

SUBMITTAL – 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	MOE30U-55HFN1-M		
INDOOR	MVC-60HWFN1-M		
AHRI CERTIFICATION			
211257310			
COOLING CAPACITY			
Output (Btu/h)	Min.	Rated	Max.
Cooling	14000	55000	56000
Heating	13400	59000	69000
HEATING CAPACITY			
Output (Btu/h)	Min.	Rated	Max.
47°F (8.3°C)	13,400	59,000	69,000
5°F (-15°C)	15,100	48,500	54,356
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.)	7/8"
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



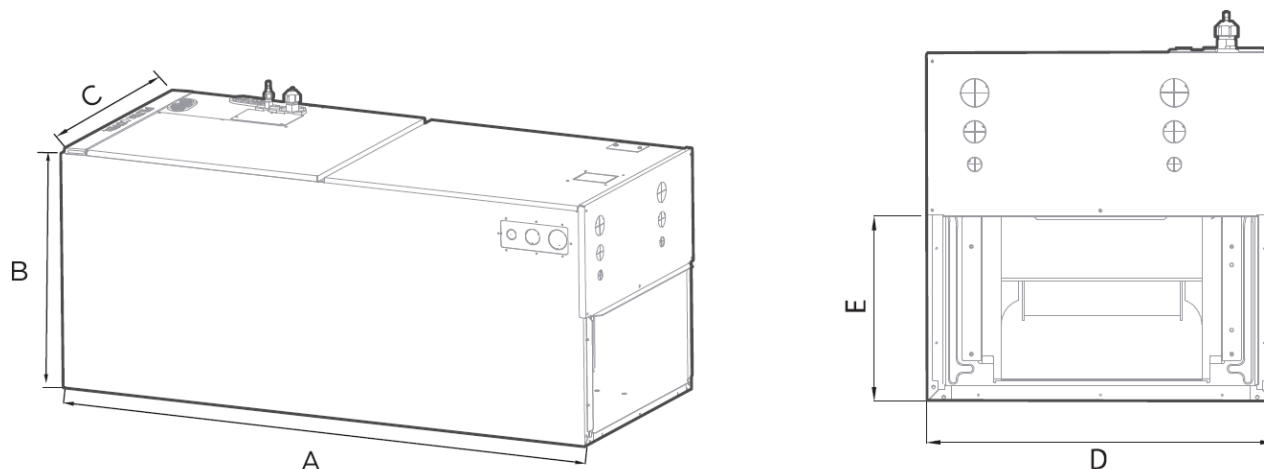
Diagrams are provided for reference only.

EFFICIENCY RATINGS			
SEER 2			15.3
EER 2			8.8
HSPF2-4 (Btu/W)			9.4
HSPF2-5 (Btu/W)			7.6
COP	At 47°F (8.3°C)		At 5°F (-15°C)
	3.42		1.91
POWER & ELECTRICAL SUPPLY			
Power Supply		(V/Ph/Hz)	208-230 / 1 / 60
Voltage Range		(V)	187-253
MCA (A)	42.0	MOP (A) 60.0	
Power Input (W)		Max	
Cooling		6280 (500~6450)	
Heating		5060 (750~5890)	
Current (A)			
Cooling		27.4 (3.9~28.5)	
Heating		22 (5.5~26.2)	

DIMENSIONS			
Indoor	Net (WxDxH; in.)	21.0 x 24.5 x 53.0	
	Gross (WxDxH; in.)	28.0 x 26.8 x 56.5	
	Net Weight lbs kg	162.70	192.90
	Gross Weight lbs kg	73.8	87.5
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	239.86	271.61
	Gross Weight lbs kg	108.8	123.2
FEATURES			
Rotary Inverter Compressor			✓
AIRFLOW & NOISE LEVEL			
Outdoor Airflow (Max) (CFM)			4500
Outdoor Noise Level [dB(A)]			63.5
Dehumidification			5.55

