

SUBMITTAL DATA SHEET

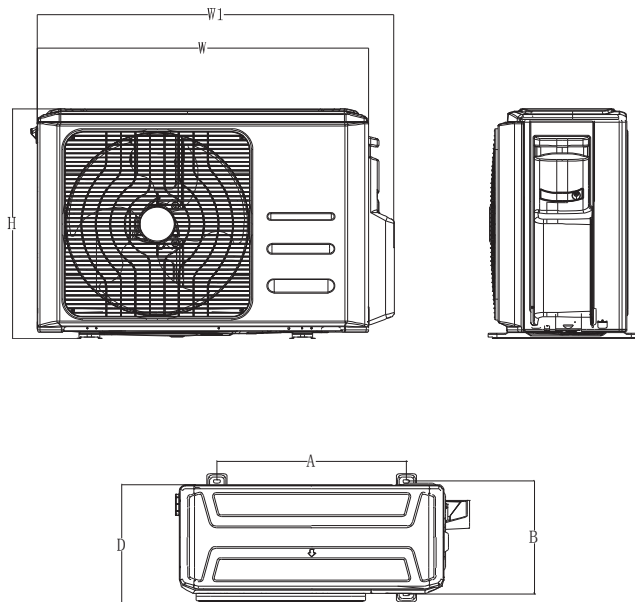
MITSAIR™ INVERTER HEAT PUMP WITH COMPATIBLE INDOOR AIR HANDLING UNIT



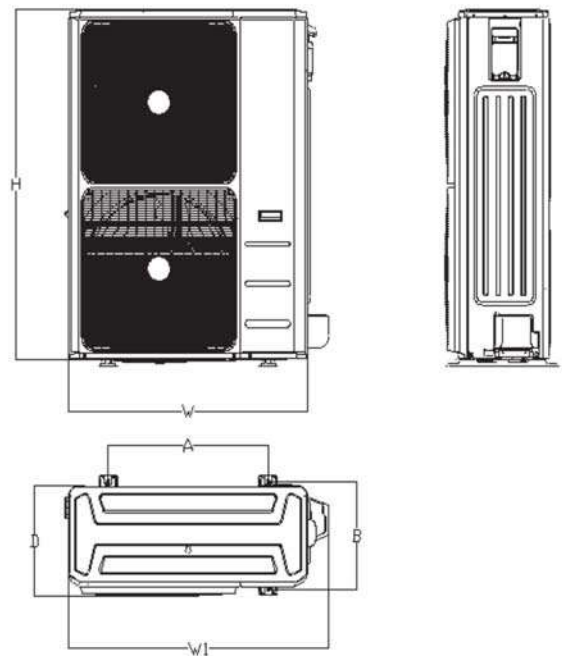
MODEL #	2 TON	3 TON	4 TON
Indoor AHU	MVB-24HWFN1-M	MVB-36HWFN1-MX	MVB-48HWFN1-MX
Outdoor	MOD31-24HFN1-MT0W	MOD30U-36HFN1-MX	MOE30U-48HFN1-MX

Job Name:	Engineer:
Purchaser:	Application:
Submitted To:	Location:
Submitted By:	For: <input type="checkbox"/> Approval <input type="checkbox"/> Review <input type="checkbox"/> Comment
System Designation:	Schedule No.:
Notes:	

