



# innovation

GREEN TECHNOLOGIES

HIGH EFFICIENCY, RENEWABLE ENERGY AND LOW EMISSIONS





## TWO GENERATIONS OF GROWTH & INNOVATION

Established 1974 by Mr. Raymond D. Davis as a designer and fabricator of heat exchangers for the boiler and solar industries, HTP today is enjoying its second generation of family leadership under CEO Dave Davis and is a full-fledged manufacturer on the cutting edge of energy-efficient space and water heating technology.



### Industry Pioneers

HTP was the first U.S.-based manufacturer to bring a condensing gas water heater to the domestic market, unveiling the Voyager in 1987.

Condensing technology allows HTP's water heaters to deliver a thermal efficiency of up to 98 % compared to 56 % efficient residential and 80 % efficient commercial gas water heaters .

In 1999 HTP delivered yet another breakthrough with the launch of the Munchkin. This ultra high efficiency boiler revolutionized the industry by introducing the first residential modulating boilers in North America



Although the company makes a wide assortment of water heating products and system components, it is best-known for its indirect-fired water heaters, first introduced in 1980; and, more recently, for its state-of-the-art lineup of modulating, condensing ("ModCon") boilers.

HTP's history of developing new and innovative products has allowed the company to grow over 18 % annually for the last 10 years.

# Company Overview

## PEOPLE • PROCESS • PRODUCTS

**3 P's Strategy** — We have implemented a "3 P" strategy at HTP. The 3 P's stand for People, Processes and Product. Focus on each of the 3 P's is our daily mantra.

**People** — People are the core strength of our company. Retaining and recruiting world class talent is our most important investment. These investments will define our future.

**Process** — We are dedicated to implementing world class processes which will improve our product quality, make us easier to do business with and promote a green environment.

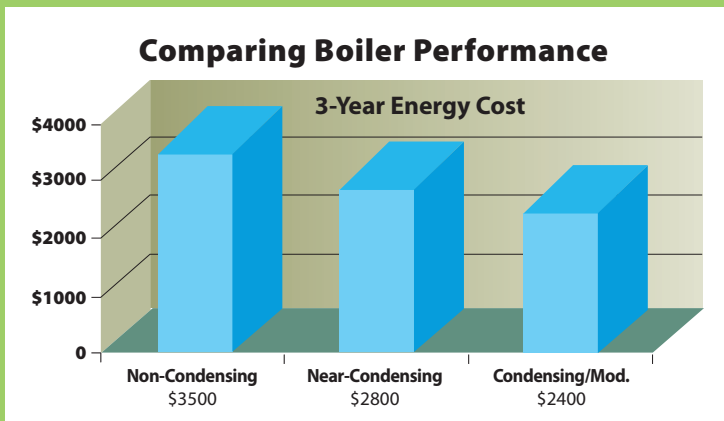
**Products** — The foundation of HTP was built by being the most innovative products company for the markets that we serve. We are customer centric and take great pride in delivering products that exceed our customers' expectations.



# Bringing Modulating Condensing Boilers to North America innovation

## In 1999, HTP Brings Modulating Condensing Boilers to North America

Our products reuse latent heat captured in flu gasses to preheat return water from the heating system. Sophisticated electronic controls allow the boiler to modulate the firing rate of the burner which reduces operational costs.

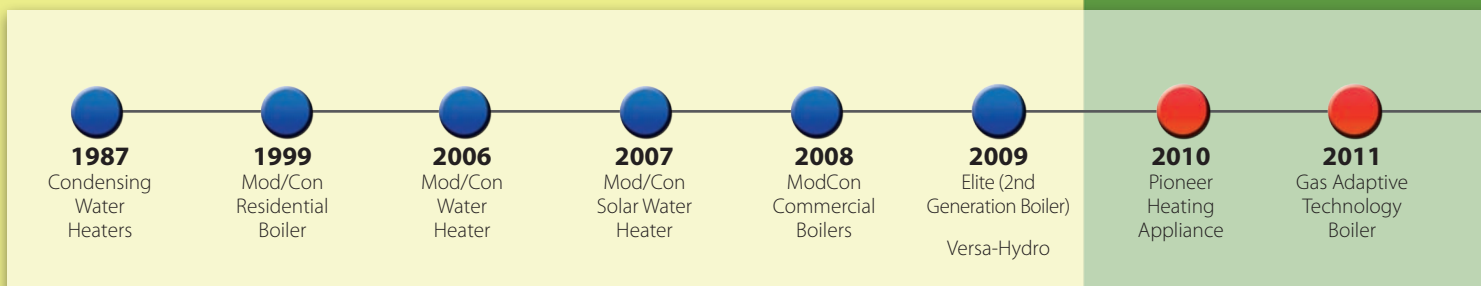


- a. Modulating, Condensing
- b. Electronic Controls
- c. Multiple boiler controls

