



SUBMITTAL DATA

MUL42HP230V1R32AO
42000 BTU/H Multi-Zone Heat Pump System

Job Name

Location

Date

Purchaser

Engineer

Submitted to

For

Unit Designation

Schedule No.



MUL42HP230V1R32AO

GENERAL FEATURES

- AHRI Certificate: [215218917 \(Non-Ducted\)](#)
- [215218922 \(Ducted\)](#)
- [215218927 \(Mixed\)](#)
- 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					
	MUL18HP230V1R32AO	MUL24HP230V1R32AO	MUL30HP230V1R32AO	MUL36HP230V1R32AO	MUL42HP230V1R32AO	MUL48HP230V1R32AO
LIVO						
System Model no.						
LIV05HP230V1R32AH	•	•	•	•	•	•
LIV07HP230V1R32AH	•	•	•	•	•	•
LIV09HP230V1R32AH	•	•	•	•	•	•
LIV12HP230V1R32AH	•	•	•	•	•	•
LIV18HP230V1R32AH		•	•	•	•	•
LIV24HP230V1R32AH			•	•	•	•
LIV30HP230V1R32AH						
LIV36HP230V1R32AH						
VIREO						
System Model no.						
VIR09HP230V1R32AH	•	•	•	•	•	•
VIR12HP230V1R32AH	•	•	•	•	•	•
VIR18HP230V1R32AH		•	•	•	•	•
VIR24HP230V1R32AH			•	•	•	•
ENVO						
System Model no.						
ENV09HP230V1R32AH	•	•	•	•	•	•
ENV12HP230V1R32AH	•	•	•	•	•	•
ENV18HP230V1R32AH		•	•	•	•	•
ENV24HP230V1R32AH			•	•	•	•
SAPPHIRE						
System Model no.						
SAP09HP230V1R32AH	•	•	•	•	•	•
SAP12HP230V1R32AH	•	•	•	•	•	•
SAP18HP230V1R32AH		•	•	•	•	•
SAP24HP230V1R32AH			•	•	•	•

ADDITIONAL INDOOR UNIT OPTIONS

	MULTI-ZONE					
	MUL18HP230V1R32AO	MUL24HP230V1R32AO	MUL30HP230V1R32AO	MUL36HP230V1R32AO	MUL42HP230V1R32AO	MUL48HP230V1R32AO
ONE WAY CASSETTE						
System Model no.						
OWC09HP230V1R32AH	•	•	•	•	•	•
OWC12HP230V1R32AH	•	•	•	•	•	•
OWC18HP230V1R32AH		•	•	•	•	•
OWC20HP230V1R32AH			•	•	•	•
CEILING CASSETTE						
System Model no.						
CAS09HP230V1R32AH	•	•	•	•	•	•
CAS12HP230V1R32AH	•	•	•	•	•	•
CAS18HP230V1R32AH		•	•	•	•	•
CAS24HP230V1R32AH			•	•	•	•
SLIM DUCT						
System Model no.						
DUC09HP230V1R32AH	•	•	•	•	•	•
DUC12HP230V1R32AH	•	•	•	•	•	•
DUC18HP230V1R32AH		•	•	•	•	•
DUC24HP230V1R32AH			•	•	•	•
FLOOR/CEILING						
System Model no.						
FLR09HP230V1R32AH	•	•	•	•	•	•
FLR12HP230V1R32AH	•	•	•	•	•	•
FLR18HP230V1R32AH		•	•	•	•	•
FLR24HP230V1R32AH			•	•	•	•
MINI-CONSOLE						
System Model no.						
CON09HP230V1R32AH	•	•	•	•	•	•
CON12HP230V1R32AH	•	•	•	•	•	•
CON18HP230V1R32AH		•	•	•	•	•

