



THE ULTRA-AIRE APD

AIR PURIFYING DEHUMIDIFIER

Ultra-Aire APD UA-100V

Fresh Air Ventilation, Filtration and High Capacity Dehumidification

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.

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.

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.

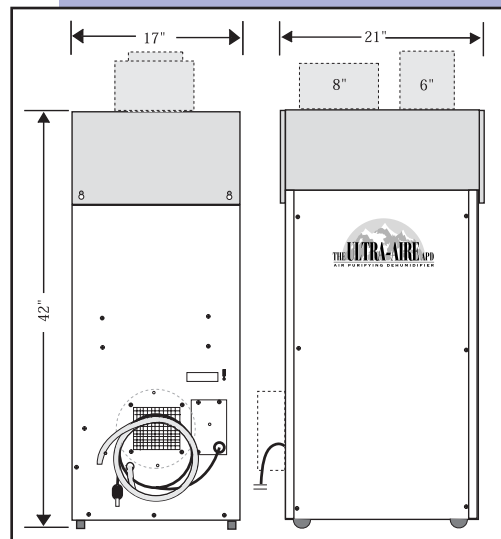
The unit is controlled by a 24 volt remote control panel. The standard control contains a fan/filter switch that allows continuous air circulation independent of dehumidification. The panel also contains a dehumidistat with settings from 20 to 80 percent and positive "on" and "off" settings. The optional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

Additional Features

- 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.
- The condensed moisture is gravity drained from the unit by a 6 foot vinyl hose.
- The unit is powered through a factory installed ten foot power cord; 115 volt with ground.



The Ultra-Aire UA-100V eliminates mold, mildew and dust mites.



DIMENSIONS:

Width: 21 inches
Height: 42 inches
Depth: 17 inches
Weight: 119 lbs.

SHIPPING SPECS

30 inches
 47 inches
 25 inches
 134 lbs.

Ultra-Aire APD UA-100V Capacities and Performance*:

Blower: 220 CFM @ .1 IWG
 Supply Voltage: 115 volt - 1 Phase - 60 Hz.
 Amps: 6.8
 Capacity: 100 Pints/Day (80°F, 60% RH)
 Filter Efficiency: 30% std., 95% opt., (ASHRAE Dust Spot)

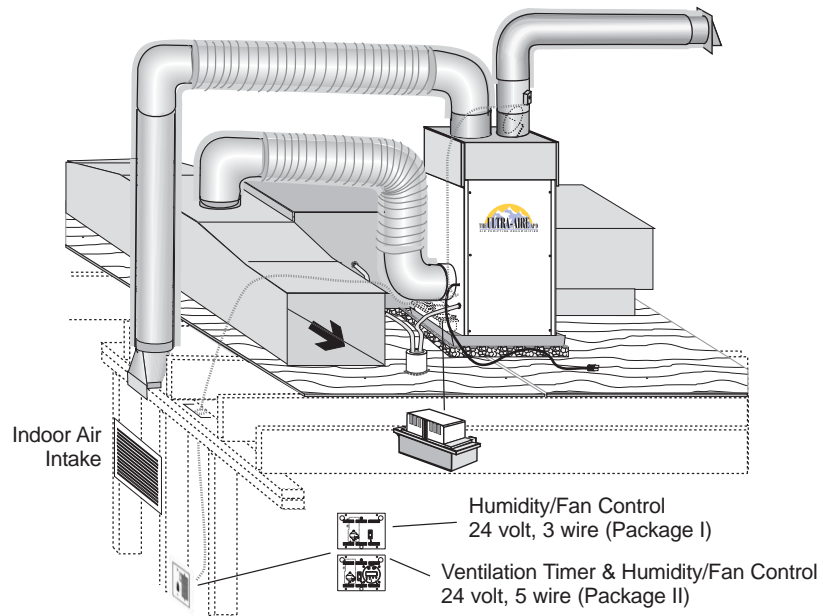
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Installation Recommendations and Options

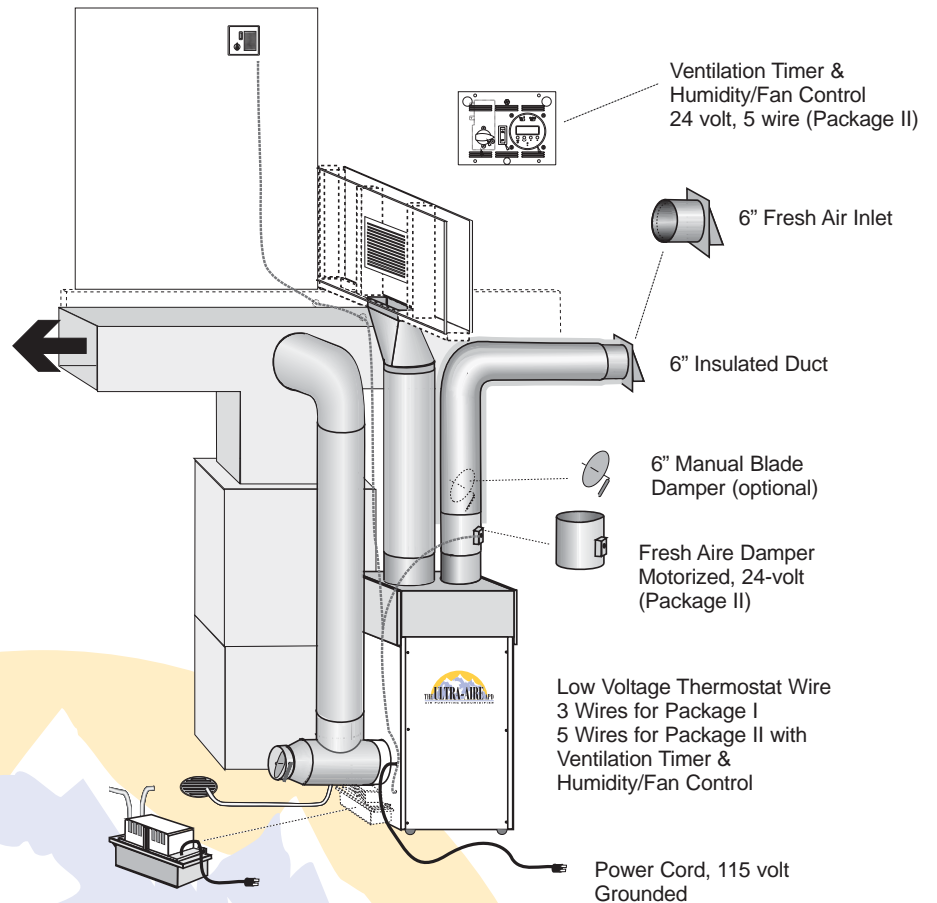
Ultra-Aire UA-100V Attic Installation:

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.



Ultra-Aire UA-100V Basement or Crawl Space Installation

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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