

allergic reaction to mold? dustmites? musty odors? feeling clammy?

Magnified photo of actual mold spore.

Create a Comfortable and Healthy Home!



- **Patented optimized air-to-air heat exchanger.**
- **Requires only 6.9 amps of electricity — half the amount of competitors!**
- **Environmentally-friendly R410A refrigerant.**
- **High-efficiency, long-life impeller fan.**
- **Insulated cabinet for quiet operation and superior high static pressure performance.**
- **Pre-configured for fresh air ventilation.**
- **Industry-leading 7.9 pints per kWh.**
- **Size for 3500 sq. ft. home.**

Moisture in the home has many sources: people, pets, plants, cooking, washing, ground water, and infiltration of outside air. Too much moisture in the home can create musty odors and can also stimulate the growth of mold, mildew, bacteria, and other biological allergens.

DEHUMIDIFICATION

To avoid the problems caused by moisture, and create a comfortable environment, a dehumidifier is necessary to maintain relative humidity between 45-50% throughout the home. Only supplemental dehumidification provides indoor humidity control regardless of air conditioner operation or outside moisture conditions.



The Ultra-Aire XT150H is the first Therma-Stor dehumidifier to utilize XT Dehumidification (extreme technology). XT DEHUMIDIFICATION OFFERS THE END-USER AN ENERGY EFFICIENCY LEVEL UNMATCHED IN THE INDUSTRY! This high capacity whole house ventilating

dehumidifier delivers 150 pints per day at standard conditions using only 6.9 amps. That equates to 7.9 pints per kilowatt hour with an energy factor of 3.74. As is standard with all Ultra-Air products, the UA-XT150H will effectively dehumidify down to 56°F and will provide outstanding performance, regardless of the season.

FRESH AIR VENTILATION

Optional fresh outdoor air may be ducted to the unit via a six inch round duct. This provides fresh air to dilute pollutants and maintain high oxygen content in the air. The amount of fresh air ventilation can be regulated by a variety of dampers and controls.

AIR FILTRATION

The Ultra-Aire XT150H includes air filtration to improve indoor air quality. A MERV-11 media filter is standard. A separate, optional filter housing is available which provides additional filtration up to Merv-14 efficiency.

Specifications and Installation

Part Number:	4026480
Blower:	415 CFM @ 0.0" WG 365 CFM @ 0.4" WG
Power:	800 Watts @ 80°F and 60% RH
Supply Voltage:	110-120 VAC – 1 Phase – 60 Hz.
Current Draw:	6.9 Amps
Energy Factor:	3.7
Operating Temp.:	56°F Min, 100°F Max
Sized For:	3500 Square Foot Typical
Minimum Performance @ 80°F and 60% RH:	
Water Removal:	150 Pints/Day
Efficiency:	7.9 Pints/kWh



UA-XT150H Duct Connections:	
6" Round Inlet; 10" Round Inlet; 10" Oval Outlet	
Air Filter:	Standard MERV-11; Size: 16" x 20" x 2" Efficiency: 65% ASHRAE Dust Spot Test Optional MERV-14, Size: 20" x 24" x 4" Efficiency: 95% ASHRAE Dust Spot Test
Power Cord:	7', 110-120 VAC, Ground
Drain Connection:	.62" ID x 8' Vinyl Hose

UA-XT150H Dimensions:		
	Unit	Shipping
Width:	37 1/2" without collars 39 1/2" with collars	42"
Height:	22"	28 1/4"
Depth:	20 5/8"	24"
Weight:	134 lbs	164 lbs

OPTIONAL ACCESSORIES

4021475	MERV 11 Filter
4027420	MERV 11 4-Pack
4027424	MERV 11 12-Pack
4025287	Filter Housing (4024370)
4024370	MERV 14 Filter (4025287)
4022220	Pump Kit
4023672	6" Motorized Damper
4026859	6" Flex Duct
4020128	6" Flex Duct (Insulated)
4020656	6" Inlet/Exhaust Hood
4024375	10" Gravity Damper
4026969	10" Flex Duct
4022126	10" Flex Duct (Insulated)
4027431	Register Head 10"
4020126	Register Grill (White)

