

# Ultra-Aire™ 65H Ventilating Dehumidifier

The **Ultra-Aire 65H** is the first compact, high-efficiency, whole-house ventilating dehumidifier designed to fit in tight, low-clearance applications. The unit removes up to 65 pints per day, is Energy-Star rated and provides effective air filtration (MERV 11). The UA 65H is designed to handle up to 1600 sq. ft, which makes it ideal for a small home, condo or apartment application. The unit can be tied into the A/C or run independently and can be installed in mechanical rooms, closets, attics, basements, and crawlspaces.

The UA 65H can be installed with the Ultra-Aire Air Flow Conversion Kit, which expands the install options by enabling the unit to exhaust vertically or horizontally, allowing for easier installation in tight, shallow spaces. By changing the airflow of the 65H, it can now be installed in areas where most dehumidifiers cannot, due to duct issues and size constraints.



## ULTRA-AIRE 65H SPECIFICATIONS

<b>Part Number:</b>	4027170
<b>Blower:</b>	190 CFM @ 0.0" WG
<b>Power:</b>	680 Watts @ 80°F and 60% RH
<b>Supply Voltage:</b>	110-120 VAC – 1phase – 60 Hz
<b>Current Draw:</b>	5.50 Amps
<b>Energy Factor:</b>	2.0 L/kWh
<b>Operating Range:</b>	Between 40°F and 95°F Max (inlet Air Temperature)
<b>Sized for:</b>	Up to 1600 Sq. Ft. - Typical
<b>Minimum Performance at 80°F and 60% RH</b>	
Water Removal:	65 pints/day
Efficiency:	4.3 Pints/kWh
<b>Air Filter:</b>	MERV-11
Efficiency:	Standard 65% Efficient ASHRAE Dust Spot Test
Size:	9" x 11" x 1"
<b>Power Cord:</b>	9', 110-120 VAC, Ground
<b>Drain Connection:</b>	3/4" Threaded MPT
<b>Drain Hose:</b>	5/8" ID x 8'
<b>UA 65H Dimensions:</b>	21"W x 12"H x 12"L – 55lbs.

## 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)
4027430	Register Head 8"
4020126	Register Grill (White)



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)

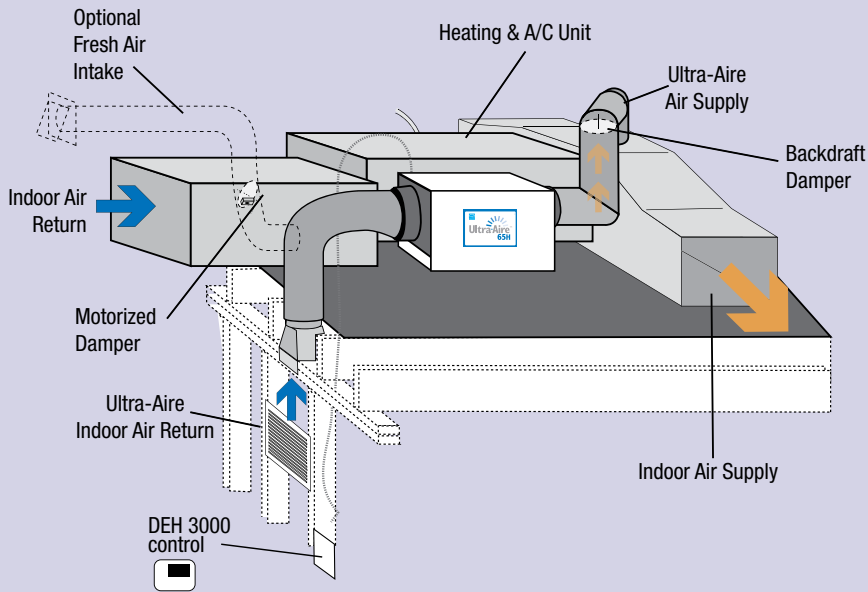
## ULTRA-AIRE 65H INSTALLATION OPTIONS

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" Gravity Damper	4023647
8" Butterfly Damper	4020646
8" Flex Duct	4027415
8" Flex Duct (insulated)	4020177
Insulated 6" Air Duct (Flex) - 25 ft.	4020128
Insulated 10" Air Duct (Flex) - 25 ft.	
Air Flow Conversion Kit	4028500
Hang Kit	4028111
Pump Kit	4028085

It's not a dream home without

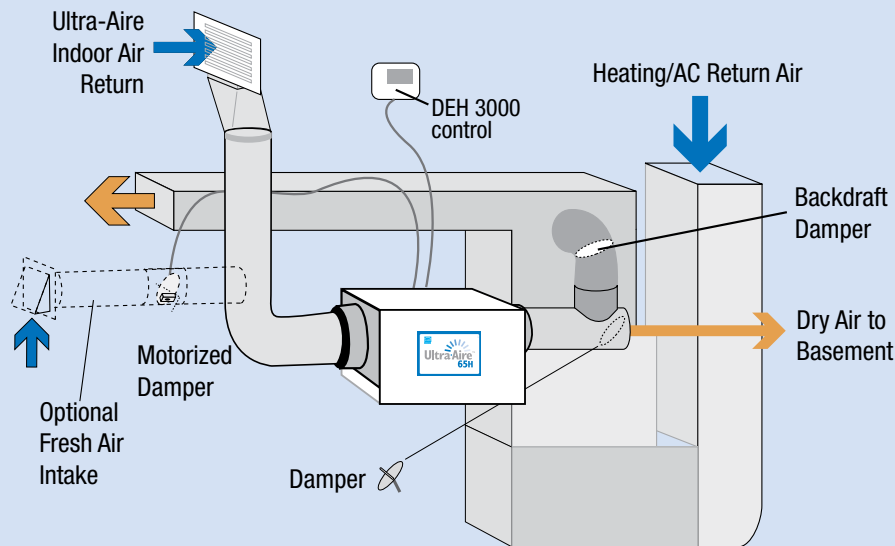
# Ultra-Aire™

# Ultra-Aire™ 65H Installation Options



## ULTRA-AIRE 65H 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 65H. 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 65H 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 65H.

**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 65H when central (A/C) fan is on and the Ultra-Aire fan is off.