

SUBMITTAL – 2.5 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	MOD30U-30HFN1-MR0(X)		
INDOOR	MVC-30HWFN1-M		
AHRI CERTIFICATION			
211257307			
COOLING CAPACITY			
Output (Btu/h)	Min.	Rated	Max.
Cooling	10000	30000	33600
Heating	11500	33000	37000
HEATING CAPACITY			
Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	8500	33000	37000
5°F (-15°C)	7600	24000	25757
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)	76.4 (ft)
Max. Height Difference		25 (m)	82 (ft)
Refrigerant Type (oz)		R410A	134.04
Refrigerant Pre-charge		7.5 (m)	25 (ft)
Additional Charge per		65 (g/m)	3.5 oz / 5 ft



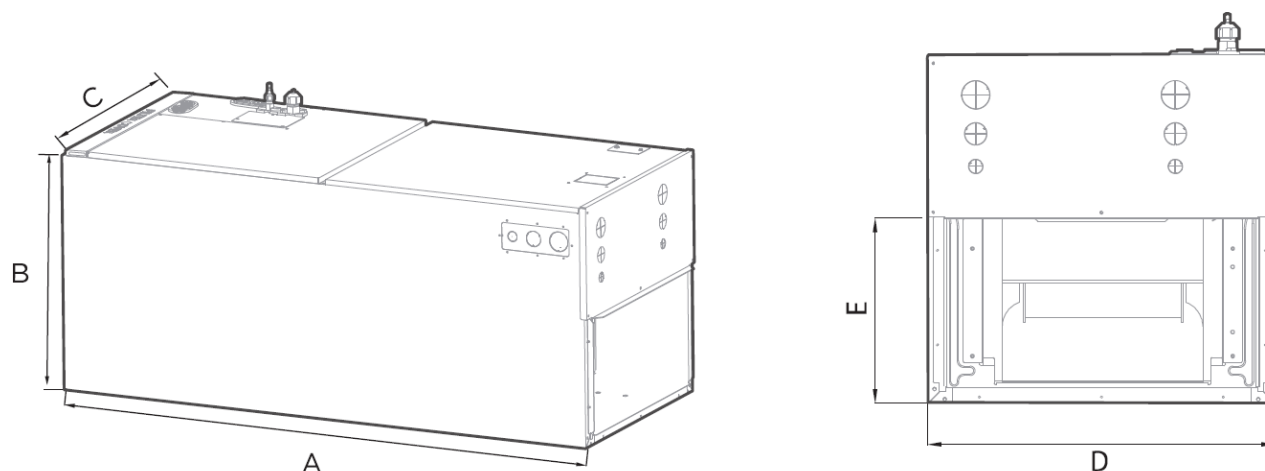
Diagrams are provided for reference only.

EFFICIENCY RATINGS			
SEER 2			16.2
EER 2			10.0
HSPF2-4 (Btu/W)			8.9
HSPF2-5 (Btu/W)			7.0
COP	At 47°F (8.3°C)		At 5°F (-15°C)
	2.93		1.8
POWER & ELECTRICAL SUPPLY			
Power Supply		(V/Ph/Hz)	208-230 / 1 / 60
Voltage Range		(V)	187-253
MCA (A)	23.0	MOP (A) 35.0	
Power Input (W)		Max	
Cooling		3060 (370~3360)	
Heating		2930 (550~3250)	
Current (A)			
Cooling		13.2 (2.9~15)	
Heating		13.3 (4.0~14.6)	

DIMENSIONS			
Indoor	Net (WxDxH; in.)	21.02 x 21.02 x 49.02	
	Gross (WxDxH; in.)	26.6 x 20.9 x 48.6	
	Net Weight lbs kg	129.19	155.64
	Gross Weight lbs kg	58.6	70.6
Outdoor	Net (WxDxH; in.)	37.2 x 16.1 x 31.8	
	Gross (WxDxH; in.)	42.9 x 19.6 x 34.9	
	Net Weight lbs kg	159.6	169.8
	Gross Weight lbs kg	72.5	77
FEATURES			
Rotary Inverter Compressor			✓
AIRFLOW & NOISE LEVEL			
Outdoor Airflow (Max) (CFM)			3000.0
Outdoor Noise Level [dB(A)]			60.5
Dehumidification			3.41

