

## Model HA1042 Power Humidifier

**Top quality and high capacity for maximum comfort. Easy to install with any Thermo Pride warm air furnace.**

### Offers Exceptional Features

**Attractive Styling** - Modern design utilizing non-corrosive, high temperature materials makes the humidifier an attractive and dependable component in any warm air heating system.

**Proper Humidification** - Scientifically designed evaporator pad results in high evaporative output and minimum hard water scale accumulation.

**Easy to Service** - Thumb screws allow easy access to the distribution trough, drain pan and evaporative pad making cleaning and servicing quick and easy. High capacity drain tube helps prevent clogging.

**No Moving Parts** - The 1042 drain-type humidifier has no motor, fan or pump to wear out or lime up.



**Clean Operating** - The 1042 is 100% evaporative. There is no mineral dust to disturb the household.

**Manual Air Shuttle** - Closes bypass during summer cooling season. The air shuttle may be used to control humidifier output, however, a humidistat is recommended.

**Dependable Solenoid Valve** - Has a monel wire mesh filter to protect the precision-machined Teflon flow-control orifice.

**Reversible Installation** - Right or left-hand take-off may be installed on up-flow, counter-flow or horizontal-flow furnaces.

### Why Humidify?

- Proper humidity reduces static electricity, dried cracked furniture and wood trim, and wilting house plants.
- Your family will feel more comfortable as dry skin, throats and noses are soothed.
- Properly humidified air feels warmer allowing you to turn your thermostat down a few degrees and reduce energy costs while still keeping your home comfortable.

### General Operating Principle

- Evaporation takes place as the heated air from the warm air furnace passes through the moisture laden evaporator pad.
- Water is metered through a solenoid valve then distributed over the pad by a trough at the top of the humidifier.
- Water not evaporated drains from the bottom of the humidifier carrying off troublesome minerals.
- Humidified air is then returned to the heating system to enter the living area.

# Specifications

<b>Application:</b>	Forced warm-air furnaces
<b>Unit Size:</b>	15" wide x 11½" high x 9" deep
<b>Plenum Opening:</b>	10¼" wide x 9½" high
<b>Bypass Duct:</b>	6" diameter (collar supplied)
<b>Water Supply:</b>	Use ¼" copper (saddle valve supplied)
<b>Electrical:</b>	Model HA1042 Drain Type with Humidistat - 24 V. 60 Hz.
<b>Drain Connections:</b>	5/8" dia. (15' vinyl hose supplied)
<b>Controls:</b>	Manual air shutter Humidistat with HA1042

## HUMIDITY REQUIREMENTS IN GALLONS PER DAY 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
<b>Tight</b>	2.1	4.2	6.4	8.5	10.6	12.7
<b>Average</b>	3.3	6.5	9.8	13.1	16.3	19.6
<b>Loose</b>	4.6	9.2	13.8	18.4	23.0	27.6

\*Based on 8 ft. ceiling height.

Evaporative Capacity Output					
Temp°F	80°	100°	120°	140**	160°
<b>GPD</b>	8.0	12.2	16.4	19.2	23.2

\*Industry Standard rating conditions. 140° hot water supplied to the humidifier in heat pump applications will increase capacity by 4.3 gallons per day.

### Tight House

With insulated walls and ceilings, vapor barriers, weather stripping on doors and windows, and snug doors, windows and fireplace damper (½ air change per hour)

### Average House

Insulated walls and ceilings with vapor barriers, but loose storm doors, windows and fireplace damper (1 air change per hour)

### Loose House

Without insulation, storm doors, storm windows, weather stripping or vapor barriers (2 air changes per hour)

Illustrations and photographs in this brochure are only representative. Due to ongoing engineering upgrades, some variations may occur.



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