

## SUBMITTAL - 48,000BTU OUTDOOR UNIT - M20

**Job Name:** \_\_\_\_\_

**Location:** \_\_\_\_\_

**Engineer:** \_\_\_\_\_

**Submitted By:** \_\_\_\_\_

**Submitted To:** \_\_\_\_\_

**Submitted For:** \_\_\_\_\_ **Approval**

**Reference**  **Construction**

**Date:** \_\_\_\_\_

**Unit Tag:** \_\_\_\_\_

**Drawing No.:** \_\_\_\_\_

**WARRANTY**

Standard 10 Years Parts &amp; Compressor

Terms &amp; Conditions Apply.

**TYPE**

 Air Source Heat Pump 

 Cold Climate Air Source Heat Pump 
**MODELS**

 Indoor<sup>1</sup> Undetermined

Outdoor DMA48HOS20230E7

**CAPACITY RANGE<sup>1, 2</sup>**

Output (Btu/h)	Min.	Rated	Max.
Cooling	16500	46000	47000
Heating	25000	51000	57000

**HEATING PERFORMANCE<sup>1, 3</sup>**

Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	25000	51000	57000
17°F (-8.3°C)	9900	32000	45000
5°F (-15°C)	13500	40000	40000
-22°F (-30°C)	6950		30000

**OUTDOOR TEMPERATURE OPERATING RANGE**

Cooling	-15 ~ 50 °C	5 ~ 122 °F
Heating <sup>4</sup>	-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)	213.25		
Max. Height Difference (ft)	98.42		
Refrigerant Type	R410A		
Pre-Charge (oz)	169.31		
Additional Charge per Foot (oz)	0.69		
Oil Type	VG74	Oil Volume (ml)	1460



Images for reference only.

**CERTIFIED**

AHRI NO.

Not Applicable


**EFFICIENCY RATINGS<sup>1</sup>**

SEER2	14.3			
EER2	8.6			
HSPF2 (4)	9			
HSPF2 (5)	7.5			
COP <sup>3</sup>	47°F (8.3°C)	17°F (-8.3°C)	5°F (-15°C)	-22°F (-30°C)
	3.04	2.36	1.8	1.52

**ELECTRICAL<sup>1</sup>**

Power Supply	(V/Ph/Hz)	208-230/1/60		
Voltage Range	(V)	187-253		
MCA (A)	40	Max Fuse (ODU) (A)	50	
Power Input (W)	Min.	Rated	Max.	
	Cooling	560	5400	5720
Heating	800	5020	6200	
Current (A)	Min.	Rated	Max.	
	Cooling	2.4	22.5	25.3
Heating	4	21.5	25.5	

1. All data related to capacity, performance, efficiency, and electrical power input and current draw is based on the listed outdoor unit in combination with a Moovair product. This data is not to be taken as a representation or guarantee of capacity, performance, efficiency, or electrical power input and current draw when the listed outdoor unit is combined with a 3rd party product. 2. 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). 3. COP for all temperatures is @ rated output except when rated output is not given. In that case, COP is @ max. output. 4. 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**

Outdoor	Net (WxDxH; in.)	37.48x16.34x52.48	
	Gross (WxDxH; in.)	43.11x19.49x58.27	
	Net Weight lbs   kg	220.24	99.9
	Gross Weight lbs   kg	248.9	112.9

