

SUBMITTAL - 18,000BTU CEILING CASSETTE - M28

Job Name: _____
Location: _____
Engineer: _____
Submitted By: _____
Submitted To: _____

Submitted For: _____ **Approval**
Reference **Construction**
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 DUA18HICU230X5

Outdoor DMA18HOS28230E8

CAPACITY RANGE¹

Output (Btu/h)	Min.	Rated	Max.
Cooling	4200	16000	17000
Heating	5100	17000	21000

HEATING PERFORMANCE²

Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	5100	17000	21000
17°F (-8.3°C)	3800	15600	20000
5°F (-15°C)	3200	16000	16000
-22°F (-30°C)	1000	8800	8800

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.)	1/2"
Connection Type	Flared		
Pre-Charge Length (ft)	25		
Max. Length (ft)	98.4		
Max. Height Difference (ft)	65.6		
Refrigerant Type	R410A		
Pre-Charge (oz)	65.26		
Additional Charge per Foot (oz)	0.16		
Oil Type	VG74	Oil Volume (ml)	620
Drain Pipe O.D. (mm)	25		



Images for reference only.

CERTIFIED

AHRI NO.	 
207742510	

EFFICIENCY RATINGS

SEER2	20			
EER2	12.5			
HSPF2 (4)	9.5			
HSPF2 (5)	7.8			
COP ²	47°F (8.3°C)	17°F (-8.3°C)	5°F (-15°C)	-22°F (-30°C)
	2.95	2.24	1.75	1.27

ELECTRICAL

Power Supply	(V/Ph/Hz)	208-230/1/60		
Voltage Range	(V)	187-253		
MCA (A)	20	Max Fuse (ODU) (A)	25	
Power Input (W)	Min.	Rated	Max.	
	Cooling	250	1280	1800
Heating	590	1690	2400	
Current (A)	Min.	Rated	Max.	
	Cooling	1.7	8	8.6
Heating	3.7	10.8	12.2	

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	35.71	16.2
	Gross Weight lbs kg	46.96	21.3
Outdoor	Net (WxDxH; in.)	35.04x13.46x26.50	
	Gross (WxDxH; in.)	39.17x15.67x29.13	
	Net Weight lbs kg	100.97	45.8
	Gross Weight lbs kg	108.03	49

