

Ultra-Aire A.P.D. MODEL:UA-100V

SPECIFICATIONS:

1-1. Air quality device that combines fresh air ventilation, air filtration and high capacity dehumidification.

1-1A. Fresh Air Ventilation: Outdoor air is ducted to the unit via 6" round duct. This provides necessary air changes to dilute pollutants and maintain high oxygen content in the air. The amount of fresh air ventilation can be regulated by a variety of controls.

1-1B. Air Filtration: A measured amount of outdoor air is combined with indoor air and passes through the filter chamber. A 30 percent efficient (ASHRAE Dust spot test) media filter is standard. An optional 95 percent efficient (ASHRAE Dust spot test) pleated media filter is available. If the optional filter is selected, the standard filter operates as a pre-filter.

1-1C. Dehumidification: High efficiency dehumidifier that utilizes refrigeration to cool the incoming air stream below its dew point as it passes through the dehumidification (evaporator) coil. This cooling results in the the removal of moisture (latent heat) and reduction in temperature (sensible heat). The cooled and dried air is used to pre-cool the incoming air stream resulting in up to a 200 percent increase in overall efficiency. After the pre-cooling stage the processed air is reheated by passing through the condenser coil. The latent heat removed by the evaporator coil is returned to the air stream as sensible heat, which results in an overall temperature increase from the incoming air.

1-2. The unit is controlled by a 24 volt remote control panel. The standard control contains a fan/filter switch that allows continuous air circulation independent of dehumidification. The panel also contains a dehumidistat with settings from 20 to 80 percent and positive "on" and "off" settings. The optional Ultra-Aire control also contains a timer that activates a motorized damper to provide programmend fresh air ventilation periods.

1-3. The unit is provided with 6 inch (fresh air) and 8 inch (indoor air) inlet collars. The processed air exits the unit via an 8 inch round duct.

1-4. The condensed moisture is gravity drained from the unit by a 6 foot vinyl hose.

1-5 The unit is powered through a factory installed ten foot power cord; 115 volt with ground.

1-6. Capacities and Performance:

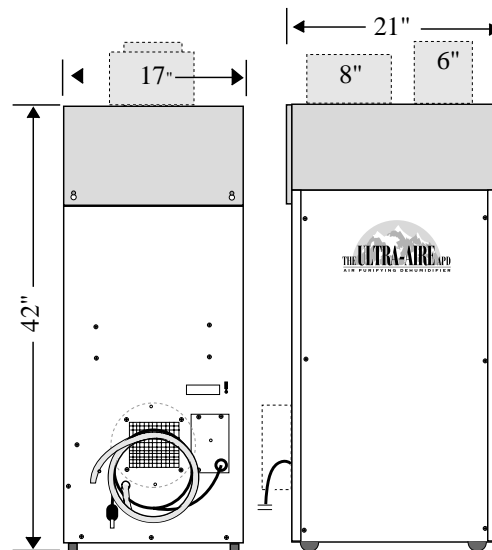
Blower:	220 CFM (.1 IWFG)
Supply Voltage:	115-1-60
Amps:	6.8 AMPS.
Capacity:	100 pints/day (80°F, 60%RH)
Filter Efficiency:	30% std., 95% opt.; (ASHRAE Dust spot)

1-7 The Ultra-Aire APD 150-H is only manufactured by Thermo-Stor Products, div. of DEC International, Inc. Madison, Wisconsin.



DIMENSIONS:

	UNIT	SHIPPING
Width:	21 inches	30 inches
Height:	42 inches	47 inches
Depth:	17 inches	25 inches
Weight:	119 lbs	134 lbs