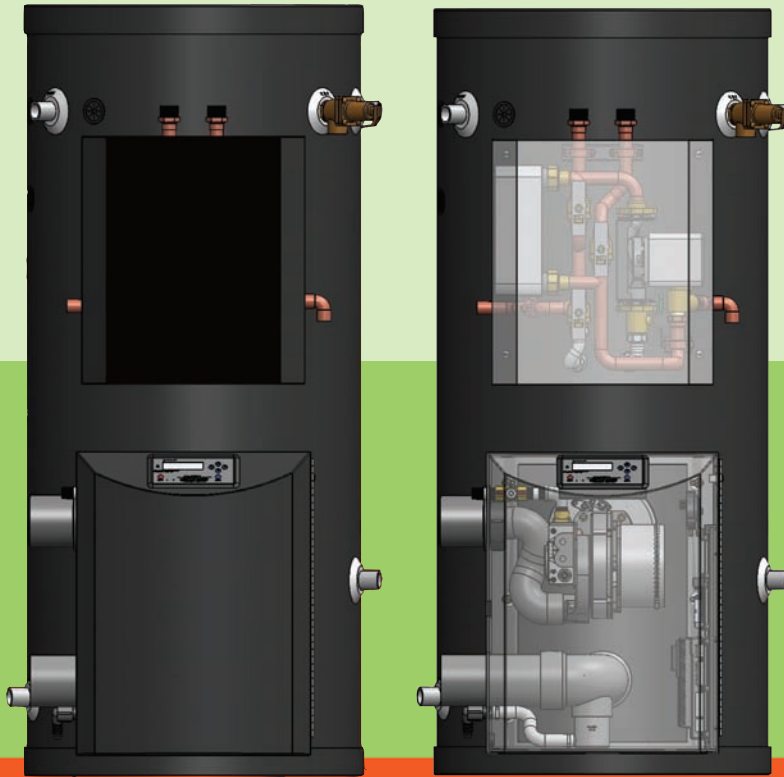
# Technology

## HTP's Innovative Product History

HTP has a history of developing and introducing the most advanced heating and hot water systems in the industry. We continue to live up to our legacy with bold new products currently being released, which will offer superior features and customer benefits



# Versa-Hydro



Welcome to the next generation of heating technology. The new **Versa-Hydro** combines space heating, domestic hot water, and total system control into one compact, high efficiency mod-con unit.

## Saves on space

Imagine fitting a water heater, boiler, and buffer tank into a space as small as 34" x 53". The new Versa-Hydro does it!

### Saves on installation

Just four connections – supply and return for heating, inlet and outlet for DHW – and you're done. There's no primary-secondary loop to install, no near boiler piping, no boiler/indirect electrical connections, and no isolation valves.

### Superior performance

The Versa-Hydro's advanced mod-con technology delivers a system efficiency of 96%, reducing electrical and gas consumption without sacrificing comfort. The high output heat exchanger generates up to 135,000 BTU/hr for space heating, with system isolation for low temperature baseboard, radiant heating, and hydro air applications built in.

### Total System Control (TSC)

The Versa-Hydro has built in controls that allow the system to manage it's own pump speeds and temperature settings giving the unit the ability to automatically adjust inputs to maximum efficiency.

# High Efficiency Boilers

## A History of Advanced Space Heating

### First North American Company to Introduce Modulating Condensing Boilers

- Fully modulating for ultra high efficiencies
- Robust Heat Exchanger [Stainless Steel Construction (316L)]
- Quiet operation
- State-of-the-art controls
- Environmentally friendly
- Modular component construction
- Operates at low supply temperature

## Condensing Technology

The cost of fuel in some areas of the country has increased almost 40% in just one year! HTP High Efficiency Modulating Gas Boilers provide a maximum payback on fuel savings. Savings can result in payback periods of less than 3 years. Depending on the age of your present equipment, our products could save you as much as 50% on your fuel bills.

## The Elite Heating Boiler®



2009

## Munchkin



1999

## MC Series



2006

## Mod Con



2007

## The Pioneer

The Pioneer is a trailblazing new appliance that installs like a mid-efficiency boiler with the performance of a high-efficiency product.

- Up to 95% High-Efficiency
- Modulation: 3 to 1 Turndown
- Room Air Intake
- Low Maintenance Design
- Qualifies for Federal Tax Credit
- No Boiler Loop Required
- Hydronic Mass - Minimal Cycling
- Stainless Steel Heat Exchanger
- Cascading Capabilities
- Hydronic Stabilization



# Indirect Water Heaters

HTP enjoys market leadership for In-Direct Water Heaters. The SuperStor brand is the most recognized in the industry. Our company uses only the best quality components to make products that “last a Lifetime”. Our in-direct heater tanks are made from robust 316L and our heat exchangers are made from 90/10 Cupro Nickel for long life and abundant hot water.

