



Advanced Heating and Hot Water Systems

PRODUCT RELEASE:

For more information, contact:

Nicole LeBlanc

Communications Manager, HTP

774-271-3198; nicole.leblanc@htproducts.com

Versa-Hydro Combines Domestic Hot Water and Hydronic Space Heating in a Single, Compact Package

Pre-plumbed appliance sharply cuts space and installation time while delivering a thermal efficiency of 96%.

EAST FREETOWN, MASSACHUSETTS (OCTOBER 27, 2009) — The new Versa-Hydro™ Combined Hydronic Appliance from HTP melds hydronic space heating and domestic hot water with complete system control in a single 96% efficient package. “One Versa-Hydro unit effectively replaces a gas-fired water heater, a 135,000 BTU/hour boiler and a buffer tank in a space the size of your average residential water heater,” explains Todd Romig, HTP’s vice president of sales and marketing.

This “combined hydronic appliance” consists of three major components: a hot-water storage tank, available in one of three gallon sizes: 55, 80 or 119. It features an energy-saving modulating burner assembly attached to the outside bottom of the tank; and a space-heating module also attached to the tank (at the top) and containing a high-output heat exchanger and a variable speed pump. This pump is regulated by a rapid-response system controller called “Total System Control,” which modulates water flow from the storage tank and controls output temperatures to save energy.



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HTP

120 Braley Road, East Freetown, MA 02717
Telephone: 800-323-9651 or 508-763-8071; Fax: 508-763-4909
Visit us online at www.htproducts.com

Versa-Hydro, continued

“Our objective,” says Romig, “was to develop the next generation in modulating-condensing technology, a hydronic heating appliance that would save not only energy through superior performance, but also installation time and physical space, which translates into even greater benefits for both the end user and the contractor-installer.”

Saves on installation: With the Versa-Hydro, the heating contractor must make only five connections: at the supply and return for the space heating, at the inlet and outlet for the domestic hot water (DHW), and at the cold-water feed for makeup water. The installer need not bother with a primary/secondary loop, near-boiler piping, boiler and indirect electrical connections, or isolation valves. “Versa-Hydro units are entirely pre-plumbed and wired to ease the contractor’s installation task on the job site,” explains HTP chief executive officer Dave Davis.

Saves on space: The smallest Versa-Hydro unit, with a 55-gallon storage tank, measures 34 inches in diameter x 53 inches tall. The 80-gallon model carries the same diameter but is 72 inches tall, while the 119-gallon model measures a still relatively compact 37 inches in diameter x 74 inches tall. This small footprint allows the Versa-Hydro to squeeze into tight spaces. Its lightweight construction, including a rustproof, dent-resistant plastic jacket, makes it easy to maneuver into confined areas.

Saves on energy through superior performance: The high-grade, gas-fired burner features all stainless steel construction and a spark ignition system. Located on the front exterior beneath a removable black plastic cover, this fully modulating, ultra-low-NOx burner is load-matching. Instead of firing to the maximum like an energy-wasting conventional burner, the modulating burner gears its firing level to current demand, reducing energy consumption.

A 3 to 1 turndown ratio helps the system adjust to more moderate ambient temperatures, especially in the early spring or late fall, when there is less demand for heat. Working with lower outputs saves energy and avoids the problem of short cycling that can undermine performance and longevity.

The high-output, brazed-plate heat exchanger in the space heating module delivers 135,000 BTU per hour, with built-in system isolation for low-temperature hydronic baseboard, radiant heating and hydro-air applications. Warm water is drawn from the top of the Versa-Hydro storage tank through this heat exchanger and then returned to the bottom of the tank for reheating.

The built-in system controller closely monitors both the DHW and the space-heating systems, modulating the pump speed and the burner system to provide the desired water temperatures for

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Versa-Hydro, continued

each. “Domestic usage always gets the preference,” explains Davis. “As a result, if the temperature of the DHW supply drops below the set point, the system will automatically shut down the pump that supplies warm water to the space heating system until the DHW temperature can be restored.”

ABOUT HTP: Founded in 1974, HTP is a designer and manufacturer of advanced heating and hot water systems. Product categories include: modulating condensing commercial and residential high-efficiency boilers, indirect water heaters, high-efficiency gas-fired water heaters, solar hot water systems, and oil-fired and electric water heaters.

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

For editorial assistance, contact Nicole LeBlanc, HTP Communications Manager: 774-271-3198 or nicole.leblanc@htproducts.com.

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