

SUBMITTAL – 2 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	MOD30-24HFN1-MW		
INDOOR	MVC-24HWFN1-M		
AHRI CERTIFICATION			
211257306		COOLING CAPACITY	
Output (Btu/h)	Min.	Rated	Max.
Cooling	6400	24000	27000
Heating	10100	24000	31000
HEATING CAPACITY			
Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	7,100	24,000	31,000
5°F (-15°C)	6,000	22,600	24,071
TEMPERATURE OPERATING RANGE			
Indoor Cooling	62 ~ 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		50 (m)	164 (ft)
Max. Height Difference		82 (m)	98.4 (ft)
Refrigerant Type (oz)		R410A	102.3
Refrigerant Pre-charge		7.5 (m)	25 (ft)
Additional Charge per		65 (g/m)	3.5 oz / 5 ft



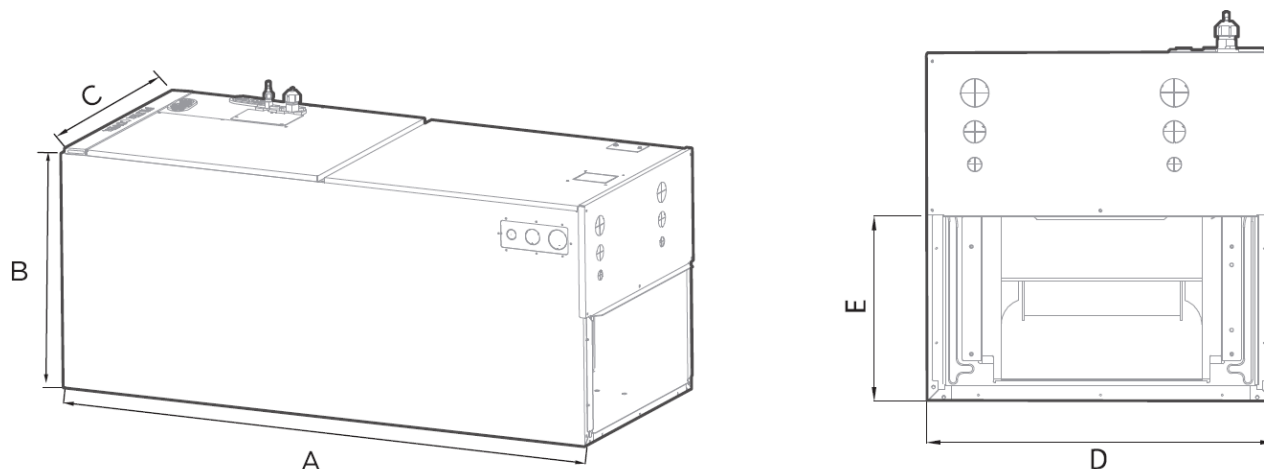
Diagrams are provided for reference only.

EFFICIENCY RATINGS			
SEER 2			17.4
EER 2			11.7
HSPF2-4 (Btu/W)			10.0
HSPF2-5 (Btu/W)			8.0
COP	At 47°F (8.3°C)		At 5°F (-15°C)
	3.35		1.85
POWER & ELECTRICAL SUPPLY			
Power Supply		(V/Ph/Hz)	208-230 / 1 / 60
Voltage Range		(V)	187-253
MCA (A)	20.5	MOP (A) 35.0	
Power Input (W)		Max	
Cooling		2050 (740~2450)	
Heating		2100 (660~2900)	
Current (A)			
Cooling		9.1 (5.3~11)	
Heating		9.3 (4.87~12.90)	

DIMENSIONS			
Indoor	Net (WxDxH; in.)	21.02 x 17.52 x 45.00	
	Gross (WxDxH; in.)	26.6 x 20.9 x 48.6	
	Net Weight lbs kg	105.60	127.43
	Gross Weight lbs kg	47.9	57.8
Outdoor	Net (WxDxH; in.)	37.24 x 16.14 x 31.89	
	Gross (WxDxH; in.)	42.9 x 19.7 x 34.9	
	Net Weight lbs kg	136.69	145.50
	Gross Weight lbs kg	62	66
FEATURES			
Rotary Inverter Compressor			✓
AIRFLOW & NOISE LEVEL			
Outdoor Airflow (Max) (CFM)			3000.0
Outdoor Noise Level [dB(A)]			62.0
Dehumidification			1.98