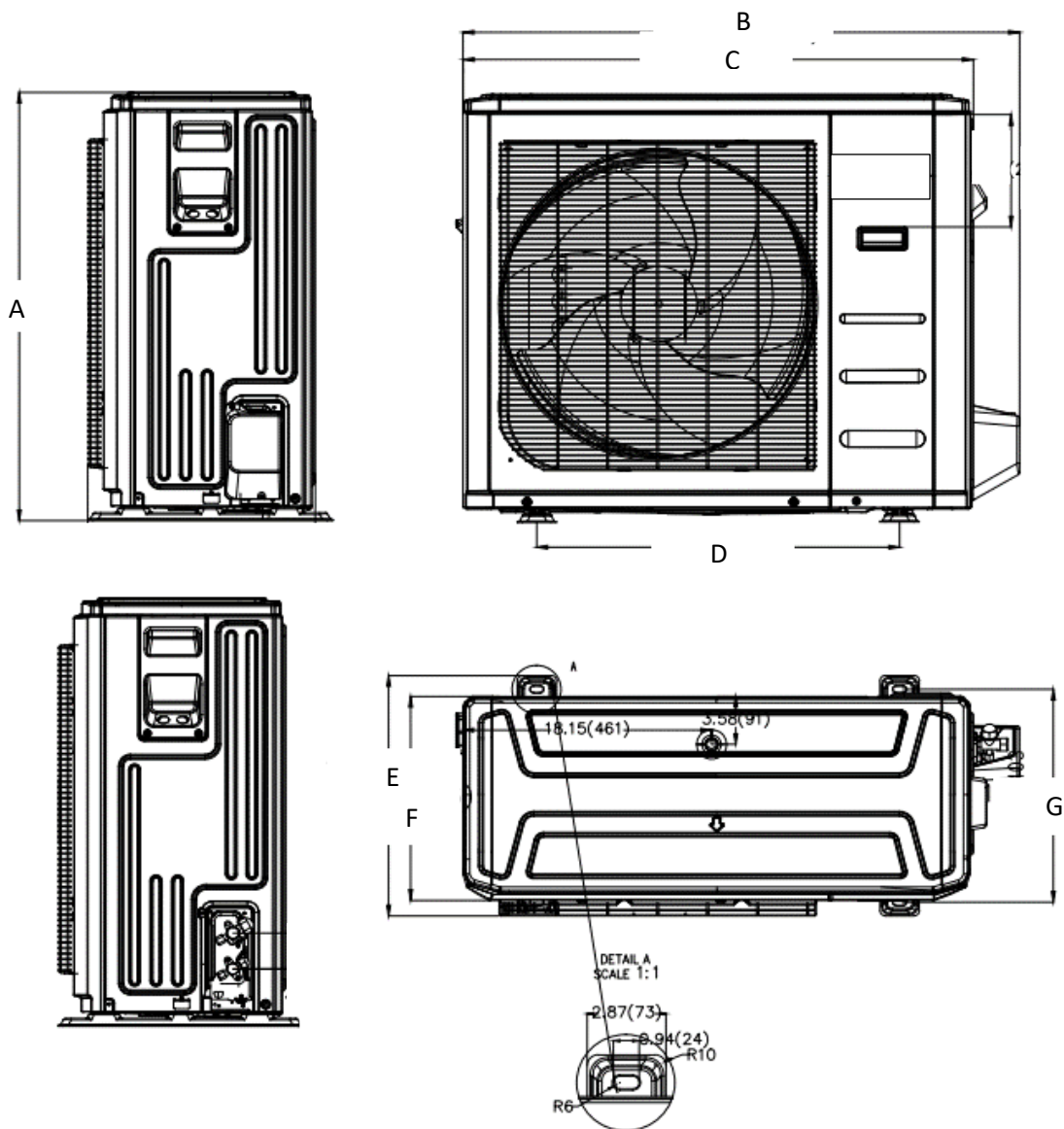
INDOOR UNIT DATA	
Refrigerant Control	EEV
IRV (inch ³)	106.9
Airflow (SCFM)	960
Pressure Drop (Pa)	65.1
(in.wc.)	0.26
OUTDOOR UNIT DATA	
Compressor Type	KTF310D43UMT
Model	ROTARY
Capacity (Btu/h)	34154
Input (W)	2765
Rated current (RLA) (A)	16.5
Refrigerant oil/oil charge	POE 1000ml
Refrigerant Control	EEV
Outdoor fan motor	
Qty	1
Input (W)	150.0
RLA (A)	1.4
Speed (r/min)	950 / 900 / 500
Accessories	
Adaptor for welding (3/4")	1
Adaptor for welding (3/8")	1