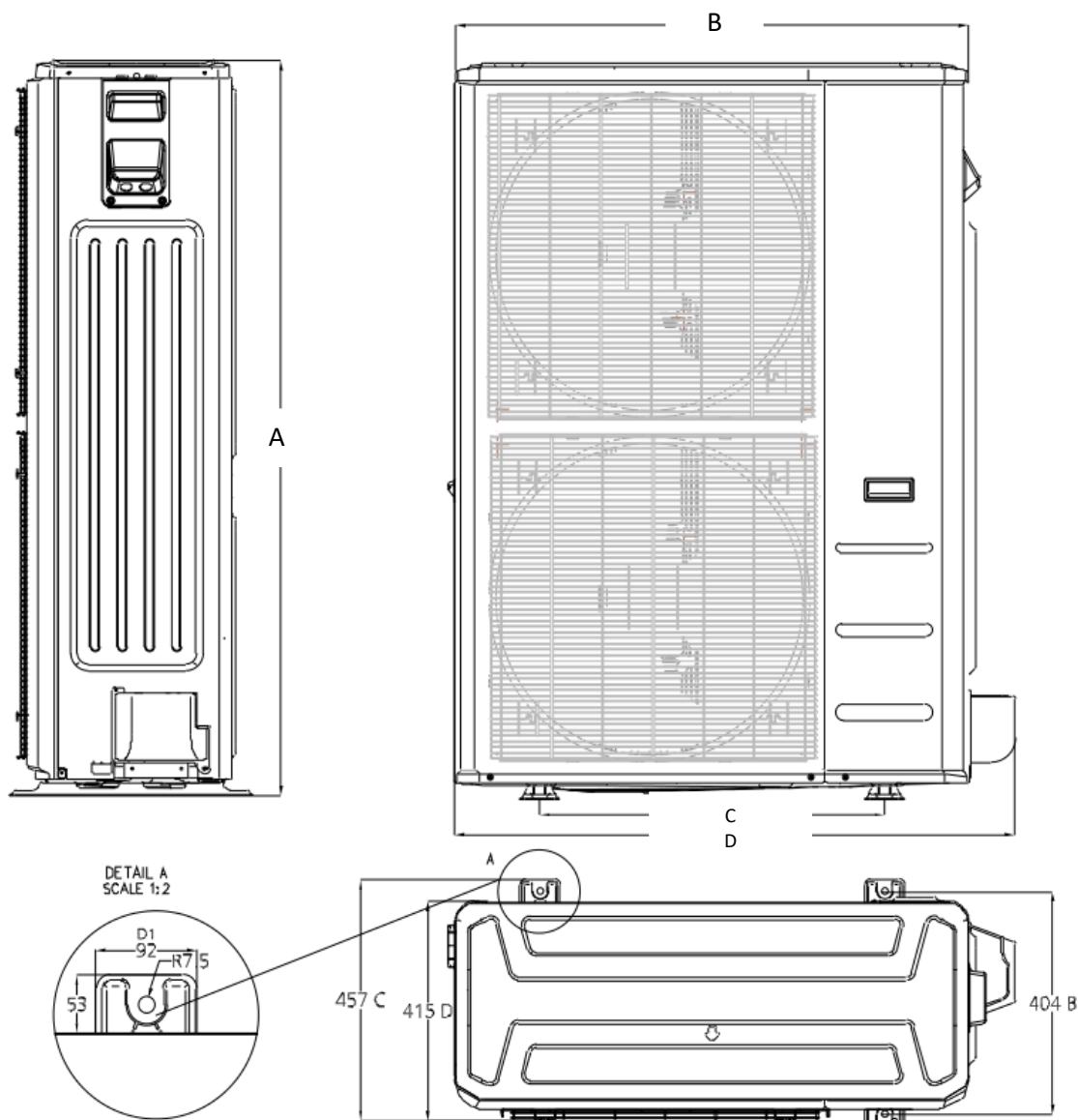
INDOOR UNIT DATA	
Refrigerant Control	EEV
IRV (inch ³)	106.9
Airflow (SCFM)	960
Pressure Drop (Pa)	65.1
(in.wc.)	0.26
OUTDOOR UNIT DATA	
Compressor Type	EAPQ440D1UMUA
Model	ROTARY
Capacity (Btu/h)	46335
Input (W)	3770
Rated current (RLA) (A)	26.2
Refrigerant oil/oil charge	POE 1300ml
Refrigerant Control	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



