



RL94I

Type of Appliance

- Temperature controlled, continuous flow, gas hot water system
- Certified for installation in manufactured (mobile) homes
- Forced combustion / Direct vent
- Energy Star qualified

Thunder Group Model Number

RL94IN (Natural Gas) / RL94IL (Propane)

Minimum/Maximum Gas Rate (Input)

9,900 - 199,000 BTU/h (Natural Gas)
10,300 - 190,000 BTU/h (Propane)

Electrical

Appliance: AC 120 Volts - 60 Hz
Controller: DC 12 Volts

Electrical Consumption

Normal: 83 w Standby: 2 w Anti-frost protection: 184 w

Ignition System

Direct electronic ignition

Hot Water Capacity

Minimum flow rate: 0.26 GPM
Minimum activation flow rate: 0.4 GPM
Maximum flow rate: 9.4 GPM

Temperature

98° - 120° F (factory default) Maximum temperature is selectable at 120° F or at 140° F; 98° - 185° F available with the MCC-91 controller for commercial and hydronic applications

Temperature (without remote)

120° F (factory default) or 140° F

Installation

Indoor only

Energy Factor

Natural Gas: 0.82 Propane: 0.82

Service Connections

Gas supply: 3/4 inch MNPT Cold water inlet: 3/4 inch MNPT
Hot water outlet: 3/4 inch MNPT

Isolation & Pressure Relief Valves Included

Heavy duty forged brass Webstone Isolator valves EXP E2, certified to NSF/ANSI 61-8 for potable water

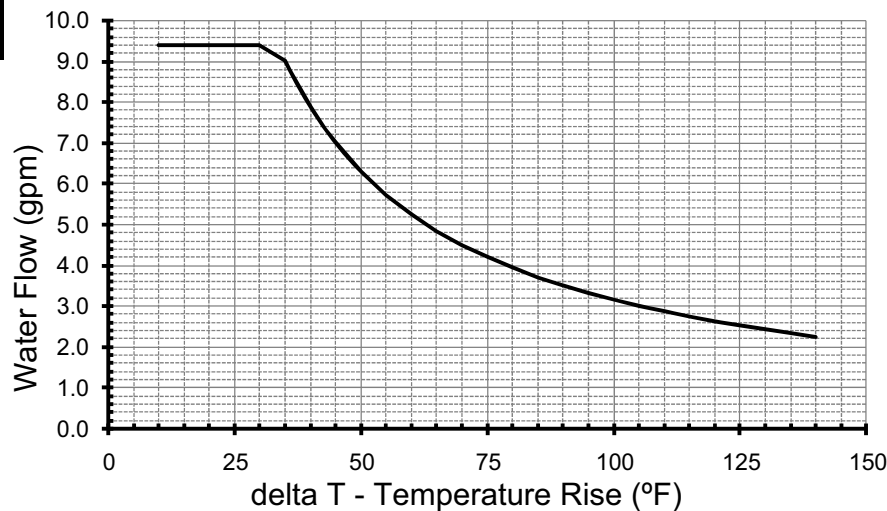
Water Flow Control

Water flow sensor, electronic water control device and by-pass

Minimum/Maximum Water Supply Pressure

20 - 150 PSI (recommended 30-80 PSI for maximum performance)

FLOW TABLE





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Water Temperature Control

Controller

Simulation feed forward and feedback

MC-91-1US (part of the front panel)
Deluxe controller: MC-100V-1US (optional)
Bathroom controller: BC-100V-1US (optional)
MCC-91-1US (for commercial applications)

Controller Cable

Non-polarized two-core cable, minimum 22 AWG

Safety Devices

- ? Flame failure - Flame Rod
- ? Boiling protection
- ? Combustion fan rpm check
- ? Over current - glass fuse
- ? Remaining flame (OHS)
- ? Thermal fuse
- ? Automatic frost protection

**Clearances from Combustibles
(suitable for closet, attic, and
crawl space installations)**

- ? Top of heater - 6 inches
- ? Front of heater - 6 inches
- ? Sides of heater - 2 inches
- ? Back of heater - 0 inches
- ? Ground / bottom - 12 inches
- ? From vent pipe - 0 inches

Clearances from Non-combustibles

- ? Top of heater - 2 inches
- ? Front of heater - 6 inches
- ? Sides of heater - 1/2 inch
- ? Back of heater - 0 inches
- ? Ground / bottom - 12 inches
- ? From vent pipe - 0 inches

**Min. / Max. Gas Supply Pressure
(sea level)**

Natural Gas: min 5" W.C. max 10.5" W.C.
Propane Gas: min 8" W.C. max 13.5" W.C.

Manifold Gas Pressure (inches W.C.)

Natural Gas: high fire 3.4" W.C. low fire 0.55" W.C.
Propane Gas: high fire 5.4" W.C. low fire 0.96" W.C.

NOx

Meets California and Texas NOx Emission Rules

Warranty

Heat exchanger: 12 years* for residential and 5 years* for commercial and hydronic applications; (10 years* if used with the Rinnai Hydronic Furnace); all other parts 5 years*; labor 1 year; (* 3 years if used as a circulating water heater within a circulation loop, when the water heater is in series with a circulation system and all circulating water flows through the water heater)

Rinnai is continually updating and improving products; therefore, specifications are subject to change without prior notice. Local, state, provincial and federal codes must be adhered to prior to installation.

DIMENSIONS

WEIGHT: 53 LBS (24 KG)

The wall bracket is adjustable to allow an additional 1.57 inches (40 mm).

DIM	DESCRIPTION	in (mm)
A	Width	14 (355.6)
B	Depth *	9.6 (244.5)
C	Height - Unit	22.9 (582)
D	Distance between mounting holes	25.5 (648.2)
E	Hot Water Outlet - from wall *	3.6 (91)
F	Hot Water Outlet - from center	4.3 (110)
G	Cold Water Inlet - from wall *	2.8 (70)
H	Cold Water Inlet - from center	1.1 (27)
I	Gas Connection - from wall *	3.9 (99)
J	Gas Connection - from center	3.5 (89)
K	From base to gas connection	1.6 (40)
	From base to cold connection	2.0 (50)
	From base to hot connection	1.6 (41)