

SUBMITTAL - 2 TON COLD CLIMATE HEAT PUMP WITH CASED COIL

Job Name:

Location:

Submitted To:

Submitted By:

Reference:

Submitted For:

Reference ☐

Approval ☐

Construction ☐

Date:

Unit #:

Drawing #:

MODELS

OUTDOOR MOD30-24HFN1-MW

INDOOR MAC-24HWDN1-MN0



AHRI CERTIFICATION

211911381



COOLING CAPACITY

Output (Btu/h)	Min.	Rated	Max.
Cooling 95°F (35°C)	7,100	24,000	28,400
82°F 28°C)	7,700		30,800

HEATING CAPACITY

Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	8,500	25,000	33,400
5°F (-15°C)	5,000	20,000	20,000

TEMPERATURE OPERATING RANGE

Indoor Cooling	62 ~ 90 °F	17 ~ 32 °C
Indoor Heating	32 ~ 86 °F	0 ~ 30 °C
Outdoor Cooling	5 ~ 122 °F	-15 ~ 50 °C
Outdoor Heating	-22 ~ 75 °F	-30 ~ 24 °C

REFRIGERANT PIPE DATA

Liquid (in.)	3/8"	Gas (in.)	3/4"
Design Pressure (PSIG)			550 / 340
Connection Method (Indoor)			Braze
Connection Method (Outdoor)			Flared
Pre-Charge Length			25 (ft)
Max. Length	50(m)		164 (ft)
Max. Height Difference	25 (m)		82 (ft)
Refrigerant Type (oz)	R410A		102.3
Refrigerant Pre-charge	7.6 (m)		25 (ft)
Additional Charge (g) oz	65 (g/m)		3.5 oz) / 5 (ft)



Diagrams are provided for reference only.