**MOD31-24HFN1-MT0W
MOD30U-36HFN1-MX**

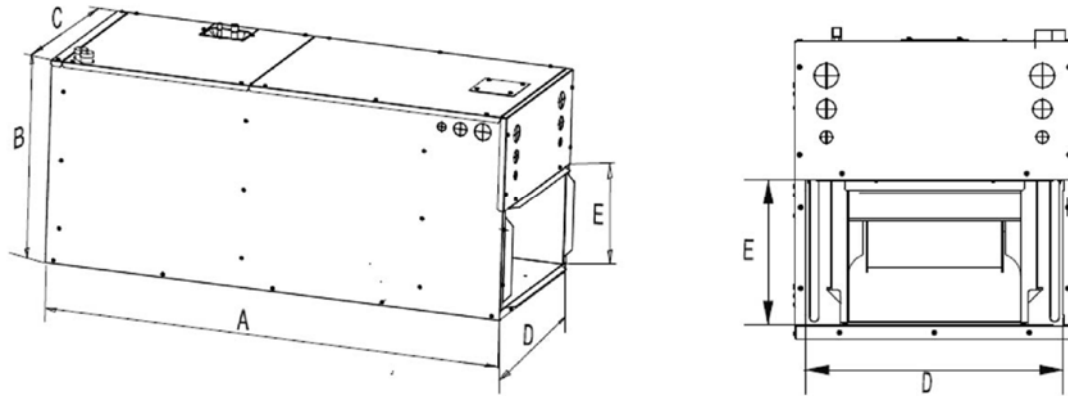


MOE30U-48HFN1-MX

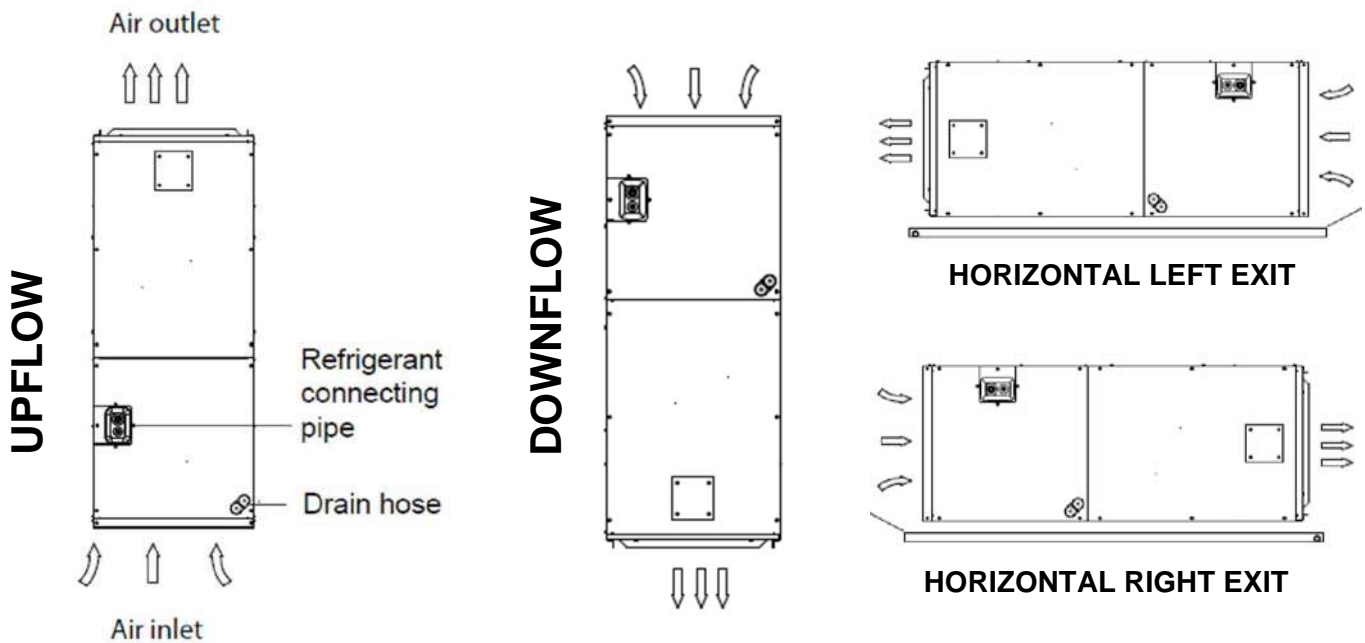


Model	Unit	Dimension					
		W	D	H	W1	A	B
MOD31-24HFN1-MT0W	Inch	37.24	16.14	31.89	40.6	26.5	15.9
MOD30U-36HFN1-MX	Inch	37.24	16.14	31.89	40.6	26.5	15.9
MOE30U-48HFN1-MX	Inch	37.48	16.34	52.48	41.1	25.0	15.9

MULTI POSITION AHU MOUNTING OPTIONS



Model	Dimension (inch)				
	A	B	C	D	E
All	48.2	21	19.6	18.2	10.3



ELECTRIC HEAT OPTION

Compatible Heater Model #		AHU Model #		
		MVB-24HWFN1-M (2 TON)	MVB-36HWFN1-MX (3 TON)	MVB-48HWFN1-MX (4 TON)
EAH-10A(UL)	10KW	x	x	x
EAH-15A(UL)	15KW		x	x
EAH-20A(UL)	20KW			x





The New Mitsair™ Inverter Heat Pump certified by AHRI with compatible Indoor Air Handling Unit



