

INVERTER TECHNOLOGY VARIABLE CAPACITY HEATING & AIR CONDITIONING

Effective April 1st, 2020



MITSAIR™ SIDE DISCHARGE INVERTER HEAT PUMP WITH COMPATIBLE INDOOR AIR HANDLING UNIT

MITS AIR™ CONDENSING UNIT



MITS AIR™ AIR HANDLING UNIT



MODEL #	DESCRIPTION	SIZE (TON)	SEER	LINE SETS SIZES (not included)
MVB-24HWFN1-M	Indoor Air Handling Unit	2	-	-
MOD31-24HFN1-MT0W	Outdoor Unit	2	20.8	3/8" x 5/8"
MVB-36HWFN1-MX	Indoor Air Handling Unit	3	-	-
MOD30U-36HFN1-MX	Outdoor Unit	3	16.5	3/8" x 5/8"
MVB-48HWFN1-MX	Indoor Air Handling Unit	4	-	-
MOE30U-48HFN1-MX	Outdoor Unit	4	16.0	3/8" x 5/8"

*** ELECTRIC HEATERS COMPATIBLE TO MITSAIR™ AIR HANDLING UNITS**

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	8.0
		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	16	27
		COP	W/W		4	3	3
		HSPF4			10	10	10
	HSPF5			8	8	8	
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 / 764 / 588	1176 / 1000 / 823	1411 / 1294 / 1176
		Rating Pressure	in. w.c.		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	2765	3700
		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	37
	Minimum Circuit Ampacity Nominal Wire Size		AWG		# 12	# 8	# 8
	Breaker Size Required		A		25	40	50
	Refrigerant System	Refrigerant control	Type		EXV+Capillary	EXV+Capillary	EXV+Capillary
Refrigerant type		oz		R410A/82.9	R410A/3.2	R410A/4.5	
Refrigerant precharge		ft		25	25	25	
Additional charge per ft		oz		0.32	0.3	0.3	
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/ -13~75	5~122/ -13~75	
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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