- **Low energy costs** – when used in conjunction with an HTP high-efficiency boiler, operating costs decrease even further
- **Appropriate for both residential and commercial applications** – available in seven models (ranging from 20 to 119 gallons)
- **Low standby losses** – the tank loses only ½ degree Fahrenheit per hour, thanks to 2” of environmentally safe foam insulation
- **Virtually maintenance free operation** – the simple design of the heat exchanger eliminates the need for costly scheduled maintenance services
- **Quality construction** – an extremely durable cupronickel heat exchanger boasts excellent heat transfer properties and resists corrosion, while the robust 316L stainless steel tank eliminates the need for anode rods
- **Aesthetically pleasing** – the attractive and durable silver plastic jacket ensures a rustproof finish, even in moist environments
- **Limited lifetime warranty** – covered by the industry’s strongest protection plan

# SUPERstor



# Market Leadership

## SuperStor Contender Indirect Water Heater

The SuperStor Contender Glass-Lined Water Heater is engineered with the highest standards the industry can offer. Each unit is designed to deliver a high volume of domestic hot water, the highest insulation standards and maintenance free operation for many years.

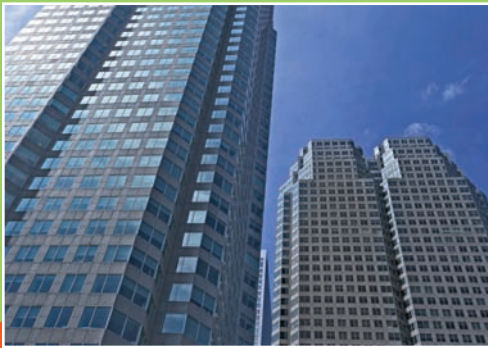
Our unique smooth surface coil design will resist lime build up, which can reduce the performance of the heater over its service life. Our unique plastic outer jacket will maintain its appearance without rusting. The extra thick insulation over 2 inch thickness, will save wasted energy normally lost by conventional fiberglass insulation.



# Phoenix® Condensing Water Heater



The award winning Phoenix® is a super insulated stainless steel water storage tank fitted with a combustion chamber submerged in the tank water. When the burner is fired, the hot combustion gases heat the combustion chamber walls, transferring the heat directly to the surrounding water. The hot gases travel into the secondary heat exchange coils where even more heat is transferred to the water condensing the combustion gases and wringing yet more heat from the gases. Finally the cool, low NOx combustion air is vented via plastic pipe to the outdoors.



## Commercial Applications

Larger demands for: the Laundry, Apartment Buildings, Restaurants, Hotel and other commercial projects.



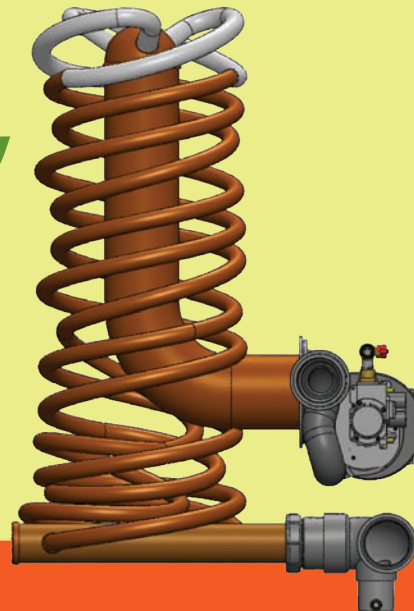
## Residential Applications

Modern homes with multiple bathrooms and whirlpool baths need high-capacity water heaters.

## Mod-Con Water Heater : The Heart of the Beast!

The Phoenix® electronic control adjusts the burner firing rate to match demand exactly. The burner firing rate increases as the demand increases and decreases as the hot water demand approaches the required temperature set point. This load matching modulation dramatically reduces on/off cycling, resulting in longer component life, reliability and higher system efficiency.

**Phoenix® efficiency up to 96%**



### Robust Construction:

Maintenance Free Heat Exchanger

Constructed of durable 90/10 Cupro Nickel and 800H Stainless Steel

Outstanding HTP Capability

# HTP Solar Systems

Phoenix Solar & The Versa-Hydro Solar: Truly revolutionary products.



- High Efficiency - 96%
- Highly Combustion and Thermal Efficient
- ½°F/hr standby loss
- Low Maintenance Design
- 316L stainless steel tank
- Hybrid cupronickel / stainless steel heat exchanger



Space Heating & Water Heater



**Phoenix Solar Water Heater**  
**The First Modulating Condensing Solar Water Heater with an integrated gas fired back-up... all in one water heater!**

Water Heater

# Solar Systems



Line Sets

Controls

Panels

Tanks

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