

SUBMITTAL DATA

MUL24HP230V1R32AO
24000 BTU/H Multi-Zone Heat Pump System

Job Name	Location	Date
Purchaser	Engineer	
Submmited to	For	
Unit Designation	Schedule No.	



MUL24HP230V1R32AO

GENERAL FEATURES

- AHRI Certificate: 215218914 (Non-Ducted)
215218919 (Ducted)
215218924 (Mixed)
- High Efficiency DC Inverter Technology
- Compact and Quiet Design
- Auto Restart on Power Outages
- Multi-point Diagnostics
- Wi-Fi Included (Factory Installed)
- Low Ambient Cooling down to -22°F (Range -22°F to 118°F)
- Low Ambient Heating down to -22°F (Range -22°F to 75°F)
- Coil (Indoor and Outdoor) Copper Tube / Aluminum Fin
- Blue Colored Fin - 500 Hrs Salt Spray Tested

MULTI-ZONE COMPATIBILITY CHART

WALL MOUNT OPTIONS

	MULTI-ZONE				
	MUL18HP230VIR32AO	MUL24HP230VIR32AO	MUL30HP230VIR32AO	MUL36HP230VIR32AO	MUL42HP230VIR32AO
LIVO					
System Model no.					
LIV05HP230VIR32AH	•	•	•	•	•
LIV07HP230VIR32AH	•	•	•	•	•
LIV09HP230VIR32AH	•	•	•	•	•
LIV12HP230VIR32AH	•	•	•	•	•
LIV18HP230VIR32AH		•	•	•	•
LIV24HP230VIR32AH			•	•	•
LIV30HP230VIR32AH					
LIV36HP230VIR32AH					
VIREO					
System Model no.					
VIR09HP230VIR32AH	•	•	•	•	•
VIR12HP230VIR32AH	•	•	•	•	•
VIR18HP230VIR32AH		•	•	•	•
VIR24HP230VIR32AH			•	•	•
ENVO					
System Model no.					
ENV09HP230VIR32AH	•	•	•	•	•
ENV12HP230VIR32AH	•	•	•	•	•
ENV18HP230VIR32AH		•	•	•	•
ENV24HP230VIR32AH			•	•	•
SAPPHIRE					
System Model no.					
SAP09HP230VIR32AH	•	•	•	•	•
SAP12HP230VIR32AH	•	•	•	•	•
SAP18HP230VIR32AH		•	•	•	•
SAP24HP230VIR32AH				•	•

ADDITIONAL INDOOR UNIT OPTIONS

	MULTI-ZONE				
	MUL18HP230VIR32AO	MUL24HP230VIR32AO	MUL30HP230VIR32AO	MUL36HP230VIR32AO	MUL42HP230VIR32AO
ONE WAY CASSETTE					
System Model no.					
OWC09HP230VIR32AH	•	•	•	•	•
OWC12HP230VIR32AH	•	•	•	•	•
OWC18HP230VIR32AH		•	•	•	•
OWC24HP230VIR32AH			•	•	•
CEILING CASSETTE					
System Model no.					
CAS09HP230VIR32AH	•	•	•	•	•
CAS12HP230VIR32AH	•	•	•	•	•
CAS18HP230VIR32AH		•	•	•	•
CAS24HP230VIR32AH			•	•	•
SLIM DUCT					
System Model no.					
DUC09HP230VIR32AH	•	•	•	•	•
DUC12HP230VIR32AH	•	•	•	•	•
DUC18HP230VIR32AH		•	•	•	•
DUC24HP230VIR32AH			•	•	•
FLOOR/CEILING					
System Model no.					
FLR09HP230VIR32AH	•	•	•	•	•
FLR12HP230VIR32AH	•	•	•	•	•
FLR18HP230VIR32AH		•	•	•	•
FLR24HP230VIR32AH			•	•	•
MINI-CONSOLE					
CON09HP230VIR32AH	•	•	•	•	•
CON12HP230VIR32AH	•	•	•	•	•
CON18HP230VIR32AH		•	•	•	•

NOTE: R32 Indoor units are only compatible with R32 Outdoor units. Keep in mind, line set is always sized by the indoor unit valve diameter.

