

SUBMITTAL - 9,000BTU CEILING CASSETTE - M28

Job Name: _____

Location: _____

Engineer: _____

Submitted By: _____

Submitted To: _____

Submitted For: _____

Reference **Approval**

Date: _____

Unit Tag: _____

Drawing No.: _____

WARRANTY

Standard 10 Years Parts & Compressor

Terms & Conditions Apply.

TYPE

Air Source Heat Pump

Cold Climate Air Source Heat Pump

MODELS

Indoor	DUA09HICU230X5
Outdoor	DMA09HOS28230E8

CAPACITY RANGE¹

Output (Btu/h)	Min.	Rated	Max.
Cooling	2700	9000	11000
Heating	2900	9800	13000

HEATING PERFORMANCE²

Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	2900	9800	13000
17°F (-8.3°C)	2000	9000	11000
5°F (-15°C)	1600	10000	10300
-22°F (-30°C)	500	4400	4400

OUTDOOR TEMPERATURE OPERATING RANGE

Cooling	-30 ~ 50 °C	-22 ~ 122 °F
Heating ³	-30 ~ 24 °C	-22 ~ 75 °F

LINE SET & REFRIGERANT

Liquid (in.)	1/4"	Gas (in.)	3/8"
Connection Type	Flared		
Pre-Charge Length (ft)	25		
Max. Length (ft)	82		
Max. Height Difference (ft)	32.8		
Refrigerant Type	R410A		
Pre-Charge (oz)	41.62		
Additional Charge per Foot (oz)	0.16		
Oil Type	VG74	Oil Volume (ml)	350
Drain Pipe O.D. (mm)	25		



Images for reference only.

CERTIFIED

AHRI NO.	
207742508	

EFFICIENCY RATINGS

SEER2	20.5			
EER2	13			
HSPF2 (4)	10.3			
HSPF2 (5)	7.8			
COP ²	47°F (8.3°C)	17°F (-8.3°C)	5°F (-15°C)	-22°F (-30°C)
	3.09	1.91	1.8	1.01

ELECTRICAL

Power Supply	(V/Ph/Hz)	208-230/1/60		
Voltage Range	(V)	187-253		
MCA (A)	15	Max Fuse (ODU) (A)	15	
Power Input (W)	Min.	Rated	Max.	
	Cooling	163	692	1117
Heating	149	930	1371	
Current (A)	Min.	Rated	Max.	
	Cooling	1.25	3.17	4.93
Heating	1.17	4.58	6.04	

1. Cooling Capacity Conditions: Indoor Temperature @ 80°F (26.7°C) DB; 67°F (19.4°C) WB with Outdoor Temperature @ 95°F (35°C) DB; 75°F (23.9°C) WB. Heating Capacity Conditions: Indoor Temperature @ 70°F (21.1°C) DB; 60°F (15.6°C) WB with Outdoor Temperature @ 47°F (8.3°C) DB; 43°F (6.1°C) WB. Line Set @ 25ft (7.5m); Height Difference @ 0ft (0m). 2. COP for all temperatures is @ rated output except when rated output is not given. In that case, COP is @ max. output. 3. System continues to operate below rated outdoor temperature operating range, subject to varying conditions. System has no low temperature cutout. Capacity is not tested outside of the rated temperature range. | Master Group is not responsible for the accuracy and validity of any changes made to this document without the written authorization of Master Group. Specifications subject to change without notice.

DIMENSIONS & WEIGHTS

Indoor	Net (WxDxH; in.)	22.44x22.44x10.24	
	Gross (WxDxH; in.)	26.06x26.06x12.48	
	Net Weight lbs kg	31.97	14.5
	Gross Weight lbs kg	38.14	17.3
Outdoor	Net (WxDxH; in.)	31.69x12.99x21.81	
	Gross (WxDxH; in.)	36.02x14.57x24.21	
	Net Weight lbs kg	74.07	33.6
	Gross Weight lbs kg	80.25	36.4

KEY FEATURES

Rotary Inverter Compressor	<input checked="" type="checkbox"/>
Twin Rotary Inverter Compressor	<input type="checkbox"/>
Base Pan Heater	<input checked="" type="checkbox"/>
Crankcase Heater	<input checked="" type="checkbox"/>