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

SYSTEM TYPE			HEAT PUMP
Outdoor Model			MUL42HP230V1R32AO
Number of Zones			2 - 5
SYSTEM PERFORMANCE (Non-Ducted Indoor Units)			
Cooling Capacity	Min - Max	Btu/h	11,765 - 53,799
	Capacity @95°F	Btu/h	42,000
Heating Capacity	Min - Max	Btu/h	14,007 - 46,200
	Capacity @47°F	Btu/h	42,000
	Capacity @17°F	Btu/h	40,000
	Capacity Max @5°F	Btu/h	37,800
SEER2			21
EER2			13.0
HSPF2			10.0
COP @5°F			2.10
SYSTEM PERFORMANCE (Ducted Indoor Units)			
Cooling Capacity	Min - Max	Btu/h	11,765 - 53,799
	Capacity @95°F	Btu/h	42,000
Heating Capacity	Min - Max	Btu/h	14,007 - 46,200
	Capacity @47°F	Btu/h	42,000
	Capacity @17°F	Btu/h	40,000
	Capacity Max @5°F	Btu/h	36,000
SEER2			18.0
EER2			12.0
HSPF2			8.1
COP @5°F			1.90
SYSTEM PERFORMANCE (Mixed Ducted and Non-Ducted Indoor Units)			
Cooling Capacity	Min - Max	Btu/h	11,765 - 53,799
	Capacity @95°F	Btu/h	42,000
Heating Capacity	Min - Max	Btu/h	14,007 - 46,200
	Capacity @47°F	Btu/h	42,000
	Capacity @17°F	Btu/h	40,000
	Capacity Max @5°F	Btu/h	37,000
SEER2			19.0
EER2			12.2
HSPF2			9.0
COP @5°F			1.84
OUTDOOR UNIT			MUL42HP230V1R32AO
Cooling Temperature Range		°F	-22 - 118
Heating Temperature Range		°F	-22 - 75
Refrigerant Type			R32
Cmpressor Type			GREE G-20 / Double Cylinder / 1 - STAGE INVERTER
Sound Pressure Level		dB(A)	63
External Dimensions (W x H x D)		in	40-10/64 x 32-33/64 x 16-52/64
Package Dimension (W x H x D)		in	43-1/32 x 34-27/32 x 19-9/16
Net Weight		lbs	178.6
Gross Weight		lbs	191.8
REFRIGERANT PIPING			
Refrigerant Charge - R32		oz	95.24
Cmpressor Type			GREE G-20 / Double Cylinder / 1 - STAGE INVERTER
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)	1/4 - 3/8	
	Port E (in)	1/4 - 3/8	
Pre-Charge Length		ft	164
Pipe Length (Min - Max)		ft	10 - 328
Pipe Length to furthest Indoor Unit		ft	82
Max. Pipe Elevation		ft	82

