

SUBMITTAL - 18,000BTU CASED COIL - B CABINET

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 CUB24HAC20BWT7A
 Outdoor DMA18HOS20230E7

CAPACITY RANGE¹

Output (Btu/h)	Min.	Rated	Max.
Cooling	5500	18000	22000
Heating	5900	19000	23600

HEATING PERFORMANCE²

Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	5900	19000	23600
17°F (-8.3°C)	4300	14700	17400
5°F (-15°C)	3800	15000	15000
-22°F (-30°C)	3000		12500

OUTDOOR TEMPERATURE OPERATING RANGE

Cooling	-15 ~ 50 °C	5 ~ 122 °F
Heating ³	-30 ~ 24 °C	-22 ~ 75 °F

LINE SET & REFRIGERANT

Liquid (in.)	3/8"	Gas (in.)	3/4"
Connection Type	Flared		
Pre-Charge Length (ft)	25		
Max. Length (ft)	98.42		
Max. Height Difference (ft)	65.62		
Refrigerant Type	R410A		
Pre-Charge (oz)	81.1302		
Additional Charge per Foot (oz)	0.69		
Oil Type	VG74	Oil Volume (ml)	670
Drain Connection (inches)	3/4"		



Images for reference only.

CERTIFIED

AHRI NO.	 
212361758	

EFFICIENCY RATINGS

SEER2	16.1			
EER2	11.7			
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)
	3.35	2.6	2.2	1.8

ELECTRICAL

Power Supply	(V/Ph/Hz)	208-230/1/60		
Voltage Range	(V)	187-253		
MCA (A)	16	Max Fuse (ODU) (A)	20	
Power Input (W)	Min.	Rated	Max.	
	Cooling	450	1538	2100
Heating	470	1610	2200	
Current (A)	Min.	Rated	Max.	
	Cooling	2.2	7	8.22
Heating	2.4	8.5	9.6	

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. | Cased coil unit has a continuous operating temperature limit of 248°F (120°C); this product is not recommended for applications where there is a risk of exceeding this limit (such as with an oil furnace). It is the installer's responsibility to ensure the installation respects this temperature limit. 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.)	17.52x20.98x17.99	
	Gross (WxDxH; in.)	20.47x26.18x20.28	
	Net Weight lbs kg	42.77	19.4
	Gross Weight lbs kg	52.03	23.6
Outdoor	Net (WxDxH; in.)	35.04x13.46x26.50	
	Gross (WxDxH; in.)	39.17x15.67x29.13	
	Net Weight lbs kg	102.95	46.7
	Gross Weight lbs kg	109.79	49.8

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

Adaptor for welding(3/8")
Flare 5/8' to welding 3/4'

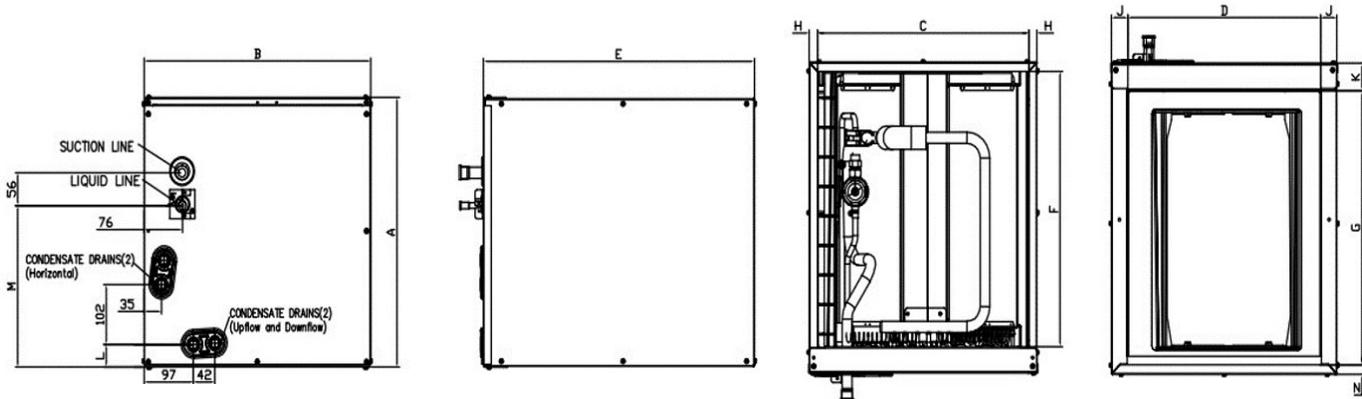
INDOOR UNIT DRAWING

FAN

Indoor	Turbo	High	Med.	Low
CFM				
dB(A)				
Indoor ESP Range inWG				
Indoor Moisture Removal (l/h)				
Pressure Drop Across Coil inWG				0.13
Pressure Drop Airflow SCFM				550
Outdoor Max. CFM				1279
Outdoor Max. dB(A)				57

