

# Heat Transfer Times

The Latest News & Information On  
Advanced Heating and Water Systems

**MUNCHKIN**  
STAINLESS STEEL HIGH EFFICIENCY HEATER

Ultra HIGH EFFICIENCY  
**PHOENIX**  
GAS FIRED WATER HEATER

**SUPERstor**

## Happy Holidays

We're Proud To Be An  
American Manufacturer

**HeatTransfer**

Advanced Heating and  
Hot Water Systems



We wish you the best this holiday season  
and hope you have a happy New Year!  
Thank you for your continued support!

Heat Transfer Products

**HeatTransfer**  
Advanced Heating and  
Hot Water Systems

Post Office Box 429 • East Freetown, MA 02717 • 508-763-8071 • [www.htproducts.com](http://www.htproducts.com) • November 2009

Best  
Turndown  
Ratio  
6 to 1

# Elite

## Heating Boiler

The Elite Boiler has an outstanding 6 to 1 turn down ratio. Greater turndown allows this appliance to modulate at lower firing rates which reduces short cycling, conserves energy and improves component reliability.



Best  
Range  
6 inputs,  
floor & wall  
mount

The Elite Heating Boiler® offers six input options ranging from 80,000 to 399,000 BTU's. This range will offer you the flexibility that you need to properly size your installation.

Best  
Venting  
200 Feet

Up To  
98%  
AFUE

Maximize your venting options. The Elite Heating Boiler® offers an impressive combined 200 vent length feet allowing incredible installation flexibility. All Elite Heating Boilers are vented in easy to install PVC venting and utilize a built in ULC S636 compliant CPVC adaptor.

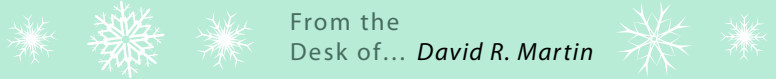
## Meet the Technical Support Trio - It's about the People



Got a technical question regarding the Installation of a Munchkin, Elite or maybe a Phoenix??? Ronald M. Gajdos, Brent Brehant and Ray Ouellette are the men with the answers. These men are some of the most knowledgeable people in the world on how to install and service high efficiency Heat Transfer products. They should be knowledgeable, for they make up the Technical Support staff, here at Heat Transfer. These gentlemen (term used loosely) man the phones of the technical support lines and answer questions all day long. Together these men have over 60 years of plumbing and heating experience. Wow!!!!

Please contact our Technical Support Center at 1-508-763-8071  
Hours of Operation: *Monday thru Friday- 8AM to 7PM Saturday- 8AM to 11AM*  
*We are here to work with contractors on technical and installation related questions.*

## Bah Humbug! President's Message



From the  
Desk of... *David R. Martin*

My family and I love to watch our favorite Christmas movies and shows to help usher in the holidays. Some of our favorites are Christmas Vacation, Elf, Miracle on 34th Street, How the Grinch Stole Christmas and, of course, It's a Wonderful Life. My particular favorite is the 1970's era Scrooge featuring Albert Finney. It is a musical adaptation of Dicken's A Christmas Carol. In the opening musical number, Scrooge sings "I hate people" and later calls Christmas, a "humbug". As a result of the ministrations of the various Ghosts of Christmas Past, Present and Future, Scrooge is transformed and realizes "I like people".

I try to read the book, A Christmas Carol, every year to get into the Christmas spirit. One of my favorite parts is Scrooge's interaction with the Ghost of Jacob Marley, his former business partner, where Marley speaks of missed opportunities. Said Marely, "Not to know that any Christian spirit, working kindly in its little sphere, whatever it may be, will find its mortal life too short for its vast means of usefulness. Not to know that no space of regret can make amends for one life's opportunities misused. Yet such was I. Oh, such was I." Marley added, "Why did I walk through crowds of fellow beings with my eyes turned down, and never raised them to that blessed star which led the Wise Men to a poor abode? Were there no poor homes to which its light would have conducted me?" In a vain effort to comfort Marley, Scrooge replies: "But you were always a good man of business, Jacob." "Business!" cried Marley. "Mankind was my business!"