ELECTRICAL		
Power Supply		208-230V / 1Ph / 60Hz
Voltage Range (Min - Max)	VAC	187 - 253
Rated Current - Cooling	A	21.7
Rated Current - Heating	A	22.6
MCA	A	29
MOCP	A	35
Suggested Breaker Size	A	30
Main Power Wire Size	AWG	Per Local Code
Interconnecting Wire Size	AWG	14 / 4
FEATURES & FUNCTIONS SUMMARY		
Inverter Type	G20	
Ultra Low Frequency Torque Control	Yes	
Compressor Type - Inverter	Yes	
Basepan With Electric Heater	High Efficiency Rotary	
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
MUL42HP230V1R32AO	7K+7K+7K	7,000	7,000	7,000			8,000	8,000	8,000		
MUL42HP230V1R32AO	7K+7K+7K+7K	7,000	7,000	7,000	7,000		8,000	8,000	8,000	8,000	
MUL42HP230V1R32AO	5K+5K+5K+7K	5,000	5,000	5,000	7,000		6,000	6,000	6,000	8,000	
MUL42HP230V1R32AO	5K+5K+7K+7K	5,000	5,000	7,000	7,000		6,000	6,000	8,000	8,000	
MUL42HP230V1R32AO	5K+7K+7K+7K	5,000	7,000	7,000	7,000		6,000	8,000	8,000	8,000	
MUL42HP230V1R32AO	5K+5K+5K+5K+5K	5,000	5,000	5,000	5,000	5,000	6,000	6,000	6,000	6,000	6,000
MUL42HP230V1R32AO	7K+7K+7K+7K+7K	7,000	7,000	7,000	7,000	7,000	8,000	8,000	8,000	8,000	8,000
MUL42HP230V1R32AO	5K+5K+5K+5K+7K	5,000	5,000	5,000	5,000	7,000	6,000	6,000	6,000	6,000	8,000
MUL42HP230V1R32AO	5K+5K+5K+7K+7K	5,000	5,000	5,000	7,000	7,000	6,000	6,000	6,000	8,000	8,000
MUL42HP230V1R32AO	5K+5K+7K+7K+7K	5,000	5,000	7,000	7,000	7,000	6,000	6,000	8,000	8,000	8,000
MUL42HP230V1R32AO	5K+7K+7K+7K+7K	5,000	7,000	7,000	7,000	7,000	6,000	8,000	8,000	8,000	8,000
MUL42HP230V1R32AO	9K+12K	9,000	12,000				9,000	12,000			
MUL42HP230V1R32AO	9K+18K	9,000	18,000				9,000	18,000			
MUL42HP230V1R32AO	9K+24K	9,000	24,000				9,000	24,000			
MUL42HP230V1R32AO	12K+12K	12,000	12,000				12,000	12,000			
MUL42HP230V1R32AO	12K+18K	12,000	18,000				12,000	18,000			
MUL42HP230V1R32AO	12K+24K	12,000	24,000				12,000	24,000			
MUL42HP230V1R32AO	18K+18K	18,000	18,000				18,000	18,000			
MUL42HP230V1R32AO	18K+24K	18,000	24,000				18,000	24,000			
MUL42HP230V1R32AO	24K+24K	21,000	21,000				21,000	21,000			
MUL42HP230V1R32AO	9K+9K+9K	9,000	9,000	9,000			9,000	9,000	9,000		
MUL42HP230V1R32AO	9K+9K+12K	9,000	9,000	12,000			9,000	9,000	12,000		
MUL42HP230V1R32AO	9K+9K+18K	9,000	9,000	18,000			9,000	9,000	18,000		
MUL42HP230V1R32AO	9K+9K+24K	9,000	9,000	24,000			9,000	9,000	24,000		
MUL42HP230V1R32AO	9K+12K+12K	9,000	12,000	12,000			9,000	12,000	12,000		
MUL42HP230V1R32AO	9K+12K+18K	9,000	12,000	18,000			9,000	12,000	18,000		
MUL42HP230V1R32AO	9K+12K+24K	8,400	11,200	22,400			8,400	11,200	22,400		
MUL42HP230V1R32AO	9K+18K+18K	8,400	16,800	16,800			8,400	16,800	16,800		
MUL42HP230V1R32AO	9K+18K+24K	7,412	14,824	19,765			7,412	14,824	19,765		
MUL42HP230V1R32AO	9K+24K+24K	6,632	17,684	17,684			6,632	17,684	17,684		
MUL42HP230V1R32AO	12K+12K+12K	12,000	12,000	12,000			12,000	12,000	12,000		
MUL42HP230V1R32AO	12K+12K+18K	12,000	12,000	18,000			12,000	12,000	18,000		
MUL42HP230V1R32AO	12K+12K+24K	10,500	10,500	21,000			10,500	10,500	21,000		
MUL42HP230V1R32AO	12K+18K+18K	10,500	15,750	15,750			10,500	15,750	15,750		
MUL42HP230V1R32AO	12K+18K+24K	9,333	14,000	18,667			9,333	14,000	18,667		
MUL42HP230V1R32AO	12K+24K+24K	8,400	16,800	16,800			8,400	16,800	16,800		
MUL42HP230V1R32AO	18K+18K+18K	14,000	14,000	14,000			14,000	14,000	14,000		
MUL42HP230V1R32AO	18K+18K+24K	12,600	12,600	16,800			12,600	12,600	16,800		
MUL42HP230V1R32AO	9K+9K+9K+9K	9,000	9,000	9,000	9,000		9,000	9,000	9,000	9,000	
MUL42HP230V1R32AO	9K+9K+9K+12K	9,000	9,000	9,000	12,000		9,000	9,000	9,000	12,000	

