The Hamilton Difference

Over 30 years Experience!

- Custom racked and stacked systems
- Computer Aided Design (CAD) Drawings with every system
- Quick Ship Program

Pre-Plumbed Packages

- Reduced installation time and cost
- Single point utility connections
- Space and money saving designs - we have a heater to fit your footprint and price point
- Factory tested complete systems, including tank(s), heater(s), and additional components

Emergency Technical Support available, 24 hours a day, 7 days a week!

Hybrid systems available!

Also available with stainless steel jackets for more demanding environments!

Copper Finned Tube
Water Heating and Hydronic Boiler Systems

The Copper Finned line from Hamilton Engineering is designed to provide Hot Water for Every Budget!
**Copper Finned Standard Features**

- Modular construction facilitates serviceability
- Factory tested and field-tested
- Five-year heat exchanger warranty (heaters)
- Ten-year heat exchanger warranty (boilers)
- ASME relief valve
- Stainless steel burners
- Compact design
- Mounted 6-wire switch
- Glass-fried and bronze headers (boilers)
- Cast iron headers (boilers)
- Spark ignition
- FM/UL gas train compliant (subject to codes)

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**Pressurized Combustion**

Pressurized combustion minimizes the effects of combustion room variables from the air-gas mixing process. One or more internal fans, inside of a combustion chamber that is sealed from the local environment, are utilized to create a pressure slightly higher than the surrounding atmosphere, which results in an air and gas mix that is completely controlled.

Like atmospheric models, pressurized combustion models rely on adequate combustion and ventilation air to be provided through properly sized openings in the wall to the outside of the building. In our pressurized design, the process of combustion is then independent from localized atmospheric conditions, and a steady efficiency and level of emissions is achieved.

Pressurized combustion units have the standard features listed, as well as these additional features:

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**Sealed Combustion**

Sealed combustion units can also be installed outdoors, and have these additional features:

**HAMILTON 98 - UP TO 98% EFFICIENT**

- Condensing style heater
- Flame safeguard
- Modulating temperature control with modulating valve
- Integral primary pump
- Full modulating with 6 1/2 turndown
- Low NOx
- Health/termed boiler platform
- Linked operating system for multiple unit applications

**HAMILTON 88 - UP TO 88% EFFICIENT**

- Low NOx
- Full modulating with 8 turndown
- Multiple integrated boiler platform
- Variable speed blower
- Symmetrically air/air coupled
- Flame safeguard control with UV flame detection

**HAMILTON 88XL - UP TO 88% EFFICIENT**

- Low NOx
- Full modulating with 5 1/2 turndown
- Multiple integrated boiler platform
- Variable speed blower
- Symmetrically air/air coupled
- Flame safeguard control with UV flame detection

**V-TUBE - UP TO 85% EFFICIENT**

- LED diagnostic panel
- 2-stage flueing
- Field-reversible headers
- Low NOx
- Stackable frame
- Pumping control

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**Atmospheric Combustion**

Heaters utilizing atmospheric combustion are designed so the combustion chamber is open to the atmospheric drawing in combustion air from the openings in the room, connected on the outside of the building. There are no internal controls to compensate for changes in the air supply.

Many variables such as barometric pressure, wind conditions or even open areas that add to the air supply, have an effect on the burner’s efficiency and quantity of emissions into the environment, so the selection of this design should take that into account. Each of our atmospheric combustion models have three carbon monoxide sensors, built-in draft diverters, and the option for a cupronickel heat exchanger and low water cut off.

Additional features include:

**HAMILTON 85 - UP TO 85% EFFICIENT**

- Low NOx
- Ultra-compact footprint
- Stainless steel combustion chamber
- 2-stage flueing
- UV flame detector
- Self-diagnostic control

**HAMILTON 85 - UP TO 85% EFFICIENT**

- Low NOx
- Field-reversible headers
- Stackable frame
- Barometric damper (Category I)
- Slide out heat exchanger
- Vertical or thru-wall venting

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**Mini-Tube - UP TO 83% EFFICIENT**

- Built-in draft diverter
- Self-diagnostic light switch
- Electronic blowout timer
- Field-reversible heat exchanger
- Pump control
- Operating control

**Multi-Tube - UP TO 83% EFFICIENT**

- Built-in draft diverter
- Interlocking combustion chamber
- Built-in deflector
- Slide out heat exchanger and burner tray
- Electronic blowout timer
- Single stage pump relay