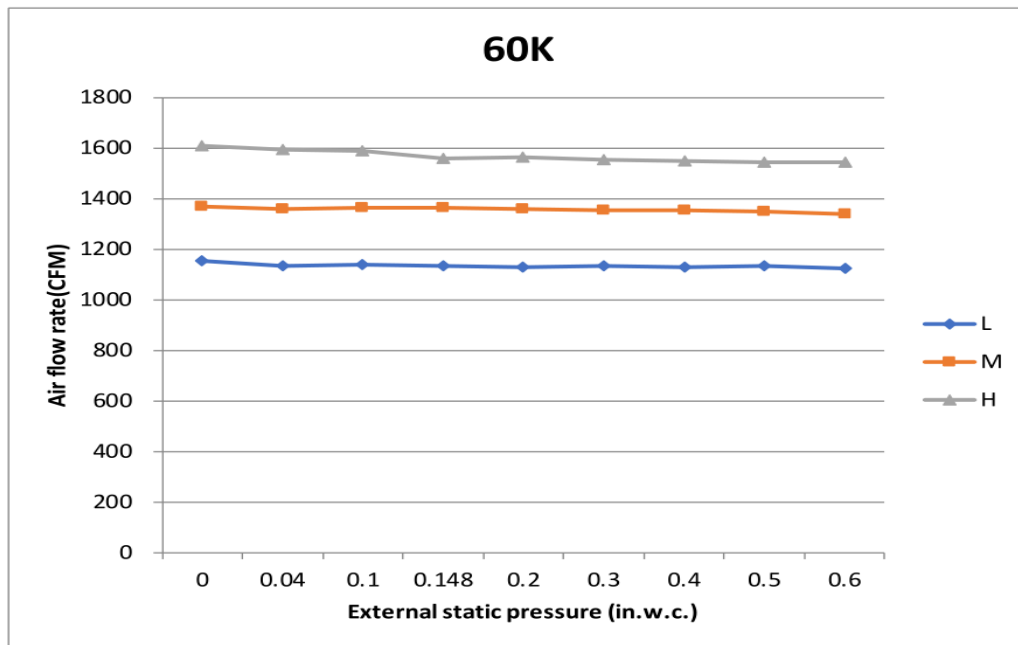
MODEL	Unit	Dimensions (mm)					Drain hole	
		A	B	C	D	E	L1	L2
60k	mm	1346	533	622	580	260	Main drain	Over-flow drain
	inch	53	21	24-1/2	22-27/32	10-1/4		

OUTDOOR UNIT

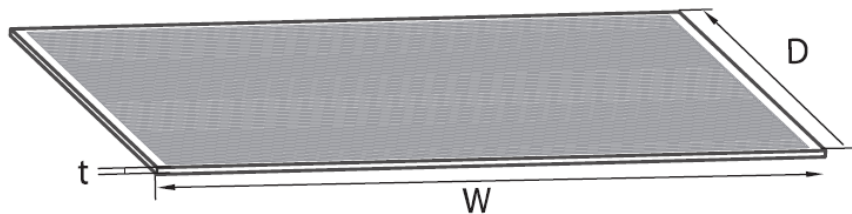


Dimensions	inch	mm
A	51.7	1313
B	35.7	952
C	25.0	634
D	42.7	1045

FAN PERFORMANCE



RECOMMENDED SIZE OF FILTER



MODEL	Unit	Dimensions (mm)		
		W	D	t
60k	mm	584.2	508	25.4
	inch	23	20	1