MODEL NUMBER	POSSIBLE COMBINATIONS*	COOLING CAPACITY (Btu/h)					HEATING CAPACITY (Btu/h)				
		ZONE1	ZONE2	ZONE3	ZONE4	ZONE5	ZONE1	ZONE2	ZONE3	ZONE4	ZONE5
MUL42HP230V1R32AO	9K+9K+9K+18K	8,400	8,400	8,400	16,800		8,400	8,400	8,400	16,800	
MUL42HP230V1R32AO	9K+9K+9K+24K	7,412	7,412	7,412	19,765		7,412	7,412	7,412	19,765	
MUL42HP230V1R32AO	9K+9K+12K+12K	9,000	9,000	12,000	12,000		9,000	9,000	12,000	12,000	
MUL42HP230V1R32AO	9K+9K+12K+18K	7,875	7,875	10,500	15,750		7,875	7,875	10,500	15,750	
MUL42HP230V1R32AO	9K+9K+12K+24K	7,000	7,000	9,333	18,667		7,000	7,000	9,333	18,667	
MUL42HP230V1R32AO	9K+9K+18K+18K	7,000	7,000	14,000	14,000		7,000	7,000	14,000	14,000	
MUL42HP230V1R32AO	9K+9K+18K+24K	6,300	6,300	12,600	16,800		6,300	6,300	12,600	16,800	
MUL42HP230V1R32AO	9K+12K+12K+12K	8,400	11,200	11,200	11,200		8,400	11,200	11,200	11,200	
MUL42HP230V1R32AO	9K+12K+12K+18K	7,412	9,882	9,882	14,824		7,412	9,882	9,882	14,824	
MUL42HP230V1R32AO	9K+12K+12K+24K	6,632	8,842	8,842	17,684		6,632	8,842	8,842	17,684	
MUL42HP230V1R32AO	9K+12K+18K+18K	6,632	8,842	13,263	13,263		6,632	8,842	13,263	13,263	
MUL42HP230V1R32AO	9K+12K+18K+24K	6,000	8,000	12,000	16,000		6,000	8,000	12,000	16,000	
MUL42HP230V1R32AO	9K+18K+18K+18K	6,000	12,000	12,000	12,000		6,000	12,000	12,000	12,000	
MUL42HP230V1R32AO	12K+12K+12K+12K	10,500	10,500	10,500	10,500		10,500	10,500	10,500	10,500	
MUL42HP230V1R32AO	12K+12K+12K+18K	9,333	9,333	9,333	14,000		9,333	9,333	9,333	14,000	
MUL42HP230V1R32AO	12K+12K+12K+24K	8,400	8,400	8,400	16,800		8,400	8,400	8,400	16,800	
MUL42HP230V1R32AO	12K+12K+18K+18K	8,400	8,400	12,600	12,600		8,400	8,400	12,600	12,600	
MUL42HP230V1R32AO	9K+9K+9K+9K+9K	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400
MUL42HP230V1R32AO	9K+9K+9K+9K+12K	7,875	7,875	7,875	7,875	10,500	7,875	7,875	7,875	7,875	10,500
MUL42HP230V1R32AO	9K+9K+9K+9K+18K	7,000	7,000	7,000	7,000	14,000	7,000	7,000	7,000	7,000	14,000
MUL42HP230V1R32AO	9K+9K+9K+9K+24K	6,300	6,300	6,300	6,300	16,800	6,300	6,300	6,300	6,300	16,800
MUL42HP230V1R32AO	9K+9K+9K+12K+12K	7,412	7,412	7,412	9,882	9,882	7,412	7,412	7,412	9,882	9,882
MUL42HP230V1R32AO	9K+9K+9K+12K+18K	6,632	6,632	6,632	8,842	13,263	6,632	6,632	6,632	8,842	13,263
MUL42HP230V1R32AO	9K+9K+9K+12K+24K	6,000	6,000	6,000	8,000	16,000	6,000	6,000	6,000	8,000	16,000
MUL42HP230V1R32AO	9K+9K+9K+18K+18K	6,000	6,000	6,000	12,000	12,000	6,000	6,000	6,000	12,000	12,000
MUL42HP230V1R32AO	9K+9K+12K+12K+12K	7,000	7,000	9,333	9,333	9,333	7,000	7,000	9,333	9,333	9,333
MUL42HP230V1R32AO	9K+9K+12K+12K+18K	6,300	6,300	8,400	8,400	12,600	6,300	6,300	8,400	8,400	12,600
MUL42HP230V1R32AO	9K+12K+12K+12K+12K	6,632	8,842	8,842	8,842	8,842	6,632	8,842	8,842	8,842	8,842
MUL42HP230V1R32AO	9K+12K+12K+12K+18K	6,000	8,000	8,000	8,000	12,000	6,000	8,000	8,000	8,000	12,000
MUL42HP230V1R32AO	12K+12K+12K+12K+12K	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400

