



ADVANCED  
DC INVERTER  
TECHNOLOGY

# Universal<sup>®</sup> Series

**High ESP AIR HANDLER**  
**Up to 20 SEER Central Heat & Air Systems**

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

[www.mrcool.com](http://www.mrcool.com)

# Benefits & Features



- ✓ 3 Connection Types:
  - Pre-charged No-Vac® Quick Connect® Line Set (15ft, 25ft, 35ft, 50ft-Couplings also available)
  - Sweat Braze Fitting
  - Flare Fitting
- ✓ 2 Step Condensation Protection
- ✓ Internal Fan Blade Creates Low Noise
- ✓ High Efficient Energy Saving DC Fan Motor
- ✓ Easy to Clean Metal Filter Protects Against Fire, Corrosion, and Deterioration
- ✓ Sizes: 2-3 Ton or 4-5 Ton
- ✓ Multi-Position Installation (Upflow, Horizontal)
- ✓ 10 Year Limited Warranty\*
- ✓ The Special Fire-Proof Electrical Box Design Offers Anti-Electric Shock Reserved Installation Space for the Circuit Breaker
- ✓ R410A Factory Pre-Charged Air Handler Can Be Field Converted to 2 Ton from 3 Ton or 4 Ton from 5 Ton using a Dip Switch Setting (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.





## SPECIFICATION

## UNIVERSAL<sup>®</sup> High ESP Air Handler

MODEL NO.	UNITS	MDUI18024E	MDUI18036E	MDUI18048E	MDUI18060E
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### CAPACITY & PERFORMANCE

Cooling Capacity	Btu/h (kW)	24000 (7kW)	36000 (10.55kW)	48000(14kW)	54000 (15.83kW)
SEER	Btu/w	Up to 20	Up to 18	Up to 18	Up to 17
Heating Capacity	Btu/h	24000 (7kW)	36000 (10.55kW)	48000(14kW)	54000 (15.83kW)
EER	(Btu/h)/W	12.5	10	11.5	10.5
HSPF	Btu/w	10.5	10	10.5	10
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	(LxWxH)	inch (mm)	21.25x21.25x48.25 (540x540x1226)	21.25x21.25x48.25 (540x540x1224)	24.75x21.25x57 (629x540x1448)	24.75x21.25x57.25 (629x540x1454)
Packing Dimension	(LxWxH)	inch (mm)	26x23.75x50.375 (660x603x1280)	26x23.75x50.375 (660x603x1280)	27.25x26x59.375 (692x660x1508)	27.25x26x59.375 (693x660x1508)
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 Type	oz	R-410A	R-410A	R-410A	R-410A
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 AHRI



- ✓ Kink Resistant for Easier Bending During Installation.
- ✓ 100% Accurately Precharged R410A Refrigerant standard sizes: 15 ft, 25ft, 35ft, 50ft.
- ✓ 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" Gator-Flextra™ UV Protective Insulation provides extra protection against sun damage, weather erosion, or destruction from animals or insects.

**NO-VAC<sup>®</sup>**  
**Quick-Connect<sup>®</sup>**  
**Pre-Charged**  
**Line Set**





**48 Remington Way  
Hickory, KY 42051**

**Phone: 270-366-0457  
[www.mrcool.com](http://www.mrcool.com)**

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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.

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