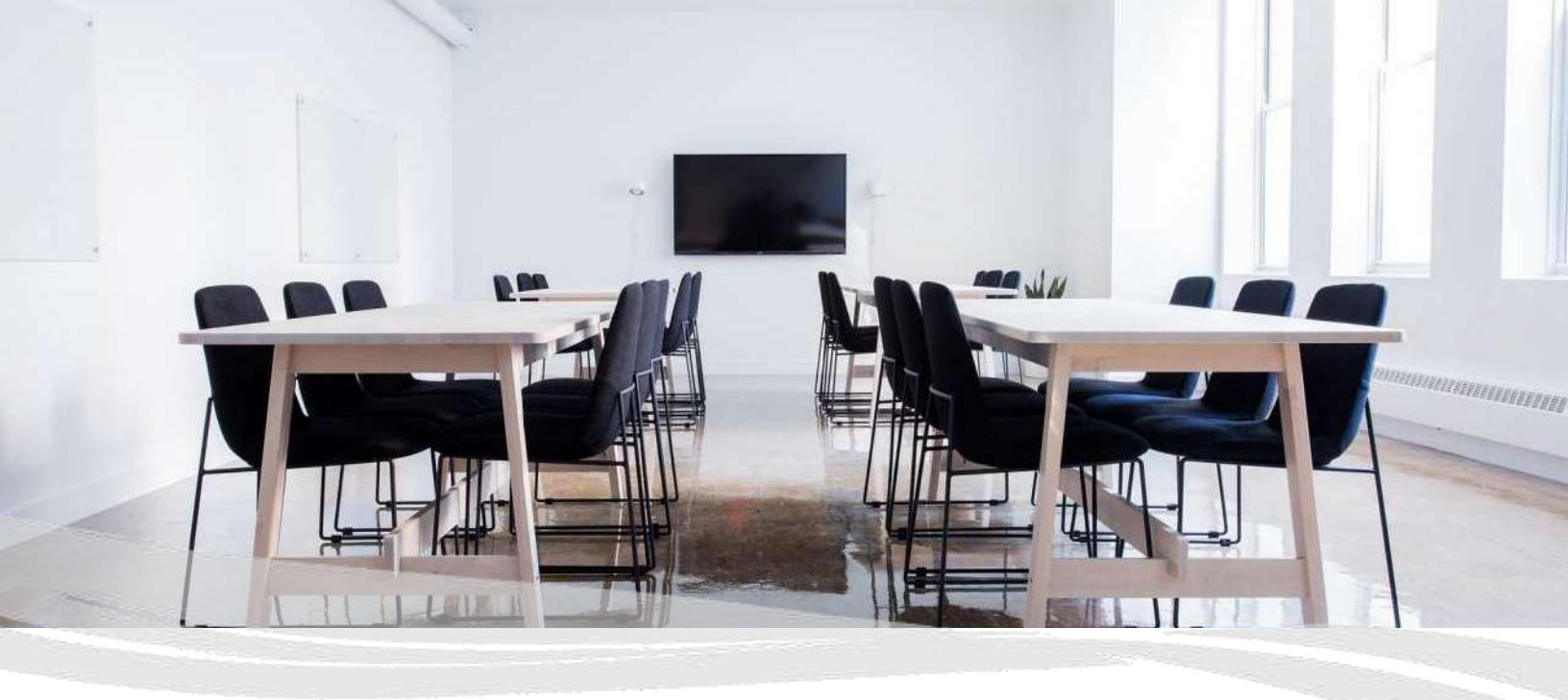




MITS AIR™

**INVERTER COMPRESSOR
MATCHED SYSTEM WITH
AIR HANDLING UNIT (AHU)**





MIT S AIR™ SIDE DISCHARGE INVERTER HEAT PUMP WITH COMPATIBLE INDOOR AIR HANDLING UNIT IN 2, 3, & 4 TON CAPACITY

- Up to 20.8 SEER
- R410A inverter system
- Save on installation space
- Side discharge condensing units
- Self diagnosis error codes
- AHRI listed for efficiency
- Low ambient temperature (-13°F / -25°C)
- Auxiliary heater: 10 kw, 15 kw, 20 kw
- Compatible with any 24V thermostat including Wi-Fi models
- Quiet operation
- AHU can be installed in vertical up flow, vertical down flow, horizontal right, or horizontal left configuration
- AUX electric HP heater modules optional

