

QUICK INSTALLATION GUIDE

MITS AIR™ Cold Climate Heat Pump with Cased A-Coils (pages 1 to 4)

MITS AIR™ Cold Climate Heat Pump with Fan Coil/AHU (pages 5 to 8)

Head Office: Mississauga 1608 Bonhill Road Mississauga, ON L5T 1C7 1 (800) 567-2221 info@mitsair.com Hydronics & Unico Division 6125 Netherhart Rd Mississauga, ON L5T 1G5 (905) 362-5293 hydronics@mitsair.com Barrie Branch 691 Dunlop Street W. Barrie, ON L4N 9W9 1 (800) 688-1673 barrie@mitsair.com London Branch 90 Towerline Place London, ON N6E 2T1 1 (519) 914-9000 london@mitsair.com Windsor Branch 11629 County Road 42 Tecumseh, ON N8N 0H 1 1 (519) 914-0332 windsor@mitsair.com



The MITS AIR™ Hyper Heat COLD CLIMATE Inverter Heat Pump with Cased A-Coils



Will work with any Furnace or Fan Coil *

some conditions apply

OUTDOOR HEAT PUMPS

	Outdoor		MOD30-24HFN1-MW	MOD30U-30HFN1-MR0(X)	MOE31U-36HFN1-M	MOE30U-48HFN1-M-[X1]	MOE30U-55HFN1-M
Power supply	(Outdoor)	V- Ph-Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz
Cooling	Rated capacity	Btu/hr	24000	30000	36000	46000	45000
(Standard conditions)	EER2	Btu/w	10.70	10.50	9.80	8.60	10.0
	SEER2	Btu/w	16.80	15.50	14.80	14.30	15.2
Heating	Rated capacity (47°F)	Btu/hr	25000	33000	39000	51000	55000
(Standard conditions)	HSPF2-4	Btu/w	9.50	9.70	10.00	9.0	9.2
	COP	W/W	3.28	3.39	3.18	2.98	3.08
Heating (H42) 5F(-15°C)	COP	w/w	1.95	1.85	2.0	1.8	1.8
MINIMUM CIRC	UIT AMPACITY (Outdoor)	Α	20.5	23	30	40	40
MAX. FUSE (Ou	ıtdoor)	Α	35	35	50 50		50
	Inventer Type		Twin-ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
Compressor	Rated current (RLA)	Α	15	16.5	32	33	26
Outdoor Fan	Qty		1	1	2	2	2
Motor	RLA	Α	1.35	1.35	1.2	1.2	1.2
Outdoor air flow	,	CFM	3000	3000	4500	4411.76	4500
Outdoor noise le	evel	dB(A)	62	60.5	64.0	64.0	63.5
Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Liquid side/ Gas side	inch	3/8" x 3/4"	3/8" x 3/4"	3/8" x 3/4"	3/8" x 3/4"	3/8" x 7/8"
Refrigerant piping	Max. refrigerant pipe length	ft	164.04	164.04	213.25	213.25	213.25
	Max. difference in level	ft	82.02	82.02	98.42	98.42	98.42
	Dimension(W*D*H)	inch	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48	37.48x16.34x52.48
Outdoor unit	Packing (W*D*H)	inch	42.91x19.69x34.84	42.91x19.69x34.84	43.11x19.49x58.27	43.11x19.49x58.27	43.11x19.49x58.27
	Net/Gross weight	kg	62/66	72.5/77	103/116	99.9/112.9	108.8/123.2

CASED A-COILS

	Indoor		MAC-24HWDN1-MN0	MAC-36HWFN1-M	MAC-36HWFN1-M	MAC-48HWFN1-M	MAC-60HWDN1-MN0
IRV		inch^3	58.3	106.9	106.9	158.0	1
Air flow		SCFM	720	960	960	1015	1
Pressure drop		Pa	51.3	65.1	65.1	70.0	1
		ln. wg.	0.21	0.26	0.26	0.28	1
	Dimension(W)	inch	17.52	20.98	20.98	20.98	24.50
Coood A Coil	Dimension(D)	inch	20.98	20.98	20.98	20.98	21.00
Cased A-Coil Unit	Dimension(H)	inch	17.99	23.98	23.98	23.98	28.00
	Net/Gross Weight	lbs.	42.77/52.03	66.58/77.16	66.58/77.16	66.58/77.16	1
Condensate Dr	ain	MIPT	3/4	3/4	3/4	3/4	3/4

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

- 10 years all Parts

- 10 years on Compressor

 \S 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

** 4 TON currently not eligible for Rebate Update list will be published later. Grants not available until listed with NRCan.

















