Ultra-Aire™ SD12 Ventilating Dehumidifier

Specification Data

Dehumidifier		
Part Number:	4033175	
Blower:	406 CFM @ 0.0" WG 374 CFM @ 0.2" WG 348 CFM @ 0.4" WG	
Power:	160 Watts @ 80°F and	60% RH
Supply Voltage:	115 VAC - 1phase - 6	0 Hz
Current Draw:	1.4 Amps	
Energy Factor:	3.1 L/kWh	
Operating Range:	Between 49°F and 95°F Max (Inlet Air Temperature)	
Sized for:	Up to 4,000 Sq. Ft Typical	
Minimum Performance at: Water Removal: Sensible Cooling: Efficiency:	80°F and 60% RH 184 pints/day 4,300 BTUs/Hour 6.6 Pints/kWh	150 pints/day
Duct Connections:	6" Round Inlet; 10" Rou	ınd Inlet; 10" Oval Outlet
Air Filter: Efficiency: Size:	MERV-13, Standard Pleat 90% ASHRAE Dust Spot 16" x 20" x 2"	
Optional Air Filters:		
Efficiency: Size:	MERV-11, Standard Pleat 65% ASHRAE Dust Spot 16" x 20" x 2"	
Efficiency: Size:	MERV-14, Embossed P 95% ASHRAE Dust Sp 20" x 24" x 4"	leat (will need filter housing) oot
Power Cord:	9', 115 VAC, Ground	
Internal Insulated Cabinet:	Yes	
Drain Connection:	3/4" Threaded Female	NPT
Refrigerant Type:	information)	facturers label for more
Refrigerant Amount:	42 oz.	
Line Cat Demoisses ander	TO (/)	

Dimensions:	Unit With Collars	Unit Without Collars	Shipping
Width:	20 1/4"	20 1/4"	35"
Height:	21 3/4"	21 3/4"	44"
Length:	41 1/2"	37 3/4"	44"
Weight:	110 lbs.	109 lbs.	225 lbs.

1/4" 3/8"

50 feet (maximum)

Condenser

Line Set Requirements:

Liquid Line:

Gas Line:

Part Number:	4033192	
Power:	1080 Watts @ 80°F and 60% RH	
Supply Voltage:	115 VAC - 1phase - 60 Hz	
Current Draw:	9.7 Amps	
Minimum Cicuit Ampacity:	20 Amps	
Maximum Fuse / Breaker:	20 Amps	
Refrigerant Type:	R410A (Refer to manufacturers label for more information)	
Operating Range:	40°F Min, 115°F Max	
Dimensions:	10"W x 25.5"H x 33"L - 75 lbs.	
Power Cord:	Hard-Wired	

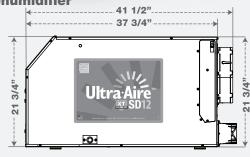


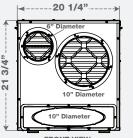


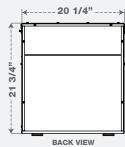




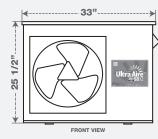








Condenser



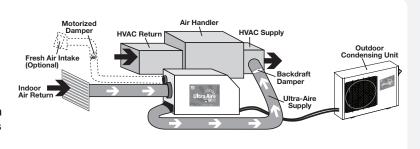
Optior	nal Accessories
4028539	DEH 3000 Control
4028407	DEH 3000R Control (with remote)
4037723	MERV-13 Filter (16" x 20" x 2")
4037733	MERV-13 Filters 4-Pack
4037734	MERV-13 Filters 12-Pack
4021475	MERV-11 Filter (16" x 20" x 2")
4027420	MERV-11 Filters 4-Pack
4027424	MERV-11 Filters 12-Pack
4025287	MERV-14 Filter Housing
4024370	MERV-14 Filter (20" x 24" x 4")
4029087	MERV-14 Filters 3-Pack
4028614	Pump Kit
4036685	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'
4028399	10" Oval to Round Adapter

Ultra-Aire™ SD12 Split Dehumidifier

Recommended Installations

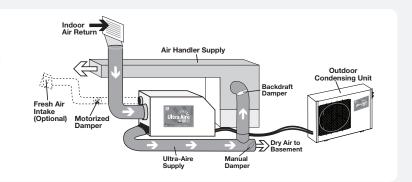
Dedicated Return to HVAC Supply

- Create a separate return for the Ultra-Aire SD12 in a central area of the building.
- Duct the supply of the Ultra-Aire SD12 to the air supply of the HVAC system with a back draft damper.
- Supply a line set suitable for use with R410A refrigerant to connect the indoor unit to the outdoor unit. The maximum allowable length of the line set is 50 feet. Braze the lines to the dehumidifier and the condensing unit.



Whole House and Basement/Crawlspace Dedicated Return to HVAC Supply

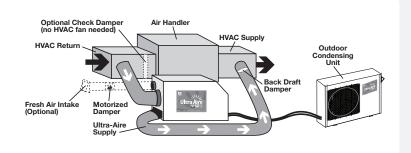
- Duct the supply of the Ultra-Aire SD12 to a 10" x 10" x 10" tee damper that is 20 percent open to the basement/crawlspace.
- Duct the other side of the tee to the air supply of the existing HVAC system with a backdraft damper.
- Supply a line set suitable for use with R410A refrigerant to connect the indoor unit to the outdoor unit. The maximum allowable length of the line set is 50 feet. Braze the lines to the dehumidifier and the condensing unit.



Alternative Installations

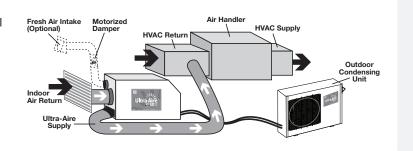
HVAC Return to HVAC Supply

- Check Damper should be in place between the Return and Supply connections of the dehumidifier.
- If Check Damper is not in place, the A/C fan must turn on when the dehumidifier is in operation.
- Supply a line set suitable for use with R410A refrigerant to connect the indoor unit to the outdoor unit. The maximum allowable length of the line set is 50 feet. Braze the lines to the dehumidifier and the condensing unit.



Dedicated Return to HVAC Return

- Create a separate return for the Ultra-Aire SD12 in a central area of the building.
- Installing the supply air from the Ultra-Aire SD12 in the return of the HVAC system requires the HVAC fan to run when the Ultra-Aire SD12 is operating.
- Supply a line set suitable for use with R410A refrigerant to connect the indoor unit to the outdoor unit. The maximum allowable length of the line set is 50 feet. Braze the lines to the dehumidifier and the condensing unit.



HVAC Return to HVAC Return

- Check Damper should be in place between the Return and Supply connections of the dehumidifier.
- If Check Damper is not in place, the A/C fan must turn on when the dehumidifier is in operation.
- Supply a line set suitable for use with R410A refrigerant to connect the indoor unit to the outdoor unit. The maximum allowable length of the line set is 50 feet. Braze the lines to the dehumidifier and the condensing unit.

