

Ultra-Aire™ 100V Ventilating Dehumidifier

The **Ultra-Aire 100V** is a high-efficiency, whole-house ventilating dehumidifier. The unit's vertical configuration and small-footprint make it the ideal solution for applications where floor space is limited. This unit removes up to 105 pints per day and is ENERGY-STAR® rated.

The Ultra-Aire 100V's integral filter housing is capable of holding a total of 6" of filter media. This allows the UA 100V to provide a variety of filtrations options without additional equipment, including MERV 14 filtration.

The UA 100V is designed to handle up to 2500 sq. ft, which makes it ideal for typical family home applications.



ULTRA-AIRE 100V SPECIFICATIONS

Part Number:	4029710
Blower:	240 CFM @ 0.1" WG
Supply Voltage:	115 Volt – 1 Phase – 60 Hz.
Current Draw:	6.5 Amps
Energy Factor:	2.9 L/kWh
Operating Range:	56°F Min, 100°F Max (inlet Air Temperature)
Sized For:	2500 Square Foot Typical
Minimum Performance @ 80°F and 60% RH:	
Water Removal:	105 Pints/Day
Efficiency:	6.2 Pints/kWh
UA-100V Duct Connections:	6" Round Inlet 8" Round Inlet 8" Round Outlet
Filter Efficiency:	Standard MERV-11 (65% ASHRAE Dust Spot) Optional MERV-14 (95% ASHRAE Dust Spot)
Power Cord:	9', 115V With Ground
Drain Connection:	.56" ID x 8' Vinyl Hose
UA-100V Dimensions:	24"W x 48"H x 17"L – 119lbs.

OPTIONAL ACCESSORIES

4021475	Merv 11 Standard Filter 16" x 20" x 2"
4022489	Merv 14 95% Efficient Filter 16" x 20" x 4"



One of the best Limited Warranties in the industry today –

5 YEARS 100% – All Parts and Labor
5 YEARS 100% – Condenser, Evaporator, and Compressor only (with certain limitations)

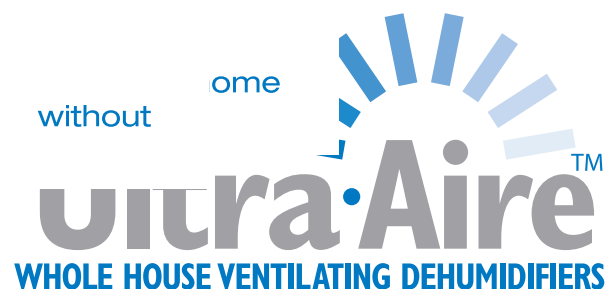
ULTRA-AIRE 100V INSTALLATION OPTIONS

Control Options	Part Number
DEH 3000 - Digital Control	4028539
DEH 3000R - Digital Control	4028407
Ducting Options	
6", 2 wire 24 volt Electric Air Damper	4023672
8" Backdraft Damper	4024375
8" Starting Collar (Included w/ Unit)	N/A
6" Outside Air Intake Vent (Not Provided)	N/A
Insulated 6" Air Duct (Flex) - 25 ft.	4020128
Insulated 8" Air Duct (Flex) - 25 ft.	4022126
Condensate Pump Kit	4022220

