LENNOX VRF

SUBMITTAL DATA - OUTDOOR UNIT
VRB480H4M-3Y
VRB168H4M-3Y + VRB168H4M-3Y+ VRB144H4M-3Y
VRF Heat Recovery

Job:		**Engineer:**	
Location:		**Architect:**	
Schedule No.:		**Location:**	
System Designation:		**Date:**	

For: ☐ Reference ☐ Approval ☐ Review ☐ Construction

Heat Recovery Outdoor Unit

FEATURES

- Split coil heat exchanger
- Dual hinged electrical boxes for ease of maintenance
- High-efficiency vapor injection inverter compressors
- Intelligent Duty Cycle operation
- Night Silent operation
- Hinged service doors
- Built-in service console
- Built-in base pan heater
- Low Ambient Cooling

WARRANTY

- Compressor - 10-year limited warranty
- All other components - 10-year limited warranty
  *See warranty for details

SPECIFICATIONS

PERFORMANCE

Cooling Capacity[1] (Btu/h)	Nominal	480,000
	Rated[2]	456000
EER	Ducted	9.3
	Non-Ducted	9.3
IEER	Ducted	16.8
	Non-Ducted	18.4
Simultaneous Heating and Cooling Efficiency (SCHE)	Ducted	21.1
	Non-Ducted	21.3
Heating Capacity[1] (Btu/h)		510,000
COP47	Ducted	3.2
	Non-Ducted	3.2
COP17	Ducted	2.25
	Non-Ducted	2.25

ELECTRICAL DATA

Power Supply (Volts/Phase/Hertz)	208-230/3/60
Minimum Circuit Ampacity (A)	(2) 84.8 + 77.1
Maximum Overcurrent Protection (A)	(2) 90 + 80
Compressor RLA (A)	(2) 34/34 + 31/30
Number of Compressors	(3) 2
Outdoor Fan Power Input (W)	(3) 1200/1200
Outdoor Fan FLA (A)	(3) 4.0/4.3

GENERAL DATA

Connection Ratio	50% to 130%
Maximum Number of Indoor Units	64
Refrigerant Type	R-410A
Factory Refrigerant Charge (each unit)	23.8 lbs.

DIMENSIONS		VRB168	VRB168	VRB144
Unit Dimensions (in)	Height	72	72	72
	Width	68-1/2	68-1/2	68-1/2
	Depth	32-5/8	32-5/8	32-5/8
Main System Piping (in)				
Liquid Pipe Connection		3/4	3/4	3/4
High Pressure Gas Pipe		1-3/8	1-3/8	1-3/8
Low Pressure Gas Pipe		1-3/8	1-3/8	1-3/8
Balancing Pipework between Modules (in)				
Gas Balance Pipe Connection		3/4	3/4	3/4
Oil Balance Pipe Connection		1/4	1/4	1/4
Unit Net Weight (lb)		1118	1118	1118

NOTES

1. Cooling and Heating capacity data is rated at the following conditions:
   Cooling: 80°FDB / 67°FWB Indoor, 95°FDB Outdoor
   Heating: 70°FDB Indoor, 47°FDB / 43°FWB Outdoor
2. Complies with AHRI 1230-2014 testing standards
3. Operating Voltage Range 175V to 263V
4. To achieve cooling lower than 5°F a Low ambient hood must be installed. This is purchased as an accessory.
5. A local 115V power outlet is available as an accessory to provide local power for maintenance.

AHRI CERTIFIED www.ahridirectory.org Unitary Small HP AHRI Standard 210/240

ETL LISTED c US Intertek

NOTE – Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability.
Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury.
Installation and service must be performed by a qualified installer and servicing agency.

