

SUBMITTAL – 4 TON COLD CLIMATE HEAT PUMP WITH AIR HANDLING UNIT

Job Name:

Location:

Submitted To:

Submitted By:

Reference:

Submitted For:

Reference ☐

Approval ☐

Construction ☐

Date:

Unit #:

Drawing #:

MODELS				 
OUTDOOR	MOE30U-48HFN1-M-[X1]			
INDOOR	MVC-48HWFN1-M			
AHRI CERTIFICATION				
211257309				
COOLING CAPACITY				
Output (Btu/h)	Min.	Rated	Max.	
Cooling	15000	47000	48000	
Heating	11000	40000	57200	
HEATING CAPACITY				
Output (Btu/h)	Min.	Rated	Max.	
47°F (8.3°C)	11000	50000	55000	
5°F (-15°C)	14300	46000	46000	
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.)	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 (ft)	
Max. Height Difference		30 (m)	98 (ft)	
Refrigerant Type (oz)		R410A	169.31	
Refrigerant Pre-charge		7.5 (m)	25 (ft)	
Additional Charge per		65 (g/m)	3.5 oz / 5 ft	



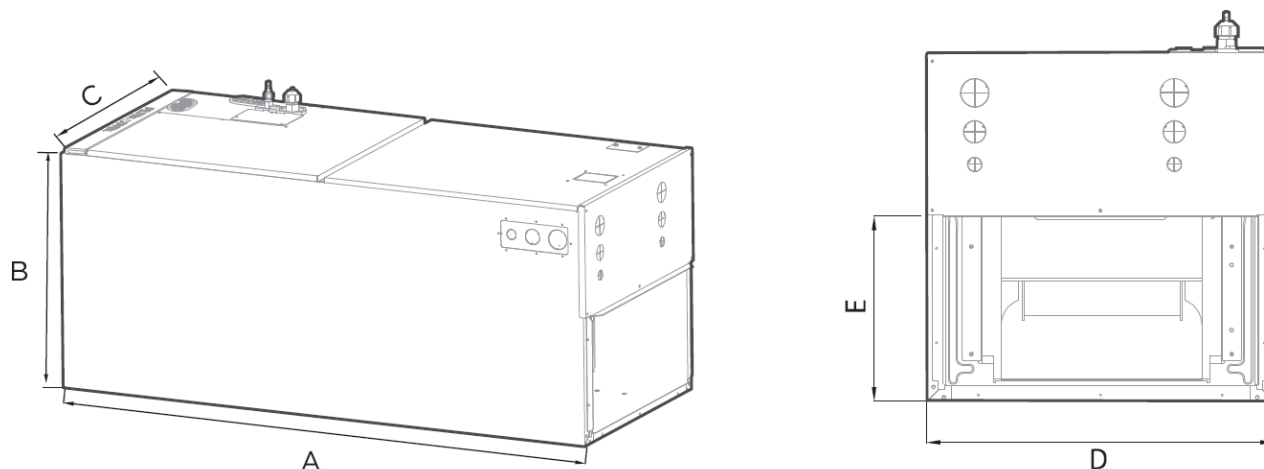
Diagrams are provided for reference only.

EFFICIENCY RATINGS			
SEER 2			16.2
EER 2			10.0
HSPF2-4 (Btu/W)			9.4
HSPF2-5 (Btu/W)			7.7
COP	At 47°F (8.3°C)		At 5°F (-15°C)
	3.16		1.9
POWER & ELECTRICAL SUPPLY			
Power Supply		(V/Ph/Hz)	208-230 / 1 / 60
Voltage Range		(V)	187-253
MCA (A)	42.0	MOP (A) 50.0	
Power Input (W)		Max	
Cooling		5731 (815~5700)	
Heating		4652 (830~5700)	
Current (A)			
Cooling		24.95 (3.54~25.3)	
Heating		21.20 (3.60~26)	

DIMENSIONS			
Indoor	Net (WxDxH; in.)	21.02 x 21.02 x 49.02	
	Gross (WxDxH; in.)	26.6 x 24.4 x 52.6	
	Net Weight lbs kg	130.51	156.31
	Gross Weight lbs kg	59.2	70.9
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	220.24	248.90
	Gross Weight lbs kg	99.9	112.9
FEATURES			
Rotary Inverter Compressor			✓
AIRFLOW & NOISE LEVEL			
Outdoor Airflow (Max) (CFM)			4412
Outdoor Noise Level [dB(A)]			64.0
Dehumidification			4.96

