Ultra-Aire™ 120H Ventilating Dehumidifier

Specification Data

Capacities and Performance

Part Number:	4031957
Blower:	350 CFM @ 0.0" WG
	285 CFM @ 0.2" WG
	210 CFM @ 0.4" WG
Power:	840 Watts @ 80°F and 60% RH
Supply Voltage:	115 VAC – 1phase – 60 Hz
Current Draw:	7.3 Amps
Transformer Protection:	Push Button Reset (located near power cord)
Circuit Requirement:	15 Amps
Energy Factor:	2.9 L/kWh
Operating Range:	49°F Min, 95°F Max (Inlet Air Temperature)
	34°F Min, 135°F Max (Outside Cabinet)
Sized For:	Up to 3,000 Square Feet

Minimum Performance at:	**80°F and 60% RH**	**70°F and 60% RH**
Water Removal:	121 Pints/Day	92 Pints/Day
Efficiency:	6.1 Pints/kWh	5.3 Pints/kWh

Duct Connections:	6" Round Inlet; 10" Round Inlet; 10" Round Outlet
Air Filter:	MERV-13, Mini Pleat
Efficiency:	90% ASHRAE Dust Spot
Size:	14" x 17.5" x 1.75"
Optional Air Filters:	MERV-11, Mini Pleat
Efficiency:	65% ASHRAE Dust Spot
Size:	14" x 17.5" x 1.75"
	MERV-14, Embossed Pleat (will need filter housing)
Efficiency:	95% ASHRAE Dust Spot
Size:	20" x 24" x 4"
Power Cord:	9', 115 VAC, Ground
Internal Insulated Cabinet:	Yes
Drain Connection:	3/4" Threaded Female NPT
Refrigerant Type:	R410A
Refrigerant Amount:	1 lb., 10 oz.

Dimensions:	Unit With Collars	Unit Without Collars	Shipping
Width:	14 3/8"	14 3/8"	18 1/2"
Height:	21"	21"	23 1/2"
Length:	32 3/16"	25 13/16"	40"
Weight:	91 lbs.	90 lbs.	101 lbs.

4031957

32 3/16" With Collars Installed
25 13/16" Without Collars Installed
21"

SIDE VIEW

14 3/8" **21"** 6" 10"

FRONT VIEW

14 3/8" **21"** 10"

BACK VIEW

Optional Accessories

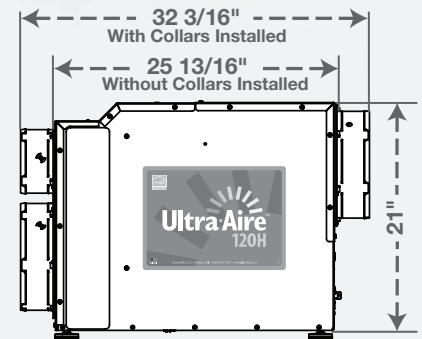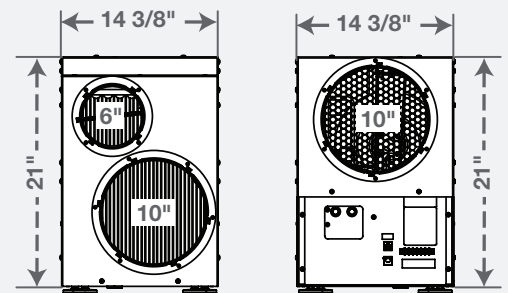|	
4028539	DEH 3000 Control
4028407	DEH 3000R Control (with remote)
4037722	MERV-13 Filter (14" x 17.5" x 1.75")
4037731	MERV-13 Filters 4-Pack
4037732	MERV-13 Filters 12-Pack
4035319	MERV-11 Filter (14" x 17.5" x 1.75")
4035131	MERV-11 Filters 4-Pack
4035132	MERV-11 Filters 12-Pack
4025287	MERV-14 Filter Housing
4024370	MERV-14 Filter (20" x 24" x 4")
4029087	MERV-14 Filters 3-Pack
4033038	Pump Kit
4036695	Hang Kit
4023672	6" Motorized Damper
4026859	6" Flex Duct 25'
4020128	6" Flex Insulated Duct 25'
4020656	6" Inlet Hood
4024375	10" Gravity Damper
4026969	10" Flex Duct 25'
4022126	10" Flex Insulated Duct 25'

