

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 pricepoint
- 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!

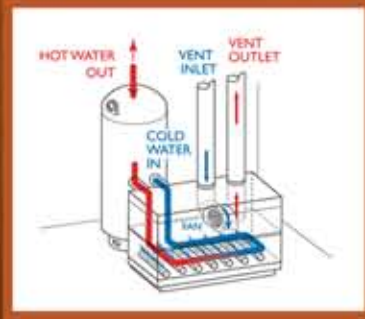


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COPPER FINNED STANDARD FEATURES

- Modular construction facilitates serviceability
- Factory fired and tested
- Five year heat exchanger warranty (heaters)
- Ten year heat exchanger warranty (boilers)
- Mounted ASME relief valve
- Stainless steel burners
- Compact design
- Mounted & wired flow switch
- Glass-lined and bronze headers (heaters)
- Cast iron headers (boilers)
- Spark ignition
- FM/CSD-1 gas train compliant (subject to codes)



Pressurized sealed combustion uses an inlet air connection to draw outdoor air directly to the combustion chamber, resulting in a balanced pressure on the exhaust and air inlet. This eliminates combustion and operational problems resulting from inadequate combustion and ventilation air.

Because no openings to the outside are required, additional energy is conserved in heating and cooling of the building. Our 88% and above efficient, sealed combustion units are typically microprocessor controlled, with features such as staged firing, to further promote an efficient use of fuel.

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

HAMILTON 96 - UP TO 98% EFFICIENT

- Condensing style heater
- Flame safeguard
- Modulating temperature control mixing valve
- Integral primary pump
- Full modulation with 4:1 turndown
- Low NO_x
- HeatNet integrated boiler platform
- Linked operating control system for multiple unit applications

500 - 2000 MBH

HAMILTON 88 - UP TO 88% EFFICIENT

- Low NO_x
- Full modulation with 4:1 turndown
- HeatNet integrated boiler platform
- Variable speed blower
- Symmetrically air/fuel coupled
- Flame safeguard control with UV flame detection

500 - 2000 MBH

HAMILTON 88 XL - UP TO 88% EFFICIENT

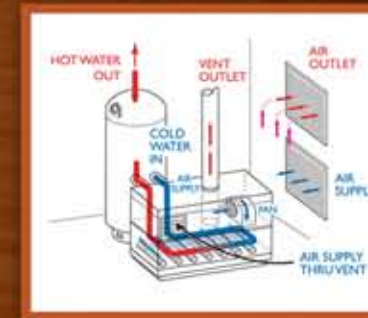
- Low NO_x
- Full modulation with 5:1 turndown
- HeatNet integrated boiler platform
- Variable speed blower
- Symmetrically air/fuel coupled
- Flame safeguard control with UV flame detection

2500 - 4000 MBH

V-TUBE - UP TO 85% EFFICIENT

- LED diagnostic panel
- 2-stage firing
- Field reversible headers
- Slide out heat exchanger
- Low NO_x
- Stackable frame
- Pump delay control

300 - 2100 MBH



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:

HAMILTON 85 - UP TO 85% EFFICIENT

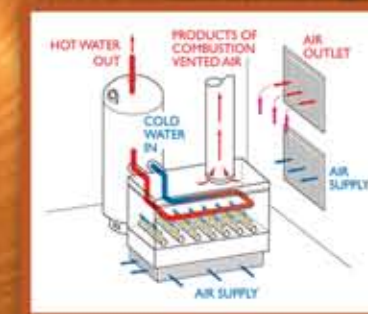
- Low NO_x
- Ultra-compact footprint
- Stainless steel combustion chamber
- 2-stage firing
- UV flame detection
- Self-diagnostic control

500 - 1950 MBH

MULTI-TUBE II - UP TO 82% EFFICIENT

- Low NO_x
- Field reversible headers
- Stackable frame
- Barometric damper (Category 1)
- Slide out heat exchanger
- Vertical or thru-wall venting

225 - 2300 MBH



Heaters utilizing atmospheric combustion are designed so that the combustion chamber is open to the atmosphere, 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 versus shut doors and windows, 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 inlet & outlet thermometers, built-in draft diverters, and the options for a cupro-nickel heat exchanger and low water cut off.

Additional features include:

MINI-TUBE - UP TO 83% EFFICIENT

- Built-in draft diverter
- Self-diagnostic light package
- Inlet and outlet thermometers
- Field reversible heat exchanger
- Pump control
- Operating control

100 - 399 MBH

MULTI-TUBE - UP TO 81% EFFICIENT

- Field reversible headers
- Interlocking combustion chamber
- Built-in draft diverter
- Slide out heater exchanger and burner tray
- Electronic intermittent pilot ignition
- Single phase pump delay

420 - 4000 MBH