

SUBMITTAL - 4 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 M0E30-U-48HFN1-M-[X1]

INDOOR MAC-48HWDN1-MN0



AHRI CERTIFICATION

211911384

COOLING CAPACITY

Output (Btu/h)	Min.	Rated	Max.
Cooling	12300	46000	47000
Heating	15000	51000	59000

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 to Braze		
Pre-Charge Length	25 (ft)		
Max. Length	65 (m)	213.3 (ft)	
Max. Height Difference	30 (m)	98.4 (ft)	
Refrigerant Type (oz)	R410A	169.5	
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	14.3	
EER 2	8.6	
HSPF4 (Btu/W)	9	
HSPF5 (Btu/W)	7.5	
COP	At 47°F (8.3°C)	At 5°F (-15°C)
	2.98	1.8

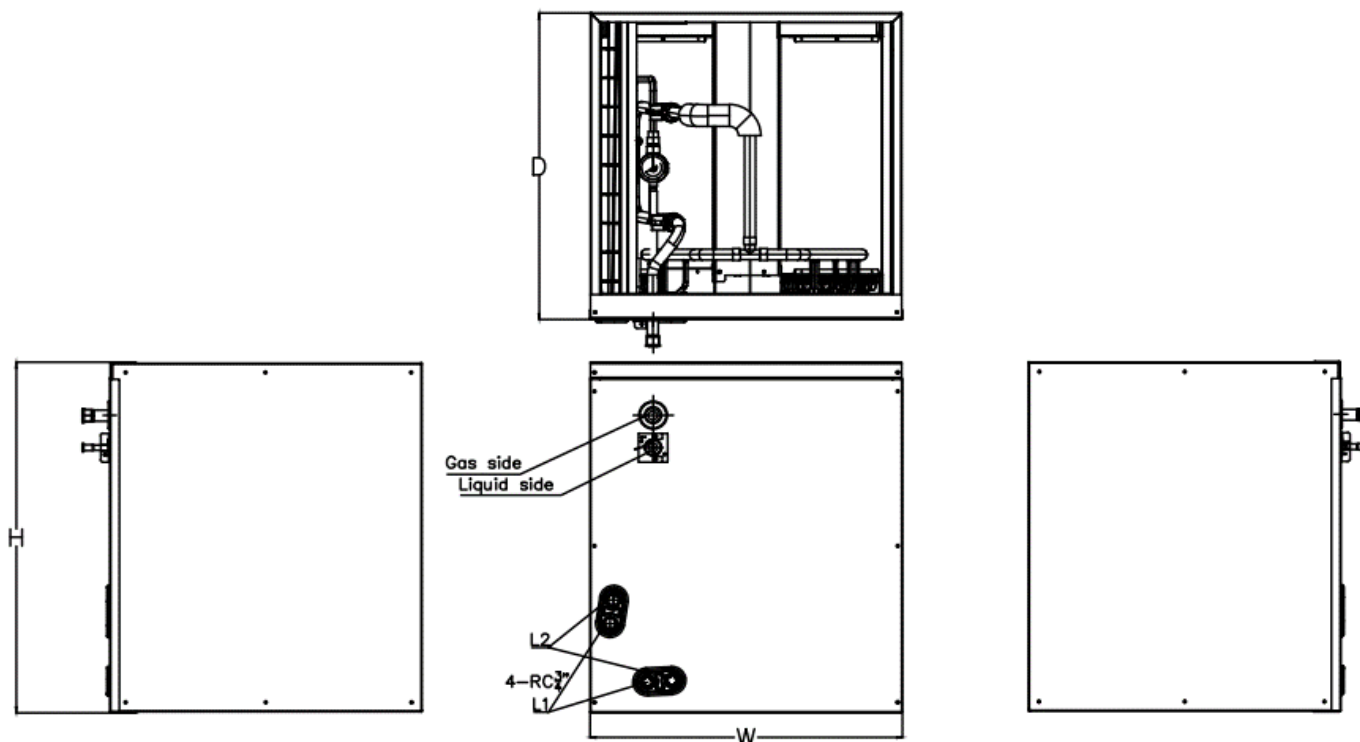
POWER & ELECTRICAL SUPPLY

Power Supply	(V/Ph/Hz)	208-230 / 1/ 60	
Voltage Range	(V)	187-253	
MCA (A)	40	MOP (A)	50
Power Input (W)	Max		
Cooling	5400 (560~5720)		
Heating	5020 (800~6200)		
Current (A)			
Cooling	22.5 (2.4~25.3)		
Heating	21.5 (4~25.5)		

DIMENSIONS			
Indoor	Net (WxDxH; in.)	21.0 x 21.0 x 24.0	
	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.)	37.5 x 16.3 x 52.5	
	Gross (WxDxH; in.)	43.1 x 19.5 x 58.3	
	Net Weight lbs kg	220.2	99.9
	Gross Weight lbs kg	248.9	112.90
FEATURES			
Rotary Inverter Compressor			✓
AIRFLOW & NOISE LEVEL			
Outdoor Airflow (Max) (CFM)			4411.8
Outdoor Noise Level [dB(A)]			64.0

