

## SUBMITTAL - 36,000BTU DUCTED - M28

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

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

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

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

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

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

**Reference**  **Approval**

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

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

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

**Construction**

### WARRANTY

Standard 10 Years Parts & Compressor  
Terms & Conditions Apply.

### TYPE

Air Source Heat Pump

Cold Climate Air Source Heat Pump

### MODELS

Indoor	DUA36HIDU230X5
Outdoor	DMA36HOS28230E8

### CAPACITY RANGE<sup>1</sup>

Output (Btu/h)	Min.	Rated	Max.
Cooling	9700	36000	40000
Heating	12700	42000	52000

### HEATING PERFORMANCE<sup>2</sup>

Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	12700	42000	52000
17°F (-8.3°C)	9400	34000	43000
5°F (-15°C)	7400	36000	36000
-22°F (-30°C)	3500	20800	20800

### OUTDOOR TEMPERATURE OPERATING RANGE

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

### LINE SET & REFRIGERANT

Liquid (in.)	3/8"	Gas (in.)	5/8"
Connection Type	Flared		
Pre-Charge Length (ft)	25		
Maximum Length (ft)	213.2		
Maximum Height Difference (ft)	98.4		
Refrigerant Type	R410A		
Pre-Charge (oz)	148.4		
Additional Charge per Foot (oz)	0.32		
Oil Type	VG74	Oil Volume (ml)	1460±15
Drain Pipe O.D. (mm)	25		



Images for reference only.

### CERTIFIED

AHRI NO.		
207742525		

### EFFICIENCY RATINGS

SEER2	16.5			
EER2	9			
HSPF2 (4)	11			
HSPF2 (5)	8.8			
COP <sup>2</sup>	47°F (8.3°C)	17°F (-8.3°C)	5°F (-15°C)	-22°F (-30°C)
	3.33	2.49	1.98	1.24

### ELECTRICAL

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	480	3950	4130
Heating	670	3700	4755	
Current (A)	Min.	Rated	Max.	
	Cooling	3.73	17.5	17.9
Heating	4.97	16.9	21.03	

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.)	53.54x30.47x9.80	
	Gross (WxDxH; in.)	61.81x31.69x12.99	
	Net Weight lbs   kg	110.89	50.3
	Gross Weight lbs   kg	128.09	58.1
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	248.02	112.5

### 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

KJR-120L(R1)/EFU1 - Wired Controller	

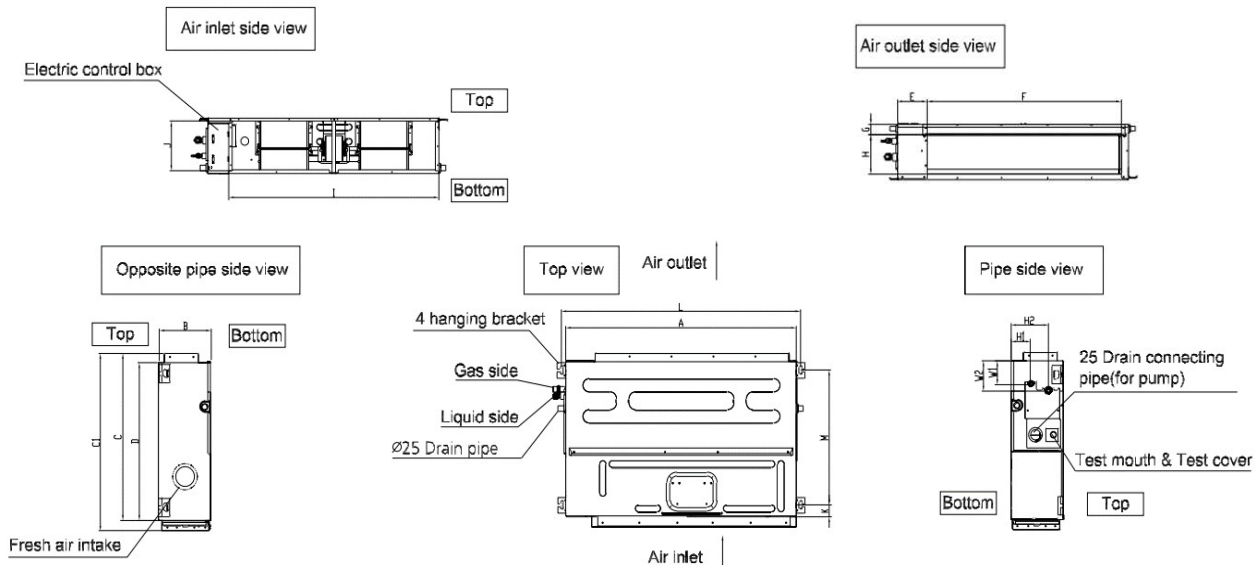
### FAN

Indoor	Turbo	High	Med.	Low
CFM		1081	912	702
dB(A)		49.5	46.5	43
Indoor ESP Range inWG				0-0.64
Indoor Moisture Removal (l/h)				2.85
Outdoor Max. CFM				4500
Outdoor Max. dB(A)				65

