



Copper-Fin[®] Water Heaters

The Ultimate Water Heater – Combining Both Fuel Efficiency and Design Flexibility

This highly efficient product combines 82% efficiency with a simple, trouble free design, resulting in unequalled water heater durability, lime scale free operation and fewer service calls. — And that translates to customer satisfaction!

Copper-Fin Heat Exchanger

Solid copper material eliminates worry about rust and corrosion. Copper-Fin heat exchanger fins are extruded from the tubing itself insuring maximum heat transfer efficiency for the life of the water heater.

Stainless Steel Burners

Provide durability, efficiency and low Nox emissions. Burners are adaptable to natural and liquefied petroleum (LP) gas.

Loch-Heat™ Ceramic Tile

Provides “space age” insulating technology and durability by eliminating the need for less efficient, bulky combustion chamber materials (refractory).

Loch-Heat™ will not crack or spall and provides the benefit of an overall water heater weight reduction of 25% over other refractory materials.

The Better Idea System



The “Better Idea” system combines the Copper-Fin with separate round jacketed storage tank* and manifold piping to provide a high performance water heater system. By separating the water heater and storage tank, standby losses are virtually eliminated and performance efficiency is further enhanced.

*Storage tank and manifold piping sold separately



Available in several popular sizes designed to meet virtually any residential or light commercial application.

Built-In Draft Hood

Reduces the cost of installation and lowers the overall height of the Copper-Fin permitting installation in virtually all applications where headroom restrictions exists.

Serviceability

Copper-Fin provides quick and easy removal of all major components including burner tray, gas train and controls. The heat exchanger may be removed from the front of the water heater without disturbing the vent system or cabinet integrity. Copper-Fin – the most serviceable water heater on the market, because servicemen and installers helped design it!

Standard Equipment

- High Limit Control
- Immersion Thermostat – directly senses water temperature
- Circulating Pump Mounted
- Individual Inlet and Outlet Temperature Gauges
- 150 PSI ASME Temperature and Pressure Relief Valve
- Galvanized Jacket
- Built in Draft Hood
- Gas Valve with Built in Manual Shut Off
- High Gloss Acrylic Paint
- High Efficiency Stainless Steel Burners
- Light Weight Loch-Heat™ Ceramic Tile Combustion Chamber
- ASME Certified to 160 PSI Working Pressure
- National Board Registered
- AGA Design Certified for Closet Installation (Models 090 through 180)
- AGA Design Certified for Alcove Installation (Models 199 through 500)

Optional Features

- Flow Switch
- Vent Damper (except 399, 500)
- Combustible Floor Shield (except 399, 500)
- Manual Reset High Limit
- Low Water Cut Off (Probe Type)
- Spark Ignition (F-9) Models 090 through 270
- Pump Delay
- Module Firing Gas Valve and Spark Ignition (M-9)

Firing Control Systems

F-1 Standing pilot, thermocouple supervision & manual reset high limit, standard equipment (Models 090 through 270)

F-9 Electronic pilot supervision, spark ignition, 4 second main gas shutdown, standard equipment (Models 315 through 500)

M-9 Same as F-9 with module firing gas valve*

Note: Consult factory for FM, IRI & CSD-1

*Natural Gas only

Dimensions & Specifications

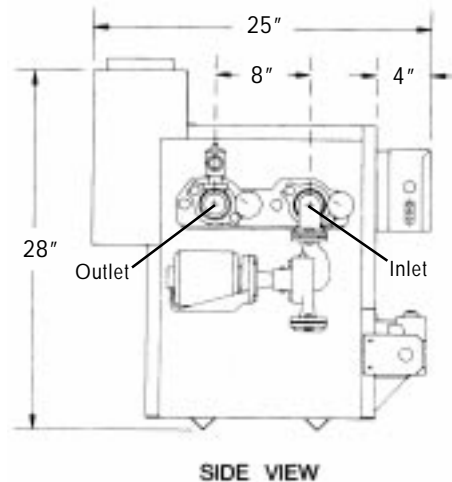
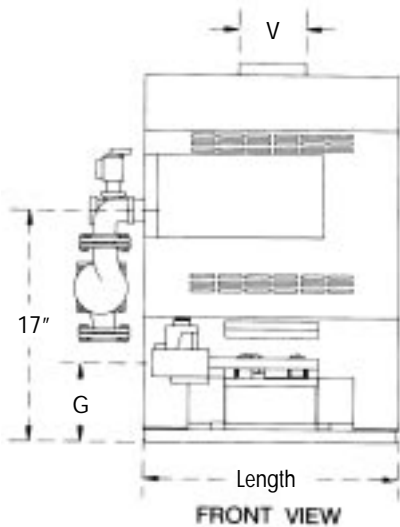
Model Number	BTU Input	GPH 100° Temp Rise	Gas Valve †	V	Length	G	Weight
RWN090PM-F1	90,000	89	1/2"	5"	18 1/2"	5 3/4"	192
RWN135PM-F1	135,000	134	1/2"	5"	22 1/2"	5 3/4"	210
RWN180PM-F1	180,000	179	3/4"	6"	26 1/2"	5 3/4"	229
RWN199PM-F1	199,000	198	3/4"	6"	29 1/2"	11 3/4"	247
RWN225PM-F1	225,000	224	3/4"	7"	29 1/2"	11 3/4"	249
RWN270PM-F1	270,000	268	3/4"	7"	32 1/2"	11 3/4"	261
RWN315PM-F1	315,000	313	1"	8"	35 1/2"	11 3/4"	278
RWN360PM-F9	360,000	358	3/4"	8"	38 1/2"	11 3/4"	288
RWN399PM-F9	399,000	397	3/4"	10"	47 1/2"	11 3/4"	355
RWN500PM-F9	500,000	497	1"	10"	55 1/2"	11 3/4"	384

Recovery based on actual heater performance at 82% (Change "N" to "L" to denote L.P.)

Notes:

- Pump pre-mounted on all PM models.
- Inlet and outlet
 - 1 1/2" N.P.T. 090 through 500.
- L.P. Gas Valve connection is:
 - 1/2" – Models 090 through 180.
 - 3/4" – Models 225 through 500.
- All models approved for natural and L.P.
- Pump width from side of heater is 6 7/8"

† Natural Gas



The Built-In Advantage™