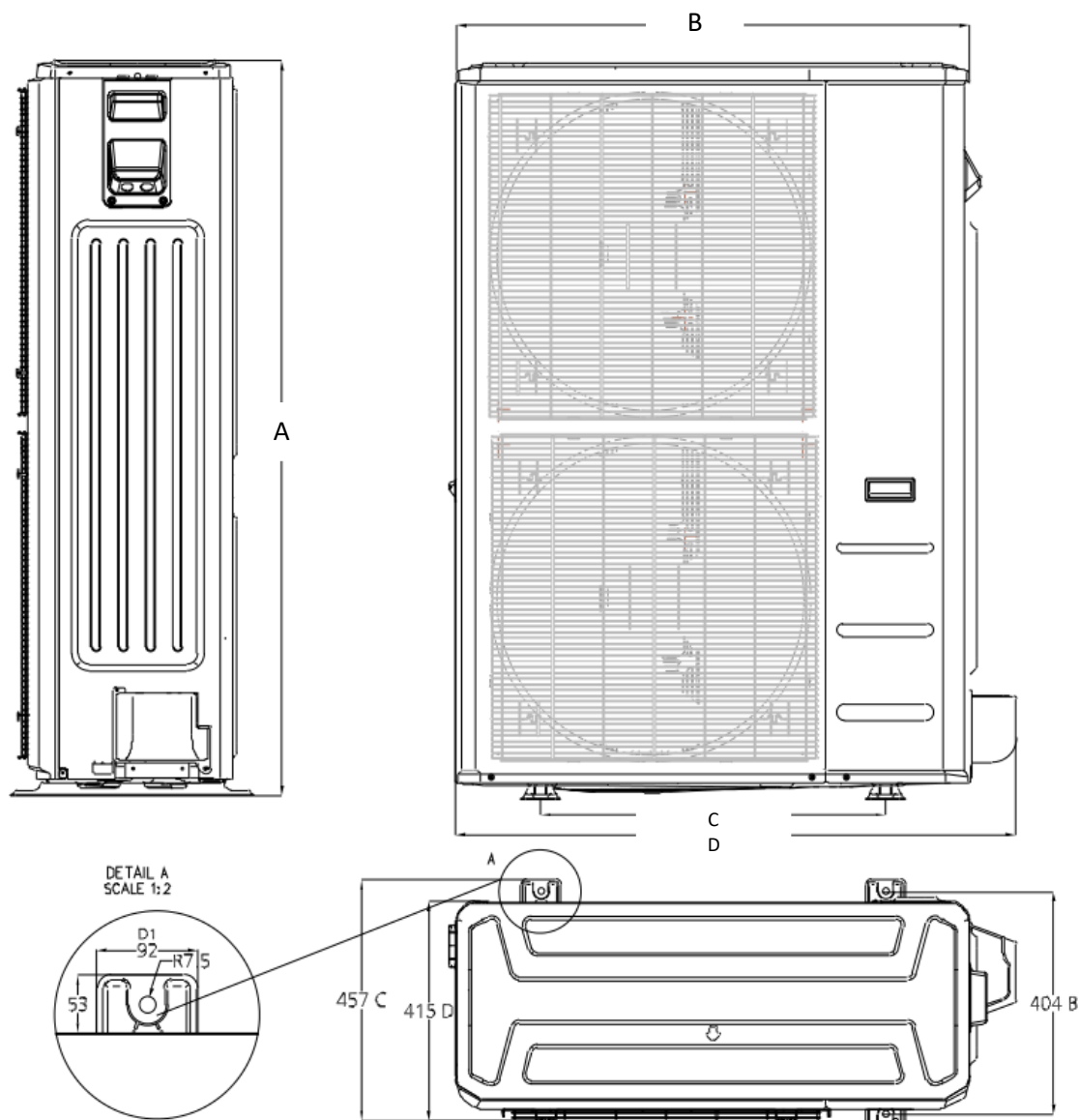
INDOOR UNIT DATA	
Refrigerant Control	EEV
IRV (inch ³)	106.9
Airflow (SCFM)	960
Pressure Drop (Pa)	65.1
(in.wc.)	0.26
OUTDOOR UNIT DATA	
Compressor Type	EAPQ420D1UMUA
Model	ROTARY
Capacity (Btu/h)	44015
Input (W)	2765
Rated current (RLA) (A)	32
Refrigerant oil/oil charge	POE 1460ml
Refrigerant Control	EEV
Outdoor fan motor	
Qty	2
Input (W)	126.0
RLA (A)	1.2
Speed (r/min)	850 / 750 / 650
Accessories	
Adaptor for welding (3/4")	1
Adaptor for welding (3/8")	1