VRF. Split Systems

Air to Water Heat Pumps/

Side Discharge Cooling Condensers and Heat Pumps

H.V.A.C. DISTRIBUTOR mitsair.com

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Small Duct Central Heating and Air Conditioning

Boilers and Indirect

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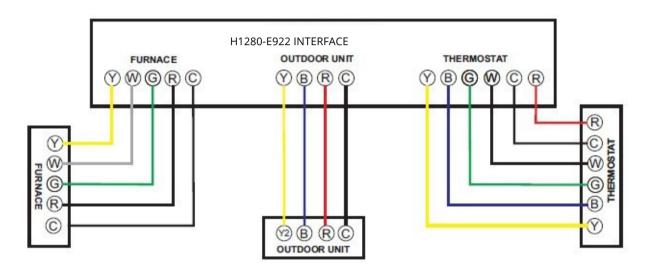
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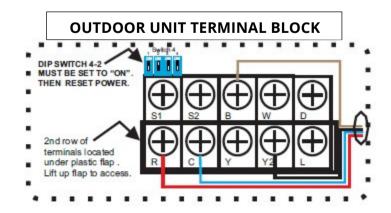
SIMPLIFIED LOW VOLTAGE WIRING DIAGRAM MITS AIRTM "U" SERIES ADD-ON HEAT PUMP WITH CASED A-COIL



MOD30-24HFN1-MW
MOD30U-30HFN1-MR0(X)
MOE31U-36HFN1-M
MOE30U-48HFN1-M-[X1]
MOE30U-55HFN1-M

Notes:

- Thermostat is a Heat Pump type.
- "B" configuration is used for the reversing 2. valve.
- 3. Change switch 4-2 to "ON" and restore power.
- 4. Do **not** remove metering device from indoor coil.











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The Unico System

CONDENSING BOILERS

VRF, Split Systems and Ventilation Air to Water Heat Pumps/ Simultaneous Heat Side Discharge Cooling Condensers and Heat Pumps

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(519) 914-0332 • windsor@mitsair.com

MITS AIR™ Cold Climate Heat Pump Coil Mounting & Line Set Guide

This guide is a distillation of information to assist you to install a MITS AIRTMCold Climate heat pump indoor coil. *Please note that reference should always be made to the Installation and Operation Manual for full explanations.

Coil Mounting:

- 1. A transition should be used between the furnace and the cased coil assembly with a minimum height of 6". Use a metal gauge of sufficient weight to properly support the coil.
- 2. After mounting the coil, remove the front panel. The TX valve sensing bulb is attached to the gas pipe and insulated with foam rubber tape.
 - a. Carefully remove the tape covering the sensing bulb. It will be used to reinsulate the bulb at the end of this procedure.
 - b. Loosen the screw of the clamp holding the sensor to the gas pipe and remove the bulb.
 - c. Temporarily secure the valve well away from the pipe to prevent it accidentally struck with your torch or heat from brazing.
 - d. Braze the refrigerant lines. After cooling and leak testing, re-secure the valve to the pipe in the same position that it was removed from. Ensure the sensing bulb is securely strapped to the pipe and will not move.
 - e. Replace the rubber insulation to its original position.
 - f. Check the capillary tubing from the sensing bulb to the valve. Make sure that the tubing does not rub on itself. Chafing of the capillary tube will cause failure of the valve.
- 3. A transition may also be required to match the case coil top to the plenum. Always ensure that the coil does not block the plenum takeoff.

General:

- 1. The coil is designed for upflow or downflow operation. An accessory drain pan is preinstalled for horizontal usage. This drain pan does not require removal for vertical or downflow operation.
- 2. Always trap the drain as required by the plumbing code.
- 3. Do not install a filter-drier or sight glass.
- 4. The machine is pre-charged for up to 25' of line set. It does not need adjustment for shorter line sets. The minimum line set length is 10'.











em° IEC condensing

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MITS AIR™ Cold Climate Heat Pump Line Set Information

Line Set Sizing:

Model	То	Liq	Ga
MOD30-24HFN1-MW	2.0	3/8	3/4
MOD30U-30HFN1-MR0(X)	2.5	3/8	3/4
MOE31U-36HFN1-M	3.0	3/8	3/4
MOE30U-48HFN1-M-[X1]	4.0	3/8	3/4
MOE30U-55HFN1-M	5.0	3/8	7/8

Minimum Line Set Length: 10'

Maximum Lengths:

Model	Model	Max L	ength.	Max Height	
Wiodei	Woder	ft	m	ft	m
	MOD30-24HFN1-MW	99	30	66	20
R401A Inverter Split	MOD30U-30HFN1- MR0(X)	164	50	82	25
Air Conditioner	MOE31U-36HFN1-M MOE30U-48HFN1-M-[X1]	213	65	98	30
	MOE30U-55HFN1-M				

Refrigerant Charge Data:

*System pre-charged to 25'. Add 0.69 oz per foot in excess of 25'.