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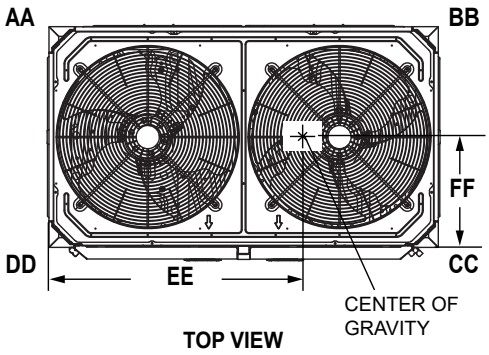
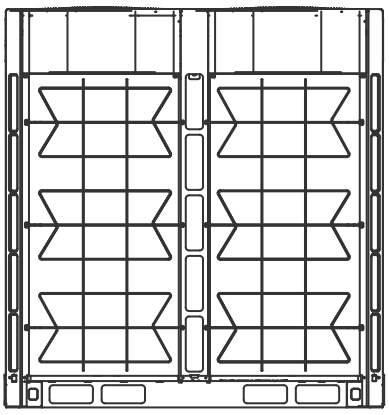
DIMENSIONAL DRAWINGS - INCHES (MM)

Each Module

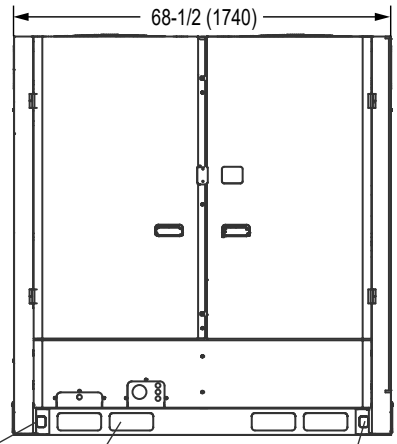
CORNER WEIGHTS								CENTER OF GRAVITY			
AA		BB		CC		DD		EE		FF	
lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
172	78	264	120	330	150	321	146	37-3/4	953	12	305



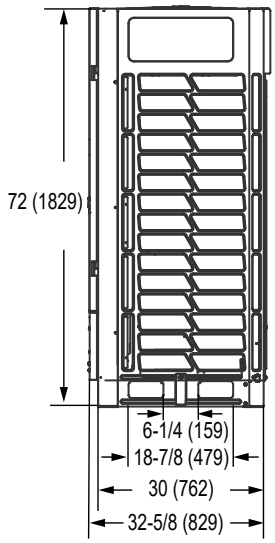
TOP VIEW



BACK VIEW



FRONT VIEW

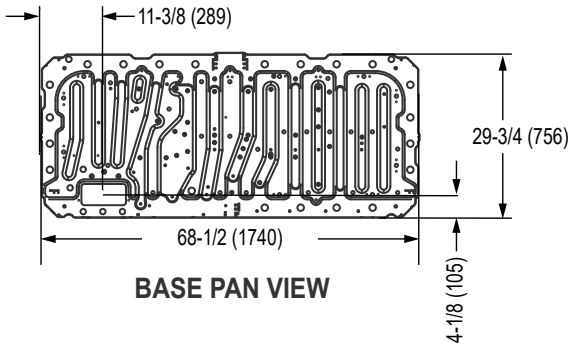


SIDE VIEW

LAG BOLT DESIGNATION (BOTH SIDES) (TO ACCESS LAG BOLT)

FORKLIFT SLOT (BOTH SIDES)

LIFTING HOLES (BOTH SIDES) (FOR RIGGING)



BASE PAN VIEW

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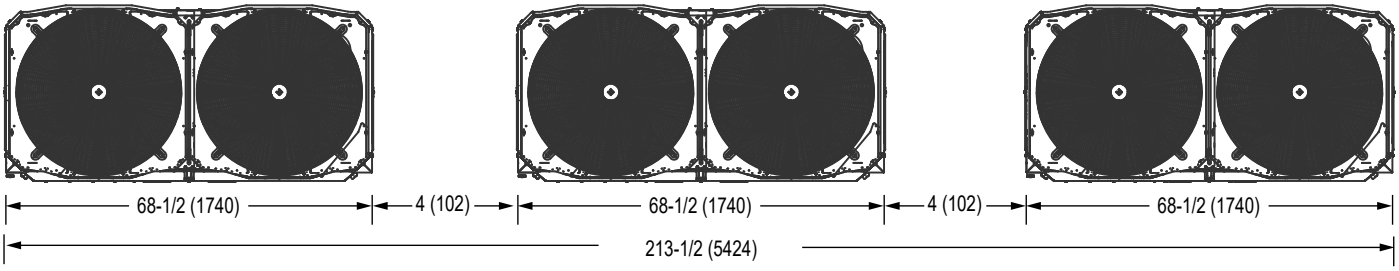
MULTI-MODULE INFORMATION