Outdoor Unit & Possible Indoor Unit Combinations with AHRI Certified Performance

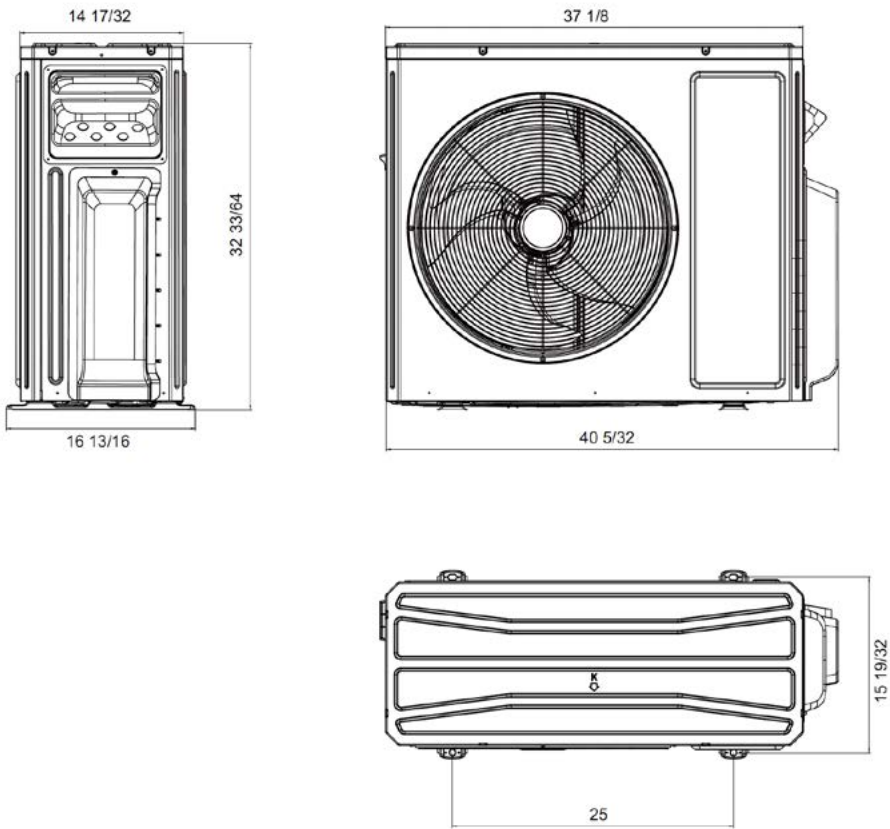
*You may substitute the 9K unit with a 5K or 7K High Wall unit, find complete capacity information in the extended ratings chart.

DIMENSIONS

OUTDOOR UNIT

Unit: inch

MUL42HP230V1R32AO
DIMENSIONS

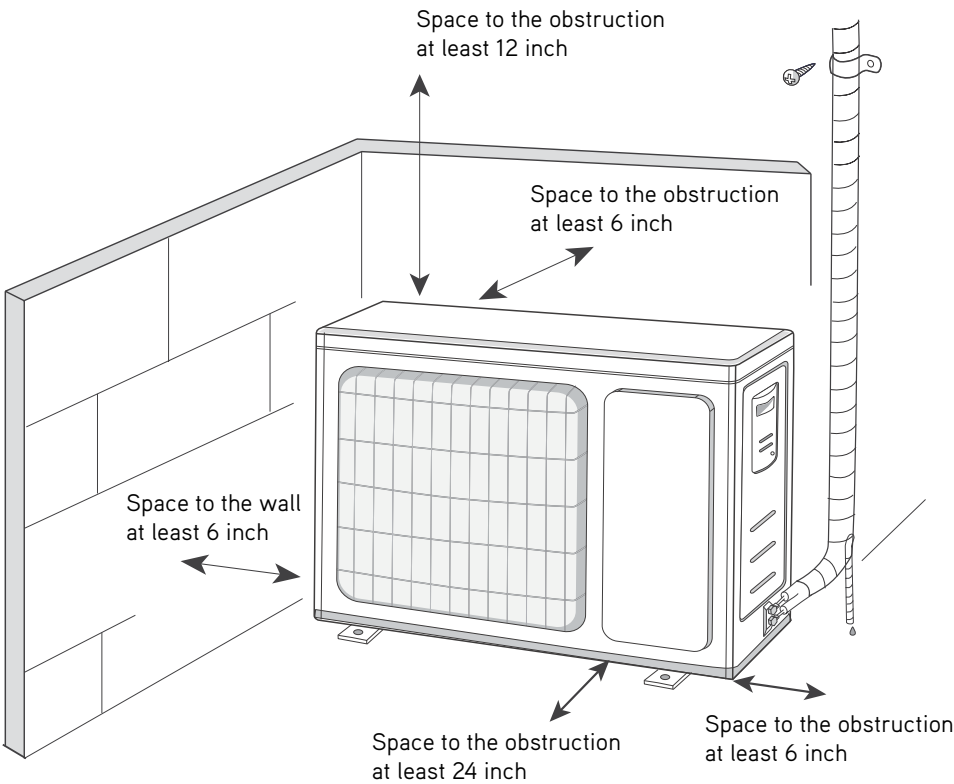


CLEARANCES

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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