Additional Charge Beyond 25' For 3/8" Liquid Lines (ft)										
3/8" Liquid Line Length	10' -2	25' 30	35	40	45	50	55	60	65	
Additional Charge (oz)		03.5	7.0	10.5	14.0	17.5	20.5	24.0	27.5	
3/8" Liquid Line Length	65		70	75	80	85	90	95	100	
Additional Charge (oz)	27.5		31.0	34.5	38.0	41.5	45.0	48.5	51.5	





The MITS AIR[™] Inverter Hyper Heat Cold Climate Heat Pump with Air Handling Unit

OUTDOOR HEAT PUMPS

Outdoor		MOD30-24HFN1-MW	MOD30U-30HFN1-MR0(X)	MOE31U-36HFN1-M	MOE30U-48HFN1-M-[X1]	MOE30U-55HFN1-M	
Power supply	(Outdoor)	V- Ph-Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz
Cooling	Rated capacity	Btu/hr	24000	30000	36000	46000	52000
(Standard	EER2	Btu/w	10.70	10.50	9.80	8.60	9.0
	SEER2	Btu/w	16.80	15.50	14.80	14.30	16.4
Heating	Rated capacity (47°F)	Btu/hr	25000	33000	39000	51000	53000
(Standard	HSPF2-4	Btu/w	9.50	9.70	10.00	9.0	10.5
conditions)	COP	W/W	3.28	3.39	3.18	2.98	2.57
Heating (H42) 5F(-15°C)	СОР	w/w	1.95	1.85	2.0	1.8	1.9
MINIMUM CIRCU	JIT AMPACITY (Outdoor)	Α	20.5	23	30	40	40
MAX. FUSE (Ou	tdoor)	Α	35	35	50	50	50
	Inventer Type		Twin-ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
Compressor	Rated current (RLA)	Α	15	16.5	32	33	26
Outdoor Fan	Qty		1	1	2	2	2
Motor	RLA	Α	1.35	1.35	1.2	1.2	1.2
Outdoor air flow		CFM	3000	3000	4500	4411.76	4500
Outdoor noise le	evel	dB(A)	62	60.5	64.0	64.0	63.5
Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Liquid side/ Gas side	inch	3/8" x 3/4"	3/8" x 3/4"	2221	3/8" x 3/4"	3/8" x 7/8"
Refrigerant piping	Max. refrigerant pipe length	ft	164.04	164.04	213.25	213.25	213.25
	Max. difference in level	ft	82.02	82.02	98.42	98.42	98.42
	Dimension(W*D*H)	inch	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48	37.48x16.34x52.48
Outdoor unit	Packing (W*D*H)	inch	42.91x19.69x34.84	42.91x19.69x34.84	43.11x19.49x58.27	43.11x19.49x58.27	43.11x19.49x58.27
	Net/Gross weight	kg	62/66	72.5/77	103/116	99.9/112.9	108.8/123.2

AIR HANDLING UNITS

Indoor			MVC-24HWFN1-M	MVC-30HWFN1-M	MVC-36HWFN1-M	MVC-48HWFN1-M	MVC-60HWFN1-M
			2 TON	2.5 TON	3 TON	4 TON	5 TON
Indoor Air Flow (Hi/Mi/Lo) CFM		CFM	823/758/694	1088/894/805	1188/1082/970	1470/1282/1094	1805/1582/1358
Indoor No	Indoor Noise Level (Hi/Mi/Lo) dB(A		39/36/33	42/40.5/36.5	45/43/41	50/47/43.5	51/45.5/41.5
	Dimension(W)	inch	21.02	21.02	21.02	21.02	21.02
Air	Dimension(D)	inch	17.52	21.02	21.02	21.02	24.49
Handling Unit	Dimension(H)	inch	45.00	49.02	49.02	49.02	52.99
	Net/Gross Weight	lbs.	105.60/127.43	129.19/155.64	129.19/155.64	130.51/156.31	162.70/192.90

