

Heat Transfer

*Designer and Manufacturer of
Advanced Heating and Hot Water Systems*

PRODUCT RELEASE:

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Phoenix Modulating, Condensing Water Heater Offers Space Heating + Water Heating with 96% Efficiency

ORLANDO, FLORIDA (FEBRUARY 7, 2007) — The new PHOENIX gas-fired water heater from Heat Transfer delivers both space heating and domestic hot water in a single, high-efficiency, condensing and modulating appliance. The sealed combustion, direct vent unit is intended for residential and commercial applications.

Operating with either natural gas or liquid propane, the Phoenix has a combustion efficiency of 96%. Side tappings in the jacket permit connections to a hydro-air system for space heating. In this setup, a pump circulates the heated water from the Phoenix to a heat exchanger in the ductwork to provide heat for the living space. "The dual capability of the Phoenix should be a major attraction to home and building owners and managers looking to reduce energy consumption," comments Heat Transfer chief executive officer Dave Davis.



**THE NEW PHOENIX COMBINES DHW
AND SPACE HEATING IN A SINGLE,
96%-EFFICIENT PACKAGE**

HEAT TRANSFER

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Phoenix Combines DHW with Space Heating, *add one*

“With one purchase, they can get a high-efficiency domestic hot water system and a high-efficiency space heating system that will more than pay for itself over time.”

The Phoenix requires a relatively small footprint, enabling it to squeeze into the tight spaces so often found in commercial applications. Its lightweight construction, including a rustproof plastic jacket, makes it easy to maneuver into those confined areas.

Venting up to 85 feet (intake and exhaust piping combined) is permitted with 2-inch or 3-inch Schedule 40 PVC piping, depending upon the model. This venting requires zero clearance to combustibles, further enhancing installation flexibility.

Other key features include:

- **High-grade, stainless steel woven fiber burner:**

Featuring all-stainless steel construction and a spark ignition system, the burner assembly at the front exterior of the unit is a streamlined version of the one used on Heat Transfer’s popular Munchkin condensing boilers. This fully modulating, ultra-low NOx burner is load-matching, so that it saves substantial amounts of energy by limiting its firing to current demand. As demand for hot water

rises, the unit’s fan accelerates. As demand decreases, so does fan speed. This is in sharp contrast to a conventional burner, which fires to the maximum regardless of demand. In addition, the Phoenix burner is enclosed in a handsome black plastic cover that is readily removable for easy serviceability. (See photo above.)



PHOENIX MODULATING BURNER SYSTEM FOR LOAD MATCHING: FIRES ONLY TO DEMAND

- **Corrosion-resistant, stainless steel heat exchanger:** The heat exchanger’s large, high-quality surface area is designed to extract all the latent energy from the combustion process, as well as from the by-products of that process. “Condensing Phoenix water heaters extract so much heat that the resulting low exhaust temperatures permit venting with PVC,” says Davis.

Phoenix Combines DHW with Space Heating, *add two*

The Phoenix carries one of the industry's strongest warranties and is available in three sizes: 119 gallons, 80 gallons and 55 gallons. Each of these units offers three firing rates: 199,000 BTU per hour, modulating down to 66,000 BTU/h; 130,000 BTU/h to 44,000 BTU/h; or 100,000 BTU/h to 44,000 BTU/h.

HEAT TRANSFER: Founded in 1974 by Raymond B. Davis, Heat Transfer is a designer and manufacturer of advanced heating and hot water systems. Product categories include high efficiency boilers and advanced boiler control systems, high efficiency gas-fired water heaters, oil-fired and electric water heaters, indirect water heaters, and marine and pool heaters.

For more information about these products, visit Heat Transfer at www.htproducts.com. Or call toll-free: 800-323-9651 (508-763-8071 if calling from Massachusetts).

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