

SUBMITTAL – 2.5 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 MOD30U-30HFN1-MR0(X)

INDOOR MAC-36HWDN1-M



AHRI CERTIFICATION

211911385



COOLING CAPACITY

Output (Btu/h)	Min.	Rated	Max.
Cooling	9,900	30,000	35,000
Heating	9,000	33,000	37,000

HEATING CAPACITY

Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	9,000	33,000	37,000
5°F (-15°C)	6,800	27,000	27,000

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	134.0	
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		15.5
EER 2		10.5
HSPF4 (Btu/W)		9.7
HSPF5 (Btu/W)		7.7
COP	At 47°F (8.3°C)	At 5°F (-15°C)
	3.3	1.85

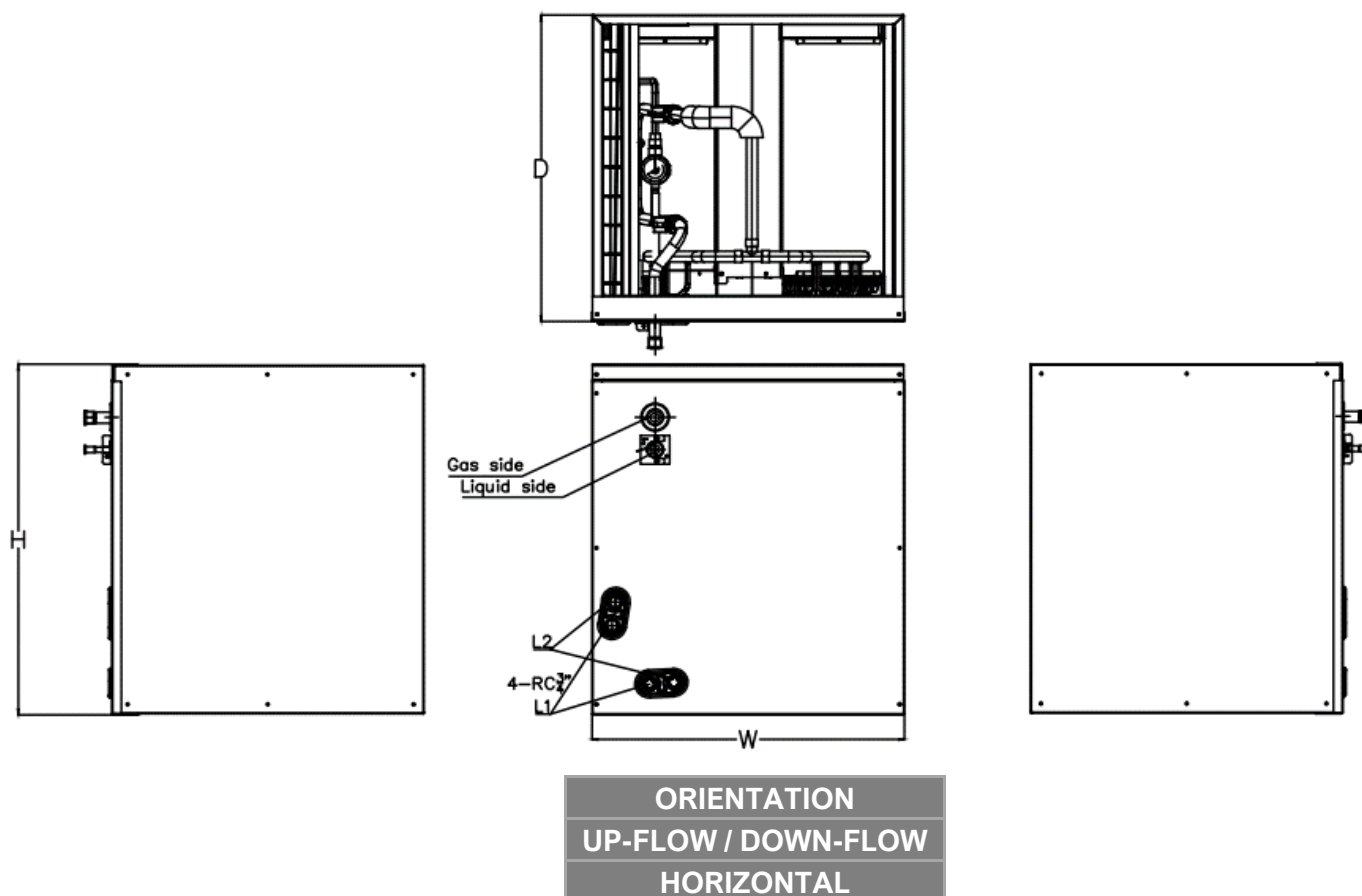
POWER & ELECTRICAL SUPPLY

Power Supply		(V/Ph/Hz)	208-230 / 1 / 60
Voltage Range		(V)	187-253
MCA (A)	23.0	MOP (A)	35.0
Power Input (W)		Max	
Cooling		2855 (660~3720)	
Heating		2850 (640~3300)	
Current (A)			
Cooling		11.1 (3.10~14.4)	
Heating		11.0 (3.00~13)	