INDOOR UNIT



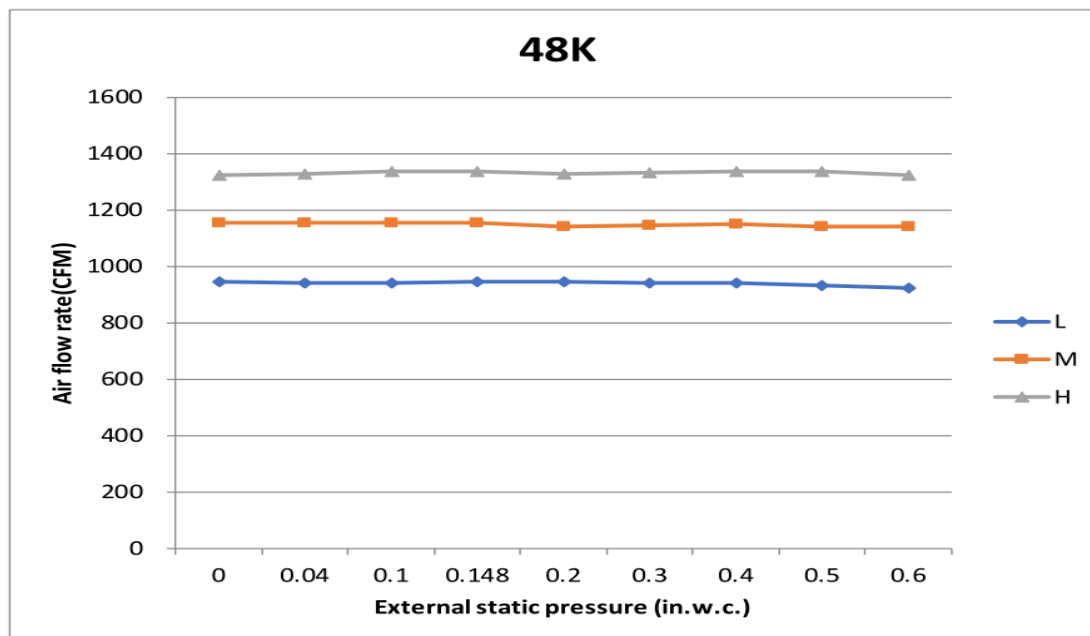
MODEL	Unit	Dimensions (mm)					Drain hole	
		A	B	C	D	E	L1	L2
30k-48k	mm	1245	533	534	490	260	Main drain	Over-flow drain
	inch	49	21	21-1/50	19-5/16	10-1/4		

OUTDOOR UNIT

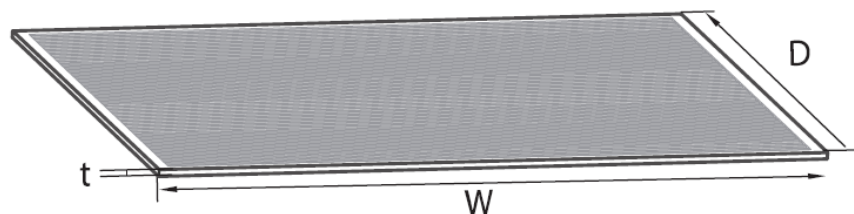


Dimensions	inch	mm
A	51.7	1313
B	35.7	952
C	25.0	634
D	42.7	1045

FAN PERFORMANCE



RECOMMENDED SIZE OF FILTER



MODEL	Unit	Dimensions (mm)		
		W	D	t
30k-48k	mm	495.3	508	25.4
	inch	20	20	1