



Submittal Data

Submittal Data Model: **MVC-23HWFN1-M / MOD33-24HFN1-MTOW**

Job Name: _____ Location: _____ Date: _____
 Purchaser: _____ Engineer: _____ Review: Approval:
 Submitted to: _____ For: _____



SYSTEM PERFORMANCE DATA

Power supply		
Normal Operational Voltage	(V, Ph, Hz)	208/230V, 1Ph, 60Hz
Voltage Range	(V)	187-253
Electrical		
Minimum circuit ampacity(Outdoor)	(A)	23.0
Max.fuse(Outdoor)	(A)	30.0
Connection wiring		14AWG*4
Cooling		
Capacity	(Btu/h)	24000(9600-28000)
Power Input	(W)	2062(466-2700)
Current	(A)	8.92(2.98-11.8)
SEER2	(Btu/W)	18.0
EER2	(Btu/W)	11.7
Heating		
Capacity	(Btu/h)	25000(8600-27000)
Power Input	(W)	2136(594-2850)
Current	(A)	9.10(3.73-12.5)
HSPF2-4	(Btu/W)	8.1
HSPF2-5	(Btu/W)	6.5
COP	W/W	3.43
Heat at 17F(H32)	(Btu/h)	17000
Heat at 5F(H42)	(Btu/h)	14000
COP at 5F(H42)	W/W	1.90

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV+Throttle valve
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	82.89
	(ft)	25.0
Refrigerant precharge	(m)	7.5
Additional charge for each ft	(oz/ft)	0.32
Additional charge for each m	(g/m)	30.0
Liquid side/ Gas side(indoor)	(inch)	3/8"/5/8"
	(mm)	9.52/15.9
Liquid side/ Gas side(outdoor)	(inch)	3/8"/5/8"
	(mm)	9.52/15.9
Max. pipe length	(ft)	98.4
	(m)	30.0
Max. difference in level	(ft)	65.6
	(m)	20.0
Connection method		Flared
Indoor(cooling)	(Deg. °F)	60 ~ 90
	(Deg. °C)	16 ~ 32
Indoor(heating)	(Deg. °F)	32 ~ 86
	(Deg. °C)	0 ~ 30
Outdoor(cooling)	(Deg. °F)	-13~122
	(Deg. °C)	-25 ~ 50
Outdoor(heating)	(Deg. °F)	-13 ~ 75
	(Deg. °C)	-25 ~ 24

INDOOR UNIT DATA

Indoor fan motor		
Model		ZKFD-250-8-1
Qty		1
Input	(W)	/
Output	(W)	/
RLA	(A)	3.0
Speed(Hi/Mi/Lo)	(r/min)	/
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	823.53/758.82/694.12/629.41
Indoor noise level (Hi/Med/Lo)	[dB(A)]	39.5/37.5/35.5
Dehumidification	(L/H)	2.38
Indoor unit		
Dimension (WxDxH)	(inch)	21.02x17.52x45.00
	(mm)	534x445x1143
Packing(WxDxH)	(inch)	26.57x20.87x48.62
	(mm)	675x530x1235
Net/Gross weight	(lbs.)	106.70/127.21
	(kg)	48.4/57.7

OUTDOOR UNIT DATA

Compressor		
Type		Twin-ROTARY
Model		KTM240D43UKT
Brand		GMCC
Capacity	(Btu/h)	25931
Input	(W)	2045
Rated current (RLA)	(A)	15.4
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 620
Outdoor fan motor		
Model		ZKFN-120-8-2
Qty		1
Input	(W)	150.0
Output	(W)	120
RLA	(A)	0.5
Speed	(r/min)	900/450
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	2235
Outdoor noise level	[dB(A)]	57.5
Outdoor unit		
Dimension (WxDxH)	(inch)	37.24x16.14x31.89
	(mm)	946x410x810
Packing (WxDxH)	(inch)	42.91x19.69x34.84
	(mm)	1090x500x885
Net/ Gross weight	(lbs.)	124.78/134.92
	(kg)	56.6/61.2

