SUBMITTAL DATA

MULTIU24HP230V1DO
24000 BTU/H Multi-Zone Heat Pump System

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

MULTIU24HP230V1DO

GENERAL FEATURES

- AHRI Certificate: 203989086 (Non-Ducted)
  204630893 (Ducted)
  204664396 (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 0˚F (Range 0˚F to 115˚F)
- Low Ambient Heating down to -31˚F (Range -31˚F to 75˚F)
- Coil (Outdoor) Copper Tube/Aluminum Fin with Anti-Corrosion Coil Coating (Gold Colored Fin - 1500Hr Salt Spray Rating)
- Coil (Indoor) Copper Tube/Aluminum Fin with Anti-Corrosion Coil Coating (Blue Colored Fin - 500Hr Salt Spray Rating)

MULTI-ZONE COMPATIBILITY CHART

WALL MOUNT OPTIONS

	MULTI GEN2					MULTI+ ULTRA			
	MULTI18HP230V1EO	MULTI24HP230V1EO	MULTI30HP230V1EO	MULTI36HP230V1EO	MULTI42HP230V1EO	MULTIU18HP230V1DO	MULTIU24HP230V1DO	MULTIU36HP230V1DO	MULTIU42HP230V1DO
LIVO GEN3									
System Model no.									
LIVV09HP230V1AH	•	•	•	•	•	•	•	•	•
LIVV12HP230V1AH	•	•	•	•	•	•	•	•	•
LIVV18HP230V1AH		•	•	•	•		•	•	•
LIVV24HP230V1AH			•	•	•			•	•
LIVV30HP230V1AH									
LIVV36HP230V1AH									
LIVO GEN4									
System Model no.									
4LIV05HP230V1AH	•	•	•	•	•				
4LIV07HP230V1AH	•	•	•	•	•				
4LIV09HP230V1AH	•	•	•	•	•	•	•	•	•
4LIV12HP230V1AH	•	•	•	•	•	•	•	•	•
4LIV18HP230V1AH		•	•	•	•		•	•	•
4LIV24HP230V1AH			•	•	•			•	•
4LIV30HP230V1AH									
4LIV36HP230V1AH									
VIREO GEN3									
System Model no.									
3VIR09HP230V1AH & BH[1]	•	•	•	•	•	•	•	•	•
3VIR12HP230V1AH & BH[1]	•	•	•	•	•	•	•	•	•
3VIR18HP230V1AH & BH[1]		•	•	•	•		•	•	•
3VIR24HP230V1AH & BH[1]			•	•	•			•	•
VIREO+ ULTRA									
System Model no.									
VIRU30HP230V1AH									
VIRU36HP230V1AH									
SAPPHIRE									
System Model no.									
SAP09HP230V1AH	•	•	•	•	•	•	•	•	•
SAP12HP230V1AH	•	•	•	•	•	•	•	•	•
SAP18HP230V1AH		•	•	•	•		•	•	•
SAP24HP230V1AH				•	•			•	•

ADDITIONAL INDOOR UNIT OPTIONS

	MULTI GEN2					MULTI+ ULTRA			
	MULTI18HP230V1EO	MULTI24HP230V1EO	MULTI30HP230V1EO	MULTI36HP230V1EO	MULTI42HP230V1EO	MULTIU18HP230V1D	MULTIU24HP230V1D	MULTIU36HP230V1D	MULTIU42HP230V1D
HIGH STATIC CONCEALED SLIM DUCT									
System Model no.									
DUCT09HP230V1BD	•	•	•	•	•	•	•	•	•
DUCT12HP230V1BD	•	•	•	•	•	•	•	•	•
DUCT18HP230V1BD		•	•	•	•		•	•	•
DUCT24HP230V1BD			•	•	•			•	•
CEILING CASSETTE									
System Model no.									
CAS12HP230V1BC	•	•	•	•	•	•	•	•	•
CAS18HP230V1BC		•	•	•	•		•	•	•
CAS24HP230V1BC			•	•	•			•	•
FLOOR / CEILING									
System Model no.									
FLR09HP230V1BF	•	•	•	•	•	•	•	•	•
FLR12HP230V1BF	•	•	•	•	•	•	•	•	•
FLR18HP230V1BF		•	•	•	•		•	•	•
FLR24HP230V1BF			•	•	•			•	•
MINI-CONSOLE									
System Model no.									
CONS09HP230V1AF	•	•	•	•	•	•	•	•	•
CONS12HP230V1AF	•	•	•	•	•	•	•	•	•
CONS18HP230V1AF		•	•	•	•		•	•	•

[1]AH = MATT FINISH; BH = SMOOTH FINISH

NOTE: All indoor units listed above are backward compatible with MULTI AO, BO, & CO models and MULTIU BO models. However, 4LIV05HP230V1AH & 4LIV07HP230V1AH are only backward compatible with MULTI CO models.