DIMENSIONS			
Indoor	Net (WxDxH; in.)	21.0 x 21.0 x 24	
	Gross (WxDxH; in.)	23.4 x 25.6 x 25.4	
	Net Weight lbs kg	66.58	77.16
	Gross Weight lbs kg	30.2	35
Outdoor	Net (WxDxH; in.)	37.2 x 16.1 x 31.9	
	Gross (WxDxH; in.)	42.9 x 19.7 x 34.9	
	Net Weight lbs kg	159.83	72.5
	Gross Weight lbs kg	169.8	77
FEATURES			
Rotary Inverter Compressor			✓
AIRFLOW & NOISE LEVEL			
Outdoor Airflow (Max) (CFM)			3000.0
Outdoor Noise Level [dB(A)]			63.0

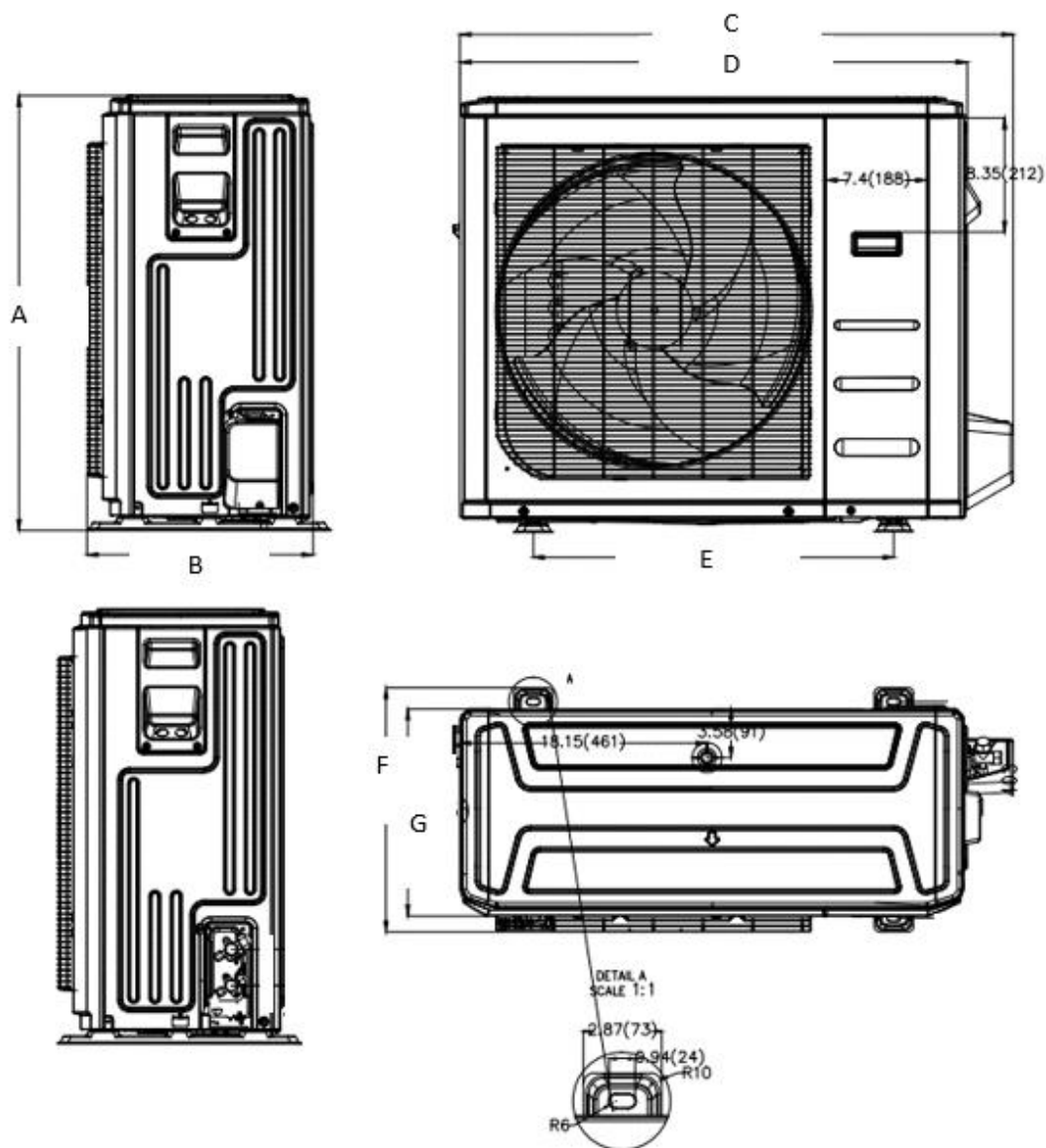
INDOOR UNIT DATA	
Refrigerant Control	TXV for Cooling
IRV (inch ³)	106.9
Airflow (SCFM)	960
Pressure Drop (Pa)	65.1
(in.wc.)	0.26
OUTDOOR UNIT DATA	
Compressor Type	KTF310D43UMT
Model	ROTARY
Capacity (Btu/h)	34154.12
Input (W)	2765
Outdoor Noise Level dbA	63
Refrigerant oil/oil charge	POE 1000ml
Refrigerant Control	EEV
Outdoor fan motor	
Qty	1
Input (W)	-
RLA (A)	1.35
Speed (r/min)	950 / 900 / 500

INDOOR UNIT



MODEL	Unit	Dimensions (mm)			Drain hole	
		W	D	H	L1	L2
30k-48k	mm	533	533	609	Main drain pan ¾ in NPT	Over-flow drain pan ¾ in NPT
	inch	21	21	24		

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