INCLUDED ACCESSORIES

RG10B(D1)/BGEFU1 - Remote Controller	

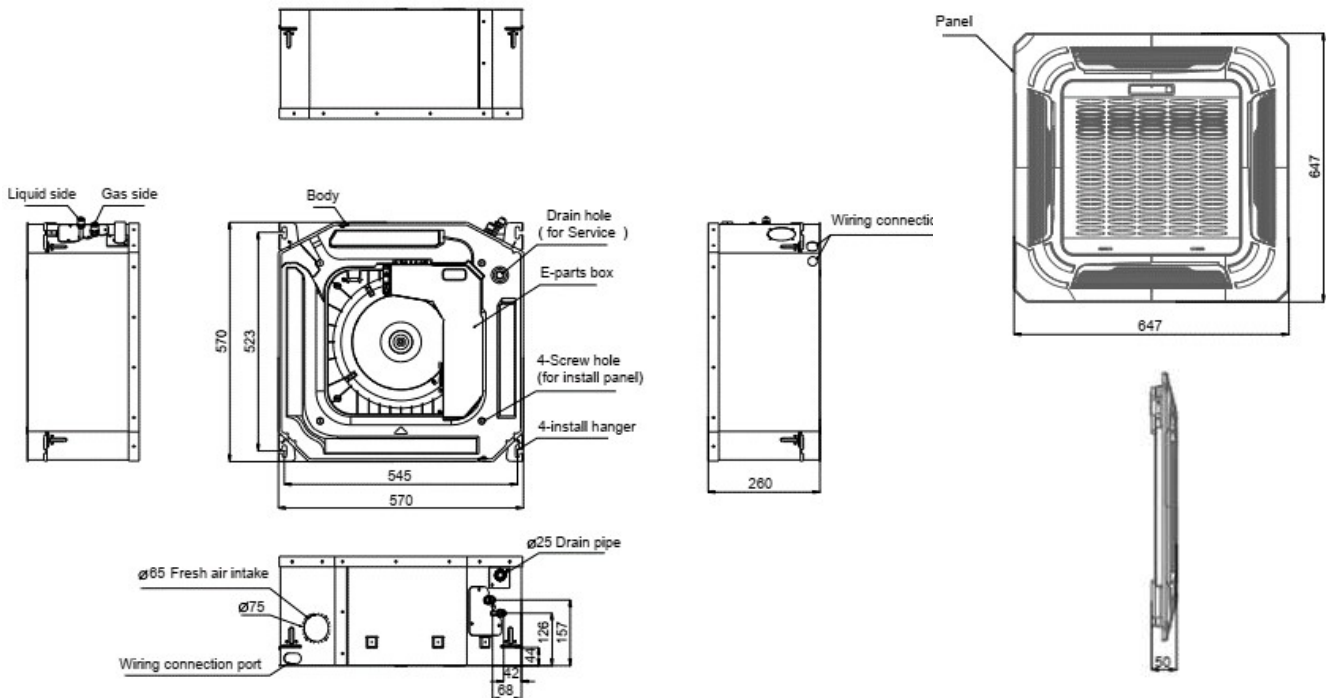
FAN

Indoor	Turbo	High	Med.	Low
CFM		352	305	270
dB(A)		39.5	36	32.5
Indoor ESP Range inWG				
Indoor Moisture Removal (l/h)				1.03
Outdoor Max. CFM				1324
Outdoor Max. dB(A)				55