DEH 3000 Control

- Digital control of Relative Humidity
- Fan/Filter Operation
- Programmable Ventilation Timer
- Large, easy-to-read backlit LCD display
- Easy interaction with air handler fan
- High Temperature Cut-Out
- Dryout Cycle Timer
- Auto Reboot
- Remote Sensor (DEH 3000R Only)

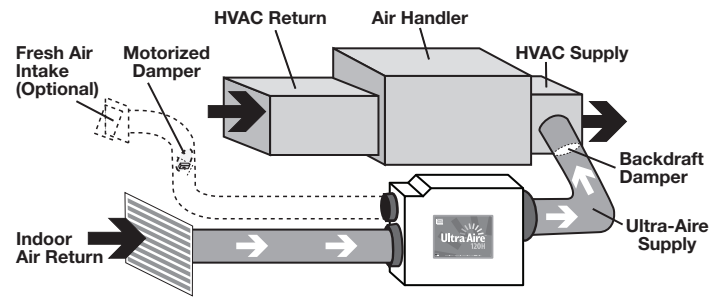P/N 4028539

With Remote: P/N 4028407

(800) 533-7533 | www.Ultra-Aire.com

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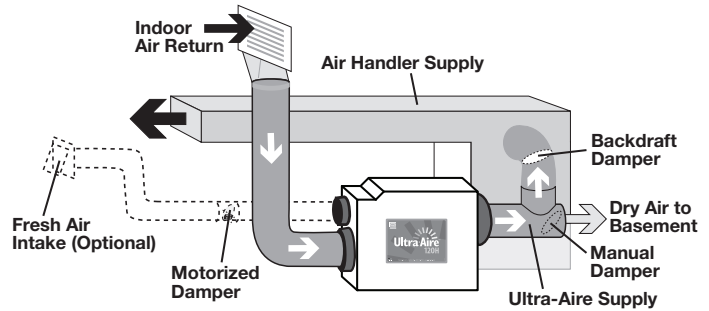
Recommended Installations

Dedicated Return to HVAC Supply

- Create a separate return for the Ultra-Aire 120H in a central area of the building.

- Duct the supply of the Ultra-Aire 120H to the air supply of the HVAC system with a backdraft damper.

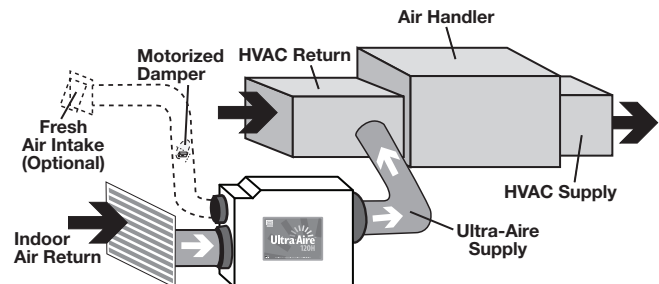### Basement / Crawl Space - Dedicated Return to HVAC Supply

- Duct the supply of the Ultra-Aire 120H to a 10" x 10" x 10" tee damper that is 20 percent open to the basement.

- Duct the other side of the tee to the air supply of the existing HVAC system with a backdraft damper.
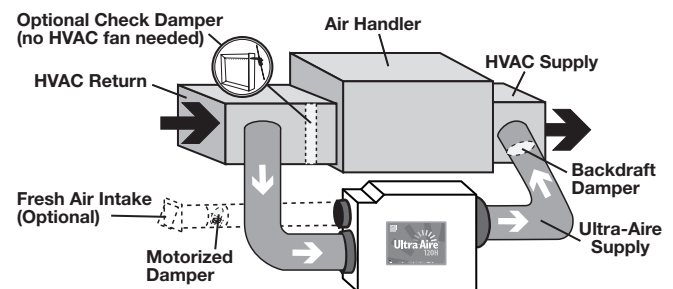

Alternative Installations

Dedicated Return to HVAC Return

- Create a separate return for the Ultra-Aire 120H in a central area of the building.

- Installing the supply air from the Ultra-Aire 120H in the return of the HVAC system requires the HVAC fan to run when the Ultra-Aire 120H is operating.

HVAC Return to HVAC Supply

- Check Damper should be in place between the Return and Supply connections of the dehumidifier.

- If Check Damper is not in place, the HVAC fan must turn on when the dehumidifier is in operation.

HVAC Return to HVAC Return

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