

V5 Heat Pump Outdoor Units

Commercial Multi-Zone Systems

Mammoth VRF heat pump condensers are available in 6, 8 and 10 tons. These base model condensers can also be combined to make systems with capacities ranging from 12 all the way up to 30 tons. Combinations above ten tons are only available in heat pump systems. Indoor unit combinations range from 13 indoor units all the way up to 36 indoor units. The minimum and maximum number of indoor units is determined by the system's connectable capacity. The connectable capacity range for heat pump systems is 50% to 135% of the capacity rating of the outdoor unit. The collective capacity rating of indoor units must fall within the connectable capacity range. Over or under and the system won't work at all.



Single Top-Discharge
VRF Condenser
Cutaway View



V5 Heat Pump Outdoor Units

V5 Heat Pump - 6, 8 and 10 Ton - 208/230V, 60 Hz, 3 Phase

Model			V5BV-72WMBC	V5BV-96WMBC	V5BV-120WMBC
Capacity Range		Tons	6	8	10
Capacity	Cooling	MBtu/h	69.0	92.0	114.0
	Heating	MBtu/h	77.0	103.0	129.0
EER			13.7	13.2	12.4
IEER*			28.1	26.6	25.2
COP			4.22	4.15	3.95
Airflow Volume		CFM	6080	8230	
Power Supply		Ph-V-Hz	3-208/230-60		
MCA		A	30	45	74
MOP		A	45	70	100
Maximum Drive IDU Number		unit	13	16	19
Refrigerant Charge Volume		kg	6.5	11.2	11.8
		oz	229.3	395.1	416.2
Sound Pressure Level		dB(A)	60	61	63
Connecting Pipe	Liquid	inch	3/8		1/2
	Gas	inch	3/4	7/8	1-1/8
	Oil Balance	inch	3/8		
Dimension (WxDxH)	Outline	inch	36-3/5 x 30-1/8 x 63-1/5	52-3/4 x 30-1/8 x 63-1/5	
	Package	inch	39-3/4 x 33 x 69-7/8	56 x 33 x 69-7/8	
Net Weight/Gross Weight		lbs	496/518	661/694	794/827

* Non-Ducted Indoor Units

V5 Heat Pump Outdoor Units

Dimension, Weight, Connection Line and Indoor Unit Matching Matrix

Mammoth VRF condensers are available in 6, 8 and 10 Tons. These base model condensers can also be combined to make systems with capacities ranging from 12 all the way up to 20 (30 Tons Heat Pump systems only). By combining the three base sizes, you can create a system to provide up to 240K BTU of heating.

Cooling Capacity Need		Heating Capacity Need	Combine Unit Sizes			Dimensions						Weight		Connecting Pipe Diameter				Oil Balance Pipe Diameter	Maximum IDUs	
			72	96	120	Millimeters			Inches					Liquid Line		Vapor Line				
MBTU/H	Tons	MBTU/H				W*	D	H	W	D	H	kg	lb	mm	in	mm	in	mm	in	
144	12	162	2			1340	765	1605	52 3/4	30 1/8	63 1/4	360	794	12.7	1/2	25.4	1	9.52	3/8	23
168	14	189	1	1		1340	765	1605	52 3/4	30 1/8	63 1/4	360	794	12.7	1/2	28.5	1 1/8	9.52	3/8	26
192	16	216			2	2060	765	1605	81 1/8	30 1/8	63 1/4	450	992	15.9	5/8	28.6	1 1/8	9.52	3/8	29
216	18	243			1	2060	765	1605	81 1/8	30 1/8	63 1/4	450	992	15.9	5/8	28.6	1 1/8	9.52	3/8	33
240	20	270			2	2470	765	1605	97 1/4	30 1/8	63 1/4	510	1124	15.9	5/8	28.6	1 1/8	9.52	3/8	36

Note: Some combinations pending approvals. Please check AHRI directory for approved combinations.

* Width of multiple units includes clearance of 200mm (7-7/8") between units.