SPECIFICATIONS, FEATURES & FUNCTION SUMMARY

SPECIFICATIONS		MULTIU24HP230V1DO	
System Type		HEAT PUMP	
Number of Zones		2 - 3	
SYSTEM PERFORMANCE	**NON-DUCTED INDOOR UNITS**		
Cooling	Min - Max	Btu/h	7500 - 30000
	Capacity @95°F	Btu/h	22000
Heating	Min - Max	Btu/h	7500 - 31000
	Capacity @5°F (Max)	Btu/h	30000
	Capacity @17°F	Btu/h	17900
	Capacity @47°F	W	26000
SEER2			20
EER2			12
HSPF2			10
COP @5°F			1.8
COP @47°F			3.9
SYSTEM PERFORMANCE	**DUCTED INDOOR UNITS**		
Cooling	Min - Max	Btu/h	7500 - 31400
	Capacity @95°F	Btu/h	22000
Heating	Min - Max	Btu/h	7500 - 31400
	Capacity @5°F	Btu/h	
	Capacity @17°F	Btu/h	18900
	Capacity @47°F	W	26000
SEER2			14.5
EER2			8.5
HSPF2			7.8
COP @5°F			
COP @47°F			2.9
SYSTEM PERFORMANCE	**MIXED DUCTED AND NON-DUCTED INDOOR UNITS**		
Cooling	Min - Max	Btu/h	7000 - 31400
	Capacity @95°F	Btu/h	22000
Heating	Min - Max	Btu/h	7500 - 31400
	Capacity @5°F	Btu/h	
	Capacity @17°F	Btu/h	
	Capacity @47°F	W	26000
SEER2			18.0
EER2			10.5
HSPF2			8.6
COP @5°F			
COP @47°F			3.4

OUTDOOR UNIT	MULTIU24HP230V1DO	
Cooling Temperature Range	°F	0 - 115
Heating Temperature Range	°F	-31 - 86
Refrigerant Type		R410A
Compressor Type		GREE G-10 / 2 - STAGE INVERTER
Sound Pressure Level	dB(A)	60
External Dimensions (W x H x D)	in	38-5/8 x 31-1/8 x 16-13/16
Package Dimension (W x H x D)	in	42-1/2 x 33-1/8 x 19-1/8
Net Weight	lbs	174
Gross Weight	lbs	185

REFRIGERANT PIPING		
Refrigerant Charge - R410A	oz	95.2
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 - 230
Pipe Length to furthest Indoor Unit	ft	82
Max. Pipe Elevation	ft	49

ELECTRICAL		
Power Supply	208-230V / 1Ph / 60Hz	
Voltage Range (Min - Max)	VAC	187 - 253
Rated Current - Cooling	A	26
Rated Current - Heating	A	26
MCA	A	23
MOCP	A	40
Suggested Breaker Size	A	25
Main Power Wire Size	AWG	Per Local Code
Interconnecting Wire Size	AWG	14 / 4

FEATURES & FUNCTIONS SUMMARY	MULTIU24HP230V1DO
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
Outdoor Fin Coating (Gold Colored 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
MULTIU24HP230V1DO	9K + 9K	9.000	9.000				9.500	9.500			
MULTIU24HP230V1DO	9K + 12K	9.000	12.000				9.429	12.571			
MULTIU24HP230V1DO	9K + 18K	7.733	15.467				8.000	16.000			
MULTIU24HP230V1DO	12K + 12K	11.600	11.600				12.000	12.000			
MULTIU24HP230V1DO	12K + 18K	9.280	13.920				9.600	14.400			
MULTIU24HP230V1DO	18K + 18K	11.600	11.600				12.000	12.000			
MULTIU24HP230V1DO	9K + 9K + 9K	7.733	7.733	7.733			8.000	8.000	8.000		
MULTIU24HP230V1DO	9K + 9K + 12K	6.960	6.960	9.280			7.200	7.200	9.600		
MULTIU24HP230V1DO	9K + 9K + 18K	5.800	5.800	11.600			6.000	6.000	12.000		
MULTIU24HP230V1DO	9K + 12K + 12K	6.327	8.436	8.436			6.545	8.727	8.727		
MULTIU24HP230V1DO	12K + 12K + 12K	7.733	7.733	7.733			8.000	8.000	8.000		

