

# The Truth About Humidification Delivery

Many whole-house humidifier manufacturers list humidification capacity in gallons per day (GPD), or the amount of moisture they can deliver in a 24 hour period. But how do you know which ones really work and if a home is getting enough moisture?

Comparing humidification delivery is a great place to start.

Typically, the GPD claim is based on a home's heating equipment running 100 percent of the time, for 24 hours a day at 120°F. Since most humidifiers only work when equipment is running (and no equipment runs full-time), they rarely deliver more than 1 gallon of moisture for every three gallons that they claim. Plus, for every one gallon of water that is evaporated, three gallons go down the drain.

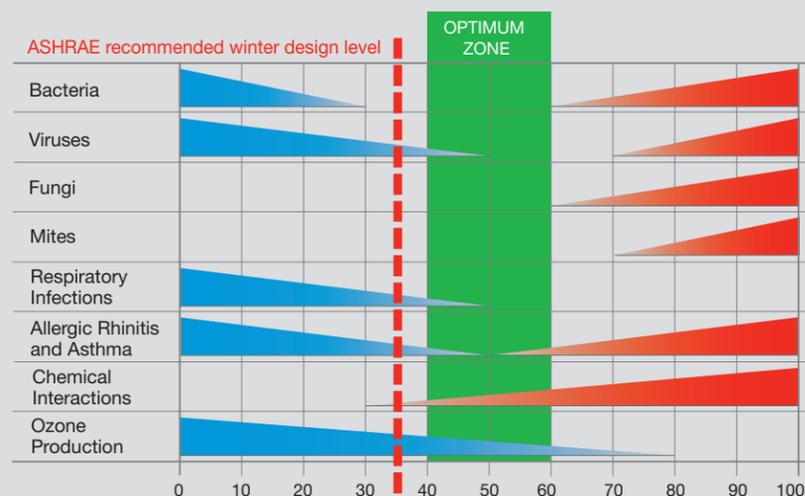
Added to this are portable humidifiers that only humidify in the room which they are located, not the whole house. They also need to be constantly re-filled with water, which can be a hassle.

TrueSTEAM™ offers the most reliable, efficient levels of moisture because of its near 1:1 humidification delivery rate, regardless of equipment operation.

TYPE OF HUMIDIFIER	HUMIDIFICATION DELIVERY RATE	
Honeywell TrueSTEAM™*	(1:1)	Claim: 12, Delivery: 12, Consumption: 12
Fan-Powered Humidifiers	(1:3)	Claim: 18, Delivery: 6, Consumption: 24-72
Bypass Humidifiers	(1:4)	Claim: 12, Delivery: 3, Consumption: 12-48

\* Does not include auto-flush cycle.

## Definition of Ideal Indoor Humidity according to ASHRAE



TrueSTEAM™ Humidification System	
Part Number	Description
HM512WTHX9	12-GPD Wireless TrueSTEAM with Prestige® HD color control, wireless adaptor and wireless outdoor sensor
HM512VPIAQ	12-GPD TrueSTEAM™ with VisionPRO® IAQ control
HM512DG115	12-GPD TrueSTEAM with TrueIAQ® control
HM512W1005	12-GPD Wireless TrueSTEAM. Does not include humidistat
HM509VPIAQ	9-GPD TrueSTEAM with VisionPRO IAQ control
HM509DG115	9-GPD TrueSTEAM with TrueIAQ control
HM509H8908	9-GPD TrueSTEAM with H8908 manual control
HM509W1005	9-GPD Wireless TrueSTEAM. Does not include humidistat
HM506VPIAQ	6-GPD TrueSTEAM with VisionPRO IAQ control
HM506DG115	6-GPD TrueSTEAM with TrueIAQ control
HM506H8908	6-GPD TrueSTEAM with H8908 manual control
HM506W1005	6-GPD Wireless TrueSTEAM. Does not include humidistat

Wireless TrueSTEAM is also compatible with conventionally wired thermostats.