EFFICIENCY RATINGS

SEER 2		16.8
EER 2		10.7
HSPF4 (Btu/W)		9.5
HSPF5 (Btu/W)		7.7
COP	At 47°F (8.3°C)	At 5°F (-15°C)
	3.32	1.95

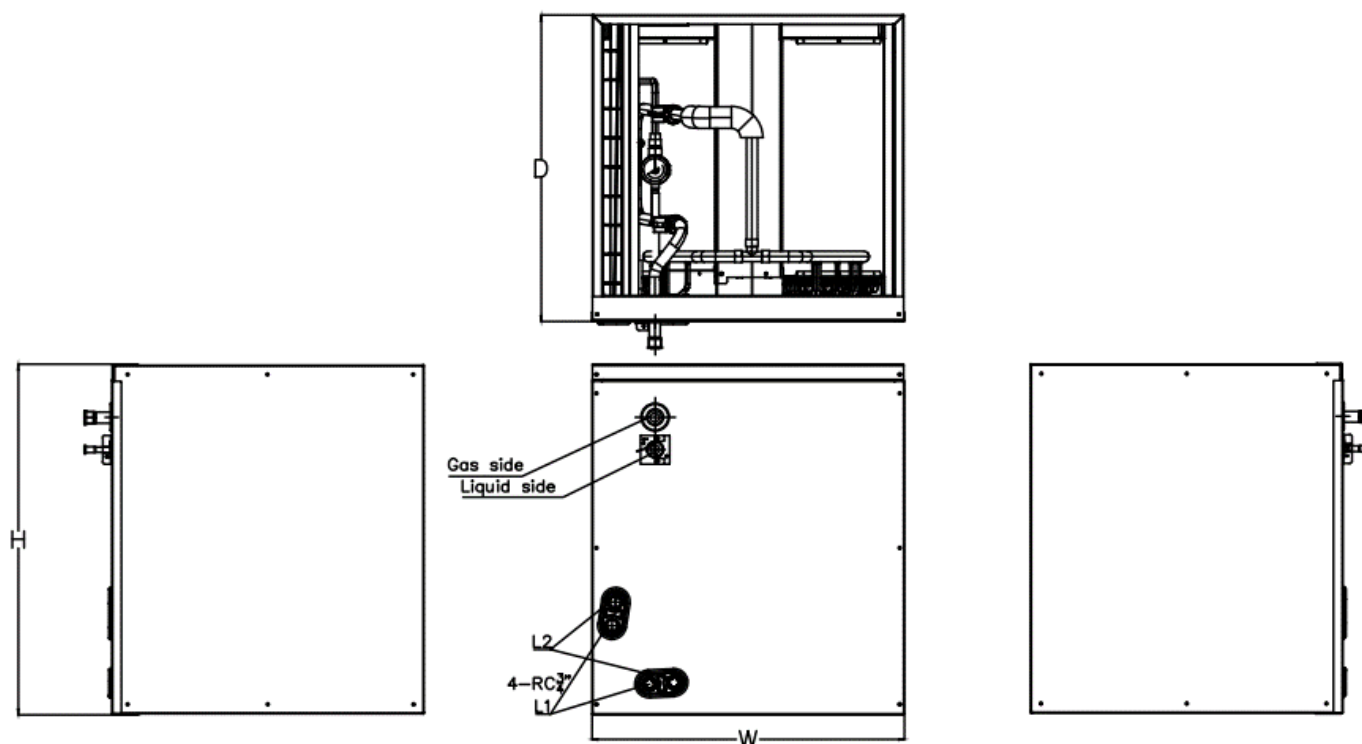
POWER & ELECTRICAL SUPPLY

Power Supply		(V/Ph/Hz)	208-230 / 1 / 60
Voltage Range		(V)	187-253
MCA (A)	20.5	MOP (A)	35.0
Power Input (W)		Max	
Cooling		2247 (380-2600)	
Heating		5020 (800~6200)	
Current (A)			
Cooling		22.3 (2.33-10.7)	
Heating		9.3 (3.01-12.92)	

DIMENSIONS			
Indoor	Net (WxDxH; in.)	17.5 x 21.0 x 18.0	
	Gross (WxDxH; in.)	23.4 x 25.6 x 25.4	
	Net Weight lbs kg	66.6	30.2
	Gross Weight lbs kg	77.2	35
Outdoor	Net (WxDxH; in.)	37.2 x 16.1 x 31.7	
	Gross (WxDxH; in.)	43.1 x 19.7x 33.9	
	Net Weight lbs kg	136.7	145.5
	Gross Weight lbs kg	145.5	66.0
FEATURES			
Rotary Inverter Compressor			✓
AIRFLOW & NOISE LEVEL			
Outdoor Airflow (Max) (CFM)			3,000
Outdoor Noise Level [dB(A)]			63.5

INDOOR UNIT DATA	
Refrigerant Control	TXV for Cooling
IRV (inch ³)	58.3
Airflow (SCFM)	720
Pressure Drop (Pa)	51.23
(in.wc.)	0.21
OUTDOOR UNIT DATA	
Compressor Type	KTM240D57UMT
Model	Twin-ROTARY
Capacity (Btu/h)	26408.9
Input (W)	2085
Rated current (RLA) (A)	-
Refrigerant oil/oil charge	POE 670ml
Refrigerant Control	EEV
Outdoor fan motor	
Qty	1
Input (W)	-
RLA (A)	1.35
Speed (r/min)	950 / 700 / 500 / 400

