

SUBMITTAL – 3 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 MOE31U-36HFN1-M

INDOOR MAC-36HWFN1-M



AHRI CERTIFICATION

211911386



COOLING CAPACITY

Output (Btu/h)	Min.	Rated	Max.
Cooling	11700	36000	40000
Heating	9200	39000	50000

HEATING CAPACITY

Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	15000	51000	59000
5°F (-15°C)	15000	40000	59000

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	65 (m)	213.3 (ft)	
Max. Height Difference	30 (m)	98.4 (ft)	
Refrigerant Type (oz)	R410A	165.79	
Refrigerant Pre-charge	7.6 (m)	25 (ft)	
Additional Charge per	65 (gm) oz	3.5 oz / 5 ft	



Diagrams are provided for reference only.

EFFICIENCY RATINGS

SEER 2		14.8
EER 2		9.3
HSPF4 (Btu/W)		10.0
HSPF5 (Btu/W)		8.0
COP	At 47°F (8.3°C)	At 5°F (-15°C)
	3.18	2.0

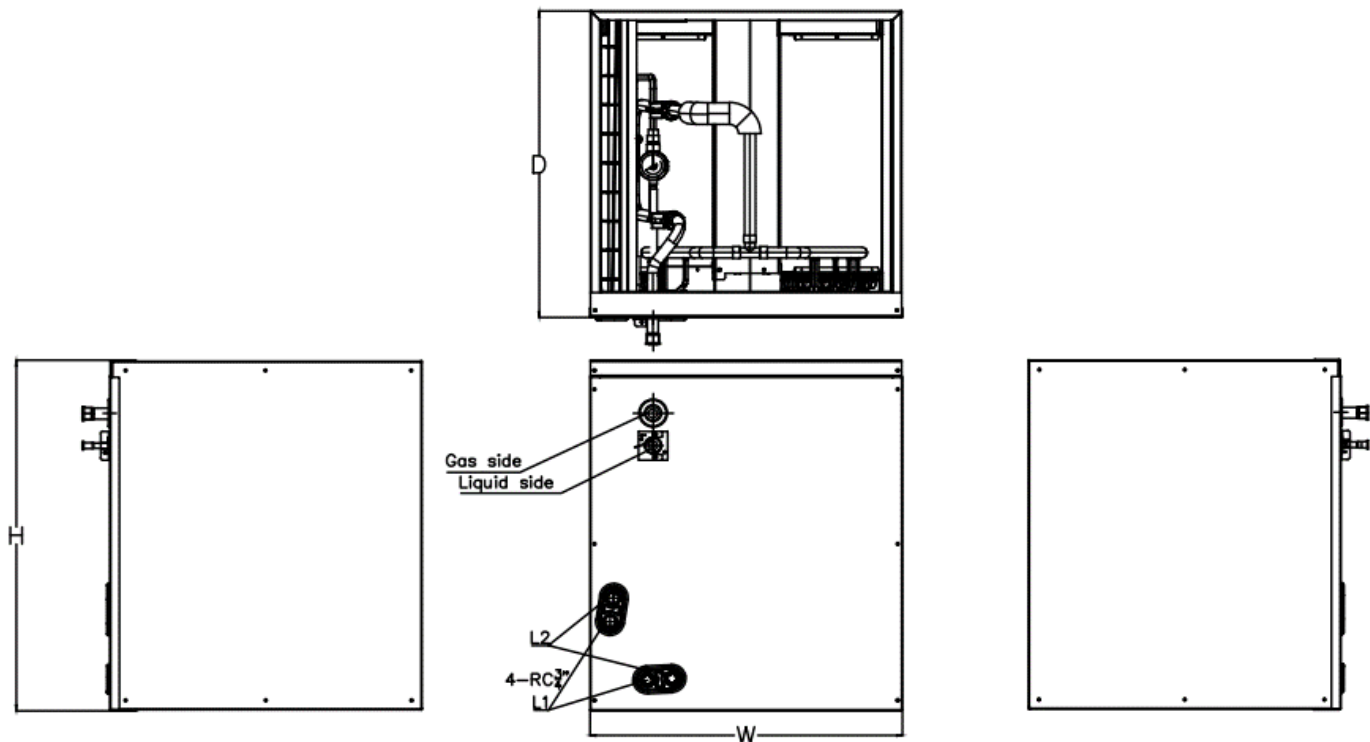
POWER & ELECTRICAL SUPPLY

Power Supply		(V/Ph/Hz)	208-230 / 1 / 60
Voltage Range		(V)	187-253
MCA (A)	40.0	MOP (A)	50.0
Power Input (W)		Max	
Cooling		3530 (800~5000)	
Heating		3600 (800~5000)	
Current (A)			
Cooling		14.8 (3.5~21)	
Heating		15.65 (3.5~21)	

