

# ***Take control***

*of whole-home humidity with the most efficient, optimum solution.*



Model 1750/1770

***Introducing the newest central dehumidifier from Aprilaire***

**Aprilaire®**

Your Partners in Comfort™

# Enable your customers to take control of their home's sustainability with the all new whole-home dehumidifier

## Optimal/Most Efficient Solution For Whole-home Humidity Control

Aprilaire Central Dehumidifiers monitor conditions 24-7, ready to tackle the toughest humidity conditions within the home at any time.

- When partial load conditions are often prevalent within the home
- During those days and times where there is not a need or call for cooling:
  - Spring and Autumn months
  - Cloudy and rainy days
  - Nighttime and morning hours
- When high humidity is an issue/problem in specific areas of the home
- When dependable, reliable 24-7 humidity control is critical to the health of your family

Using an Aprilaire Central Dehumidifier independently as well as in conjunction with your existing central air conditioning system optimizes the overall dehumidification of your home as well as the energy efficiency of your cooling system.

## Critical factors that influence humidity control

### "Tight" Home Construction

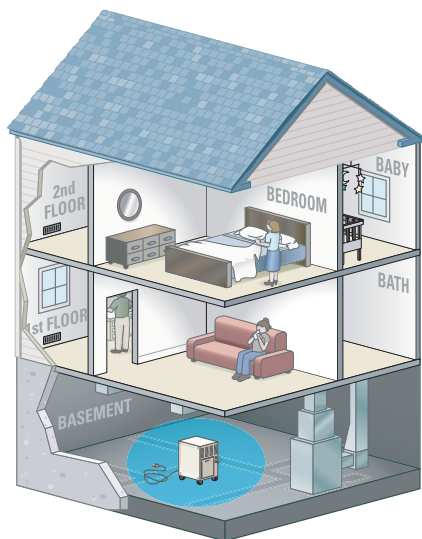
Homes built with a foam seal, glazing, icynene, and/or other new environmental barriers provide optimum energy efficiency.

In these tighter homes, moisture and VOCs build from washing, cooking, and other activities. There are typically few ways to remove the moisture that is now trapped on the inside.

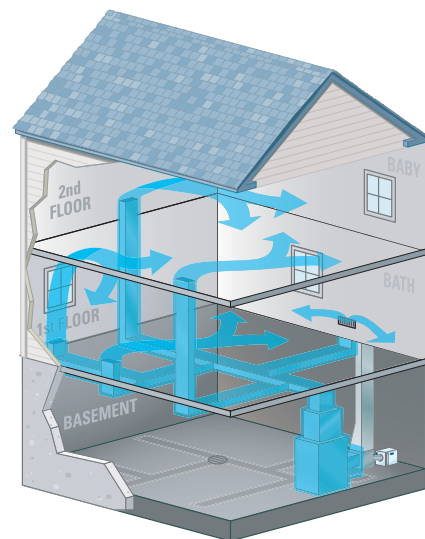
### Air Conditioning Efficiency

Air conditioners are more efficient than ever before, cooling the home quickly with as little power consumption as possible. In tighter homes, air conditioning systems can run on partial load conditions well over 90% of the time, which means less run time, therefore less dehumidification. Overcooling is usually a last resort to get needed dehumidification.

Using variable-speed or advanced air-handling technology to gain additional dehumidification is another option, however, it typically lowers the energy efficiency of the system; a system designed to optimize cooling.



*A portable unit treats the air in just one room. To get the ultimate health and comfort benefits from a portable, homeowners would have to purchase one for every room in their home.*



*A better, more convenient solution is to install an Aprilaire central dehumidifier. As part of the home's heating and cooling system, it mounts away from the living space and operates silently.*

# Control of their total comfort, health, and home's whole-home humidity control solution from Aprilaire.



Aprilaire Central Dehumidifier models 1750/1770 not only optimize humidity control for your whole home, but also have value-added, built-in features that can provide the proper ventilation and air-cycling recommended for the whole home. Available in 90 pints/day (Model 1750) and 150 pints/day (Model 1770) capacities, these central dehumidifiers are designed and built to meet or exceed the exceptional quality and reliability standards expected from Aprilaire.

## Industry leading 5 year bumper-to-bumper warranty

**Extreme Durability** – 15+ year system life expectancy due to core design improvements as a direct result of continued extensive life-cycle testing, including application of vibrations, frequency harmonics, and forces up to 60g. In addition, Aprilaire dehumidifiers have undergone extensive coastal condition testing on electronics and controls.

**Extremely Quiet** – averages less than 55 dB, quieter than a person-person conversation

## Practical Design

Aprilaire Central Dehumidifiers exemplify simple, practical innovation through their design and built-in features, many of which were identified through continuous analyzing of customer feedback at all levels.

### Automatic Humidity Sensing

On-board humidity sensing allows for better whole home monitoring and control of humidity. Optional remote living space control can be used to provide additional humidity control accessibility, as well as increased reliability in coastal environments.

### Systems Status

On-board LED status, providing instant, easily understood feedback / validation on the unit's operation and performance.