INSTALLATION MATERIALS

Control Options	Part Number
DEH 3000 - Digital Control	4028539
DEH 3000R - Digital Control	4028407

Ducting Options	Part Number
6", 2 wire 24 volt Electric Air Damper	4023672
10" Backdraft Damper	4024375
10" Starting Collar (Included w/ Unit)	N/A
6" Outside Air Intake Vent (Not Provided)	N/A
Duct Tape (Not Provided)	N/A
Large Cable Ties (Not Provided)	N/A
Insulated 6" Air Duct (Flex) - 25 ft.	4020128
Insulated 10" Air Duct (Flex) - 25 ft.	4022126

Plumbing - Not Provided By Therma-Stor
3/4" PVC Pipe
3/4" PVC Threaded Nipple
3/4" PVC Elbow
PVC Primer and Glue

Electrical - Not Provided By Therma-Stor
12-2 Non-Metallic Sheeted NM-B (Romex) Wire
20 AMP 120 Volt Single Pole Breaker
20 AMP 120 Volt Rated (3) Prong Outlet
Thermostat Wire (5Conductor, 18 AWG)
Wire Staples
Outlet Cover
Outlet Box

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 UA-XT150H when central (A/C) fan is on and the Ultra-Aire fan is off.

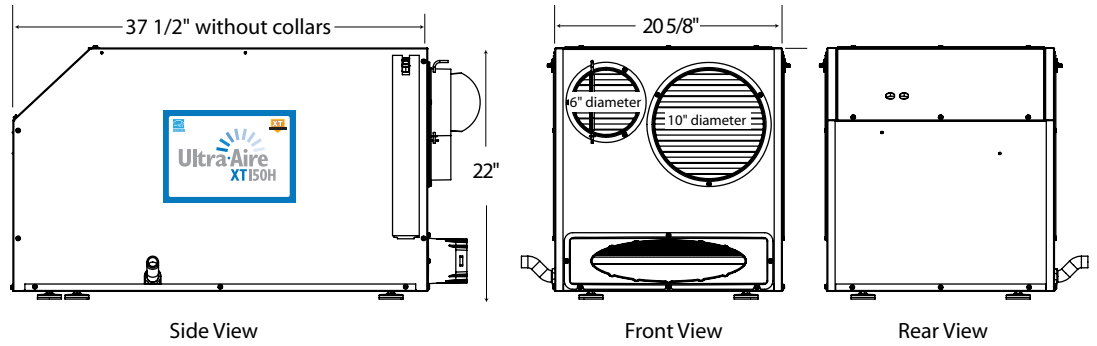
Therma-Stor does not recommend drawing air from the return ducting system and discharging into the supply for two reasons:

Central Fan On: The Ultra-Aire XT150H is pulling against a negative pressure (intake side) and discharging against a positive pressure (outlet side), which results in lower airflow and reduced capacity.

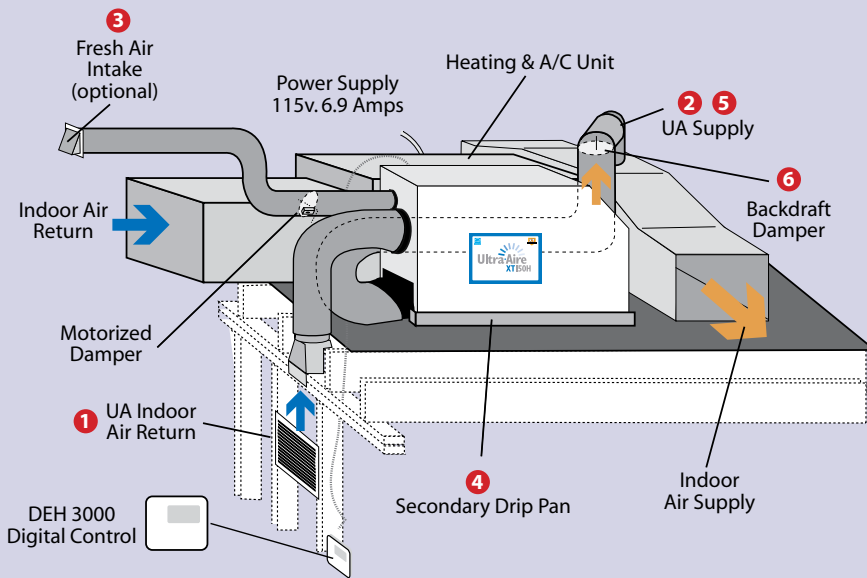
Central Fan Off: Discharge air may counter-flow from the supply duct directly to the return duct and not be distributed throughout the home effectively.

