

SUBMITTAL – 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 MOE30U-55HFN1-M

INDOOR MAC-60HWDN1-MN0



AHRI CERTIFICATION

212928595



COOLING CAPACITY

Output (Btu/h)	Min.	Rated	Max.
Cooling	13,400	53,000	54,000
Heating	10,800	55,000	60,000

HEATING CAPACITY

Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	13400	59000	60000
5°F (-15°C)	15100	48500	54356

TEMPERATURE OPERATING RANGE

Indoor Cooling	60 ~ 90 °F	16 ~ 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.)	7/8"
Design Pressure (PSIG)			550 / 340
Connection Method (Indoor)			Braze
Connection Method (Outdoor)			Flared
Pre-Charge Length			25 (ft)
Max. Length		65 (m)	213.3 (ft)
Max. Height Difference		30 (m)	98.4 (ft)
Refrigerant Type (oz)		R410A	
Refrigerant Pre-charge		7.6 (m)	25 (ft)
Additional Charge per		65 (g/m)	3.5 oz / 5 ft



Diagrams are provided for reference only.

EFFICIENCY RATINGS

SEER 2		14.5
EER 2		8.6
HSPF2 Region 4		8.6
HSPF2 Region 5		7.1
COP	At 47°F (8.3°C)	At 5°F (-15°C)
	3.4	1.91

