



Submittal Data

Submittal Data Model : **MVC-24HWFN1-M / MOD30-24HFN1-MW**
(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)		20.5
Max.fuse (A)		35
Connection wiring		14AWG*2 Stranded, shielded
Cooling		
Rated Capacity (Btu/h)		24000
Capacity Range (Btu/h)		6400~27000
Power Input (W)		1920
Rated current (A)		9.40
SEER (Btu/W)		20
EER (Btu/W)		12.50
Heating at 47F		
Rated Capacity (Btu/h)		24000
Capacity Range (Btu/h)		10100~31000
Power Input (W)		2040
Rated current (A)		9.13
HSPF4 (Btu/W)		12
HSPF5 (Btu/W)		10
COP		3.45
REFRIGERANT PIPE DATA		
Throttle type	Indoor unit Outdoor unit	EEV for cooling EEV for heating
Design pressure (PSIG)		550/340
Refrigerant Type (Oz)		R410A/102.32
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)		164.0
	(m)	50
Max. difference in level (ft)		82.0
	(m)	25
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)		344.44 ~ 505.90
	(m2)	32 ~ 47

INDOOR UNIT DATA		
Indoor fan motor		
Type	Centrifugal	
Model	ZKFD-250-8-1	
Qty	1	
Input (W)	67.8	
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)	758.82/694.12/629.41	
Indoor noise level (Hi/Mec) [dB(A)]	43/40.5/35	
Dehumidification (Pint/H)		

Indoor unit		
Dimension (WxDxH) (inch)	21.02x17.52x45.00	
	(mm)	534x445x1143
Packing(WxDxH) (inch)	25.20x20.87x50.39	
	(mm)	640x530x1280
Net/Gross weight (lbs.)	47.9/57.8	
	(kg)	105.60/127.43
OUTDOOR UNIT DATA		
Compressor		
Type	Twin-ROTARY	
Model	KTM240D57UMT	
Brand	GMCC	
Capacity (Btu/h)	24686	
Input (W)	1945	
Rated current (RLA) (A)	-	
Refrigerant oil/oil charge (ml)	VG74/670	
Outdoor fan motor		
Model	ZKFN-120-8-2	
Qty	1	
Input (W)	150.0	
RLA (A)	---	
Speed (r/min)	950/700/500/400	
Air flow & Noise level		
Outdoor air flow (Max.) (CFM)	3000.00	
Outdoor noise level [dB(A)]	54	
Outdoor unit		
Dimension (WxDxH) (inch)	37.24x16.14x31.89	
	(mm)	946x410x810
Packing (WxDxH) (inch)	42.91x19.69x34.84	
	(mm)	1090x500x885
Net/ Gross weight (lbs.)	136.69/145.50	
	(kg)	62/66

COMPATIBILITY:

SINGLE ZONE INDOOR SYSTEM:

MVC-24HWFN1-M

Or any replacement market brand
A-coil Or Air handler

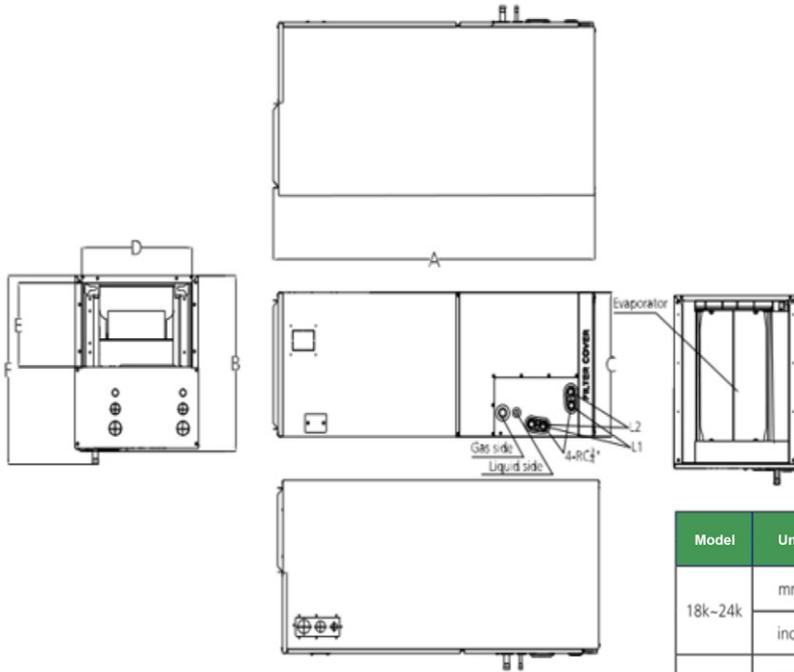
SINGLE ZONE OUTDOOR SYSTEM:

MOD30-24HFN1-MW

Or any replacement market brand
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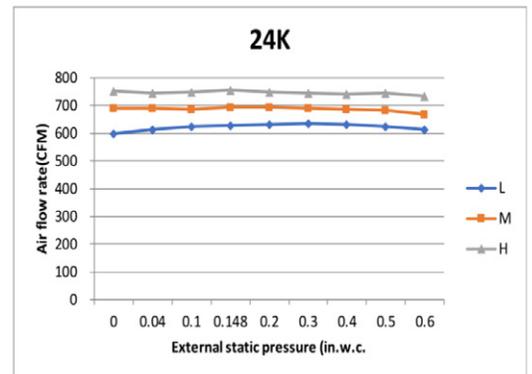
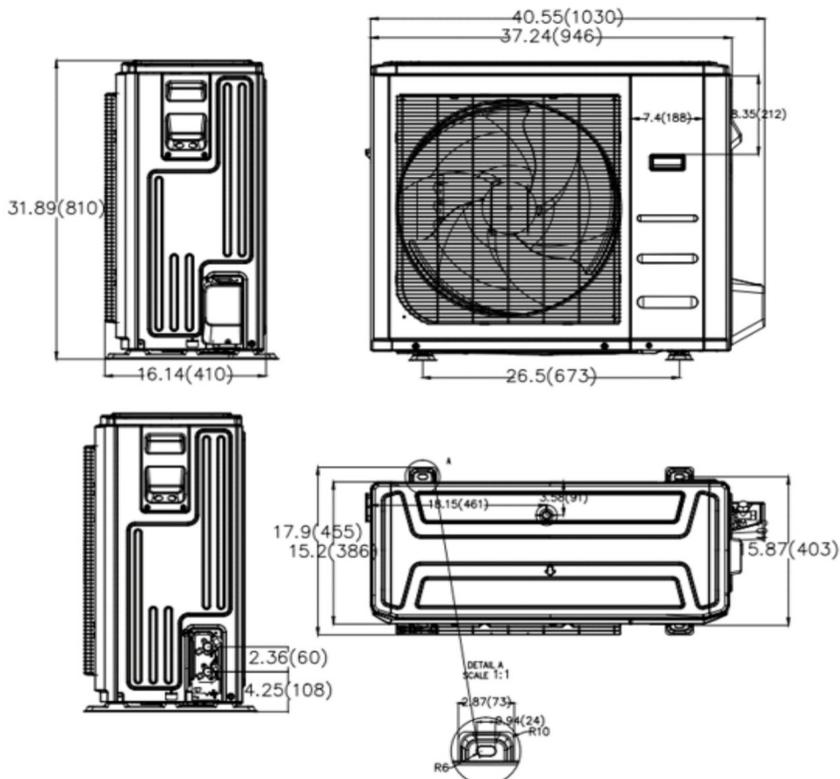


INDOOR UNIT DIMENSION:



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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