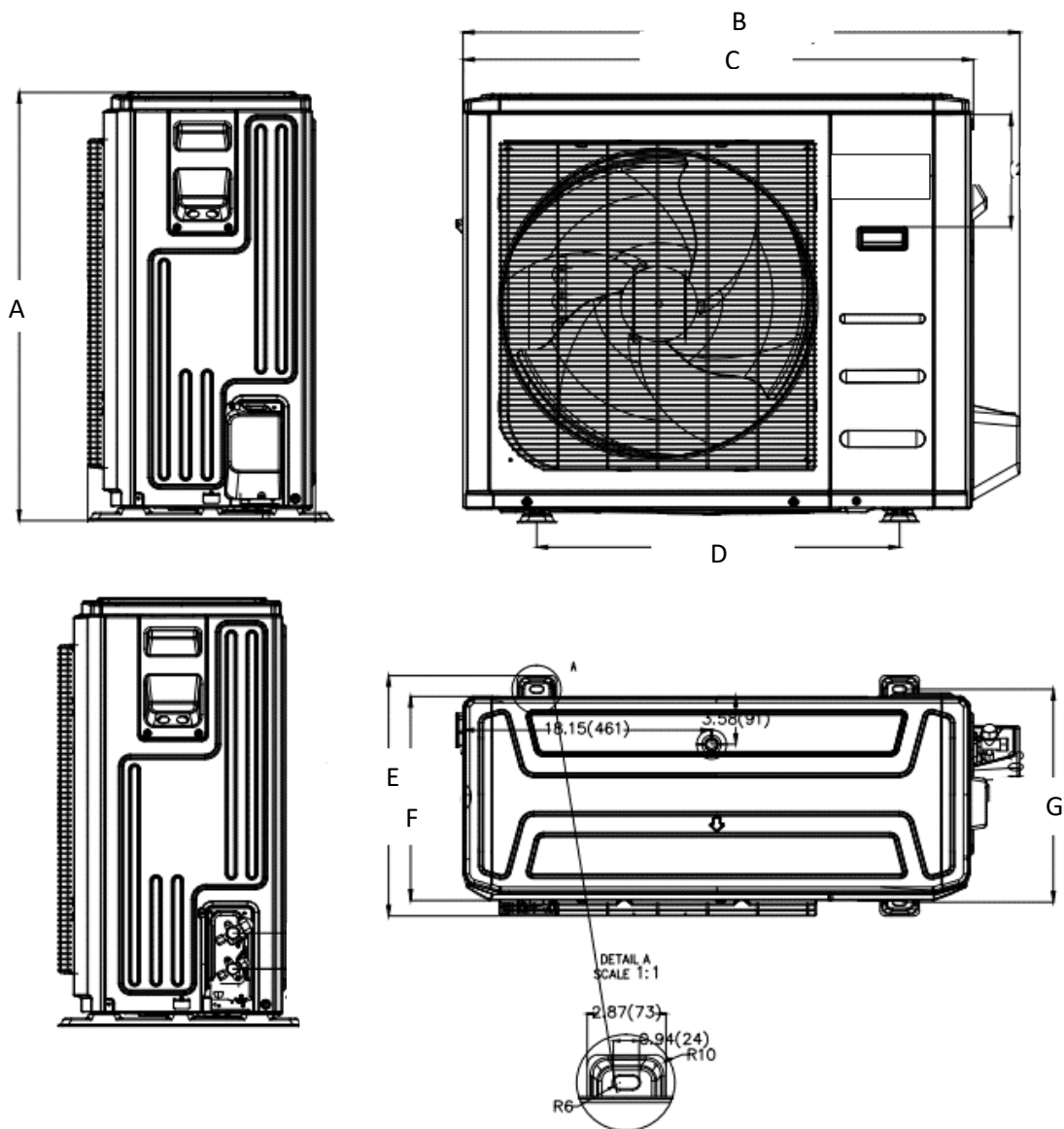
INDOOR UNIT DATA	
Refrigerant Control	TXV for Cooling
IRV (inch ³)	106.9
Airflow (SCFM)	960
Pressure Drop (Pa)	65.1
(in.wc.)	0.26
OUTDOOR UNIT DATA	
Compressor Type	KTM240D57UMT
Model	Twin-ROTARY
Capacity (Btu/h)	26409
Input (W)	2085
Rated current (RLA) (A)	15
Refrigerant oil/oil charge	POE 670ml
Refrigerant Control	EEV
Outdoor fan motor	
Qty	1
Input (W)	150.0
RLA (A)	3.0
Speed (r/min)	950 / 700 / 500 / 400
Accessories	
Adaptor for welding (3/4")	1
Adaptor for welding (3/8")	1