## Innovative Features

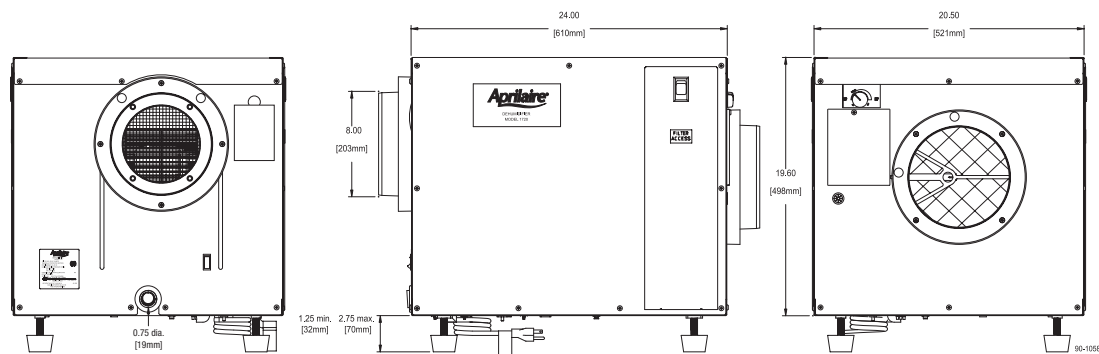
**Air Filtration** – MERV 8 filter included

### Built-in Ventilation

- Brings in outside air for ventilation of the home to ASHRAE 62.2 2007 standard.
- In hot, humid climates, supplemental dehumidification of fresh air beyond standard HVAC equipment is recommended.
- The most efficient means to dehumidify air is upon initial entry into the home instead of after the home is loaded.
- Monitors HVAC fan run time during cooling and/or heating calls to efficiently ventilate the whole home, and automatically monitor/control the humidity of the incoming air; utilizes dehumidifier and HVAC fan to make up any remaining ventilation required based on chosen set point.
- Optional outdoor temperature sensor can be used if no fresh air is desired above 100°F or below 0°F (utilizing this will ignore ASHRAE 62.2 2007 standard).



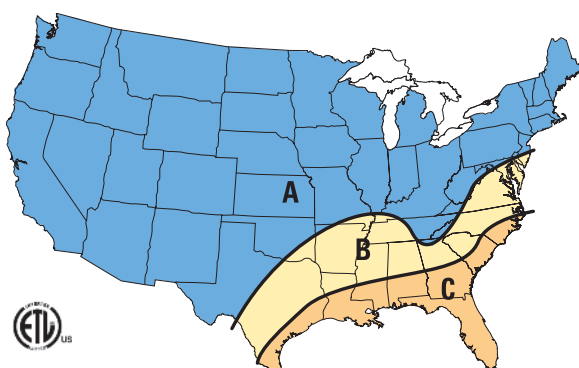
# Model 1750 and 1770 Product Specification & Sizing Summary



	Model 1750	Model 1770
Capacity	3.9 lbs/hr @ 80°F & 60% RH	6.5 lbs/hr @ 80°F & 60% RH
Voltage	115/1/60 (8' grounded power cord)	115/1/60 (8' grounded power cord)
Amp Draw	8 amps	14 amps
Air Flow	275 cfm @ .6" E.S.P	500 cfm @ .8" E.S.P
Filter	1" Washable, Merv 8	1" Washable, Merv 8
Controls	Built-In Automatic Control or Model 70 Space Control	Built-In Automatic Control or Model 70 Space Control
Cabinet Insulation	1" Foil-faced Expanded Polystyrene	1" Foil-faced Expanded Polystyrene
Inlet Temperature Range	40°F - 105°F	40°F - 105°F
Inlet Humidity Range	30% RH - 100% RH	30% RH - 100% RH
Ambient Operating Temperature Range	40°F - 150°F	40°F - 150°F
Ambient Operating Humidity Range	0% RH - 100% RH	0% RH - 100% RH
Approximate Discharge Air Temperature	103°F @ 80°F & 60% RH	99°F @ 80°F & 60% RH
Approximate Discharge Air Relative Humidity	25% RH @ 80°F & 60% RH	25% RH @ 80°F & 60% RH
Refrigerant Type	R-22	R-22
Sound Level	48 dBA Ducted; 54 dBA Non-ducted	53 dBA Ducted; 67 dBA Non-ducted
Weight	93 lbs.	100 lbs.
Duct Size	8" dia.	8" dia.
Drain Size	0.75" dia.	0.75" dia.

## Optional Accessories:

Model 6508 8" Backflow Damper    Model 70 Living Space Control    Model 8052 Outdoor Temperature Sensor    Model 6506 6" Ventilation Damper



### Recommended house size (sq. ft.)

	Model 1750 Air Changes per Hour (ACH)			Model 1770 Air Changes per Hour (ACH)		
	1.00	0.50	0.35	1.00	0.50	0.35
Region A	3,600	5,000	5,000	6,000	8,300	8,300
Region B	2,800	4,500	5,000	4,600	7,500	8,300
Region C	1,700	2,600	3,400	2,800	4,300	5,600

Based on a single story, slab construction home; four occupants; dehumidistat set to less dry; thermostat set to auto fan position; TMY2 weather data; 1.0 lb/hr internal moisture gain due to occupants; air conditioner with thermostat cooling to at least 79°F.