OPTIONAL ACCESSORIES⁴

CASSETTEGRILL918A - Required	<input type="checkbox"/>
WF-60A1-F - Smart Port	<input type="checkbox"/>
KJR-120L(R1)/EFU1 - Wired Controller	<input type="checkbox"/>
KJR-120N(X6)/BGEF - Wired Controller	<input type="checkbox"/>
KJR-120N(X6W)/BGEF - Wired Controller	<input type="checkbox"/>
24VINTERFACEKITUNIVERSAL	<input type="checkbox"/>
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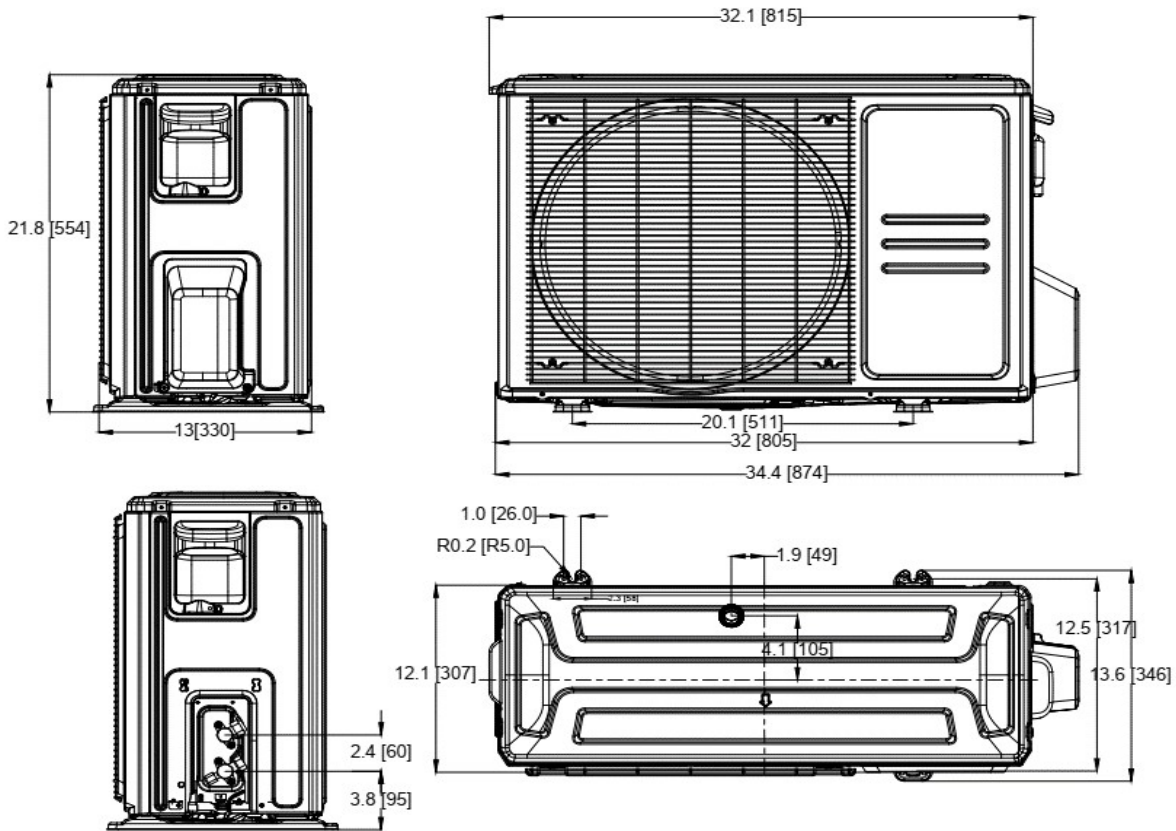
INDOOR UNIT DRAWING



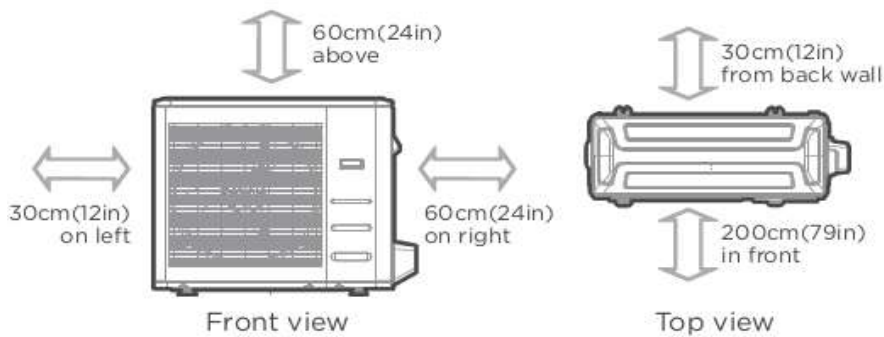
Tag									
inches									
mm									

Drawing dimensions are nominal. Specifications subject to change without notice. 4. Connection of these accessories may require secondary items not listed; refer to full product literature.

OUTDOOR UNIT DRAWING



OUTDOOR UNIT CLEARANCES



Note: Outdoor units must be elevated 12-24in. (30.5-61cm) above the surface below in heating applications to allow for snow clearance and defrost runoff. Follow local best-practices and guidelines.

Diagrams for reference only.

NOTES