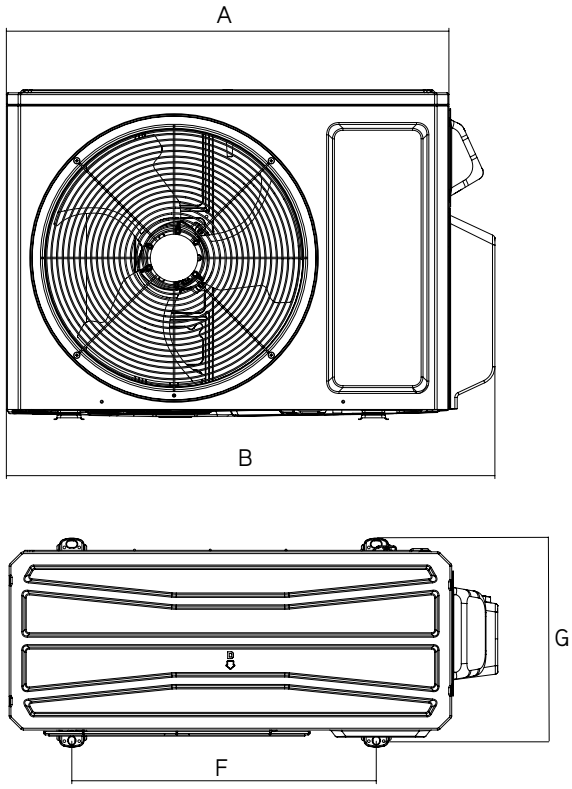
Outdoor Unit & Possible Indoor Unit Combinations with AHRI Certified Performance

DIMENSIONS

OUTDOOR UNIT

Unit: inch

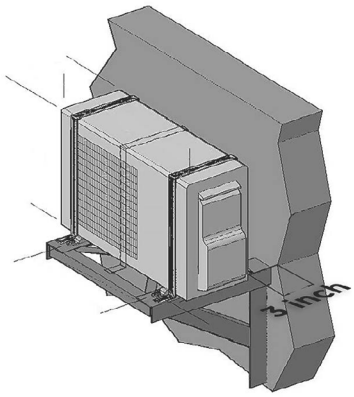
MULTIU24HP230V1DO	
DIMENSIONS	
A	36-1/2
B	38-5/8
C	31-1/8
D	14-5/8
E	16-13/16
F	24
G	15-5/8



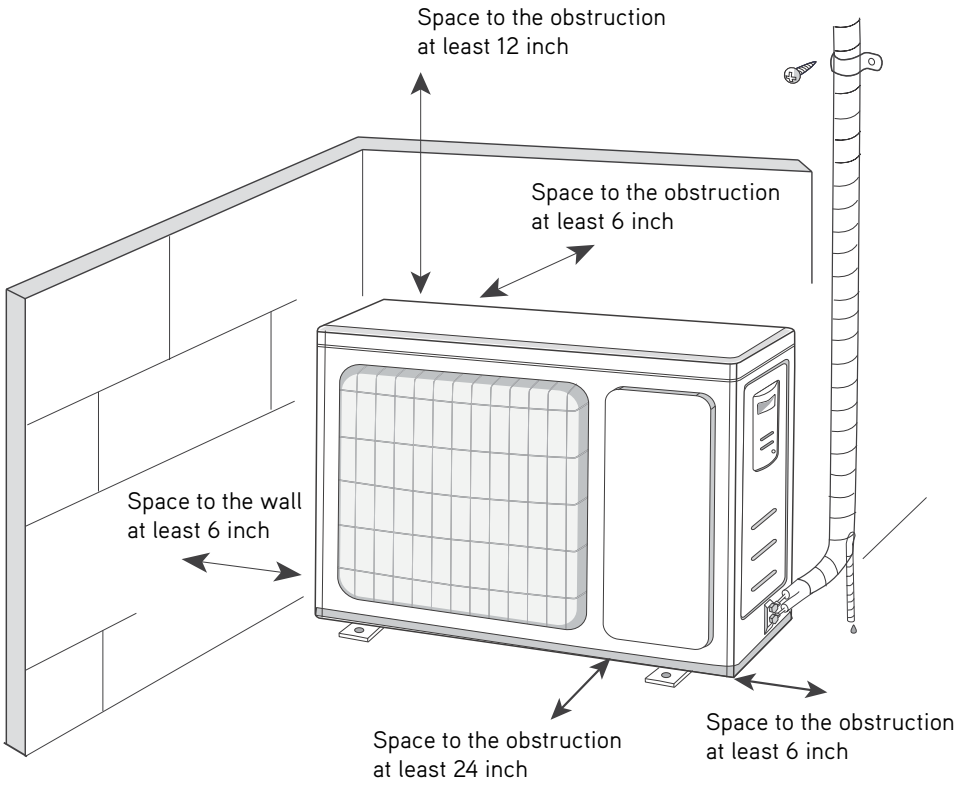
CLEARANCES

OUTDOOR UNIT

Minimum clearence



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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