Accessories	
Part Number	Description
50024917-001	10' remote-mount kit
50024917-002	20' remote-mount kit
50028004-001	Cover
50028003-001	Duct mount injection nozzle
50028001-001	Remote mount nozzles (humidifier adaptor and remote duct nozzle)
50020012-001	Mounting bracket
50027997-001	Solenoid valve
50028044-001	In-line water filter
50033181-001	HM512/HM509 water tank
50033182-001	HM506 water tank
50027998-001	Water level sensor assembly
32001616-001	Saddle valve
50027910-001	Differential Pressure Switch
50030142-001	Water backflow prevention valve

## Configuration Options

All options below can be configured during installer setup.

**Automatic Flushing Cycle Options:** After 10, 20 or 30 hours of operational humidifying time.

**Auto End-Of-Season Shutdown Options:** Will empty tank after 48 hours of inactivity.

**Service Timer Options:** Light indicator can blink to clean tank every 12 months.

**5-YEAR WARRANTY**

### Learn More

Call toll-free **1-800-328-5111**  
visit <http://yourhome.honeywell.com>,  
or e-mail [info@honeywell.com](mailto:info@honeywell.com).

### Automation and Control Solutions

Honeywell  
1985 Douglas Drive North  
Golden Valley, MN 55422-3992  
[www.honeywell.com](http://www.honeywell.com)

50-9691  
January 2010  
© 2010 Honeywell International Inc.

TrueSTEAM™  
Humidification System

**Honeywell**



**A Quantum Leap In Application And Performance**

# Introducing TrueSTEAM™

the next generation of humidification systems from Honeywell.



## TrueSTEAM™ Humidification

**Designed By You.  
Designed For Today's Equipment.**

The world of heating and cooling equipment is vastly different today than it was even a few years ago, with the trend towards high-efficiency, variable speed, dual-fuel and heat pump systems. Because of how these systems operate, yesterday's humidifiers often fail to deliver the humidification that

your homeowners desire. You told us that you needed a humidification system that operated independently from the equipment.

## Here's Where TrueSTEAM Delivers

### Breakthrough Technology

TrueSTEAM™ takes the best features from current steam humidifiers with their efficiency, performance and decreased water consumption, and combines it with the ease of installation, reliability and value of flow-through humidifiers. TrueSTEAM is different from others because it operates independent of equipment operation. With its near 1:1 humidification delivery rate, TrueSTEAM delivers the right amount of humidification to keep your customers satisfied.

## TrueSTEAM Humidification System



**Mounts in Minutes** – Requires only a 1-3/4" cut into ductwork and mounts on a separate, lightweight bracket (included) for accurate leveling.



**Application Flexibility** – Can be remotely mounted up to 20 feet from the system.



**Easy Maintenance** – No tools required to access and clean tank, which can save time on your annual contract service calls.



**Independent Operation** – Provides humidity independent of equipment operation, allowing homeowners to reach their desired humidity setpoints regardless of air temperature.

**Incoloy 600 Heating Element** – A material designed to inhibit mineral build-up.

**Exclusive Support** – Honeywell supports you with a 5-year warranty, a toll-free hotline (1-800-328-5111), local experts, training, free literature, Contractor PRO™ rewards and more.

**Eco-Friendly** – Uses up to 70 percent less water to produce even more moisture than traditional whole-house humidifiers. Plus, humidified air feels warmer, so your customers will be able to turn their thermostats down to help reduce heating bills.



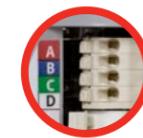
**Fail-Safe Water Sensing** – Multiple sensors (two low, two high and one ideal) sit in a separate compartment to accurately monitor water levels.



**Common-Sense Interface** – LED lights indicate when system is running or needs service. Lights also provide feedback to the installer during installation.