SPECIFICATIONS, FEATURES & FUNCTION SUMMARY

SPECIFICATIONS		MUL24HP230V1R32AO	
System Type		HEAT PUMP	
Number of Zones		2 - 3	
SYSTEM PERFORMANCE		NON-DUCTED INDOOR UNITS	
Cooling	Min - Max	Btu/h	7,500 - 31,400
	Capacity @95°F	Btu/h	24,000
Heating	Min - Max	Btu/h	7,500 - 31,400
	Capacity @47°F	Btu/h	24,000
	Capacity @17°F	Btu/h	23,600
	Capacity Max @5°F	Btu/h	21,600
SEER2		21	
EER2		13.3	
HSPF2		10.0	
COP @5°F		2.0	
COP @47°F		3.9	
SYSTEM PERFORMANCE		DUCTED INDOOR UNITS	
Cooling	Min - Max	Btu/h	7,500 - 31,400
	Capacity @95°F	Btu/h	24,000
Heating	Min - Max	Btu/h	7,500 - 31,400
	Capacity @47°F	Btu/h	24,000
	Capacity @17°F	Btu/h	22,000
	Capacity Max @5°F	Btu/h	21,600
SEER2		18.0	
EER2		12.0	
HSPF2		8.0	
COP @5°F		1.86	
SYSTEM PERFORMANCE		MIXED DUCTED AND NON-DUCTED INDOOR UNITS	
Cooling	Min - Max	Btu/h	7,500 - 31,400
	Capacity @95°F	Btu/h	24,000
Heating	Min - Max	Btu/h	7,500 - 31,400
	Capacity @47°F	Btu/h	24,000
	Capacity @17°F	Btu/h	23,000
	Capacity Max @5°F	Btu/h	21,600
SEER2		19.0	
EER2		12.2	
HSPF2		9.0	
COP @5°F		1.8	
OUTDOOR UNIT		MUL24HP230V1R32AO	
Cooling Temperature Range		°F	-22 - 118
Heating Temperature Range		°F	-22 - 75
Refrigerant Type		R32	
Cmpressor Type		GREE G-10 / 2 - STAGE INVERTER	
Sound Pressure Level		dB(A)	58
External Dimensions (W x H x D)		in	37-61/64 × 25-63/64 × 15-53/64
Package Dimension (W x H x D)		in	40-5/8 × 29-1/64 × 17-61/64
Net Weight		lbs	112.5
Gross Weight		lbs	122.4

REFRIGERANT PIPING		
Refrigerant Charge - R410A	oz	59.98
Additional Charge	oz/ft	0.2
Port Size (Liquid - Gas)	port A (in)	1/4 - 3/8
	port B (in)	1/4 - 3/8
	port C (in)	1/4 - 3/8
	port D (in)	
	port E (in)	
Pre-Charge Length	ft	98
Pipe Length (Min - Max)	ft	10 - 197
Pipe Length to furthest Indoor Unit	ft	66
Max. Pipe Elevation	ft	49
ELECTRICAL		
Power Supply	208-230V / 1Ph / 60Hz	
Voltage Range (Min - Max)	VAC	187 - 253
Rated Current - Cooling	A	14
Rated Current - Heating	A	14.8
MOCB	A	25
Suggested Breaker Size	A	20
Main Power Wire Size	AWG	Per Local Code
Interconnecting Wire Size	AWG	14 / 4

FEATURES & FUNCTIONS SUMMARY	MUL24HP230V1R32AO
SYSTEM FEATURES	
Inverter Type	G10
Ultra Low Frequency Torque Control	Yes
Power Factor Correction	Yes
Compressor Type - Inverter	High Efficiency Rotary
Basepan With Electric Heater	Yes
Indoor & Outdoor Fin Coating (Blue Fin)	Yes
Intelligent Defrosting	Yes
Intelligent Preheating	Yes
Low Voltage Startup	Yes
Memory/Power Failure Recovery	Yes
Self Diagnosis	Yes