### OPTIONAL ACCESSORIES<sup>4</sup>

WF-60A1-F - Smart Port	<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"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
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	<input type="checkbox"/>
	<input type="checkbox"/>
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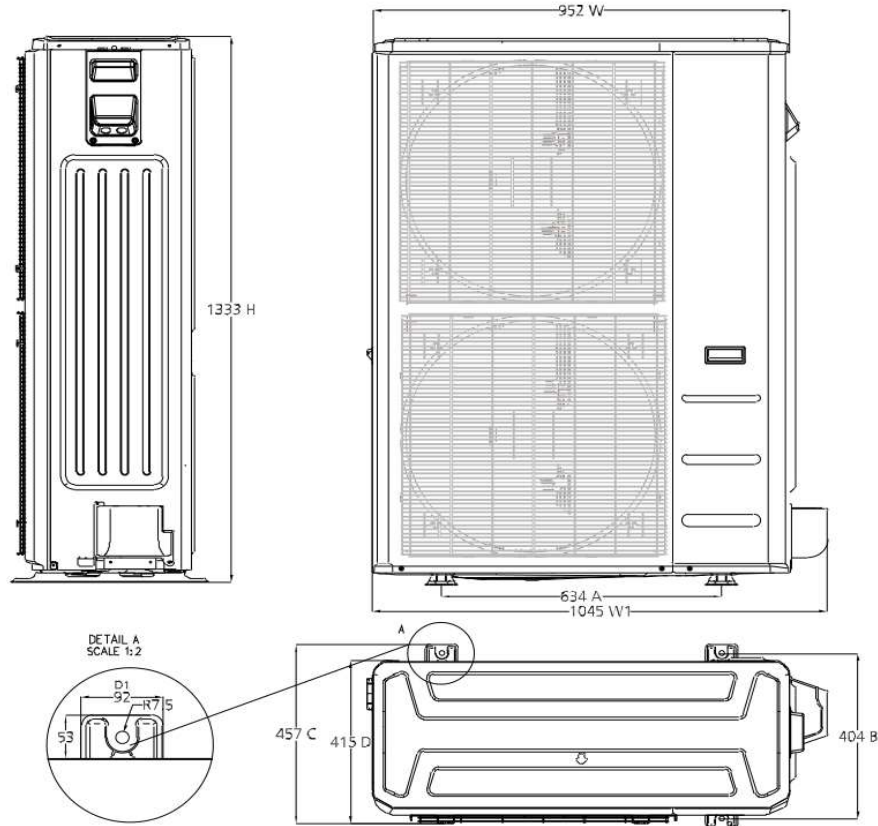
### INDOOR UNIT DRAWING



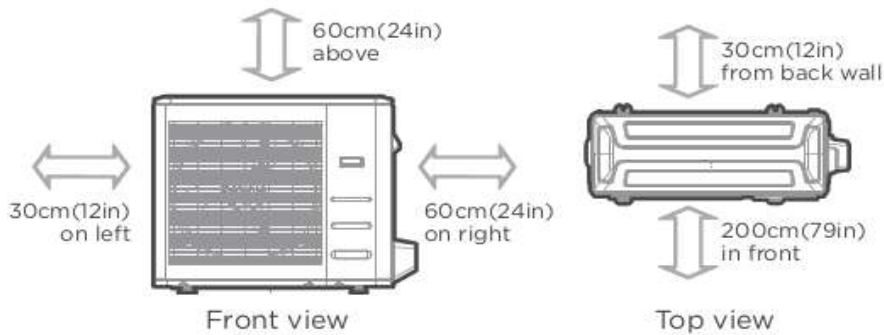
Tag	A	B	C	C1	D	E	F	G	H
inches	53.5	9.8	28.9	30.5	27.6	5.5	46.7	2	6.9
mm	1360	249	734	774	700	140	1186	50	175
Tag	I	J	K	L	M	H1	H2	W1	W2
inches	49.6	9	2	55.1	23.5	3.1	5.9	5.1	6.1
mm	1261	228	50	1400	598	80	150	130	155

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**