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.)	37.48 x 16.34 x 52.48	
	Gross (WxDxH; in.)	23.4 x 25.6 x 24.4	
	Net Weight lbs kg	227.1	255.73
	Gross Weight lbs kg	103	116
FEATURES			
Rotary Inverter Compressor			✓
AIRFLOW & NOISE LEVEL			
Outdoor Airflow (Max) (CFM)			4500.0
Outdoor Noise Level [dB(A)]			61.0

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	EAPQ420D1UMUA
Model	ROTARY
Capacity (Btu/h)	44014.8
Input (W)	3565
Rated current (RLA) (A)	-
Refrigerant oil/oil charge	POE 1460ml
Refrigerant Control	EEV
Outdoor fan motor	
Qty	2
Input (W)	-
RLA (A)	1.20
Speed (r/min)	850 / 750 / 650

INDOOR UNIT



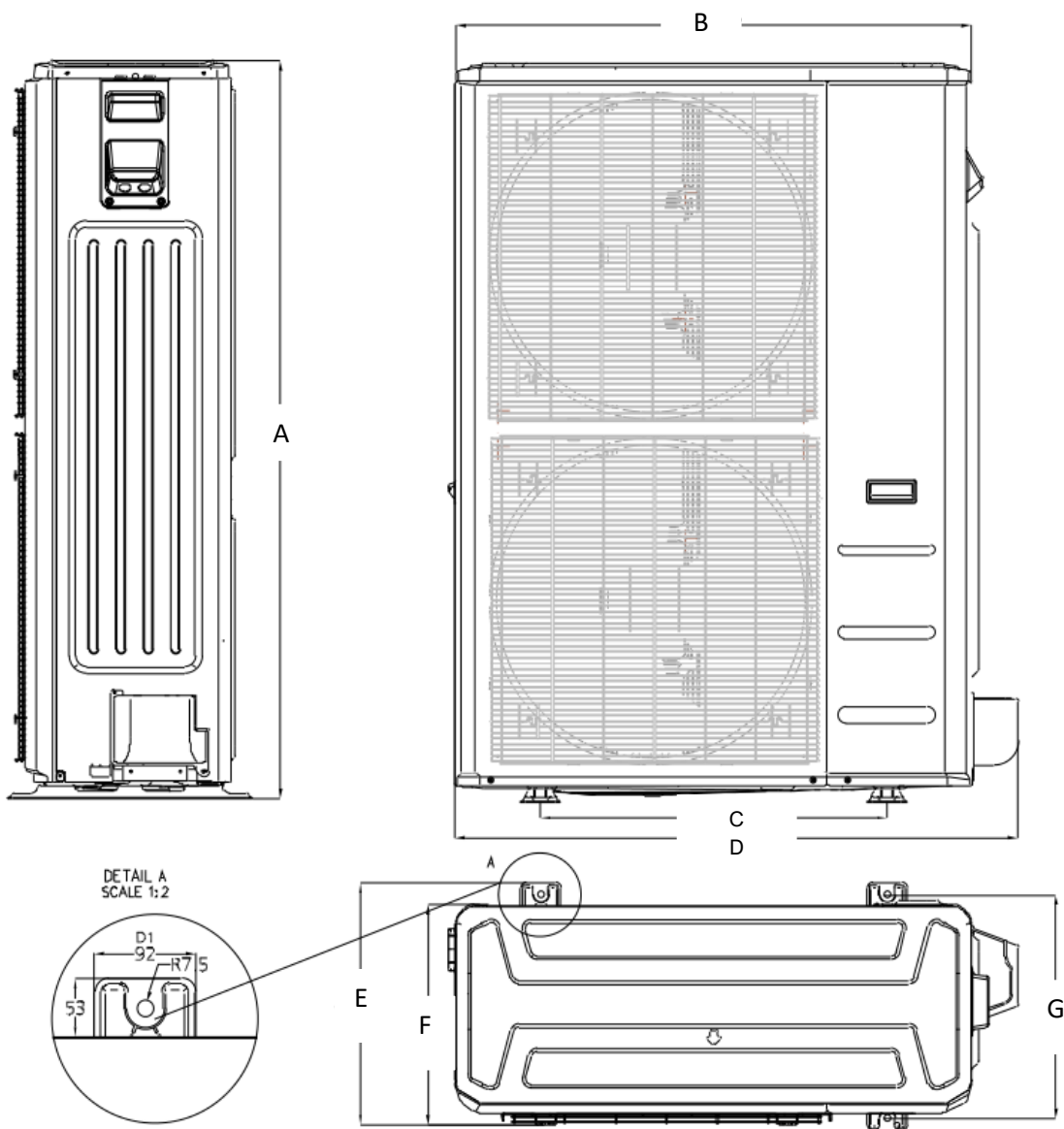
ORIENTATION

UP-FLOW / DOWN-FLOW

HORIZONTAL

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

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