



Submittal Data

Submittal Data Model : **MVC-48HWFN1-M / MOE30U-48HFN1-M-[X1]**
(2nd Gen) AHU INDOOR WITH SIDE-DISCHARGE CONDENSING UNIT (HYPER HEAT)

Job Name:

Location:

Date:

Purchaser:

Engineer:

Submitted to:

For:

Review:

Approval:



SYSTEM PERFORMANCE DATA

Power supply			
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60	
Voltage Range	(V)	187-253	
Electrical			
Minimum circuit ampacity	(A)	42	
Max.fuse	(A)	50	
Connection wiring		14AWG*2 Stranded, shielded	
Cooling			
Rated Capacity	(Btu/h)	47000	
Capacity Range	(Btu/h)	18000~48000	
Power Input	(W)	5530	
Rated current	(A)	24.2	
SEER	(Btu/W)	16	
EER	(Btu/W)	8.5	
Heating at 47F			
Rated Capacity	(Btu/h)	50000	
Capacity Range	(Btu/h)	20000~55000	
Power Input	(W)	4880	
Rated current	(A)	21.5	
HSPF4	(Btu/W)	10	
HSPF5	(Btu/W)	8.5	
COP	W/W	3.00	

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	EEV for cooling
	Outdoor unit	EEV for heating
Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/169.31
Refrigerant precharge	(ft)	25.0
	(m)	7.5
Additional charge for each	(oz/ft)	0.69
	(g/m)	65
Liquid side/ Gas side	(inch)	3/8" / 3/4"
	(mm)	9.52/19
Max. pipe length	(ft)	213.0
	(m)	65
Max. difference in level	(ft)	98.0
	(m)	30
Connection method		Flared
Indoor(cooling/ heating)	(Deg. °F)	60~90/32~86
	(Deg. °C)	16~32/0~30
Outdoor(cooling/heating)	(Deg. °F)	-30~122/-30~75
	(Deg. °C)	-30~50/-30~24
Application area	(sq.ft)	688.89 ~ 1011.81
	(m2)	64 ~ 94

INDOOR UNIT DATA

Indoor fan motor			
Type		Centrifugal	
Model		ZKFD-560-8-1	
Qty		1	
Input	(W)	235.0	
RLA	(A)	---	
LRA	(A)	---	
Winding Resistance	(Ω)	---	
Capacitor	(uF)	---	
Speed(Hi/Mi/Lo)	(r/min)	-	
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo)	(CFM)	1282.35/1094.12/905.88	
Indoor noise level (Hi/Mec)	[dB(A)]	53/50/46	
Dehumidification			
	(Pint/H)	---	
Indoor unit			
Dimension (WxDxH)	(inch)	21.02x21.02x49.02	
	(mm)	534x534x1245	
Packing(WxDxH)	(inch)	25.20x24.41x54.33	
	(mm)	640x620x1380	
Net/Gross weight	(lbs.)	59.2/70.9	
	(kg)	130.51/156.31	

OUTDOOR UNIT DATA

Compressor			
Type		ROTARY	
Model		EAPQ420D1UMUA	
Brand		GMCC	
Capacity	(Btu/h)	44015	
Input	(W)	3565	
Rated current (RLA)	(A)	-	
Refrigerant oil/oil charge	(ml)	±15ml ESTER OIL VG74	
Outdoor fan motor			
Model		ZKFN-85-8-22-5	
Qty		2	
Input	(W)	126.0	
RLA	(A)	--	
Speed	(r/min)	850/750/650	
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)	4411.76	
Outdoor noise level	[dB(A)]	61	
Outdoor unit			
Dimension (WxDxH)	(inch)	37.48x16.34x52.48	
	(mm)	952x415x1333	
Packing (WxDxH)	(inch)	43.11x19.49x58.27	
	(mm)	1095x495x1480	
Net/ Gross weight	(lbs.)	220.24/248.90	
	(kg)	99.9/112.9	

COMPATIBILITY:

SINGLE ZONE INDOOR SYSTEM:

MVC-48HWFN1-M

Or any replacement market brand
A-coil Or Air handler

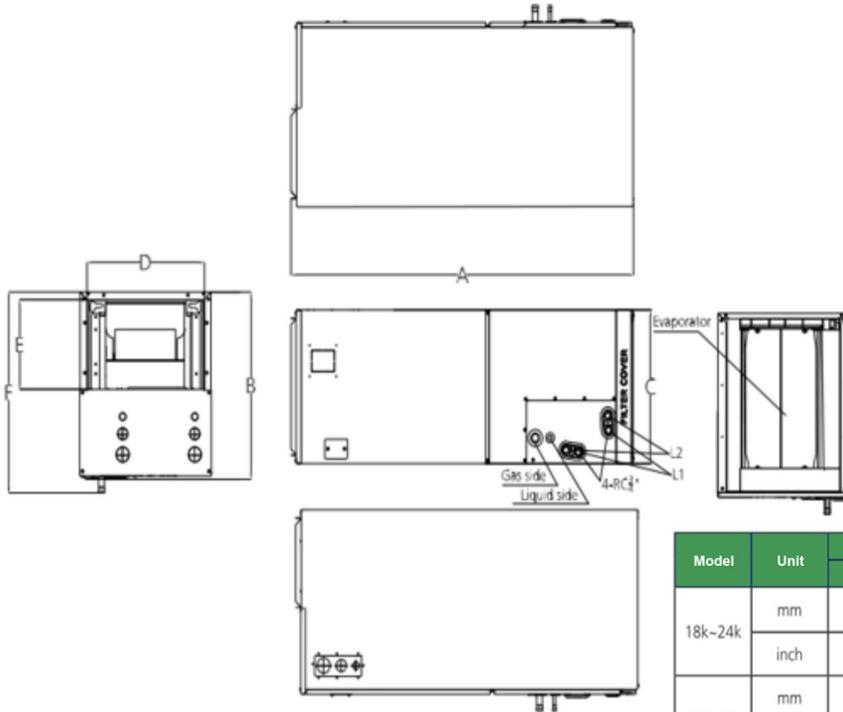
SINGLE ZONE OUTDOOR SYSTEM:

MOE30U-48HFN1-M-[X1]

Or any replacement market brand
A-coil Or Air handler

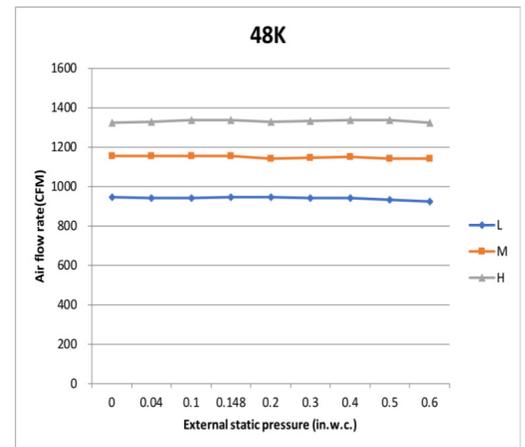
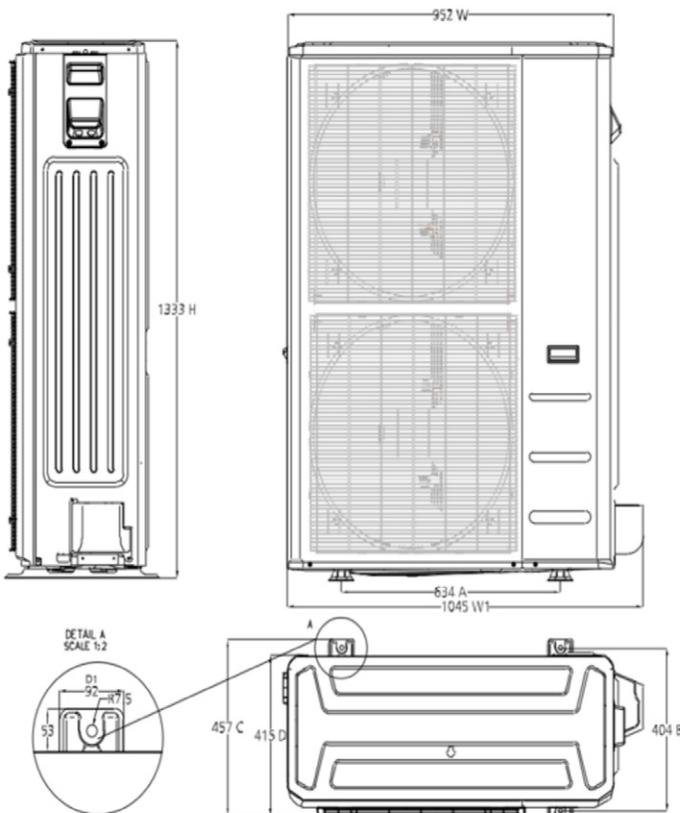


INDOOR UNIT DIMENSION:



Model	Unit	Dimensions(mm)						Drain Hole	
		A	B	C	D	E	F	L1	L2
18k-24k	mm	1143	534	445	400	260	585	Main drain	Overflow drain
	inch	45	21	17-1/2	15-3/4	10-1/4	23		
30k-48k	mm	1245	534	534	490	260	585		
	inch	49	21	21	19-5/16	10-1/4	23		
60k	mm	1346	534	622	580	260	585		
	inch	53	21	24-1/2	22-7/8	10-1/4	23		

OUTDOOR UNIT DIMENSION:





GENERAL FEATURES:

INDOOR

- This air handler is capable of upflow, downflow, horizontal left, or horizontal right configurations.
- Modes: Cool, Heat, Dry, Fan, Auto
- All-aluminum evaporator coil
- Quiet indoor operation
- Cabinet air leakage less than 2%
- Multi Control Ways : Remote controller, wired control, Wi-Fi control, 24V 3rd party Thermostat
- Insulation covers the internal casing to reduce cabinet condensation
- Tool-less filter access. Washable filter. Size: 20" x 17"
- Easy maintenance: Check point button. Press this button to check current operational parameters. Status and error display
- Easy installation for new construction or retrofit application. Compatible with most of other brands condenser

OUTDOOR

- Variable Speed (Inverter) Compressor
- Base Pan Heater melt down the snow and ice
- Aluminum Hydrophilic pre-coated fins
- Piping length 213 ft. (65 m)
- 24V Thermostat Compatible
- Easy installation for new construction or retrofit application. Compatible with most of other brands air handler or A-coil. No additional 24 volt interface module needed
- Quiet outdoor operation



208130406