ALLOWABLE COMBINATIONS CAPACITIES

MODEL NUMBER	POSSIBLE COMBINATIONS*	COOLING CAPACITY (Btu/h)					HEATING CAPACITY (Btu/h)				
		ZONE1	ZONE2	ZONE3	ZONE4	ZONE5	ZONE1	ZONE2	ZONE3	ZONE4	ZONE5
MUL24HP230V1R32AO	5K+7K	5,000	7,000				6,000	8,000			
MUL24HP230V1R32AO	7K+7K	7,000	7,000				8,000	8,000			
MUL24HP230V1R32AO	5K+5K+5K	5,000	5,000	5,000			6,000	6,000	6,000		
MUL24HP230V1R32AO	7K+7K+7K	7,000	7,000	7,000			8,000	8,000	8,000		
MUL24HP230V1R32AO	5K+5K+7K	5,000	5,000	6,000			6,000	6,000	8,000		
MUL24HP230V1R32AO	5K+7K+7K	5,000	7,000	7,000			6,000	8,000	8,000		
MUL24HP230V1R32AO	9K+9K	9,000	9,000				9,000	9,000			
MUL24HP230V1R32AO	9K+12K	9,000	12,000				9,000	12,000			
MUL24HP230V1R32AO	9K+18K	8,000	16,000				8,000	16,000			
MUL24HP230V1R32AO	12K+12K	12,000	12,000				12,000	12,000			
MUL24HP230V1R32AO	12K+18K	9,600	14,400				9,600	14,400			
MUL24HP230V1R32AO	18K+18K	12,000	12,000				12,000	12,000			
MUL24HP230V1R32AO	9K+9K+9K	8,000	8,000	8,000			8,000	8,000	8,000		
MUL24HP230V1R32AO	9K+9K+12K	7,200	7,200	9,600			7,200	7,200	9,600		
MUL24HP230V1R32AO	9K+9K+18K	6,000	6,000	12,000			6,000	6,000	12,000		
MUL24HP230V1R32AO	9K+12K+12K	6,545	8,727	8,727			6,545	8,727	8,727		
MUL24HP230V1R32AO	12K+12K+12K	8,000	8,000	8,000			8,000	8,000	8,000		

Outdoor Unit & Possible Indoor Unit Combinations with AHRI Certified Performance

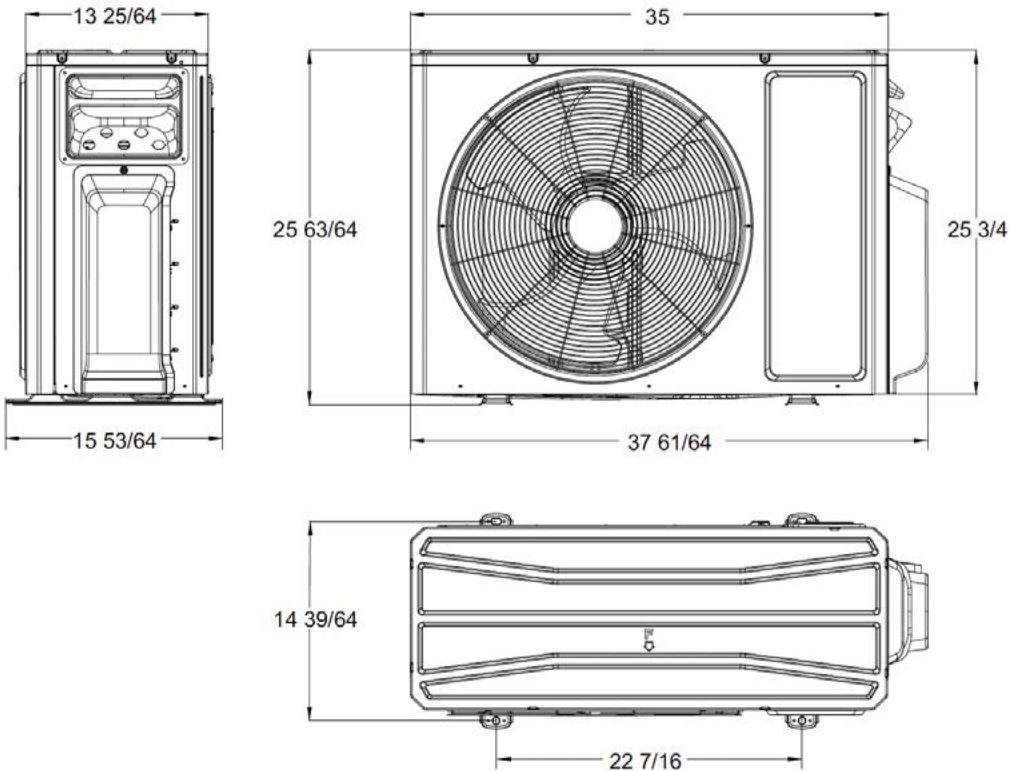
*You may substitute the 9K unit with a 5K or 7K High Wall unit, find complete capacity information in the extended ratings chart.