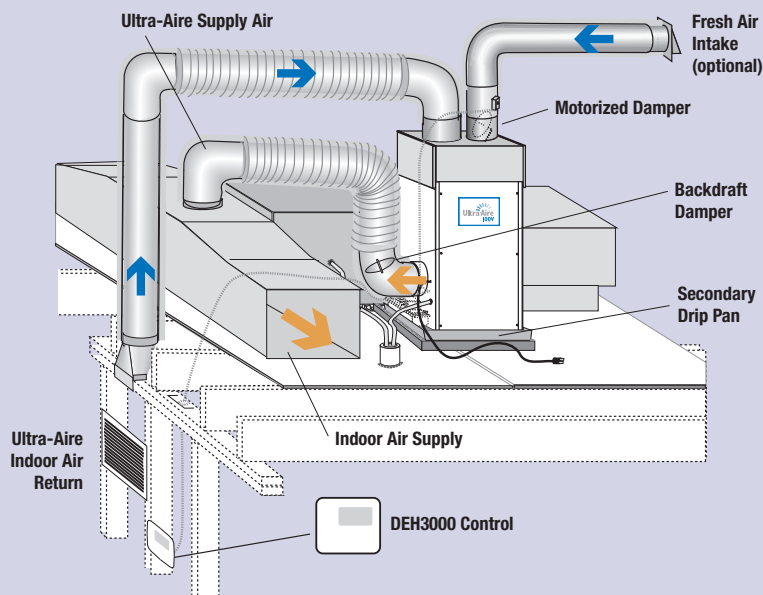
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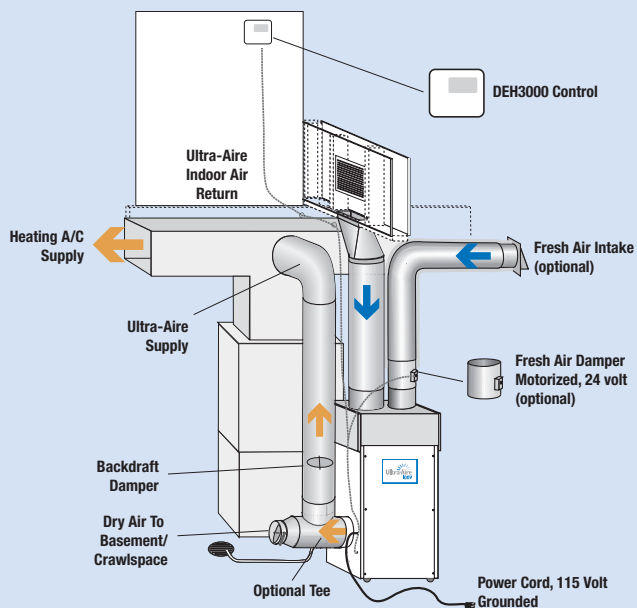


Ultra-Aire™ 100V Installation Options



ULTRA-AIRE 100V ATTIC INSTALLATION

1. The indoor air return should come from an open area on the first floor or main level of the home / building.
2. The Ultra-Aire supply can be ducted into the forced air system past the air conditioning coil. The duct connection should be perpendicular to the air flow. You may also run an independent supply directly from the dehumidifier into a large open room. Depending on the application, multiple returns and or supplies may be needed.
3. The optional six inch fresh air intake should be located at least six feet away from any exhaust ports, such as, dryer, range hood, or combustion device exhaust. Intake location should be consistent with local codes.
4. A section of flex duct or vibration absorbing duct should be located between the connections of the Ultra-Aire ductwork and the forced air system ductwork. (When ducting into the forced air systems)
5. A back draft damper should be installed when ducting into the forced air system. This prevents counter-flow of the A/C supply air through the UA 100V. A back draft damper is not needed when ducted independently.
6. If placed over a finished area, a secondary drip pan is recommended



ULTRA-AIRE 100V BASEMENT OR CRAWLSPACE INSTALLATION

1. Indoor air return should come from an open area of the first or second floor.
2. The Ultra-Aire supply should be ducted into the forced air system supply beyond the air conditioning coil. The duct connection should be perpendicular to the air flow.
3. An optional ten inch tee fitting with an adjustable blade damper on the straight run may be attached at the Ultra-Aire supply. This allows for increased air flow to the basement/crawlspace during the summer months.
4. The optional six inch fresh air intake should be located at least six feet away from any exhaust ports, such as, dryer, range hood, or combustion device exhaust. Intake location must be consistent with local codes.
5. A section of flex duct or vibration absorbing duct should be located between the connections of the Ultra-Aire ductwork and the forced air system ductwork.
6. The backdraft damper prevents counter-flow of the A/C supply air through the Ultra-Aire 100V.

Please Note: Therma-Stor does not recommend drawing air from the return ducting system and discharging into the supply, because it could reduce the capacity and may cause potential counterflow through the unit. Preferred installation is to draw air from a separate intake duct located in the central part of the home. Duct the outlet air into the supply duct for distribution throughout the home. A backdraft damper prevents air from the supply duct from being pushed backward through the Ultra-Aire 100V when central (A/C) fan is on and the Ultra-Aire fan is off.