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

- 10 years all Parts

- 10 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















VRF, Split Systems and Ventilation

Air to Water Heat Pumps/ Simultaneous Heat

Side Discharge Cooling Condensers and Heat Pumps



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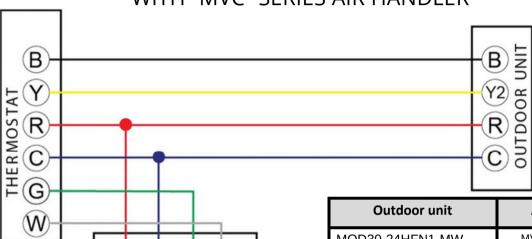
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SIMPLIFIED LOW VOLTAGE WIRING DIAGRAM MITS AIRTM "U" SERIES OUTDOOR UNIT WITH "MVC" SERIES AIR HANDLER



SW4-1 OFF

INDOOR AIR HANDLER

C

AIR HANDLER

AUX

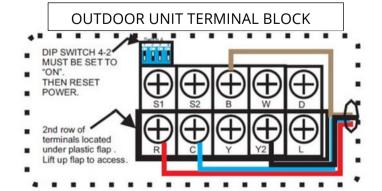
Switch S-4-2 of air handler must be turned "OFF" to allow auxiliary heat.

Jumper between W1 and W2 to enable full auxiliary heat.

Air Handler MVC-24 HWFN1-M MOD30-24HFN1-MW MVC-30 HWFN1-M MOD30U-30HFN1-MR0(X) MOE31U-36HFN1-M MVC-36 HWFN1-M HWFN1-M MOE30U-48HFN1-M-[X1] MVC-48 MOE30U-55HFN1-M MVC-60 HWFN1-M

Notes:

- 1. Thermostat is a Heat Pump type.
- "B" configuration is used for the reversing valve.
- 3. Reset power after changing dip switch 4-2 to "ON".
- 4. Follow thermostat manufacturer's instructions to enable emergency heat.











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Quick Guide for Installing MITS AIR™ "U" series with "MVC" Air Handler

The "MVC" air handler ships with a digital thermostat that provides a full range of comfort and diagnostic features. The air handler is shipped configured for this thermostat. The thermostat will work on standard 18/2 LVT wire but like all electronic devices it is susceptible to electronic noise.

When using the digital thermostat, we recommend the use of a shielded wire with the ground attached only at the air handler. When using the MITS AIR TM digital thermostat we also recommend wiring to the outdoor unit with the shielded wire. Once again, ground the shielding only at the air handler. Grounding both ends will eliminate the shielding and create a ground loop which must be avoided. The MITS AIRTM air handler also has the capability to incorporate a standard 24V thermostat. Please use the appropriate diagram for installation. For most installations this would require 6 wires from the thermostat to the air handler and four wires from the air handler to the outdoor unit.

The return air is designed for bottom entry only. We have an excellent return air plenum that acts both as a platform for the air handler and provides easily connected side entry for the return air duct. Corner cut-ins for the most popular duct sizes have been provided on both sides for quick installation of fish lock duct fasteners.

Heaters are installed inside the air handler cabinet, and you can purchase these in a capacity of 5kW to 20kW depending on the model of the air handler and are provided with low voltage plugs for quick installation to our control board.

The indoor fan motor is an EC type motor and provides guiet air flow at the correct capacity.





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COMPATIBLE HEATERS

Compatible Heater Model No.		Air Handler Model No.							
		MVC-24HWFN1-M (2 Ton)	MVC-30HWFN1-M (2.5 Ton)	MVC-36HWFN1-M (3 Ton)	MVC-48HWFN1-M (4 Ton)	MVC-60HWFN1-M (5 Ton)			
EAH-05B(UL)	5 kW	Х	X	Х					
EAH-10B(UL)	10 kW	Х	Х	Х	Х	Х			
EAH-15B(UL)	15 kW	Х	Х	Х	Х	Х			
EAH-20B(UL)	20 kW			Х	Х	Х			
EAH-25B(UL)	25 kW					X			

Limited Warranty: Mits Airconditioning Inc. MITS AIR Hyper Heat Cold Climate Heat Pumps 10 years Parts + 10 years Compressor Warranty