**YOUR
COMPLETE
COMFORT
SYSTEM**



PRODUCT SPECIFICATIONS



Model		2 Ton		3 Ton		4 Ton		
Outdoor		MOD31-24HFN1-MTOW		MOD30U-36HFN1-MX		MOE30U-48HFN1-MX		
Indoor		MVB-24HWFN1-M		MVB-36HWFN1-M		MVB-48HWFN1-M		
COMPLETE SYSTEM								
COMPLETE SYSTEM	Power Supply	Indoor	V-Ph-Hz	208/230V, 1Ph, 60Hz	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	208/230V, 1Ph, 60Hz	
	Cooling Capacity	Capacity (Range, Heat Pump Only)		Btu/h	22,000 (7,500~26,000)	36,000 (9,200~36,500)	48,000 (12,000~48,000)	
		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	26,000 (5,600~30,000)	39,000 (10,000~40,000)	55,000 (13,700~55,000)	
		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 HANDLING UNIT ONLY	Indoor Fan Motor	Type		Brushless DC	Brushless DC	Brushless DC		
		Quantity		1	1	1		
		Input	W	487	487	487		
		Speed (Hi/Mi/Lo)	r/min	720/640/700	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 / 48	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	
		Dimensions (W*D*H)		Inch	20.98 x 19.61 x 48.82	20.98 x 19.61 x 48.82	20.98 x 19.61 x 48.82	
		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	A	12	24	28		
	Outdoor Fan	Quantity		1	1	1		
		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	64	64		
	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	0.30	0.30	
		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"	
		Maximum Refrigerant Pipe Length		ft	164	213	213	
		Maximum 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	Dimensions (W*D*H)		Inch	37.24 x 16.14 x 31.89	37.24 x 16.14 x 31.89	37.48 x 16.34 x 52.48	
		Packing (W*D*H)		Inch	42.91 x 19.69 x 34.45	42.91 x 19.69 x 34.84	43.11 x 19.49 x 58.27	
Net/Gross Weight		lbs	141.9 / 152.12	155.42 / 166.23	219.14 / 249.12			

§ All testing and vales are per Manufacturer's testing and the use of Manufacturer's coils

*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 WG esp

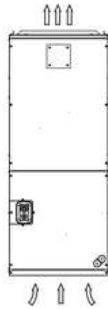
MOD31-24HFN1-MTOW (2 Ton) model is Energy Star Rated



MULTI-POSITION AIR HANDLER

The air handler can be installed in a vertical or horizontal configuration.

