

SUBMITTAL - 18,000BTU DUCTED - 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 DUA18HIDU230X5

Outdoor DMA18HOS28230E8

CAPACITY RANGE¹

Output (Btu/h)	Min.	Rated	Max.
Cooling	5600	17000	18800
Heating	7000	19000	22000

HEATING PERFORMANCE²

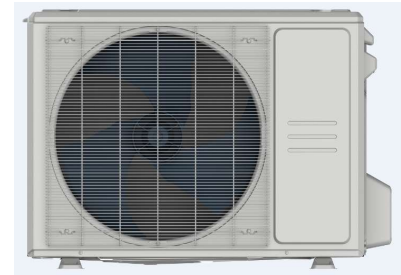
Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	7000	19000	22000
17°F (-8.3°C)	5000	15000	19000
5°F (-15°C)	3800	17700	17700
-22°F (-30°C)	2100	9000	9000

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		
Maximum Length (ft)	98.4		
Maximum 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.
207742523



EFFICIENCY RATINGS

SEER2	18			
EER2	11.7			
HSPF2 (4)	9.5			
HSPF2 (5)	7.5			
COP ²	47°F (8.3°C)	17°F (-8.3°C)	5°F (-15°C)	-22°F (-30°C)
	2.93	2.27	1.85	1.5

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	310	1460	1900
Heating	550	1900	2250	
Current (A)	Min.	Rated	Max.	
	Cooling	2.3	8.9	9.32
Heating	3.8	11.5	12	

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.)	34.65x26.54x8.27	
	Gross (WxDxH; in.)	42.13x28.54x11.02	
	Net Weight lbs kg	55.34	25.1
	Gross Weight lbs kg	67.02	30.4
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

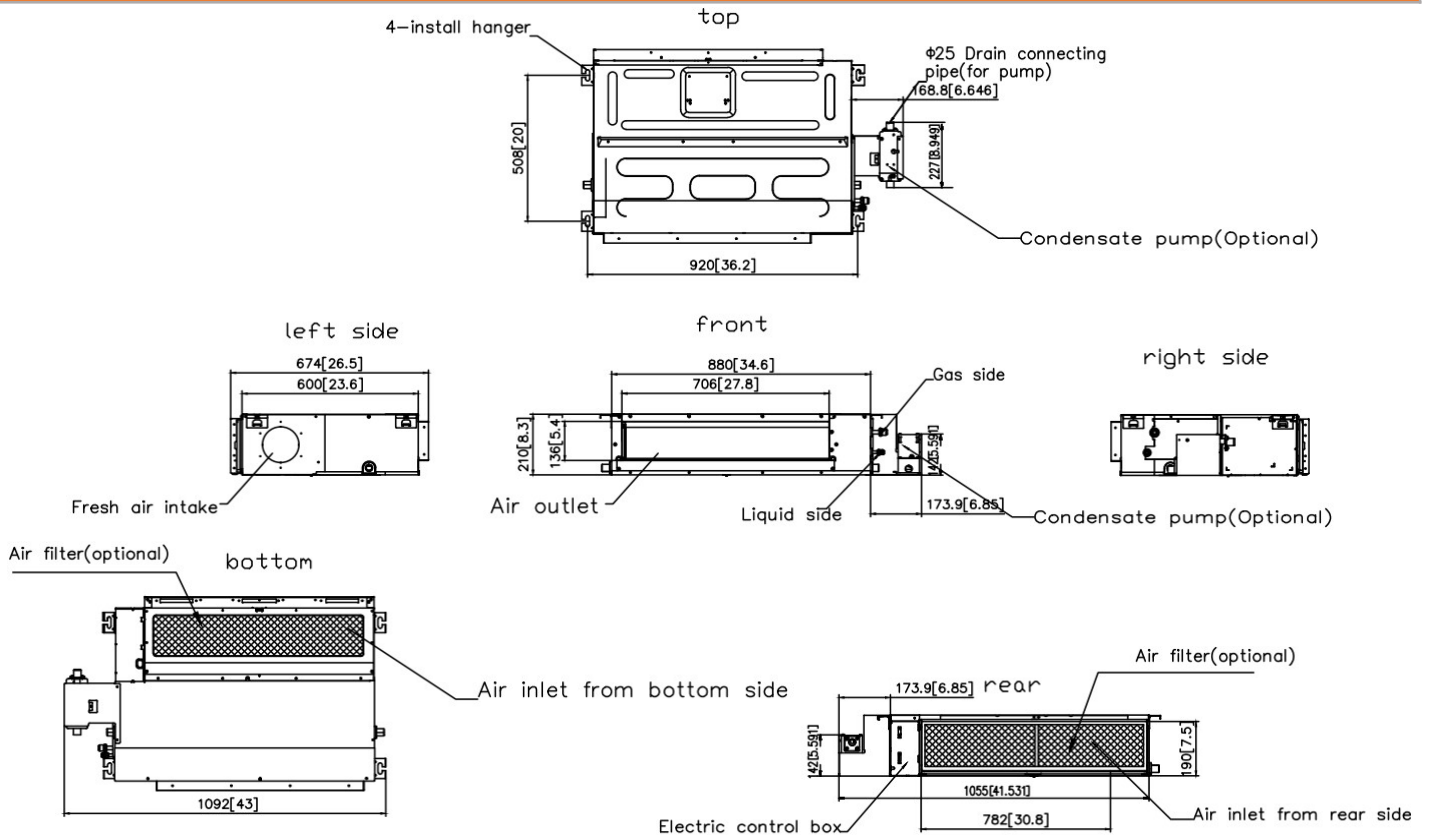
KEY FEATURES	
Rotary Inverter Compressor	<input type="checkbox"/>
Twin Rotary Inverter Compressor	<input checked="" type="checkbox"/>
Base Pan Heater	<input checked="" type="checkbox"/>
Crankcase Heater	<input checked="" type="checkbox"/>