- 1. MITS AIRCONDITIONING INC. ("MITS") warrants to the original end user of this MITS AIR™ Inverter Compressor Side Discharge Cooling Only Condensing Unit, MITS AIR™ Inverter Compressor Side Discharge Heat Pump Unit, or MITS AIR™ Inverter Compressor Matched System with Air Handling Unit (AHU) (the "Equipment") for the periods described below that the Equipment will be free of manufacturing defects. If the Equipment fails to operate under normal use due to a manufacturing defect, the Equipment has 10 year parts and 10 year compressor warranty effective from the date of installation. MITS will replace the defective part or compressor part thereof without charge for the replacement component. This warranty does not cover any labour, nor shipping or handling costs incurred. **Labour warranty is the responsibility of the Installing Contractor**. Any replacement of compressor or part will be warranted against manufacturing defects for the remainder of the original warranty period. Parts used in connection with normal maintenance and parts subject to normal wear and tear, such as filters and belts, are not covered by this warranty.
- 2. To obtain warranty service, you must notify your dealer or contractor of any manufacturing defect in the Equipment within the applicable warranty period. This warranty does not cover any labour, nor shipping or handling costs incurred. You may be responsible for shipping or handling costs incurred in delivering defective Equipment or components or parts thereof for service or replacement unless your dealer or contractor has agreed to bear such costs.
- 3. MITS sells this Equipment only to dealers or contractors. The dealers and contractors have sole and exclusive responsibility for the selection, application, suitability and installation of the Equipment with respect to all end users and their particular requirements. Dealers and contractors may also sell or furnish other products and equipment not supplied by or on behalf of MITS for use in conjunction with the Equipment. Accordingly, MITS makes no warranty or condition whatsoever and assumes no liability or obligation whatsoever with respect to: (a) any representation, warranty, promise or statement made by any dealer or contractor with respect to any Equipment or part thereof or the use or application thereof; b) any acts or omissions of any dealer or contractor in selecting, recommending, installing, servicing, repairing, dismantling, moving or removing any Equipment or part thereof; or (c) any products, equipment, components, accessories or materials furnished or sold to you by a dealer or contractor other than the Equipment. Your dealer or contractor may provide a separate warranty for the products and services it supplies to you in addition to the Equipment and you are advised to confirm the terms and conditions of such warranty with your dealer or installer.
- 4. Any replaced Equipment, compressor or part will become the property of MITS when exchanged for its replacement. MITS reserves the right of inspection or refurbishing of its equipment at its discretion.
- 5. Proof of the original date of installation of the Equipment must be presented in order to establish the effective date of this warranty. Otherwise, the effective date will be deemed to be the date of purchase from MITS. Register warranty at https://www.mitsair.com/warranty-registration/
- 6. This warranty applies only: (a) while the Equipment remains at the site of original installation (except for Equipment designed for portable use); (b) to Equipment installed in Canada; and (c) if the Equipment is installed, maintained and operated in accordance with the manufacturer's written instructions accompanying the Equipment and in compliance with all applicable laws, regulations, codes and bylaws. This warranty does not cover damage caused by: (a) accident, abuse, negligence or misuse; (b) operation of the Equipment in a corrosive atmosphere containing chlorine, fluorine or any other damaging chemicals; (c) improper matching or combination of other products, equipment, parts accessories or components with the Equipment; (d) modification or alteration of the Equipment; (e) repair or service by unqualified or unauthorized persons; (f) failure to install or operate the Equipment or to provide proper maintenance or service according to the manufacturer's instructions; or (g) improper application or use of the Equipment; lightning, fluctuations in electrical current; or (f) Acts of God, acts of war both declared and undeclared, acts of terrorism or use of the equipment in any unlawful application.
- 7. THE FOREGOING CONSTITUTES THE SOLE AND EXCLUSIVE REMEDY AND EXCLUSIVE LIABILITY AND OBLIGATION OF MITS IN CONNECTION WITH THE EQUIPMENT. THIS WARRANTY IS IN SUBSTITUTION FOR AND EXCLUDES ALL OTHER WARRANTIES AND CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR ANY INTENDED OR PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCES WILL MITS BE LIABLE TO THE PURCHASER OF THE EQUIPMENT OR ANY OTHER PERSON FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGE OR LOSS, WHETHER ARISING OUT OF BREACH OF CONTRACT, BREACH OF WARRANTY OR TORT, AND WHETHER OR NOT MITS KNEW OR OUGHT TO HAVE KNOWN OF THE POSSIBILITY OF SUCH DAMAGE OR LOSS.
- 8. This warranty gives you specific legal rights, and you may have other rights which may vary from Province to Province within Canada. In the event that portions of this warranty may be struck down in your jurisdiction, this does not render the remaining portions of this warranty to be void.
- 9. This warranty applies only to Equipment sold in Canada by MITS and installed and used in Canada. This warranty is not transferable.
- 10. Register warranty at https://www.mitsair.com/warranty-registration/