The opportunity of serving others is a business that offers continual employment for all and great reward. At this time of year, may we look, and see a bright, particular star which will guide us to our life's opportunity.

**Merry Christmas!**

## Tech Tip: – December 2009



From the  
Tech Wizard... *Brent A. Brehant*

**Warm Weather Shutdown:** This feature is often overlooked when trying to trouble shoot a hydronic system. The system will appear to be just sitting idle waiting for a call from zones, when in fact everything is calling. Warm weather shutdown is a function of our control that allows the installer to essentially disable the heat function when the outdoor climate reaches a desired temperature.

**The Solution:** Access the status menu (S4 3 Seconds) and scroll down to D-5, the display will show the actual outdoor temperature reading from our sensor. Confirm that the correct temperature is being displayed. The sensor can also be tested for resistance, we use a 12k @ 77 degrees. If the sensor is determined to be faulty and a replacement is not available, then the sensor can be removed and the system will go to the highest temperature on the heating curve.

## Engineer Concepts – It's Always Sunny in Florida



**P**lease join us in welcoming the newest addition to Heat Transfer Products rep organization! Engineered Concepts based in Pompano Beach, Florida will be taking over the state of Florida, excluding the Western Panhandle.



**T**om and Marsha Becraft established Engineered Concepts in 1979. The agency has become a premier manufacturer's representative in Florida as a result of its great customer service practices. Their strong central information center along with satellite offices and warehouses throughout the state provide them with the coverage needed to meet customer demands. Engineered Concepts mission is "to consistently exceed our customers' expectations in all aspects throughout their experience, from price quoting, product delivery, training and service

**W**ith a well trained, professional and diverse sales team, Engineered Concepts is ready to give our products a new identity. The company follows a three step approach which includes: 1) *Plan a Strategy with our Principals.* 2) *Build long term customer relationships.* 3) *Maintain a high yield for our employees.* Following these steps has proven beneficial to their growth over the years. Heat Transfer Products looks forward to working with a well structured representative such as Engineered Concepts. With a team as determined as this one the opportunities are endless!

917 NW 31 Ave, Pompano Beach, FL 33069  
T: 954-979-8000 F: 954-979-5422 <http://www.eng-concepts.com/>

## Green from the start - QUALITY



When you purchase any of our gas fired products the units are ready to run right out of the box. They have been calibrated at the factory for emissions and firing rate with the desired fuel. These settings are crucial to both the longevity and efficiency of your gas fired unit. They also make sure we are not introducing excess emissions into the environment. Heat Transfer Products is committed to energy conservation for the products we produce and throughout the assembly processes. During the setting of the gas valves Heat Transfer Products has developed specialty test equipment that allows the gas valve settings to be preset before ever firing the boiler. This helps HTP to use less gas while testing, reducing factory emissions and fuel usage. The gas valve setting process at HTP utilizes compressed air instead of natural gas or propane to calibrate the valves appropriately. The relationship between compressible gasses, in this case air, natural gas, and propane makes this possible.

Completed gas train assemblies are placed into the test fixture where the offset fitting is connected to a high precision pressure sensor. Dried compressed air is connected to the gas valve in place of gas. The temperature and pressure of this dry air is continuously measured. The dry compressed air passes through tiny long thin tubes where the air is forced into laminar flow. Laminar flow is crucial for measuring the pressure drop and corresponding mass flow, but turbulence creates great difficulty in collecting this measurement, due to its random motion. Measuring turbulent flow would be similar to counting a group of people that are running around a room versus standing still. Such is the case for measuring air molecules at a given flow. The air then passes out of the test fixture and into the gas valve of the assembly being tested. All of the measurement information from the sensors is communicated to a PC, which controls the fan speed of the assembly through a feedback loop. The operator then adjusts the gas valve to get the appropriate gas flow rate and offset pressure. Operators of this machine are visually prompted through each step of the testing process and instructed on the necessary adjustments to the valve; after which they are verified for correctness by the PC control and displayed on the screen.

Now you may be wondering if this system really works. To ensure the testing was successful and all units are fully operational, they are live fired before leaving our production line. This is so we can verify that our firing rate along with emission levels are on target for every unit produced. Testing our products before they leave the line confirms that they will be ready for service upon delivery