

Specifications and Installation

Part Number:	4025700
Blower:	240 CFM @ 0.0" WG 220 CFM @ 0.4" WG
Supply Voltage:	110 -120 Volt – 60 Hz.
Amps:	6.3
Energy Factor:	2.5
Operating Temp.:	56°F Min, 100°F Max
Sized For:	2200 Square Foot Typical
Minimum Performance at Set Conditions:	
Intake Air:	80°F, 60% RH
Capacity:	90 Pints/Day @ 80°F/60% RH
Pints/KWh:	5.3

UA-90H Duct Connections:

6" Round Inlet
10" Round Inlet
10" Round Outlet

Filter Efficiency: Standard MERV-11 (65% ASHRAE Dust Spot)
Optional MERV-14, (95% ASHRAE Dust Spot)

Power Cord: 7.5', 115V With Ground

Drain Connection: 3/4" Threaded MPT

UA-90H Dimensions:

	Unit	Shipping
Width:	15 3/4"	20 1/2"
Height:	20 7/8"	25 7/8"
Length:	34 1/2" without collars 40 1/2" with collars	42"
Weight:	92 lbs	99 lbs

OPTIONAL ACCESSORIES

4025845	Condensate Pump Kit
4028539	DEH 3000 Digital Humidity Controller
4022486	Timer, 7-Day, 24 Vac, Programmable
4025287	Filter Box
4026161	Merv 11 Standard Filter 14" x 14" x 1"
4024370	Merv 14 95% Efficient Filter 20" x 24" x 4"

Optional Filter Box Dimensions:

Length:	24"
Height:	19 15/16"
Width:	14 1/4" with collars; 7 3/4" without collars
Weight:	19 lbs

Optional Filter Box Duct Connections:

6" Round Inlet
10" Round Inlet
10" Round Outlet
Optional MERV-14 (95% ASHRAE Dust Spot)

INSTALLATION MATERIALS

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
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 Sheathed 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-90H 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 UA-90H 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.