INDOOR UNIT DATA	
Refrigerant Control	TXV for Cooling
IRV (inch ³)	158
Airflow (SCFM)	1015
Pressure Drop (Pa)	70
(in.wc.)	0.28
OUTDOOR UNIT DATA	
Compressor Type	EAPQ420D1UMUA
Model	Rotary
Capacity (Btu/h)	44014.8
Input (W)	3565
Rated current (RLA) (A)	-
Refrigerant oil/oil charge	1460 (ml) POE
Refrigerant Control	EEV for heating
Outdoor fan motor	
Qty	2
Input (W)	-
RLA (A)	1.2
Speed (r/min)	850 / 750 / 650

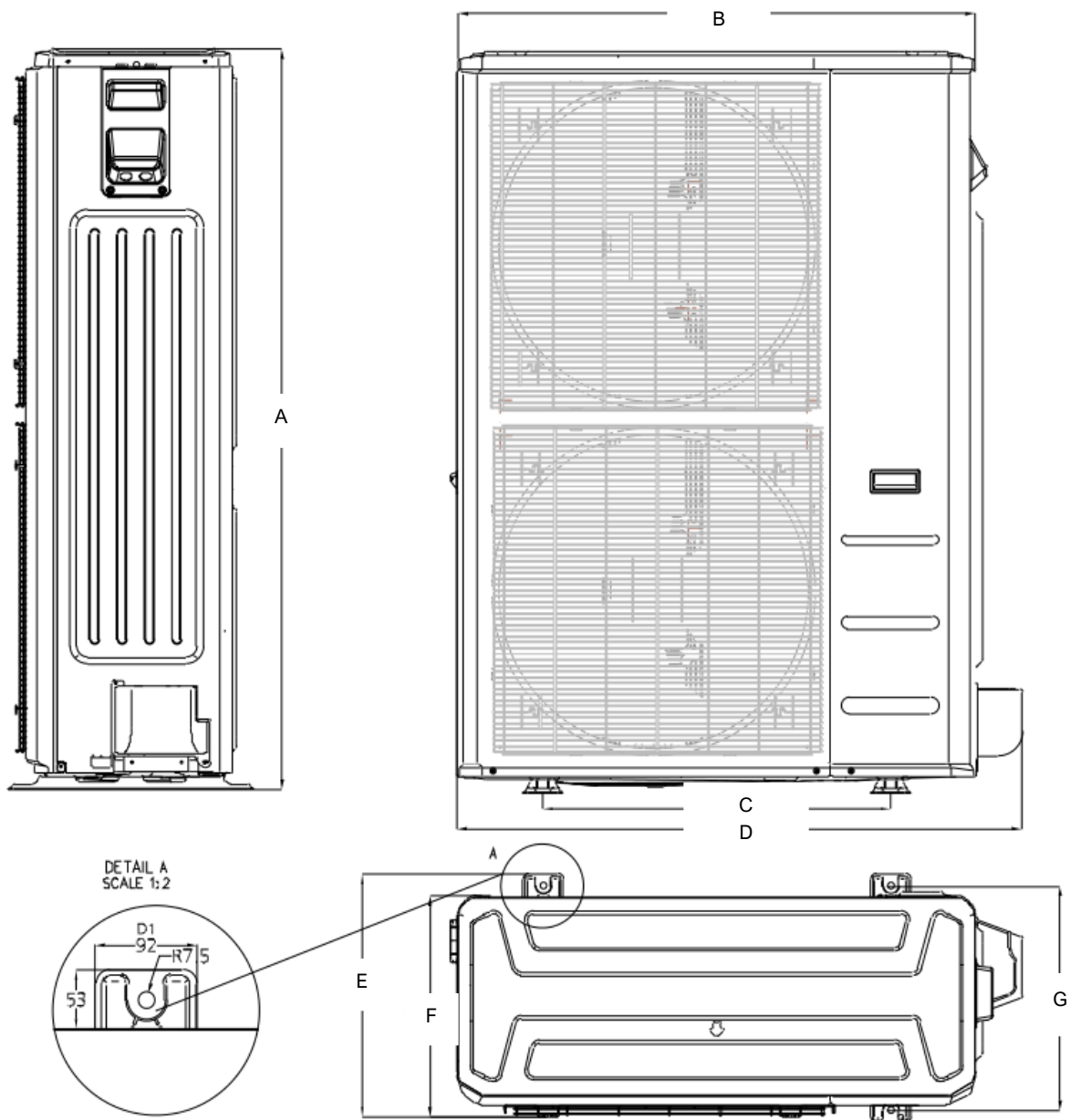
INDOOR UNIT



ORIENTATION
 UP-FLOW / DOWN-FLOW
 HORIZONTAL

MODEL	Unit	Dimensions (mm)			Drain hole	
		W	D	H	L1	L2
12k-24k	mm	445	533	457	Main drain pan	Over-flow drain pan
	inch	17.5	21	18		
30k-48k	mm	533	533	609	¾ in	¾ in
	inch	21	21	24		
60k	mm	622	533	711	¾ in	¾ in
	inch	24	21	28		

OUTDOOR UNIT



Dimensions	inch	mm
A	51.7	1313
B	35.7	952
C	25.0	634
D	41.1	1045
E	18.0	457
F	16.3	415
G	15.9	405

Specifications subject to change without notice.

Diagrams are provided for reference only.