		Model	2 Ton	3 Ton	4 Ton	
		Indoor	MVB-24HWFN1-M	MVB-36HWFN1-MX	MVB-48HWFN1-MX	
		Outdoor	MOD31-24HFN1-MTOW	MOD30U-36HFN1-MX	MOE30U-48HFN1-MX	
COMPLETE SYSTEM						
Complete System	Power supply	Indoor	V- Ph-Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz
		Outdoor	V- Ph-Hz	208/230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz
	Cooling Capacity	Capacity (range, Heat Pump only)	Btu/h	22000 (7500~26000)	36000 (9200~36500)	48000 (12000~48000)
		Input	W	1757	4350	5986
		Rated current	A	8.10	19.00	26.00
		EER		12.5	8.5	8.2
		SEER		20.8	16.5	16.0
	Heating Capacity	Capacity (range, Heat Pump Only) *	Btu/h	26000 (5600~30000)	39000 (10000~40000)	55000 (13700~55000)
		Input	W	2177	3570	6132
		Rated current	A	10.13	15.5	27.14
		COP	W/W	3.50	3.2	2.63
		HSPF4		10.4	10	9.5
HSPF5		8.4	8.4	7.5		
INDOOR AIR HANDLER						
Indoor Air Handler Only	Indoor fan motor	Type		Brushless DC	Brushless DC	Brushless DC
		Qty		1	1	1
		Input	W	487	487	487
		Speed(Hi/Mi/Lo)	r/min	720/640/550	900/800/700	1050/980/910
	MINIMUM CIRCUIT AMPACITY(Indoor, no electric heat)		A	6	6	6
	MAX.FUSE (Indoor, no electric heat)		A	15	15	15
	Air Flow	Indoor air flow (Hi/Mi/Lo)	CFM	882 / 765 / 588	1176 / 1000 / 824	1412 / 1294 / 1176
		Rating Pressure	In. wg	0.10	0.15	0.20
		Indoor noise level (Hi/Mi/Lo)	dB(A)	43/40.5/35	46.5/43/38	54/52/50
	Drain Pipe		inch	3/4	3/4	3/4
	Dimensions & Weight	Supply plenum opening	inch	10.3 X 18.2	10.3 X 18.2	10.3 X 18.2
		Return plenum opening	inch	21 X 19.6	21 X 19.6	21 X 19.6
Dimension(W*D*H)		inch	20.98x19.61x48.82	20.98x19.61x48.82	20.98x19.61x48.82	
Net/Gross weight		lbs.	141 / 156	144 / 160	145 / 160	
OUTDOOR UNIT						
Outdoor Unit Only	Compressor	Type		ROTARY INVERTER	ROTARY INVERTER	ROTARY INVERTER
		Input	W	1970	2600	3420
		Rated current (RLA)	A	12	24	28
	Outdoor Fan	Qty		1	1	2
		RLA	A	0.6	0.6	0.6
		Speed	r/min	850/750/700	1050/900/850	900/850/800/750
	Outdoor air flow		CFM	2237	2530	4470
	Outdoor noise level		dB(A)	59.0	64.0	64.0
	MINIMUM CIRCUIT AMPACITY (Outdoor)		A	18	30	36.5
	Breaker Size Required		A	25	45	50
	Refrigerant System	Refrigerant control	Type	EXV+Capillary	EXV+Capillary	EXV+Capillary
		Refrigerant type	oz	R410A/82.9	R410A/112.9	R410A/158.7
		Refrigerant precharge	ft	25	25	25
		Additional charge per ft	oz	0.32	0.32	0.32
		Design pressure	PSIG	550/340	550/340	550/340
	Refrigerant piping	Liquid side/ Gas side	Inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
		Max. refrigerant pipe length	ft	164	213	213
		Max. difference in height	ft	82	98	98
Thermostat type	Conventional 24V	Type	Standard Heat Cool§	Standard Heat Cool§	Standard Heat Cool§	
Operating Range	Outdoor(cooling/heating)	°C	-25~50/-25~30	-15~50/-15~24	-15~50/-15~24	
	Outdoor(cooling/heating)	°F	-13~122/-13~86	5~122/ 5~75	5~122/ 5~75	
Dimensions & Weight	Dimension(W*D*H)	inch	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	
	Packing (W*D*H)	inch	42.91x19.69x34.45	42.91x19.69x34.84	43.11x19.49x58.27	
	Net/Gross weight	lbs.	141.09/152.12	155.42/166.23	219.14/249.12	

* Rated Heating capacity at 47°F outdoor temperature

§ Thermostat used must be 2 Stage Heat-Cool when using Electric Heater option.

* Air flow measured at 0.20 in. w.c. ESP

WARRANTY: All warranty effective from date of installation.
Labour Warranty is the responsibility of the Installing Contractor.

Side Discharge Inverter Heat Pump Condenser by Mits Airconditioning Inc.

Warranty can be registered at www.mitsair.com

- 5 years all Parts
- 5 years on Compressor

§ All Testing and Values are per Manufacturer's testing and the use of Manufacturer's Coils.

*To register warranty on equipment, go to www.mitsair.com/warranty-registration

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