**Patented\* Condensate Collect Dome and Nozzle** – Prevents water from condensing out of the unit, delivering only true steam into the airflow.



**Universal Wiring** – Moving control to the Prestige™ HD via the wireless adaptor eliminates need to wire TrueSTEAM into the HVAC equipment.



**Clean, Professional Installation** – Push terminals for easy wiring (no screwdriver required) are routed through an interior harness so no wires are exposed.



**Dual-Action Water Valve** – Solenoid design automatically fills and drains when needed to inhibit debris build-up in the tank.

\* Patent pending

## Control Options

Choose the humidity control option that is right for your customer. TrueSTEAM humidification systems can be controlled using:



### Prestige® Wireless Controls

Finally, your humidifier wiring is universal, regardless of your HVAC system brand, or type. Simply wire TrueSTEAM

to the wireless adaptor and press connect. The adaptor communicates wirelessly with Prestige to control humidity, fan airflow and temperature.



### VisionPRO® IAQ Total Home Comfort System

For integrated control of the home's temperature, humidification,

dehumidification and ventilation from a single device.



### TrueIAQ® Indoor Air Quality Control

For automatic control of humidity based on both inside and outside

temperatures. Provides homeowner with advanced humidity sensing and programming capabilities.



### Manual Humidity Control

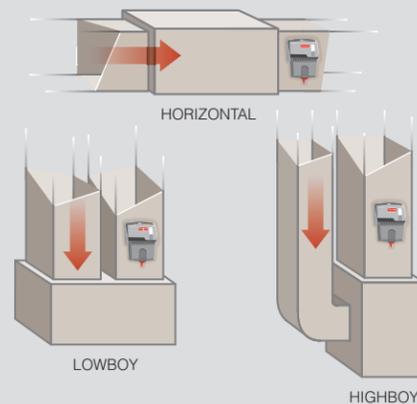
For simple control of humidity levels only. Allows homeowner to adjust settings as needed.

# Honeywell

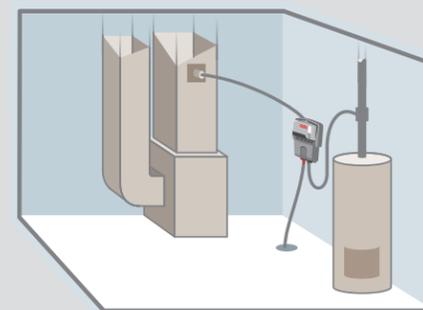
## Limitless Installation Opportunities

If you've ever had space limitations (think attics and crawl spaces) where you haven't been able to offer a humidification solution to your customers, then you'll appreciate the limitless opportunities that TrueSTEAM has to offer with both its application flexibility, size and control options.

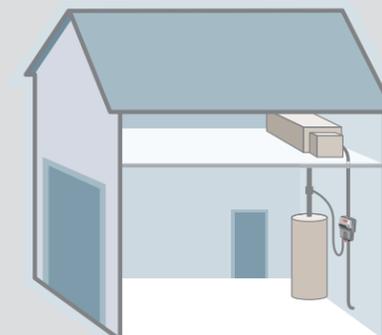
TrueSTEAM can be remotely mounted up to 20 feet away from the system with remote-mount kit, making humidification possible in homes where it was once thought impossible.



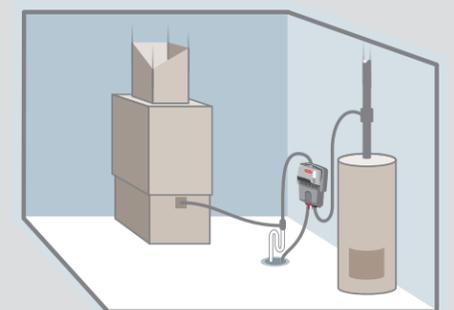
Duct Direct-Mount



Mechanical Room Remote-Mount



Attic Remote-Mount



Down-Flow Remote-Mount