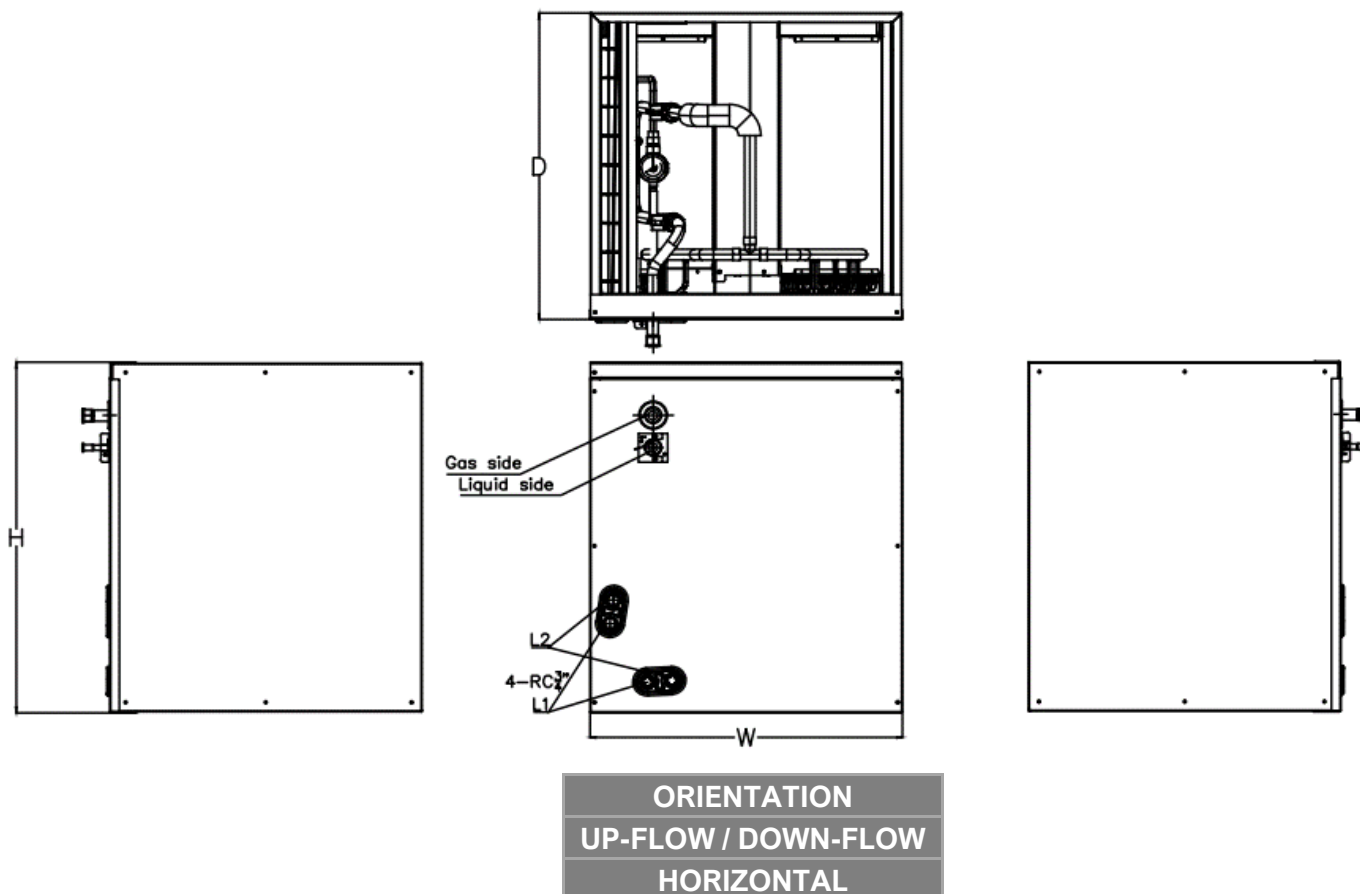
POWER & ELECTRICAL SUPPLY

Power Supply		(V/Ph/Hz)	208-230 / 1 / 60
Voltage Range		(V)	187-253
MCA (A)	42.0	MOP (A)	60.0
Power Input (W)		Max	
Cooling		6,280 (500 ~ 6450)	
Heating		5,060 (750 ~ 6,450)	
Current (A)			
Cooling		27.4 (5.5 ~ 28.5)	
Heating		22.0 (5.5 ~ 26.2)	

DIMENSIONS			
Indoor	Net (WxDxH; in.)	28.0 x 26.8 x 56.5	
	Gross (WxDxH; in.)	21.0 x 24.5 x 53.0	
	Net Weight lbs kg	162.7	73.8
	Gross Weight lbs kg	192.5	87.5
Outdoor	Net (WxDxH; in.)	37.5 x 16.4 x 52.5	
	Gross (WxDxH; in.)	43.1 x 19.5 x 58.3	
	Net Weight lbs kg	239.9	108.8
	Gross Weight lbs kg	271.6	123.2
FEATURES			
Rotary Inverter Compressor			✓
AIRFLOW & NOISE LEVEL			
Outdoor Airflow (Max) (CFM)			4500
Outdoor Noise Level [dB(A)]			62.0

