



Submittal Data

Submittal Data Model : **MVC-36HWFN1-M / MOE31U-36HFN1-M**
(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 V (V, Ph, Hz)		208/230, 1, 60
Voltage Range (V)		187-253
Electrical		
Minimum circuit ampa (A)		41
Max. fuse (A)		50
Connection wiring		14AWG*2 Stranded, shielded
Cooling		
Rated Capacity (Btu/h)		36000
Capacity Range (Btu/h)		12000*47400
Power Input (W)		3300
Rated current (A)		14.8
SEER (Btu/W)		18
EER (Btu/W)		10.5
Heating at 47F		
Rated Capacity (Btu/h)		40000
Capacity Range (Btu/h)		9000*57200
Power Input (W)		3400
Rated current (A)		14.8
HSPF4 (Btu/W)		10.5
HSPF5 (Btu/W)		8.5
COP w/w		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/165.79
Refrigerant precharge (ft)		25.0
Additional charge for (m)		7.5
(g/m)		65
Additional charge for (oz/ft)		0.69
Liquid side/ Gas side (inch)		3/8" / 3/4"
(mm)		9.52/19
Max. pipe length (ft)		213.0
(m)		65
Max. difference in lev. (ft)		98.0
(m)		30
Connection method		Flared
Indoor(cooling/ heatir (Deg. F)		60~90/32~86
(Deg. C)		16~32/0~30
Outdoor(cooling/heat (Deg. F)		-30*122/-30*75
(Deg. C)		-30~50/-30~24
Application area (sq.ft)		516.67~753.47
(m2)		48~70

INDOOR UNIT DATA		
Indoor fan motor		
Type		Centrifugal
Model		ZKFD-375-8-1
Qty		1
Input (W)		168.0
RLA (A)		---
LRA (A)		---
Winding Resistance (Ω)		---
Capacitor (uF)		---
Speed(Hi/Mi/Lo) (r/min)		-
Air flow & Noise level		
Indoor air flow (Hi/Mec (CFM)		082.35/970.59/864.71
Indoor noise level (Hi/L [dB(A)]		46.8/44/41.3
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.)		58.6/70.6
(kg)		129.19/155.64

OUTDOOR UNIT DATA		
Compressor		
Type		ROTARY
Model		EAPQ420D1UMUA
Brand		GMCC
Capacity (Btu/h)		44015
Input (W)		3565
Rated current (RLA) (A)		-
Refrigerant oil/oil cha (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)		4500.00
Outdoor noise level [dB(A)]		51
Outdoor unit		
Dimension (WxDxH) (inch)		37.48x16.34x52.48
(mm)		952x415x1333
Packing (WxDxH) (inch)		43.11x19.43x58.27
(mm)		1095x495x1480
Net/ Gross weight (lbs.)		227.07/255.73
(kg)		103/116

COMPATIBILITY:

SINGLE ZONE INDOOR SYSTEM:

MVC-36HWFN1-M

Or any replacement market brand
A-coil Or Air handler

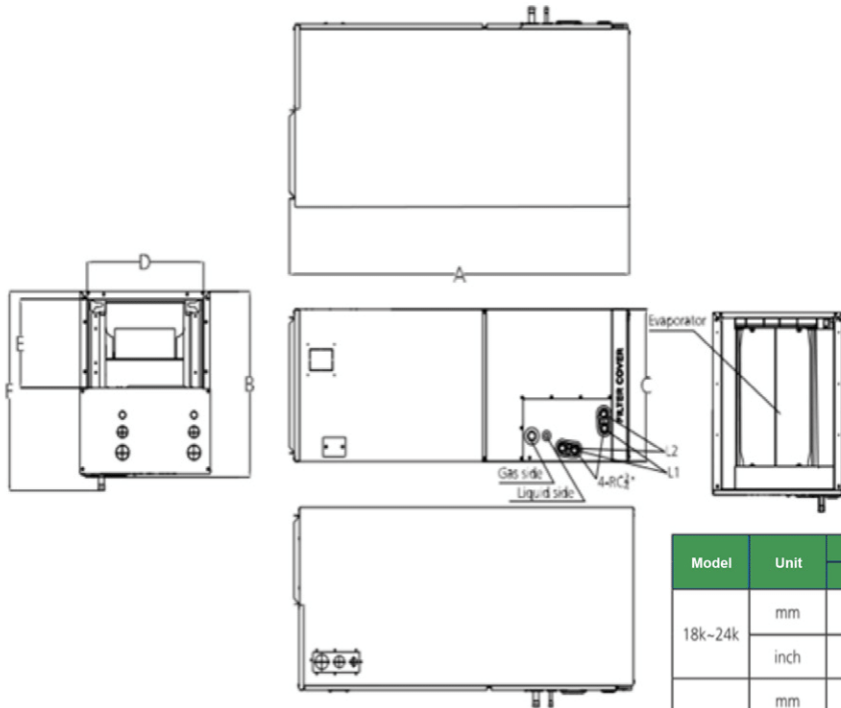
SINGLE ZONE OUTDOOR SYSTEM:

MOE31U-36HFN1-M

Or any replacement market brand
A-coil Or Air handler

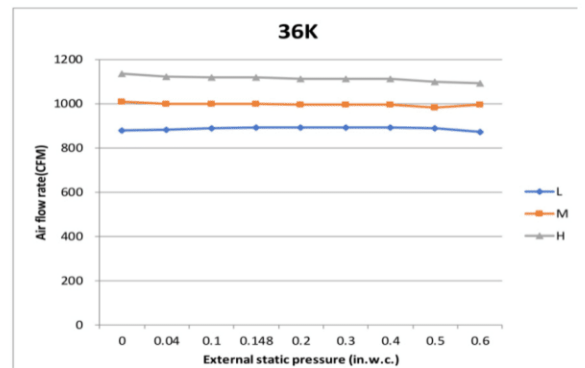
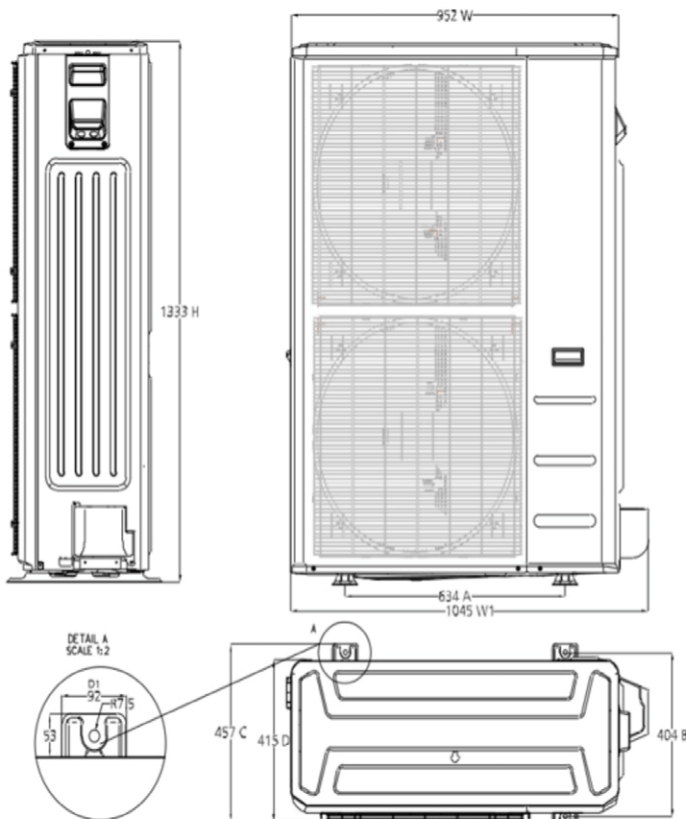


INDOOR UNIT DIMENSION:



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



208130405