OPTIONAL ACCESSORIES⁴

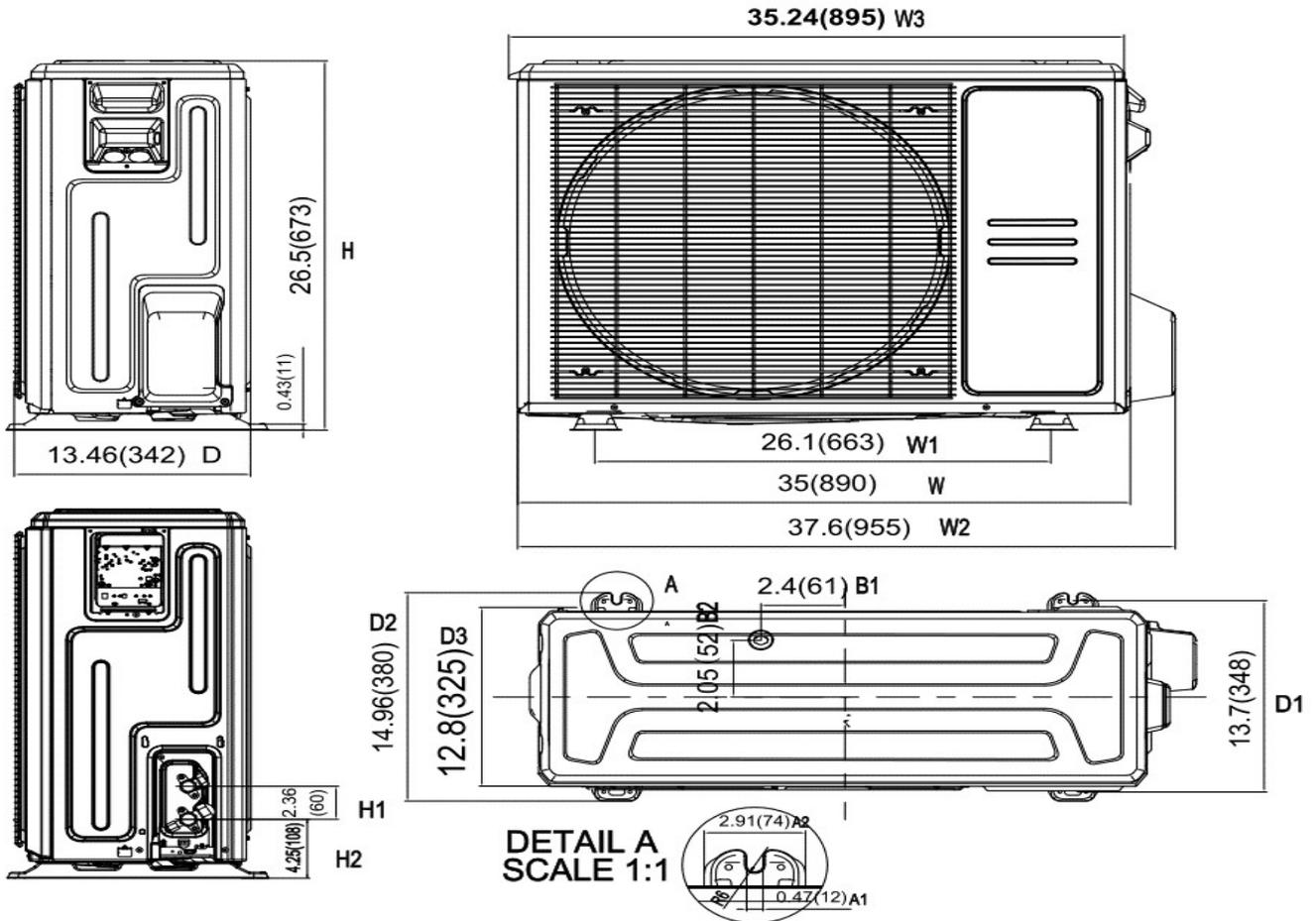
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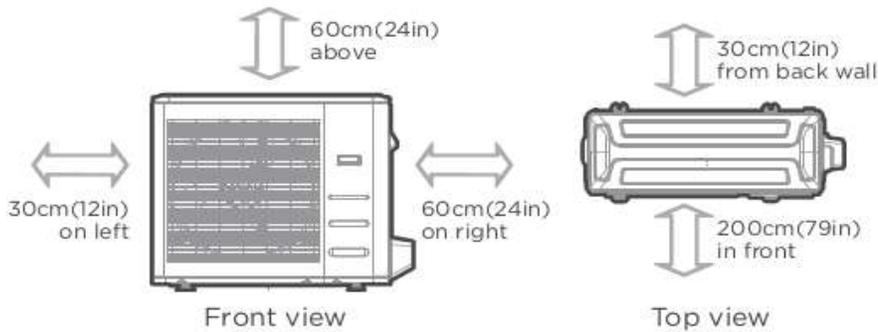
Tag	A	B	C	D	E	F	G	H	I
inches	18	17-1/2	16-3/16	15-1/8	21	18-5/8	18	5/8	1-3/4
mm	461	445	411	384	533	473	458	16	45
Tag	J	K	L	M	N				
inches	1-3/16	1-13/16	1-7/16	10-7/8	1-3/16				
mm	30	46	37	276	30				

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