



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 Outdoor unit	EEV for cooling 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

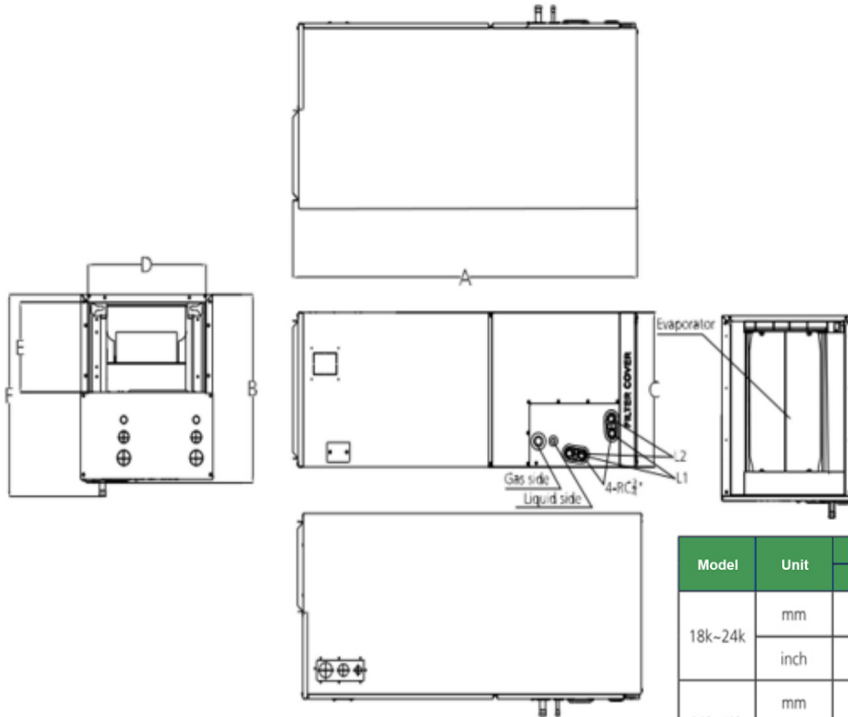
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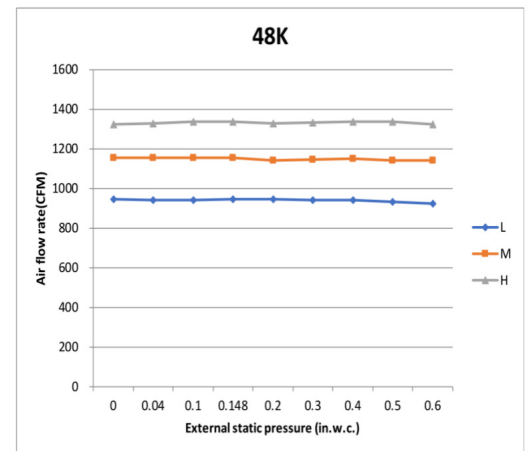
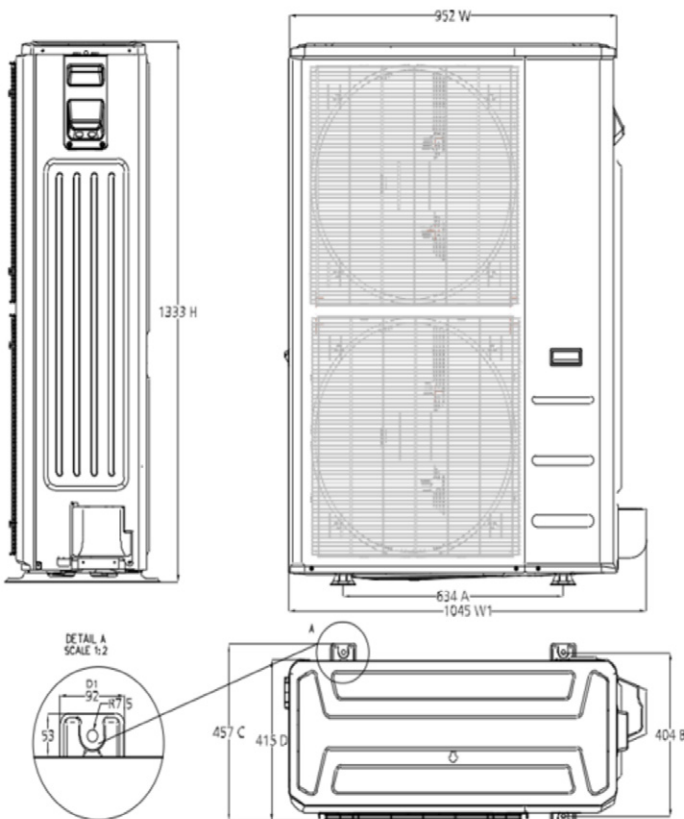


INDOOR UNIT DIMENSION:



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



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