COMPATIBILITY:

SINGLE ZONE INDOOR SYSTEM:

MVC-23HWFN1-M

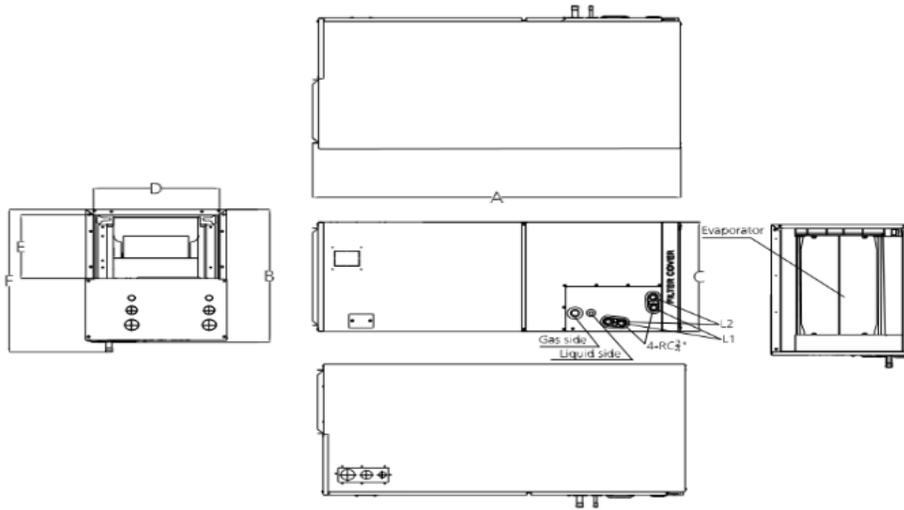
SINGLE ZONE OUTDOOR SYSTEM:

MOD33-24HFN1-MTOW

It is compatible as the
MULTI-ZONE INDOOR SYSTEM:
MVC-23HWFN1-M

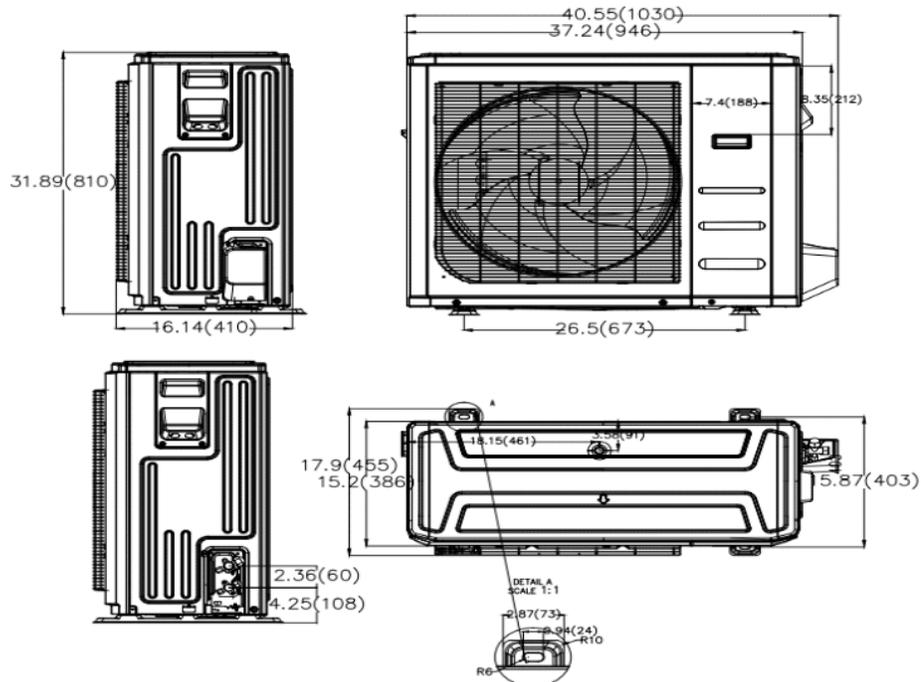


Indoor unit dimension



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





Fan performance

