

# Model 81, 65 & 747L Legacy Series Drum Humidifiers



Products that let you  
**breathe**  
a little easier

## **Take Control** of your Comfort and your Health

We spend most of our days indoors. It is important to control the indoor relative humidity to maintain a comfortable and healthy indoor air environment.

Very low humidity in your home in winter can result in dry, itchy skin or dry sinuses and nose. Dry skin can crack and peel and will look unattractive and can lead to infections. Dry noses and sinuses may lead to a clogging or swelling and closing of the air passages and cause breathing difficulty at night.

Choosing a GeneralAire Humidifier will improve your comfort indoors and maintain a healthy environment so you can breathe a little easier.

**GENERALAire**  
Fresh Indoor Air Quality



**Air quality is only a concern outdoors, isn't it?**

Not true! The air inside your home can be even more of a concern to your health and comfort, especially in the winter.

When cold, dry air enters your home and is warmed to room temperature, the relative humidity in the average house can drop to as little as 5%. Compare that to the average 25% relative humidity of the Sahara Desert and you can understand why the air inside your home can seriously affect your health and comfort. Since various studies have estimated that most people spend as much as 90% of their time at home indoors, there's reason to be concerned about indoor air quality.

**How does humidity AFFECT my comfort?**

Since the air in your home is always trying to reach its saturation point, it will absorb water wherever it's found. That means it is stealing moisture from the bodies of you and your children, your pets, your furniture and even your house plants. By giving up moisture to the air, your skin, throat and nasal passages dry out and crack, leading to various physical discomforts. That's why many doctors recommend humidifiers for allergy and asthma sufferers.

Research has shown that 30% – 60% relative humidity is ideal. Outside this range, bacteria, fungi, viruses and mites thrive and multiply. As these creatures increase in number, so does your risk of being adversely affected.

**Are there any other BENEFITS to properly conditioned air?**

Yes, it can help you save energy! Warm, humid summer air feels hotter than it actually is because of the moisture it contains. That same principle applies to your home in the winter. By keeping the relative humidity inside your home at an ideal level, you can turn your thermostat down a few degrees and still feel comfortable. Dialing down your thermostat just three degrees can reduce your heating bill by as much as 5%.

**Humidity requirements in GPD based on house size and type of construction (from ARI Guideline F)**

| Type of Construction | Size of house (sq. ft.)* |      |      |      |      |      |
|----------------------|--------------------------|------|------|------|------|------|
|                      | 500                      | 1000 | 1500 | 2000 | 2500 | 3000 |
| Tight                | 2.1                      | 4.2  | 6.4  | 8.5  | 10.6 | 12.7 |
| Average              | 3.3                      | 6.5  | 9.8  | 13.1 | 16.3 | 19.6 |
| Loose                | 4.6                      | 9.2  | 13.8 | 18.4 | 23.0 | 27.6 |

\*Based on 8ft. ceiling height

Humidity based on a 70°F-30% relative humidity indoor conditions using ARI Guideline F Humidity Load Determination Method.

| Model No. | GPD* | Loose | Average | Tight |
|-----------|------|-------|---------|-------|
| 81        | 18.0 | 1957  | 2769    | 4571  |
| 65        | 14.0 | 1522  | 2154    | 3333  |
| 747L      | 16.0 | 1739  | 2462    | 3809  |

\*NOTE: Figures are based on an 8ft. ceiling height. GPD shown is a 140° plenum temperature. Square footage may be adjusted for other plenum temperatures.



**Model 81**  
*Legacy Series Drum Bypass Humidifier*

- M3 Select-Control Manual Humidistat is included.
- High-capacity model delivers 18 GPD.
- Split drum design allows easy removal of evaporator sleeve part number 81-15.

**Specifications**

Unit Size  
12" wide x 11-1/2" high x 11" deep

Plenum Opening  
8" wide x 7-1/2" high

Bypass Duct  
6" diameter  
(bypass pipe assembly supplied)



**Model 65**  
*Legacy Series Drum Bypass Humidifier*

- M3 Select-Control Manual Humidistat is included.
- An ideal humidifier that delivers 13.3 GPD.
- Replacement evaporator sleeve part number 65-5.

**Specifications**

Unit Size  
10" wide x 9" high x 9-1/2" deep

Plenum Opening  
7-3/4" wide x 5-3/4" high

Bypass Duct  
5" diameter  
(bypass pipe assembly supplied)



**Model 747L**  
*Legacy Series Drum Humidifier*

- A compact unit that mounts in the warm air supply duct when bypass or flow through installations aren't possible. This unit delivers 16.0 GPD.
- Equipped with a built-in humidity control.
- Replacement evaporator sleeve part number 727-12.

**Specifications**

Unit Size  
12" wide x 16" high x 4" deep

Plenum Opening  
10-1/2" wide x 15-1/8" high



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