compressor	RLA	Amps	19.3
Candanaar Fa-	Туре		BLDC With Axial Type Fan (2)
Condenser Fan MOC / Watts / CFM (max.			1.2 / 125W X 2 / 4,415
Corrosion Prevention	IS0-9227 - The condenser heat exchanger showed no unusual rust or corrosion development to 3,000 hours.		
	Certifications		UL 60335-2-40
Safety	PCB fuses, indoor unit terminal block thermal fuse, current transf protection, crankcase heating, temperature limit protection logic, sensing		

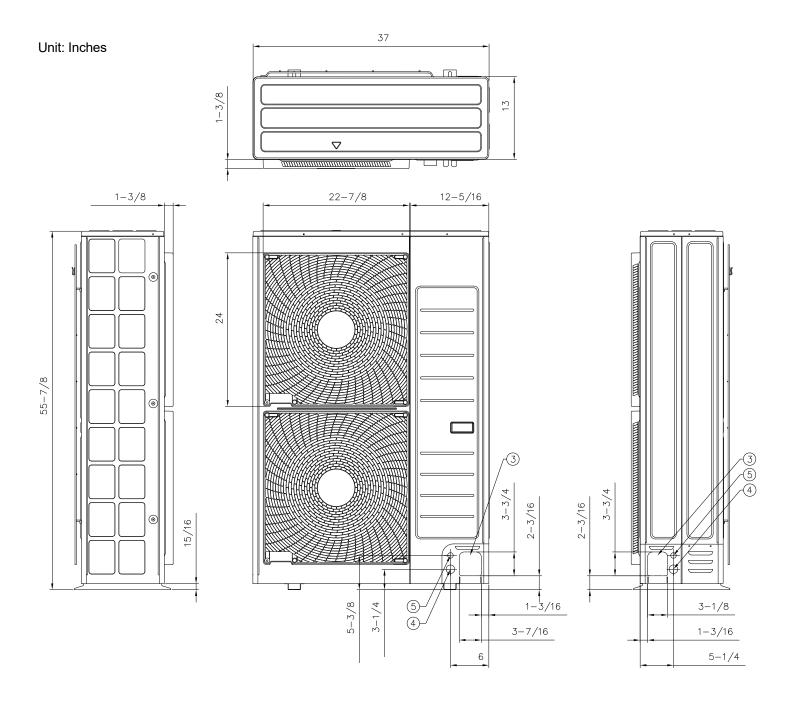
^{*}Standard capacity is based on non-ducted rated capacity. Minimum and maximum capacity will vary based on connected indoor unit type, capacity, and quantity along with indoor and outdoor temperatures. Refer to system capacity tables for full capacity details.

**Rated current based on highest combination ratio of non-ducted indoor units.

Accessories VPD048S6M-5P

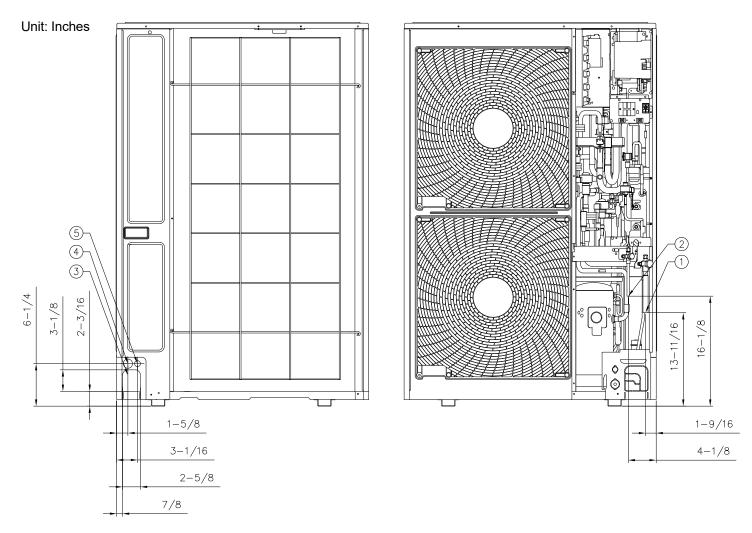
Wind baffles	Front	M1WBF12-1P
	Back	M1WBF06-1P
Hail guard kit (includes back and side guards)		38U99 & 39B62
Base pan heater kit		V1BPNH01
External contact control interface module (operation and error output, night silent mode manual activation)		VSTAT10P-1

Dimensional Drawing VPD048S6M-5P



No.	Description	
3	Pipe Intake Knockout Hole	
4	Opening for Power Wire Conduit (1 3/8)	
5	Opening for Communication Conduit (7/8)	

Dimensional Drawing VPD048S6M-5P



No.	Description
1	Gas Pipe Connection (5/8)
2	Liquid Pipe Connection (3/8)
3	Pipe Intake Knockout Hole
4	Opening for Power Wire Conduit (1 3/8)
5	Opening for Communication Conduit (7/8)
6	Drain Holes

