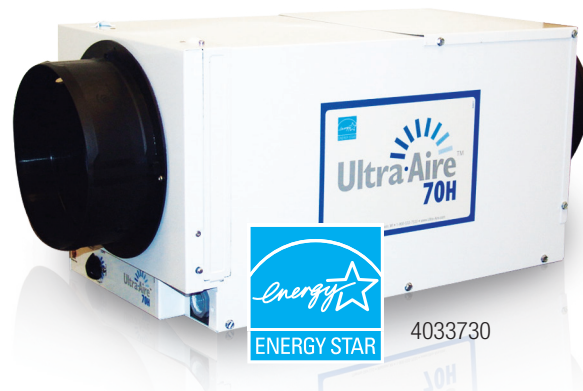


# Ultra-Aire™ 70H Ventilating Dehumidifier

The Ultra-Aire 70H is the first compact, high-efficiency, whole-house ventilating dehumidifier designed to fit in tight, low-clearance applications. The unit removes up to 70 pints per day, is ENERGY-STAR® rated and provides effective air filtration (MERV 11). The UA 70H is designed to handle up to 1800 sq. ft, which makes it ideal for a small home, condo or apartment application. The unit can be tied into a forced air duct system, ducted with separate ducting or used in a freestanding application and can be installed in mechanical rooms, closets, attics, basements and crawlspaces.

The UA70H has an innovative cabinet design that easily converts to either vertical or horizontal airflow discharge which allows for easier installation in tight spaces. Flexible airflow configurations allow the UA70H to be installed in locations where other dehumidifiers don't fit due to duct issues and size constraints.



## ULTRA-AIRE 70H SPECIFICATIONS

<b>Part Number:</b>	4033730		
<b>Blower:</b>	150 CFM @ 0.0" WG 140 CFM @ 0.2" WG 130 CFM @ 0.4" WG		
<b>Power:</b>	580 Watts @ 80°F and 60% RH		
<b>Supply Voltage:</b>	115 VAC – 1phase – 60 Hz		
<b>Current Draw:</b>	5.1 Amps		
<b>Energy Factor:</b>	2.4 L/kWh		
<b>Operating Range:</b>	Between 49°F and 95°F Max (Inlet Air Temperature)		
<b>Sized for:</b>	Up to 1,800 Sq. Ft. - Typical		
<b>Minimum Performance at 80°F and 60% RH</b>			
Water Removal:	70 pints/day		
Efficiency:	5.0 Pints/kWh		
<b>Duct Connections:</b>	8" Round Inlet; 8" Round Outlet		
<b>Air Filter:</b>	MERV-11, Mini Pleat		
Efficiency:	65% ASHRAE Dust Spot		
Size:	9" x 11" x 1"		
<b>Optional Air Filter:</b>	MERV-14, Embossed Pleat (will need filter housing)		
Efficiency:	95% ASHRAE Dust Spot		
Size:	20" x 24" x 4"		
<b>Power Cord:</b>	9', 115 VAC, Ground		
<b>Drain Connection:</b>	3/4" Threaded Female NPT		
<b>Refrigerant Type:</b>	R410A (Refer to manufacturers label for more information)		
Refrigerant Amount:	15 oz.		

<b>Dimensions:</b>	Unit With Collars	Unit Without Collars	Shipping
Width:	12"	12"	15 5/8"
Height:	12"	12"	16"
Length:	28"	22"	31 5/8"
Weight:	55 lbs.	54 lbs.	65 lbs.



One of the best Limited Warranties in the industry today –

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

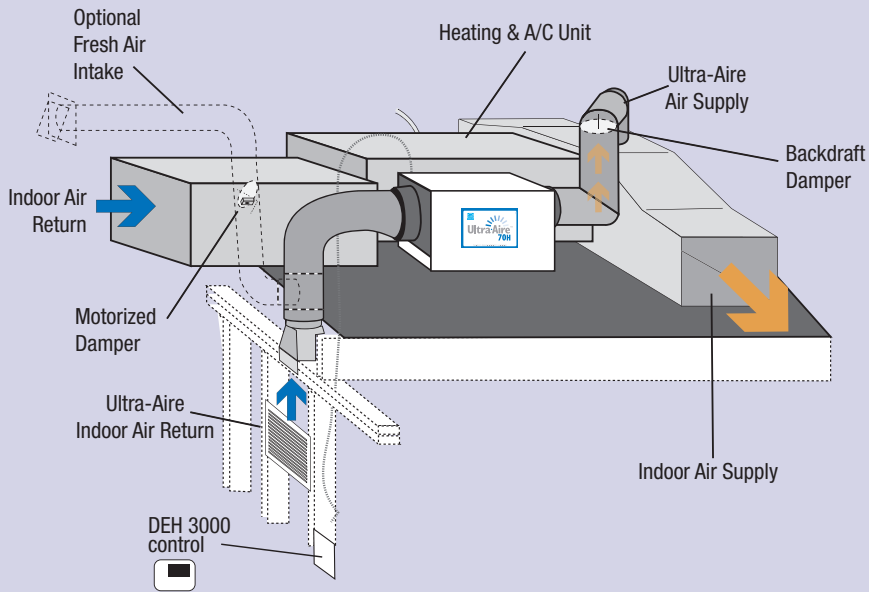
## OPTIONAL ACCESSORIES

4028539	DEH 3000 Control
4028407	DEH 3000R Control (with remote)
4030671	MERV 11 Filter (9"x11"x1")
4030734	MERV 11 Filters 4-Pack
4030733	MERV 11 Filters 12-Pack
4030113	Pump Kit
4029908	Hang Kit
4025287	MERV 14 Filter Housing
4024370	MERV 14 Filter (20"x24"x4")
4029087	MERV 14 Filters 3-Pack
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'



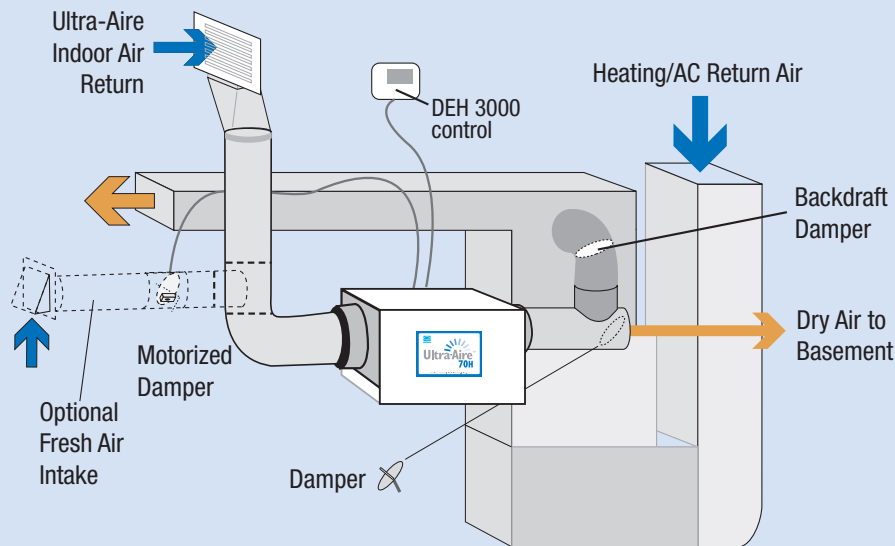
Home Innovation  
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# Ultra-Aire™ 70H Installation Options



## ULTRA-AIRE 70H 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 70H. 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 70H 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 eight 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 70H.

**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 70H when central (A/C) fan is on and the Ultra-Aire fan is off.