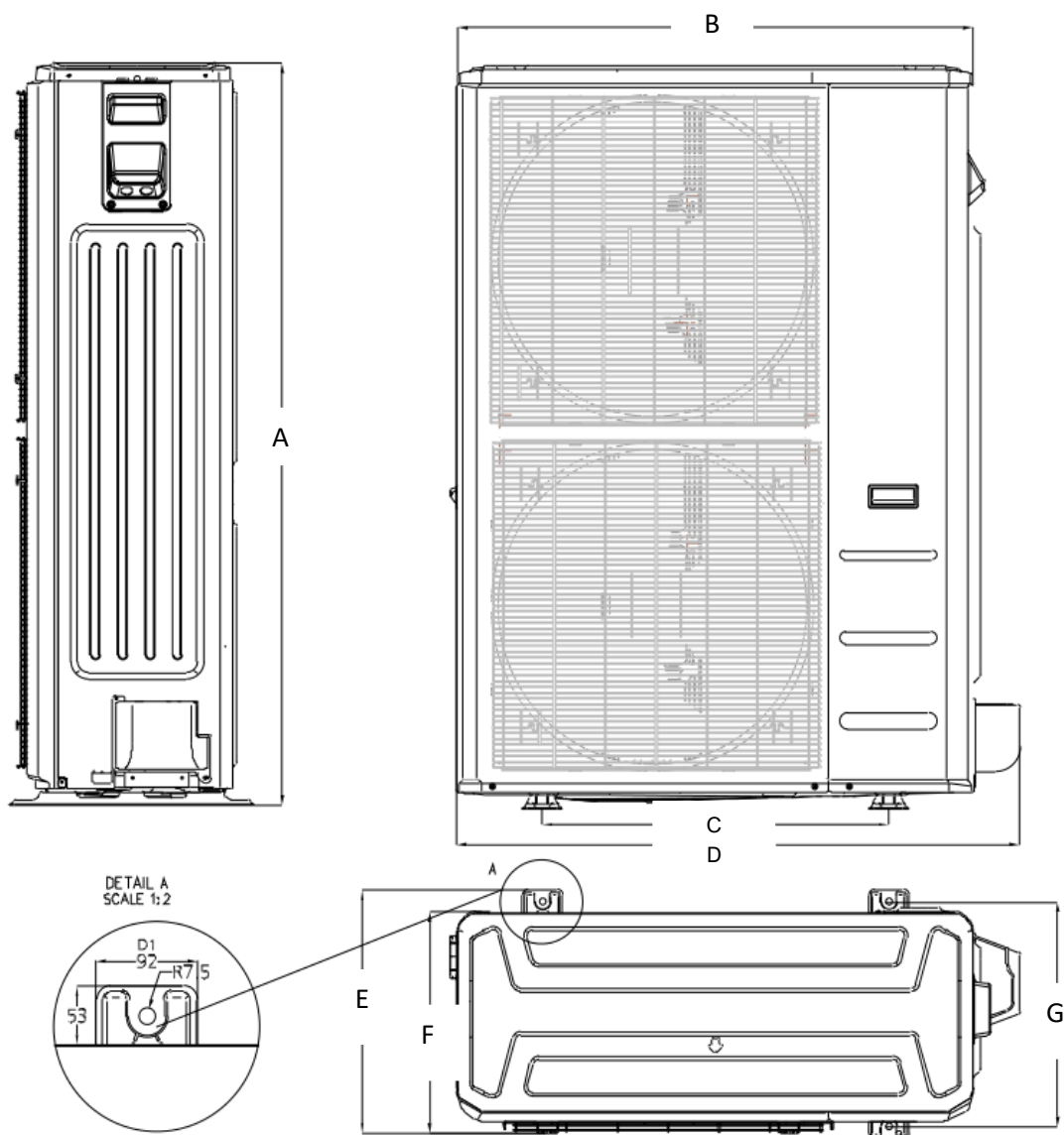
INDOOR UNIT DATA	
Refrigerant Control	TXV for Cooling
IRV (inch ³)	190.00
Airflow (SCFM)	1100
Pressure Drop (Pa)	72.00
(in.wc.)	0.29
OUTDOOR UNIT DATA	
Compressor Type	EAPQ440D1UMUA
Model	ROTARY
Capacity (Btu/h)	46,335
Input (W)	3770
Rated current (RLA) (A)	26.2
Refrigerant oil/oil charge	POE 1300ml
Refrigerant Control	EEV for heating
Outdoor fan motor	
Qty	2
Input (W)	126.0
RLA (A)	1.2
Speed (r/min)	850 / 750 / 650

INDOOR UNIT



MODEL	Unit	Dimensions (mm)			Drain hole	
		W	D	H	L1	L2
60k	mm	622	533	711	Main drain pan ¾ in NPT	Over-flow drain pan ¾ in NPT
	inch	24	21	28		

OUTDOOR UNIT



Dimensions	inch	mm
A	52.5	1333
B	37.5	952
C	25.0	634
D	41.1	1045
E	18.0	457
F	16.3	415
G	15.9	404