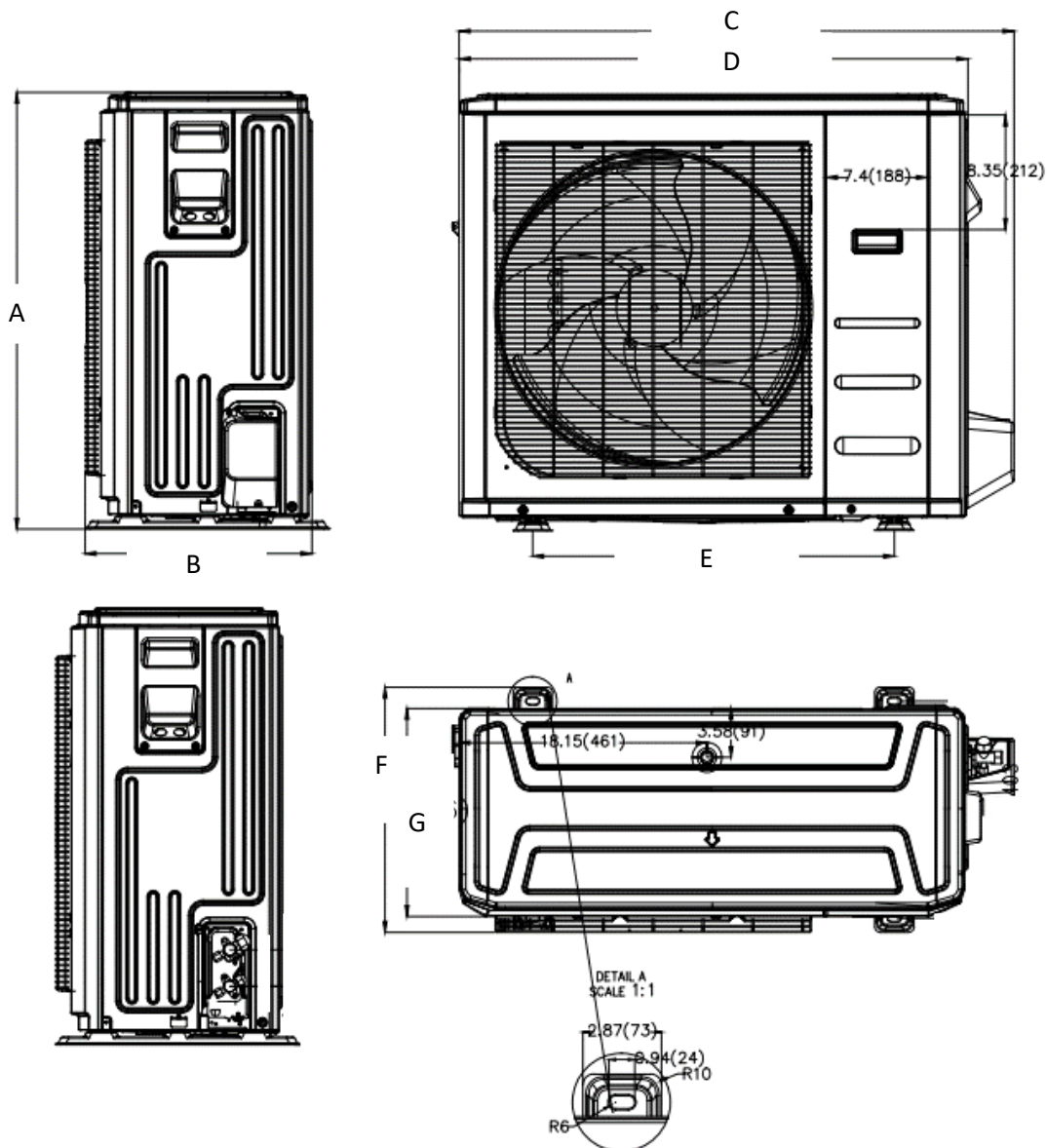
INDOOR UNIT



ORIENTATION
UP-FLOW / DOWN-FLOW
HORIZONTAL

MODEL	Unit	Dimensions (mm)			Drain hole	
		W	D	H	L1	L2
12k-24k	mm	445	533	457	Main drain pan ¾ in NPT	Over-flow drain pan ¾ in NPT
	inch	17.5	21	18		

OUTDOOR UNIT



Dimensions	inch	mm
A	31.9	810
B	16.2	410
C	40.6	1030
D	37.2	946
E	26.5	673
F	17.9	455
G	15.2	386