



ADVANCED
DC INVERTER
TECHNOLOGY

Universal[®] Series

High ESP AIR HANDLER
Up to 17 SEER2 Central Heat & Air Systems

Designed specifically for high static applications, the Universal High ESP Air Handler delivers superior cooling and heating comfort while still providing an industry-leading low decibel level as it maximizes energy savings.

www.mrcool.com

Version Date: 02-15-2023

Benefits & Features



- ✓ 3 Connection Types:
 - Patented* Pre-charged No-Vac® Quick Connect® Line Set (15 ft, 25 ft, 35 ft, 50 ft-Couplings also available)
 - Sweat Braze Fitting
 - Flare Fitting
- ✓ Up to 20 SEER Efficiency Rating
- ✓ Uses Environmentally-Friendly R-410A Refrigerant
- ✓ Easy to Clean Metal Filter Protects Against Fire, Corrosion, and Deterioration
- ✓ Capacities Available: 2-3 Ton or 4-5 Ton
- ✓ Multi-Position Installation (Upflow, Horizontal)
- ✓ 2-Step Condensation Protection
- ✓ 10-Year Limited Warranty*
- ✓ Quiet operation: 45-51 dB(a) noise level
- ✓ Air Handler Can Be Field Converted to 2-Ton from 3-Ton or 4-Ton from 5-Ton By Changing Dip Switch Settings (see manual for details)

The NEW Universal® High-ESP Air Handler has been designed for use in high static pressure applications such as in systems with ductwork restrictions that could place a strain on a conventional air handler not rated for high external static pressure.

This air handler is equipped with a powerful and efficient DC fan motor designed for quiet operation while still providing dynamic performance. Of course, it will still match superbly with a Universal® condenser in a traditional central air conditioning and heating system.



*Pat: <https://mrcool.com/mrcool-patents/>

SPECIFICATION

UNIVERSAL[®] High ESP Air Handler

MODEL NO.	UNITS	MDUI18024E	MDUI18036E	MDUI18048E	MDUI18060E
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CAPACITY & PERFORMANCE

Cooling Capacity	Btu/h (kW)	24,000 (7 kW)	34,000 (10 kW)	48,000 (14 kW)	54,000 (15.83 kW)
SEER2	Btu/w	17	16	17	15.8
Heating Capacity	Btu/h	24,000 (7 kW)	36,000 (10.55 kW)	48,000 (14 kW)	54,000 (15.83 kW)
EER2	(Btu/h)/W	12	12	11	10
HSPF2	Btu/w	9	9	9	9
Noise level - Air Handler	dB(A)	45	47	50	51

ELECTRICAL PARTS

Min/Max Voltage	V	187/253	187/253	187/253	187/253
Rated Voltage	V	208/230	208/230	208/230	208/230
Min. Current Ampacity (MCA)	A	4	4	8	8
Max. Current Over Protection (MOP)	A	15	15	15	15

DIMENSIONS & WEIGHT

Net Dimension	(L x W x H)	inch (mm)	21-1/4 x 21-1/4 x 48-1/4 (540 x 540 x 1224)	21-1/4 x 21-1/4 x 48-1/4 (540 x 540 x 1224)	24-3/4 x 21-1/4 x 57 (630 x 540 x 1448)	24-3/4 x 21-1/4 x 57 (630 x 540 x 1448)
Packing Dimension	(L x W x H)	inch (mm)	26 x 23-3/4 x 50-3/8 (660 x 603 x 1280)	26 x 23-3/4 x 50-3/8 (660 x 603 x 1280)	27-1/4 x 26 x 59-3/8 (693 x 660 x 1508)	27-1/4 x 26 x 59-3/8 (693 x 660 x 1508)
Net weight	Indoor	lbs (kg)	156.5 (71)	156.5 (71)	203 (92)	203 (92)
Gross Weight	Indoor	lbs (kg)	169.8 (77)	169.8 (77)	218 (99)	218 (99)

REFRIGERANT & PIPING

Refrigerant Charge (R-410A)	oz	148.8	148.8	220.48	220.48
Connection Pipe Method		Quick Connect [®] , Flare, Weld (with Stub)	Quick Connect [®] , Flare, Weld (with Stub)	Quick Connect [®] , Flare, Weld (with Stub)	Quick Connect [®] , Flare, Weld (with Stub)



* Data provided by AHRM



- ✔ Kink Resistant for Easier Bending During Installation.
- ✔ 100% Accurately Precharged R-410A Refrigerant standard sizes: 15 ft, 25 ft, 35 ft, 50 ft.
- ✔ Optional No-Vac[®] Couplers can be used to combine two standard line sets to extend the length if needed.
- ✔ Simple to Use, Leak Proof, and Screw-on Quick Connect Valves do not require vacuuming.
- ✔ Quicker Installation than Conventional Line Sets.
- ✔ Strong 3/4 inch Gator-Flextra[™] UV Protective Insulation provides extra protection against sun damage, weather erosion, or destruction from animals or insects.

NO-VAC[®]
Quick-Connect[®]
Pre-Charged
Line Set





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**Phone: 270-366-0457
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***Display Images for demonstrative purposes only. Actual images during product use may vary.**

NOTICE: MRCOOL® products must be installed in accordance with all applicable local, state and federal codes and regulations. Unless explicitly stated otherwise, installation must be completed by a licensed / certified HVAC technician. ALL electrical connections to a power source must be performed by a licensed electrician and comply with local, state and federal electrical codes and regulations.