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

FAN				
Indoor	Turbo	High	Med.	Low
CFM		529	450	370
dB(A)		40	37.5	35
Indoor ESP Range inWG				0-0.40
Indoor Moisture Removal (l/h)				1.6
Outdoor Max. CFM				1765
Outdoor Max. dB(A)				59

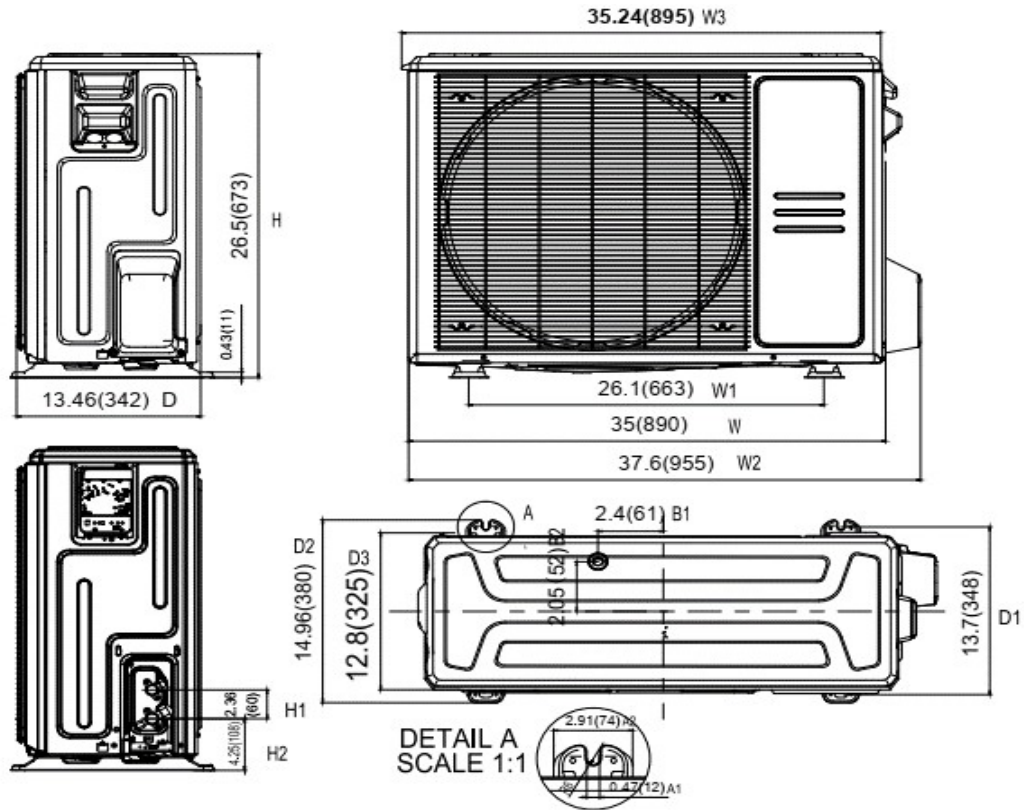
OPTIONAL ACCESSORIES ⁴	
WF-60A1-F - Smart Port	<input type="checkbox"/>
KJR-120N(X6)/BGEF - Wired Controller	<input type="checkbox"/>
KJR-120N(X6W)/BGEF - Wired Controller	<input type="checkbox"/>
24VINTERFACEKITUNIVERSAL	<input type="checkbox"/>
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INDOOR UNIT DRAWING

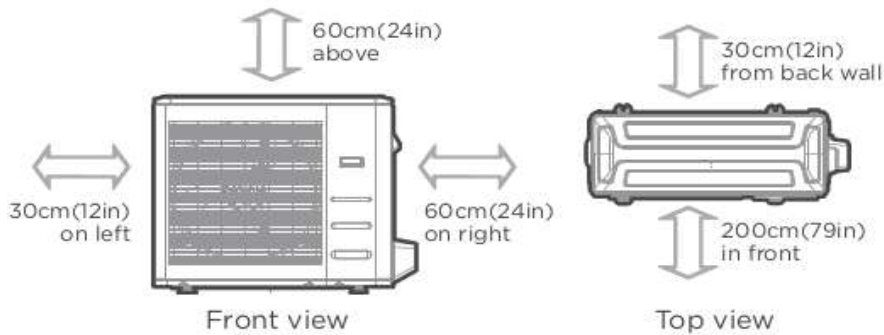


Drawing dimensions are nominal. Specifications subject to change without notice. 4. Connection of these accessories may require secondary items not listed; refer to full product literature.

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