INDOOR UNIT



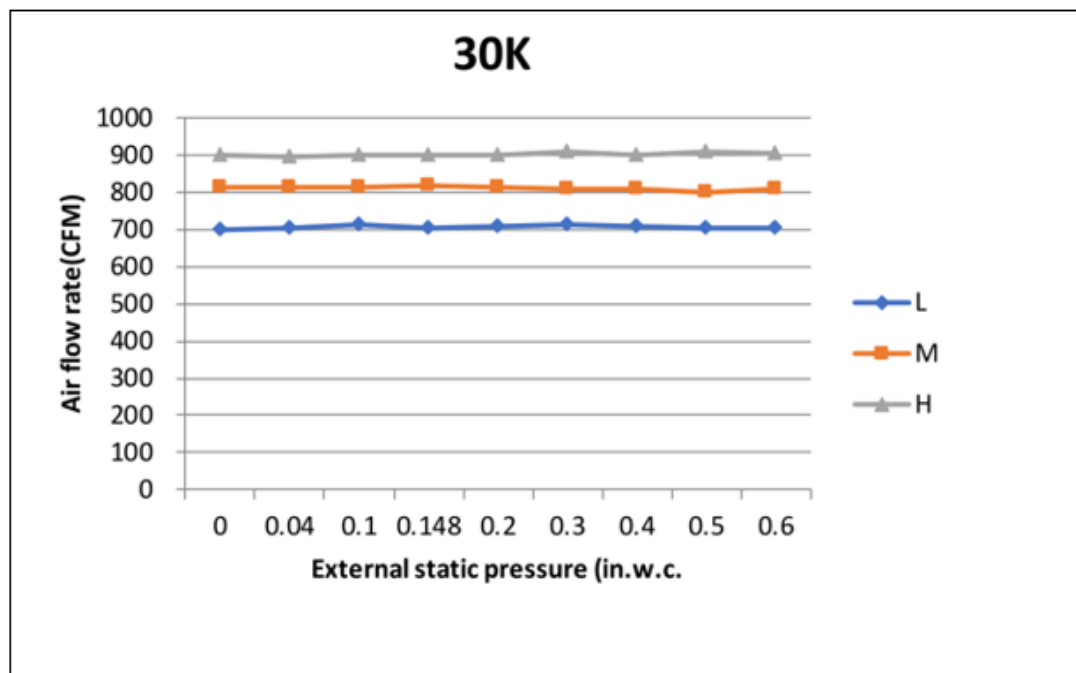
MODEL	Unit	Dimensions (mm)					Drain hole	
		A	B	C	D	E	L1	L2
30k-48k	mm	1245	533	534	490	260	Main drain	Over-flow drain
	inch	49	21	21-1/50	19-5/16	10-1/4		

OUTDOOR UNIT

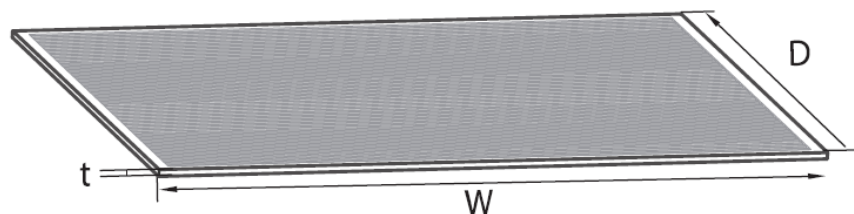


Dimensions	inch	mm
A	31.9	810
B	40.6	1030
C	37.2	946
D	26.5	673
E	17.9	455
F	15.2	386
G	15.9	403

FAN PERFORMANCE



RECOMMENDED SIZE OF FILTER



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