



Submittal Data

Submittal Data Model: **MVC-36HWFN1-M / MOX630-36HFN1-M3X**
(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)	208/230V, 1Ph, 60Hz	
Voltage Range	(V)	187-253	
Electrical			
Minimum circuit ampacity(Outdoor)	(A)	30	
Max.fuse(Outdoor)	(A)	35	
Connection wiring		14AWG*2 Stranded, shielded	
Cooling			
Capacity	(Btu/h)	35000(14000~38000)	
Power Input	(W)	2990(790~4640)	
Current	(A)	13.6(3.43~20.17)	
SEER2	(Btu/W)	16.3	
EER2	(Btu/W)	11.7	
Heating			
Capacity	(Btu/h)	39000(11000~48000)	
Power Input	(W)	3360(730~4540)	
Current	(A)	14.61(3.17~19.7)	
HSPF2-4	(Btu/W)	9.5	
HSPF2-5	(Btu/W)	8	
COP	W/W	3.40	
Heat at 17F(H32)	(Btu/h)	31800	
Heat at 5F(H42)	(Btu/h)	38000	
COP at 5F(H42)	W/W	1.8	
REFRIGERANT PIPE DATA			
Throttle type	Indoor unit	EEV for cooling	
	Outdoor unit	EEV for heating	
Design pressure	(PSIG)	550/340	
Refrigerant Type		R410A	
Refrigerant charge	oz	141.10	
Refrigerant precharge	(ft)	25.0	
	(m)	7.5	
Additional charge for each ft	(oz/ft)	0.69	
Additional charge for each m	(g/m)	65	
Liquid side/ Gas side(indoor)	(inch)	3/8" / 3/4"	
	(mm)	9.52/19	
Liquid side/ Gas side(outdoor)	(inch)	3/8" / 3/4"	
	(mm)	9.52/19	
Max. pipe length	(ft)	213.25	
	(m)	65	
Max. difference in level	(ft)	98.42	
	(m)	30	
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)	5~122	
	(Deg. °C)	-15~50	
Outdoor(heating)	(Deg. F)	-22~75	
	(Deg. °C)	-30~24	

INDOOR UNIT DATA			
Indoor fan motor			
Model		ZKFD-375-8-1-1	
Qty		1	
Input	(W)	/	
Output	(W)	/	
RLA	(A)	4.00	
Speed(Hi/Mi/Lo)	(r/min)	/	
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	1188.24/1082.35/970.59/864.71	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	49/44/42	
Dehumidification	(L/H)	3.65	
Indoor unit			
Dimension (WxDxH)	(inch)	21.02x21.02x49.02	
	(mm)	534x534x1245	
Packing(WxDxH)	(inch)	26.57x24.41x52.56	
	(mm)	675x620x1335	
Net/Gross weight	(lbs.)	129.19/155.64	
	(kg)	58.6/70.6	
Accessories			
Adaptor for welding(3/4")	Qty	1	
Adaptor for welding(3/8")	Qty	1	
OUTDOOR UNIT DATA			
Compressor			
Type		ROTARY	
Model		EAPQ420D1UMUA	
Brand		GMCC	
Capacity	(Btu/h)	44015	
Input	(W)	3665 ±3%	
Rated current (RLA)	(A)	21.5	
Refrigerant oil/oil charge	(ml)	1460±15mlESTER OIL VG74	
Outdoor fan motor			
Model		ZKFN-250-10-1	
Qty		1.00	
Input	(W)	/	
Output	(W)	/	
RLA	(A)	2.5	
Speed	(r/min)	850/800/750/650/550	
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)	3035.29	
Outdoor noise level	[dB(A)]	55	
Outdoor unit			
Dimension (WxDxH)	(inch)	38.58x14.76x38.39	
	(mm)	980x375x975	
Packing (WxDxH)	(inch)	45.08x19.69x42.52	
	(mm)	1145x500x1080	
Net/ Gross weight	(lbs.)	203.71/234.57	
	(kg)	92.4/106.4	
Accessories			
Adaptor for welding(3/4")	Qty	1	
Adaptor for welding(3/8")	Qty	1	