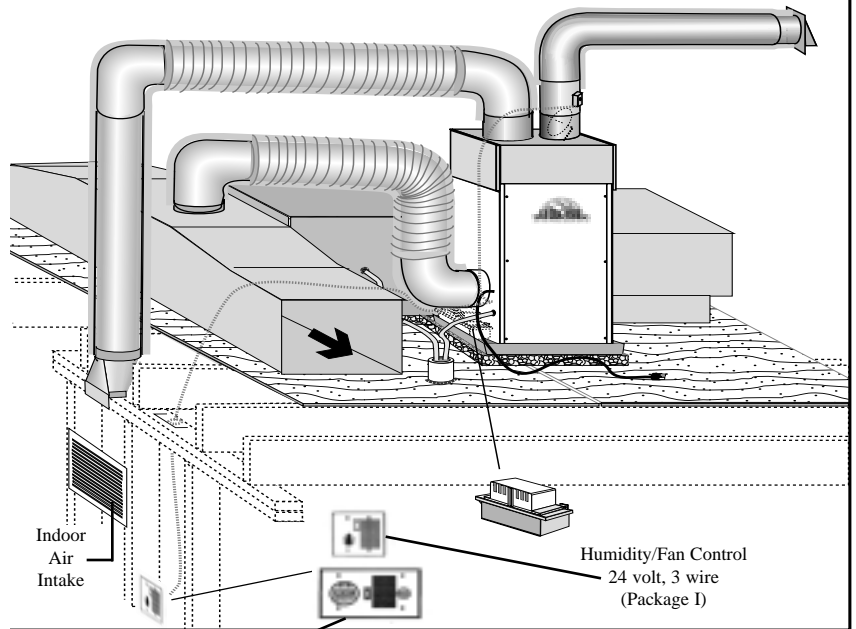


Installation Recommendations and Options

ATTIC

Attic Installation Basics:

1. Indoor air return should come from an open area of the first (preferred) 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 Ultra-Aire should be installed in a drip pan placed on a vibration absorbing foam pad.
4. The six inch fresh air intake should be located at least 6 feet away from any exhaust ports.
5. In high humidity climates, an optional insulation kit is available to prevent condensation from occurring on the Ultra-Aire cabinet.

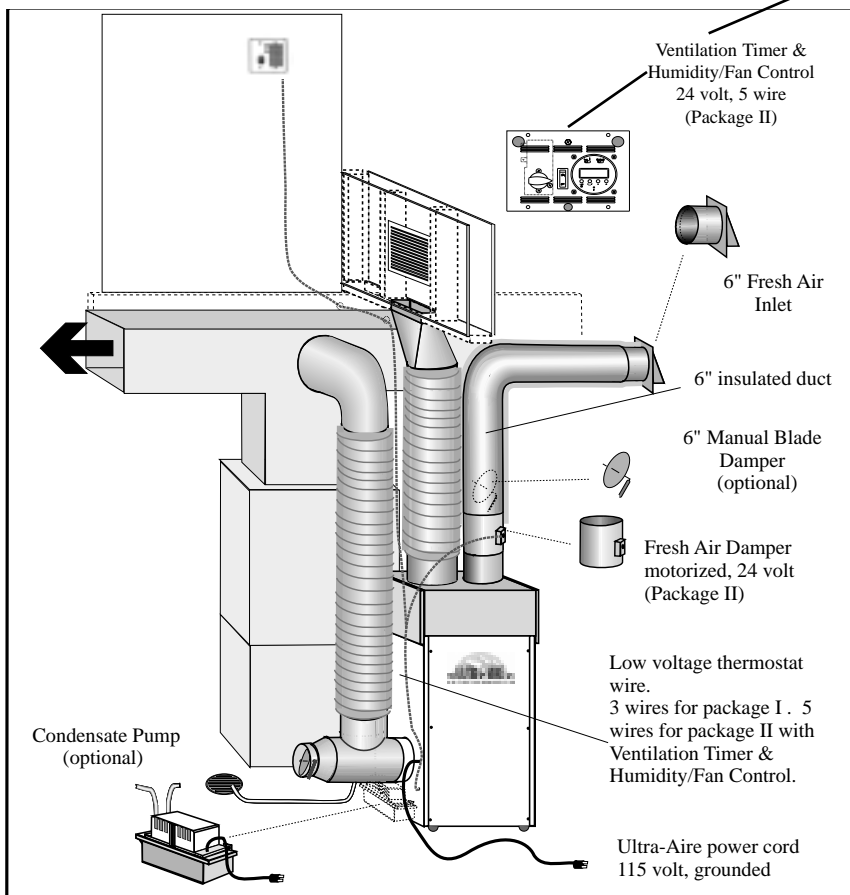


BASEMENT OR CRAWL SPACE

Basement or Crawl Space Installation

Basics:

1. Indoor air return should come from an open area of the first or second (preferred) floor.
2. The Ultra-Aire supply should be ducted into the forced air system supply above the "A" or air conditioning coil. The duct connection should be perpendicular to the air flow.
3. An eight inch tee fitting with an adjustable blade damper on the straight run should be attached at the Ultra-Aire supply duct. This allows for increased air flow to the basement during the summer months.
4. The 6 inch fresh air intake should be located at least 6 feet away from any exhaust ports, such as, dryer, range hood, or combustion device exhaust.



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