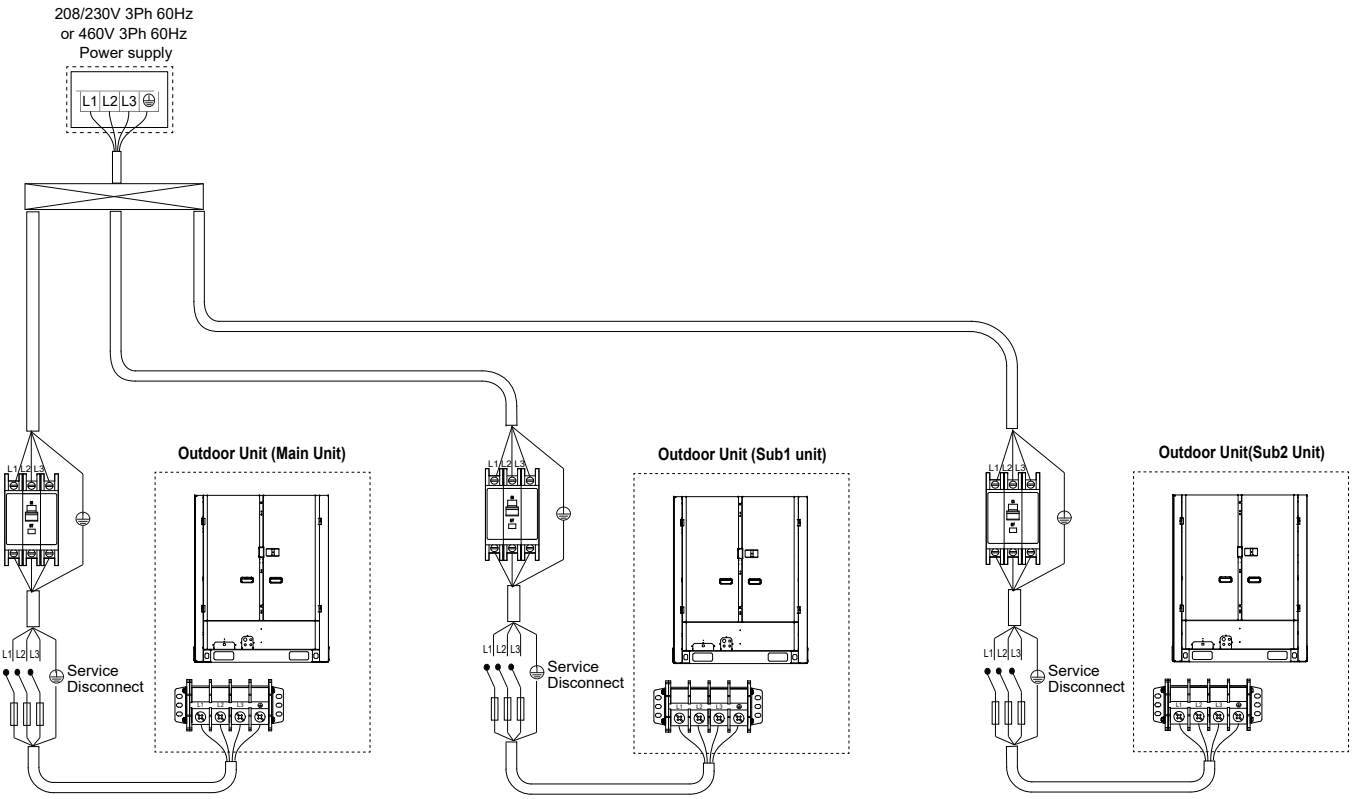
Multi-Module Dimensions



TOP VIEW

NOTE - *All the outdoor units manifolded together should be installed at the same elevation.*

Multi-Module Power



See page 1 for electrical data.
Total system MCA is calcuated by adding the MCA value of each module together to get the total system MCA.
Total system MOP is calcuated by adding the MOP value of each module together to get the total system MCA.