KEY FEATURES

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

INCLUDED ACCESSORIES

RG10B(D1)/BGEFU1 - Remote Controller	

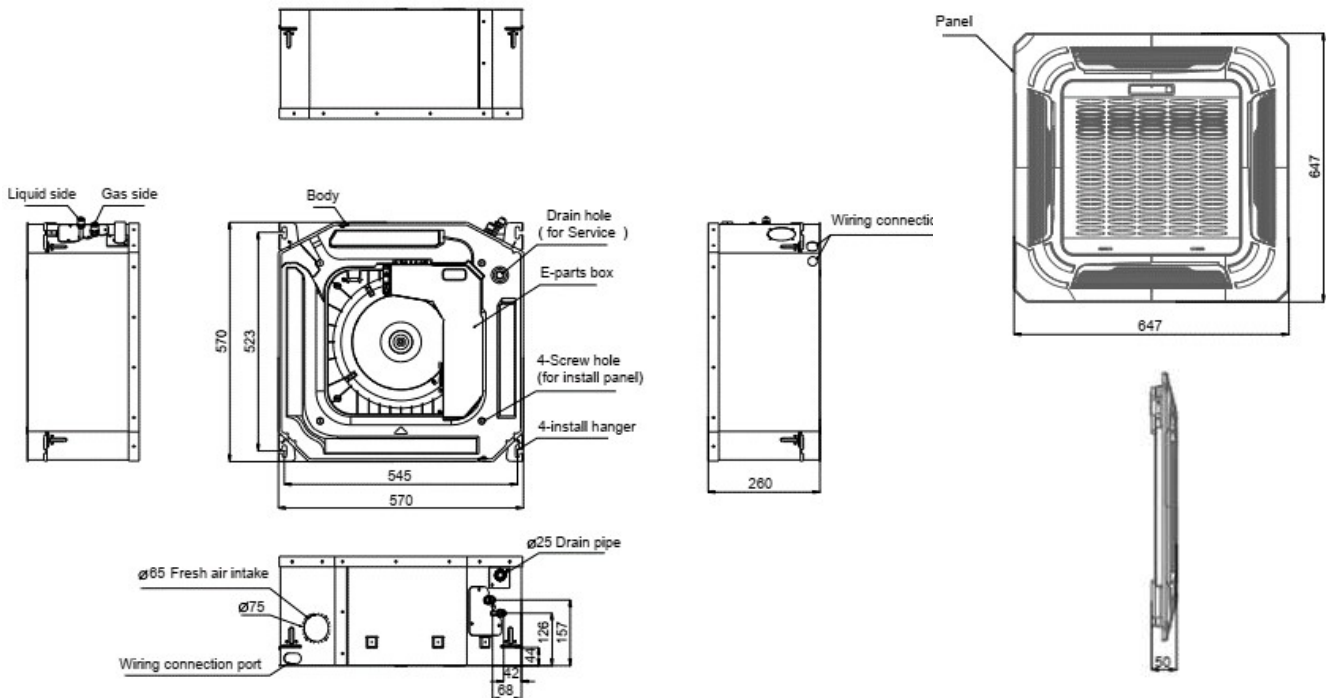
FAN

Indoor	Turbo	High	Med.	Low
CFM		562	485	438
dB(A)		43.5	38.5	35.5
Indoor ESP Range inWG				
Indoor Moisture Removal (l/h)				2.22
Outdoor Max. CFM				1765
Outdoor Max. dB(A)				59

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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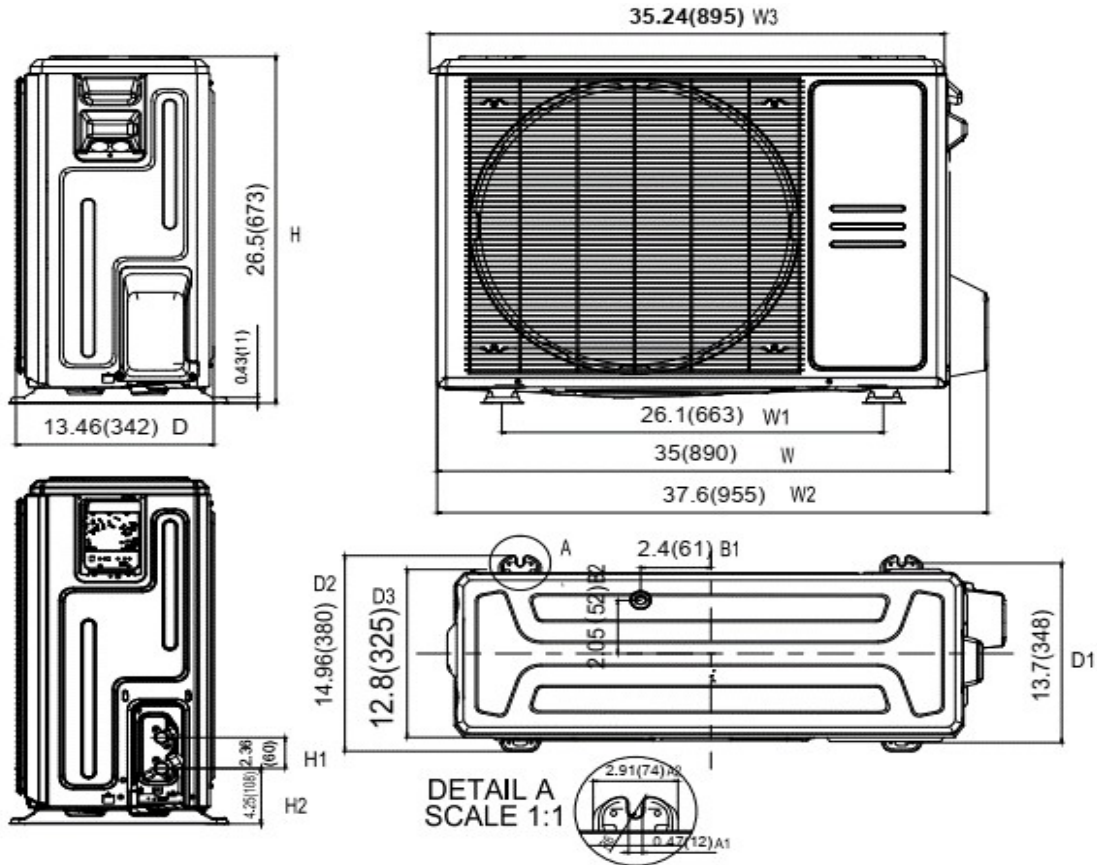
INDOOR UNIT DRAWING



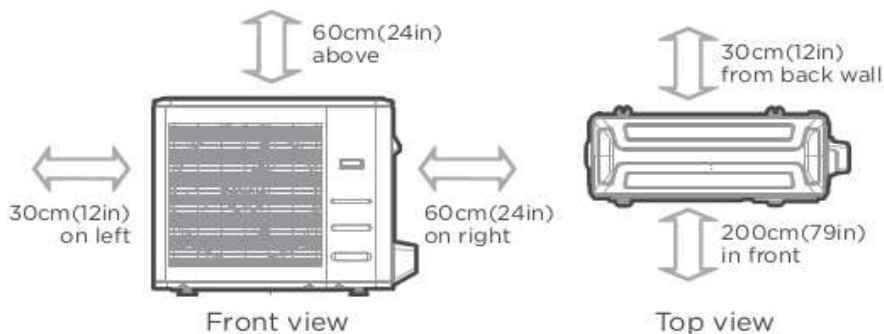
Tag									
inches									
mm									

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