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 110 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.

4029710

ENERGY STAR

ULTRA-AIRE 100V SPECIFICATIONS

Part Number:	4029710
Blower:	255 CFM @ 0.0" WG 215 CFM @ 0.2" WG 170 CFM @ 0.4" WG
Power:	700 Watts @ 80°F and 60% RH
Supply Voltage:	115 VAC – 1phase – 60 Hz
Current Draw:	6.4 Amps
Energy Factor:	3.0 L/kWh
Operating Range:	56°F Min, 95°F Max (Inlet Air Temperature)
Sized for:	Up to 2,500 Sq. Ft. - Typical
Minimum Performance at 80°F and 60% RH	
Water Removal:	110 pints/day
Efficiency:	6.2 Pints/kWh
Duct Connections:	
6" Round Inlet; 8" Round Inlet; 8" Round Outlet	
Air Filter:	MERV-11, Standard Pleat
Efficiency:	65% ASHRAE Dust Spot
Size:	16" x 20" x 2"
Optional Air Filter:	MERV-14, Embossed Pleat
Efficiency:	95% ASHRAE Dust Spot
Size:	16" x 20" x 4"
Power Cord:	9', 115 VAC, Ground
Drain Hose:	6' Direct Gravity Drain Hose (9/16" ID x 3/4" OD)
Refrigerant Type:	R410A (Refer to manufacturers label for more information)
Refrigerant Amount:	1 lb. 9 oz.

Dimensions:	Unit With Collars	Unit Without Collars	Shipping
Width:	21"	19 3/4"	24"
Height:	49"	43"	49"
Length:	17"	17"	21"
Weight:	119 lbs.	120 lbs.	138 lbs.

6 YEAR FULL WARRANTY

The Best in the Industry!

OPTIONAL ACCESSORIES

4028539	DEH 3000 Control
4028407	DEH 3000R Control (with remote)
4021475	MERV 11 Filter (16"x20"x2")
4027420	MERV 11 Filters 4-Pack
4027424	MERV 11 Filters 12-Pack
4024528	Bulk Carbon Granules
4022220	Pump Kit
4022489	MERV 14 Filter (16"x20"x4")
4023484	Attic Insulation Kit
4023672	6" Motorized Damper
4026859	6" Flex Duct 25'
4020128	6" Flex Insulated Duct 25'
4020656	6" Inlet/Exhaust Hood
4023647	8" Gravity Damper
4020646	8" Butterfly Damper
4027415	8" Flex Duct 25'
4020177	8" Flex Insulated Duct 25'

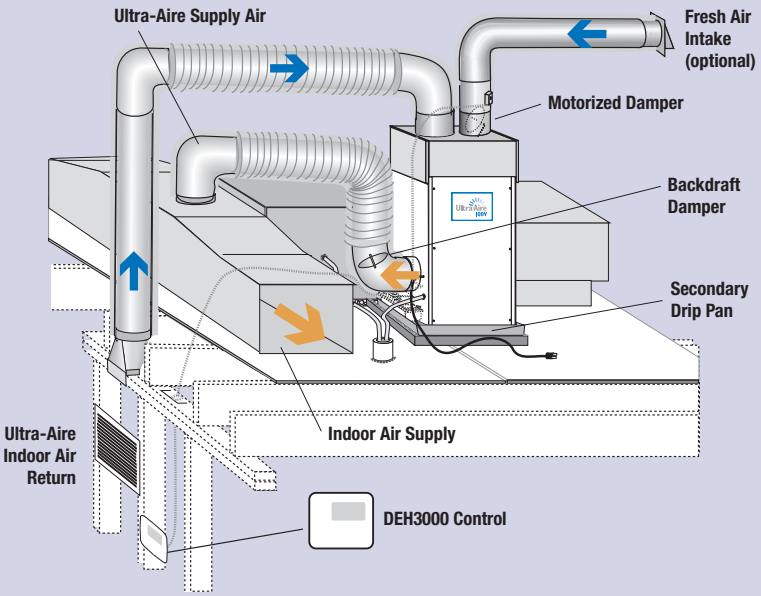
Ultra-Aire™

WHOLE HOUSE VENTILATING DEHUMIDIFIERS

MADISON, WIS.

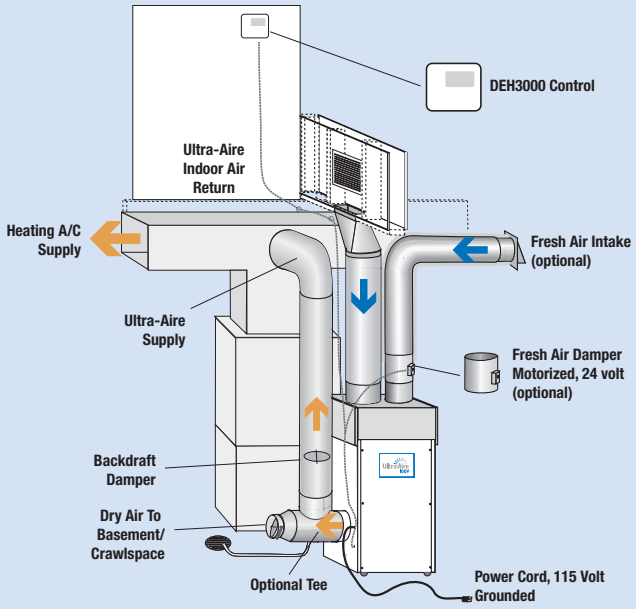
SPRAY POLYURETHANE FOAM ALLIANCE SPFA MEMBER ID #51102120 Verify this membership at www.sprayfoam.org

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.

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