**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"/>

**OUTDOOR UNIT DRAWING**

**FAN**

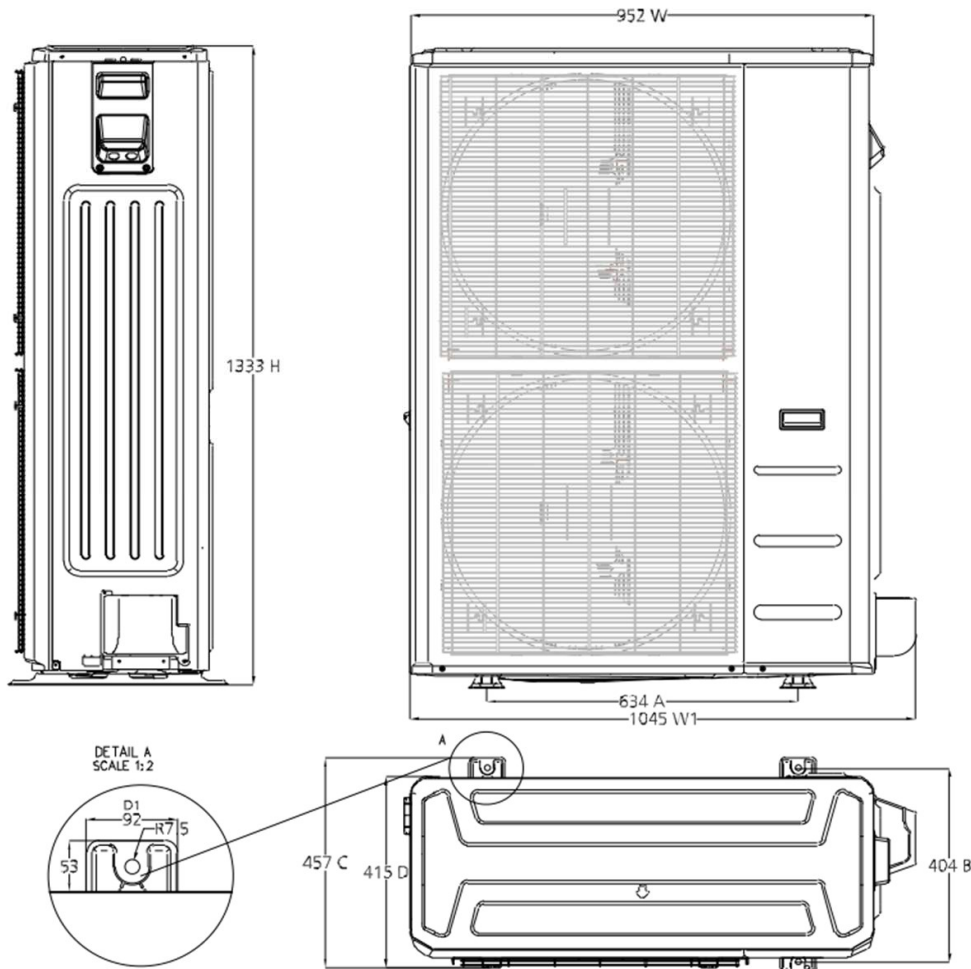
Outdoor Max. CFM	4412
Outdoor Max. dB(A)	64

**OPTIONAL ACCESSORIES<sup>5</sup>**

	<input type="checkbox"/>
	<input type="checkbox"/>

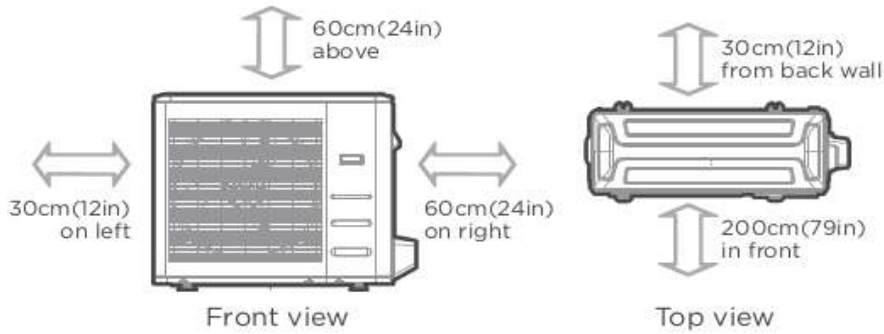
**INCLUDED ACCESSORIES**

Adaptor for welding(3/8")
Adaptor for welding(3/4")



Drawing dimensions are nominal. Specifications subject to change without notice. 5. Connection of these accessories may require secondary items not listed; refer to full product literature.

**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**