INDOOR UNIT



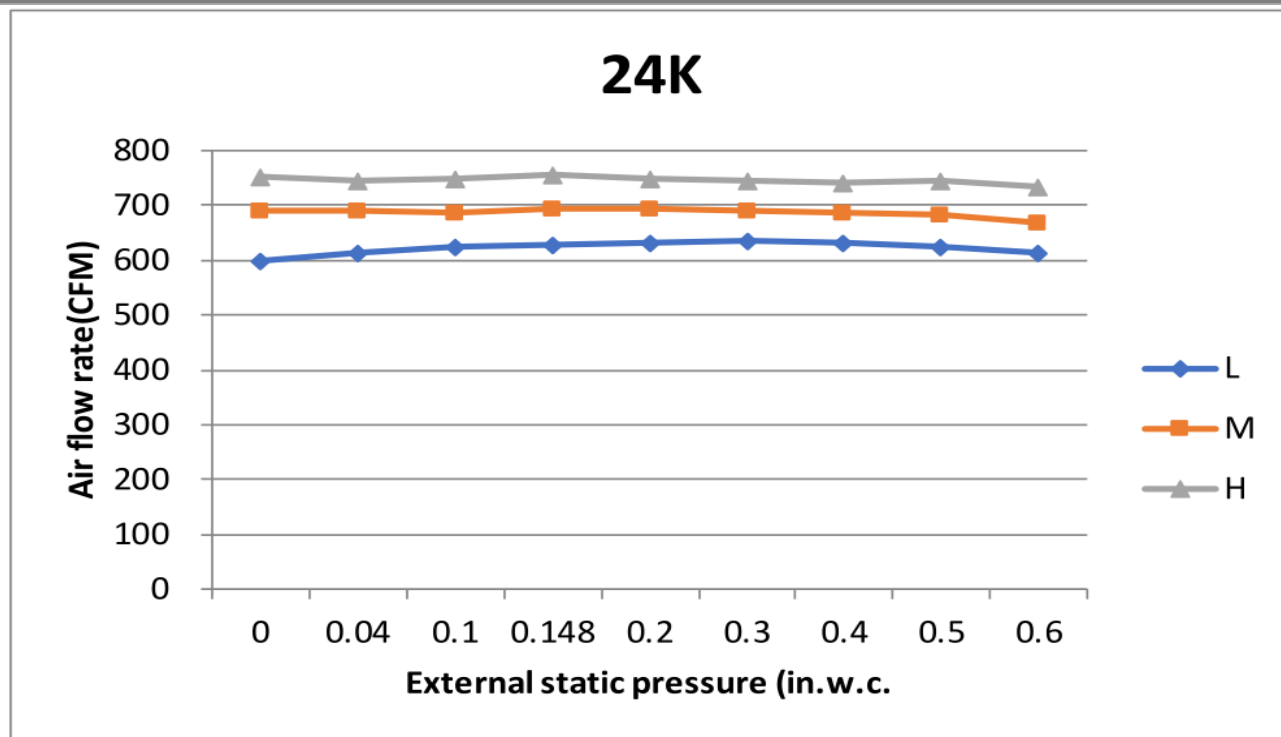
MODEL	Unit	Dimensions (mm)					Drain hole	
		A	B	C	D	E	L1	L2
18k-24k	mm	1143	533	445	400	260	Main drain	Over-flow drain
	inch	45	21	17-1/2	15-3/4	10-1/4		

OUTDOOR UNIT

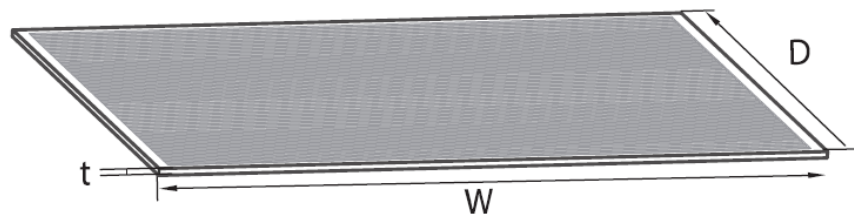


Dimensions	inch	mm
A	31.9	810
B	40.6	1030
C	37.2	946
D	26.5	673
E	17.9	455
F	15.2	386
G	15.9	403

FAN PERFORMANCE



RECOMMENDED SIZE OF FILTER



MODEL	Unit	Dimensions (mm)		
		W	D	t
18k-24k	mm	406.4	508	25.4
	inch	16	20	1