DIMENSIONS

OUTDOOR UNIT

Unit: inch

MUL24HP230V1R32AO
DIMENSIONS

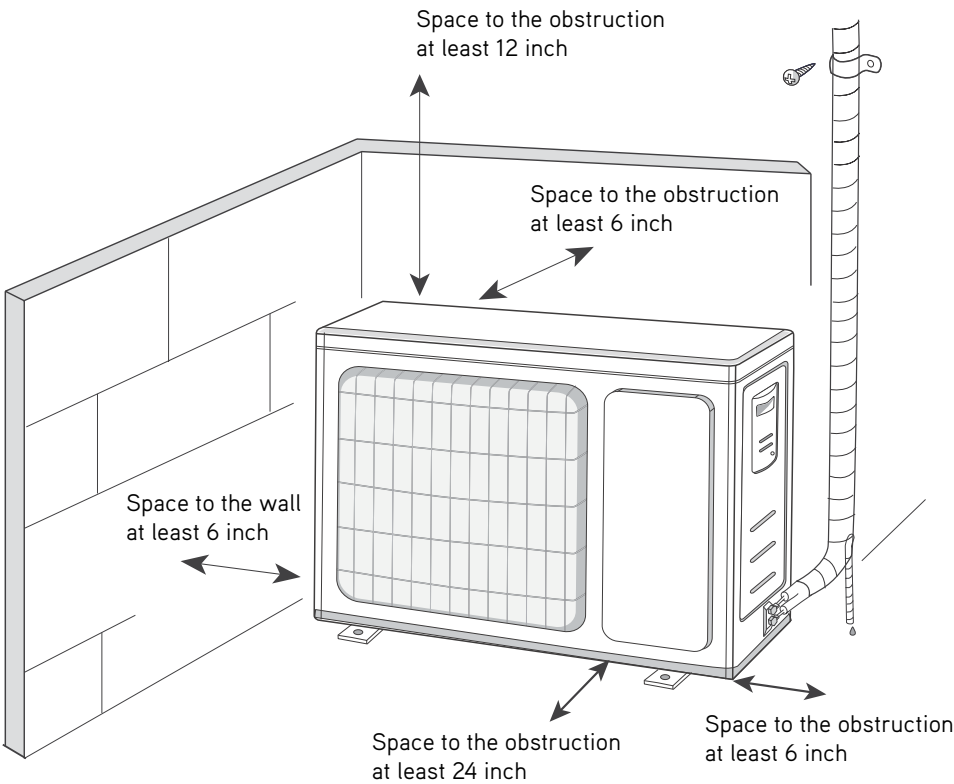


CLEARANCES

OUTDOOR UNIT

Minimum clearance

NOTE:
If bottom of the unit is free of airflow obstructions similar to the mounting bracket figure, the clearance to the wall on the back can be reduced to 3 inches.



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