Ultra-Aire XT150H

Ultra-Aire™
XT150H

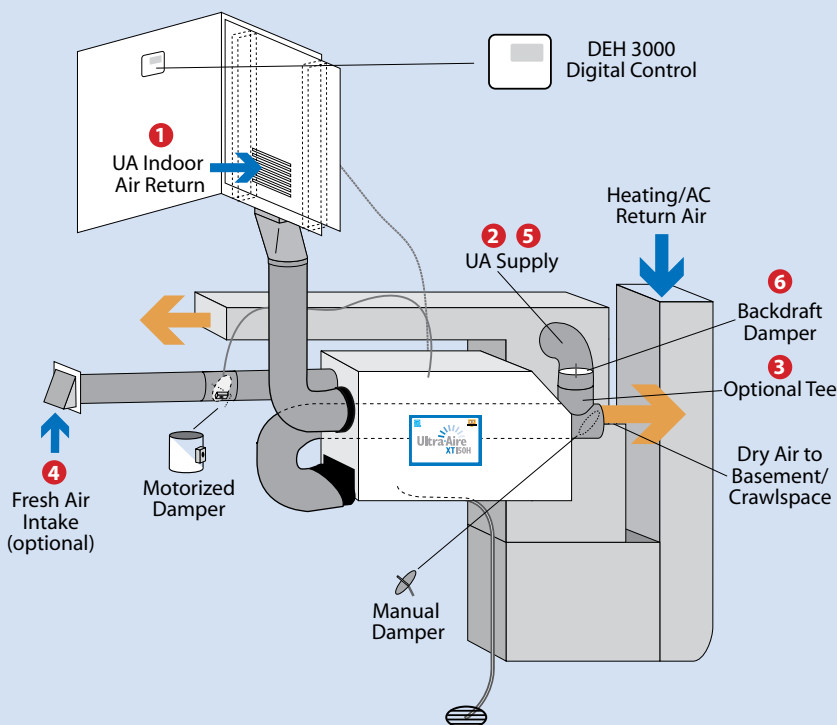


installation



ULTRA-AIRE XT150H ATTIC 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 past the air conditioning coil. The duct connection should be perpendicular to the air flow.
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.
5. The backdraft damper prevents counter-flow of the A/C supply air through the UA-XT150H.



ULTRA-AIRE XT150H BASEMENT OR CRAWL SPACE 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 above 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 should be attached at the Ultra-Aire supply collar. 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 should 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 duct work and the forced air system duct work.
6. The backdraft damper prevents counter-flow of the A/C supply air through the Ultra-Aire.

Additional Ultra-Aire Accessories



4026208

Do you know the relative humidity levels in your home?

The Humidity Alert™ was designed to discriminate between occasional periods of high humidity and the prolonged periods that create a risk of unhealthy biological activity. It's a simple, inexpensive device that monitors temperature and relative humidity conditions and records data that is known to contribute to **wood rot, mold growth, musty odors and increased pest activity.**

Easy to use:

1. Place the meter in the desired space.
2. Collect the necessary humidity data.



4028539

Ultra-Aire Digital Controller

You will enjoy the comfort that comes with precise regulation of your indoor environment with our new **DEH 3000 Digital Control**. This control will allow you the ability to monitor and control relative humidity levels in your home. The DEH 3000 is designed to accommodate your personal comfort level.

This unit replaces the DEH 2000 Digital Control. To be used with the Ultra-Aire Whole House Ventilating Dehumidifiers.