

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. (See picture below.)



ULTRA-AIRE 70H SPECIFICATIONS

Part Number:	4029870
Blower:	160 CFM @ 0.0" WG
Power:	600 Watts @ 80°F and 60% RH
Supply Voltage:	110-120 VAC – 1phase – 60 Hz
Current Draw:	5.3 Amps
Energy Factor:	2.32 L/kWh
Operating Range:	Between 45°F and 95°F Max (inlet Air Temperature)
Sized for:	Up to 1800 Sq. Ft. - Typical
Minimum Performance at 80°F and 60% RH	
Water Removal:	70 pints/day
Efficiency:	4.9 Pints/kWh
Air Filter:	MERV-11
Efficiency:	Standard 65% Efficient ASHRAE Dust Spot Test
Size:	9" x 11" x 1"
Power Cord:	9', 110-120 VAC, Ground
Drain Connection:	3/4" Threaded NPT
UA 70H Dimensions:	28"W x 12"H x 12"L – 55lbs.



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

4027158	MERV 11 Filter
4027422	MERV 11 4-Pack
4027427	MERV 11 12-Pack
4023647	8" Gravity Damper
4020646	8" Butterfly Damper
4027415	8" Flex Duct
4020177	8" Flex Duct (Insulated)

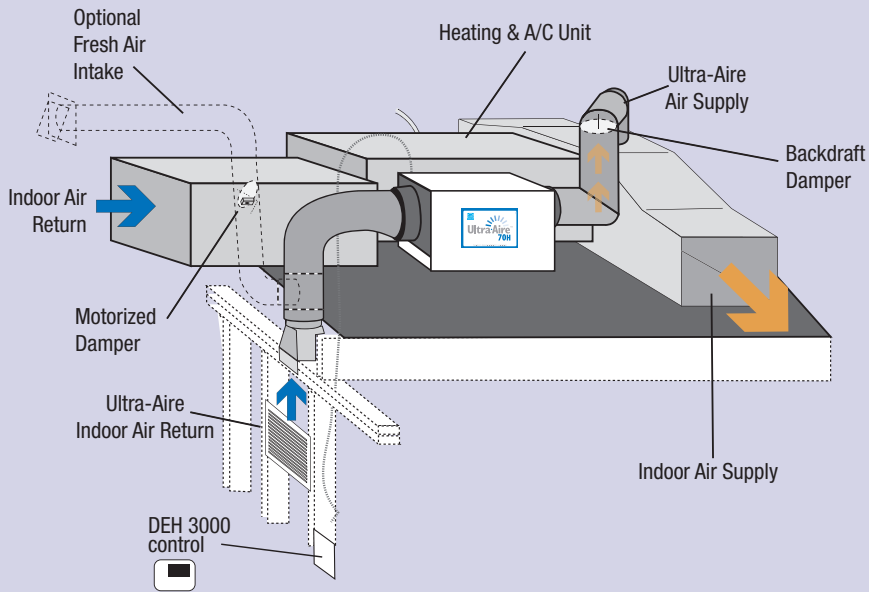
ULTRA-AIRE 70H INSTALLATION OPTIONS

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
Insulated 6" Air Duct (Flex) - 25 ft.	4020128
Hang Kit	4029908
Pump Kit	4030113

It's not a dream home without

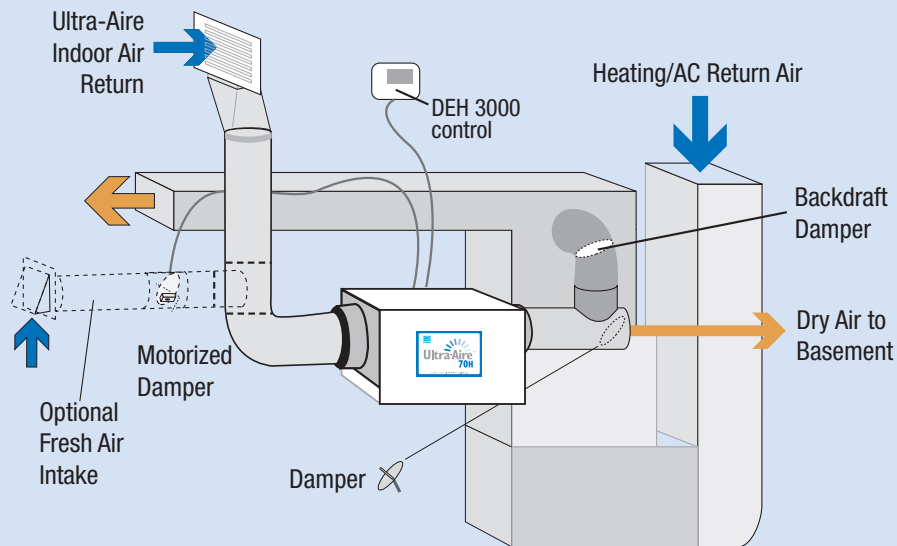
Ultra-Aire™

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.