

Note: Model phase-out; only available while supplies last.

SUBMITTAL - 48,000BTU DUCTED - 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 DUA48HIDU230X5

Outdoor DMA48HOS28230E8

CAPACITY RANGE¹

Output (Btu/h)	Min.	Rated	Max.
Cooling	11500	48000	53000
Heating	13200	52000	63500

HEATING PERFORMANCE²

Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	13200	52000	63500
17°F (-8.3°C)	12200	39500	51000
5°F (-15°C)	9800	46000	46000
-22°F (-30°C)	5000	27000	27000

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.)	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)	148.2		
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.	 
207742526	

EFFICIENCY RATINGS

SEER2	14.3			
EER2	8.2			
HSPF2 (4)	10.3			
HSPF2 (5)	8.4			
COP ²	47°F (8.3°C)	17°F (-8.3°C)	5°F (-15°C)	-22°F (-30°C)
	3.28	2.39	2.02	1.28

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	1070	5840	6020
Heating	690	4650	5570	
Current (A)	Min.	Rated	Max.	
	Cooling	6.58	26	26.29
Heating	4.78	20.5	24.3	

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.)	47.24x34.41x11.81	
	Gross (WxDxH; in.)	55.31x36.02x14.37	
	Net Weight lbs kg	119.71	54.3
	Gross Weight lbs kg	141.76	64.3
Outdoor	Net (WxDxH; in.)	37.48x16.34x52.48	
	Gross (WxDxH; in.)	43.11x19.49x58.27	
	Net Weight lbs kg	227.07	103
	Gross Weight lbs kg	255.73	116

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	

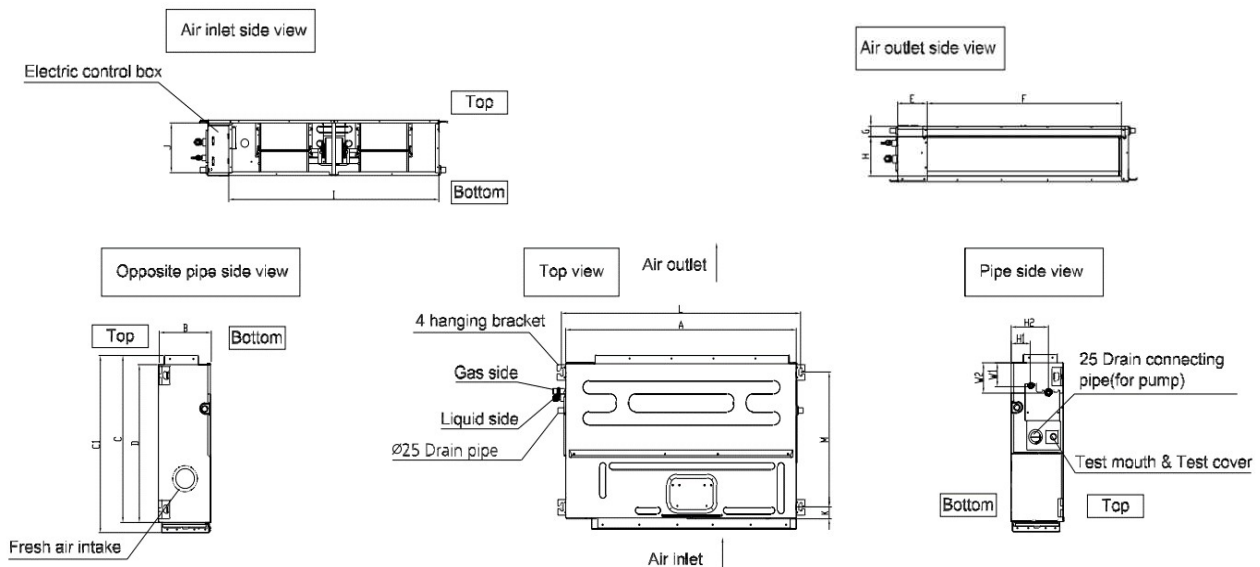
FAN

Indoor	Turbo	High	Med.	Low
CFM		1529	1117	735
dB(A)		54.5	50.5	47.5
Indoor ESP Range inWG				0-0.64
Indoor Moisture Removal (l/h)				4.87
Outdoor Max. CFM				4500
Outdoor Max. dB(A)				65