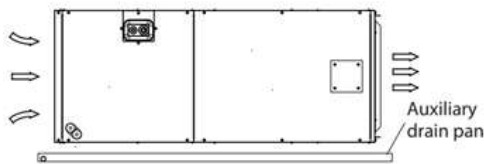
Vertical Up Flow Installations



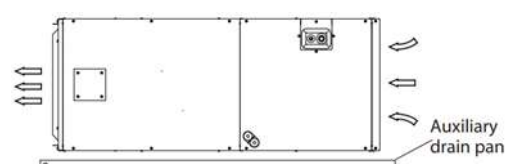
Vertical Down Flow Installations



Horizontal Right Installations



Horizontal Left Installations

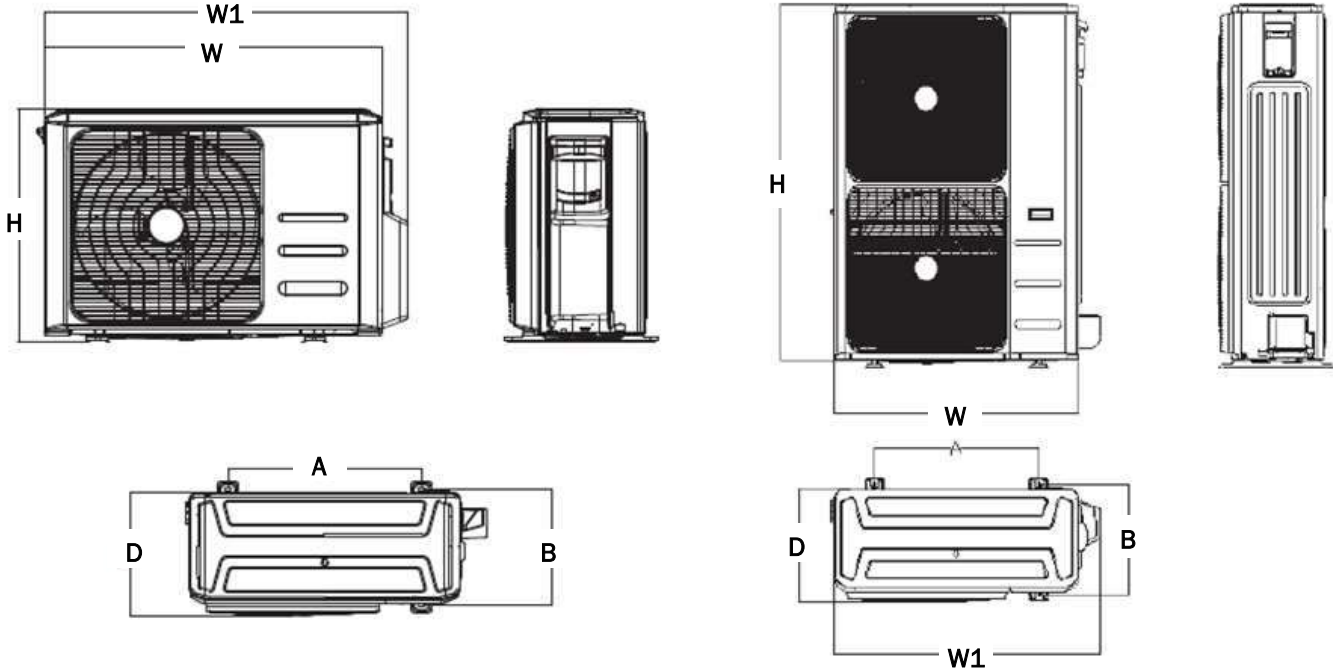


NOTE: For horizontal installation, a drain pan (not supplied) must be installed.

OPTIONAL ELECTRIC HEATER MODULES COMPATIBLE WITH MITS AIR™ AIR HANDLING UNITS

Compatible Heater Model Number	AHU Model Number		
	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

COMPACT DESIGN



Model	Unit	AHU Model Number					
		W	D	H	W1	A	B
MOD31-24HFN1-MTOW	Inches	37.24	16.14	31.89	40.60	26.50	15.90
MOD30U-36HFN1-MX	Inches	37.24	16.14	31.89	40.60	26.50	15.90
MOE30U-48HFN1-MX	Inches	37.48	16.34	52.48	41.10	25.00	15.90

WARRANTY

- All warranty effective from date of installation
- Labour Warranty is the responsibility of the Installing Contractor
- 5 years all parts and 5 years on compressor
- Register warranty at www.mitsair.com/warranty-registration/
- For full Limited Warranty visit www.mitsair.com



Parts
Warranty



Compressor
Warranty



Distributed by:



HEAD OFFICE: MISSISSAUGA

1608 Bonhill Road, Mississauga, ON L5T 1C7
(905) 564-2221 | 1 (800) 567-2221

info@mitsair.com

BARRIE BRANCH

691 Dunlop Street W., Barrie, ON L4N 9W9
(705) 722-3200 | 1 (800) 688-1673

barrie@mitsair.com

LONDON / WINDSOR BRANCH

90 Towerline Place, London, ON N6E 2T1
(519) 914-9000

london@mitsair.com

www.mitsair.com