COMPATIBILITY:

SINGLE ZONE INDOOR SYSTEM:

MVC-36HWFN1-M

Or any replacement market brand
A-coil Or Air handler

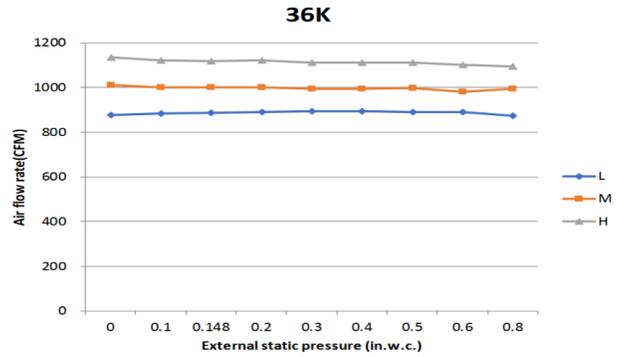
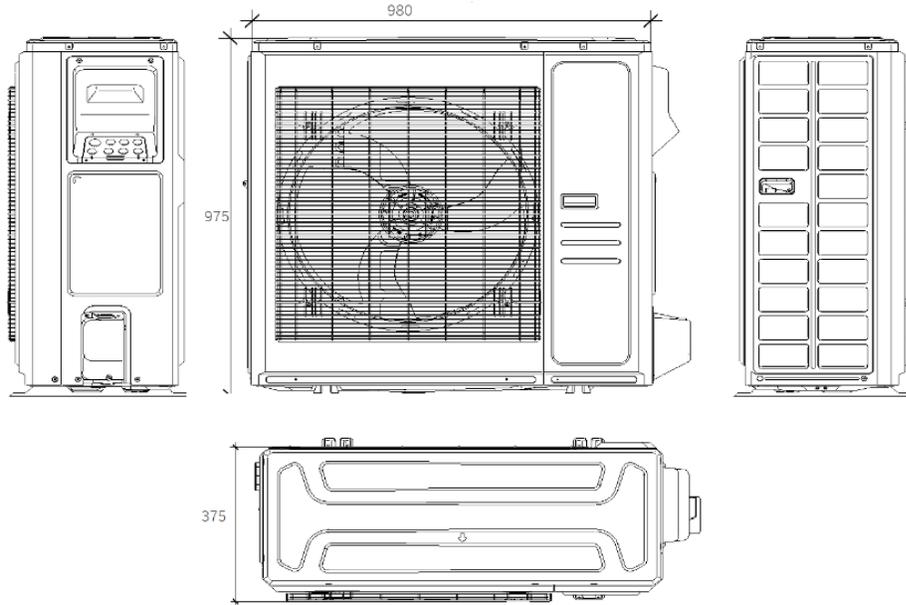
SINGLE ZONE OUTDOOR SYSTEM:

MOX630-36HFN1-M3X

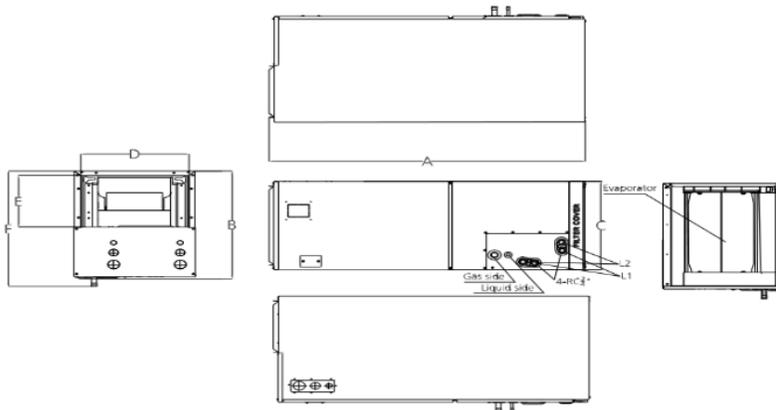
Or any replacement market brand
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Outdoor unit dimension



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		



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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