OPTIONAL ACCESSORIES⁴

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"/>
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	<input type="checkbox"/>
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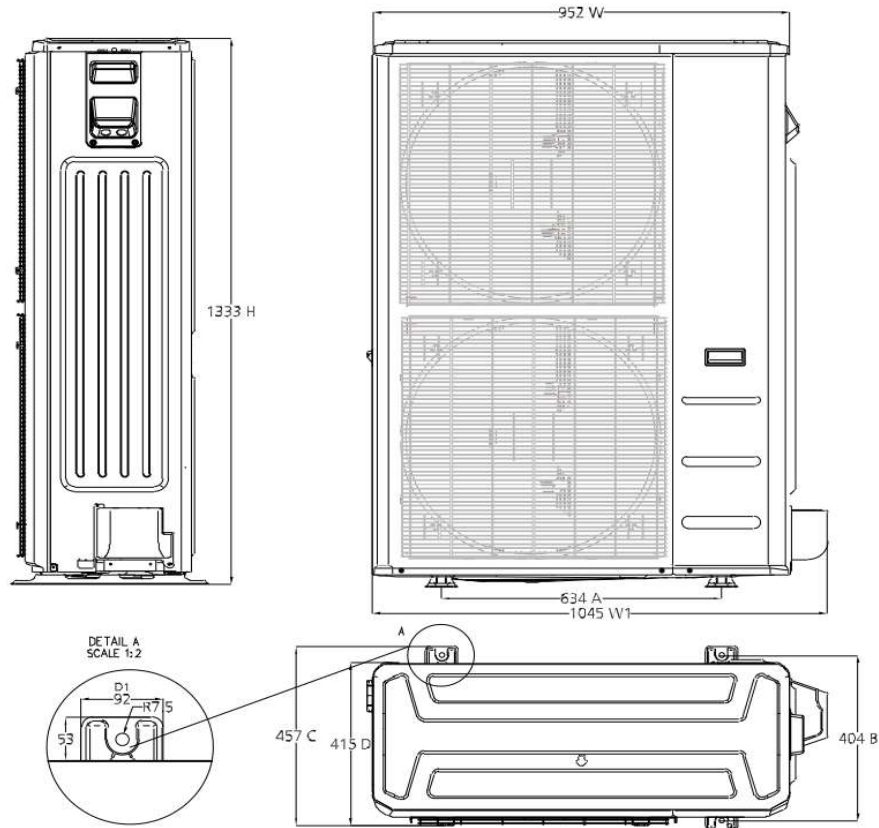
INDOOR UNIT DRAWING



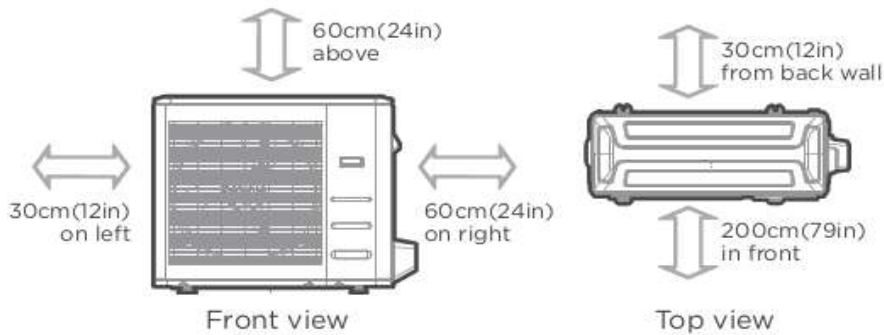
Tag	A	B	C	C1	D	E	F	G	H
inches	47.2	11.8	32.8	34.4	31.5	4.8	41.1	2	8.9
mm	1200	300	834	874	800	123	1044	50	227
Tag	I	J	K	L	M	H1	H2	W1	W2
inches	43.3	11	2	48.8	27.4	3.1	5.9	7.3	8.3
mm	1101	280	50	1240	697	80	150	185	210

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