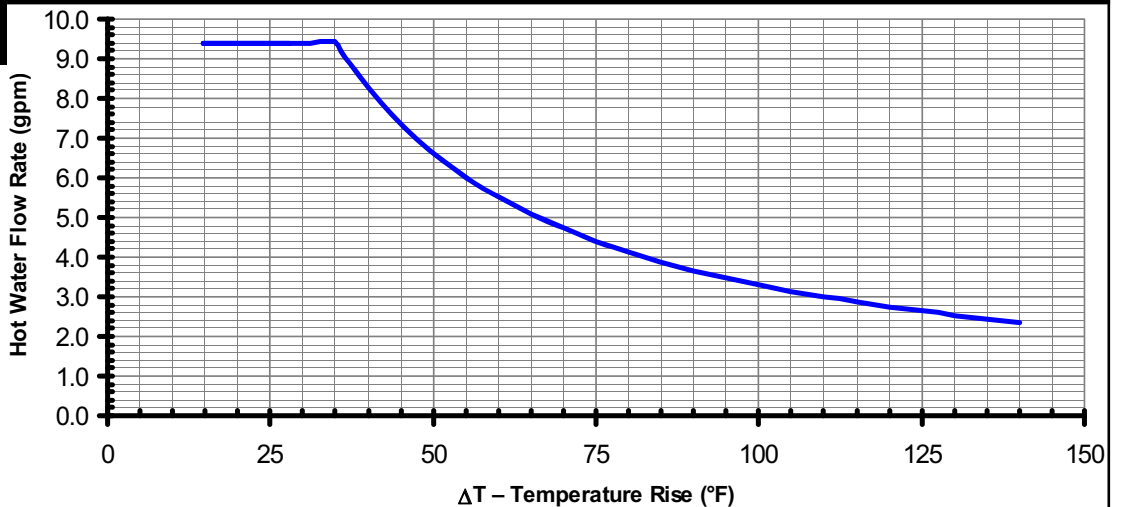




## RL94E

<b>Type of Appliance</b>	<ul style="list-style-type: none"> <li>• Temperature controlled, continuous flow, gas hot water system</li> <li>• Certified for installation in manufactured (mobile) homes</li> <li>• Forced combustion</li> <li>• Energy Star qualified</li> </ul>
<b>Thunder Group Model Number</b>	RL94EN (Natural Gas) / RL94EL (Propane)
<b>Minimum/Maximum Gas Rate (Input)</b>	9,900 - 199,000 BTU/h (Natural Gas) 10,300 - 199,000 BTU/h (Propane)
<b>Electrical</b>	Appliance: AC 120 Volts - 60 Hz Controller: DC 12 Volts
<b>Electrical Consumption</b>	Normal: 49 w Standby: 2 w Anti-frost protection: 104 w
<b>Ignition System</b>	Direct electronic ignition
<b>Hot Water Capacity</b>	Minimum flow rate: 0.26 GPM Minimum activation flow rate: 0.4 GPM Maximum flow rate: 9.4 GPM
<b>Temperature</b>	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
<b>Temperature (without remote)</b>	120° F (factory default) or 140° F
<b>Installation</b>	Outdoor only
<b>Energy Factor</b>	Natural Gas: 0.82 Propane: 0.82
<b>Service Connections</b>	Gas supply: 3/4 inch MNPT Cold water inlet: 3/4 inch MNPT Hot water outlet: 3/4 inch MNPT
<b>Isolation &amp; Pressure Relief Valves Included</b>	Heavy duty forged brass Webstone Isolator valves EXP E2, certified to NSF/ANSI 61-8 for potable water
<b>Water Flow Control</b>	Water flow sensor, electronic water control device and by-pass
<b>Minimum/Maximum Water Supply Pressure</b>	20 - 150 PSI (recommended 30-80 PSI for maximum performance)

### FLOW TABLE





**RL94E**

**Water Temperature Control**

**Controller**

Simulation feed forward and feedback

MC-91-1US (included)  
 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**

- ? Top of heater - 12 inches
- ? Front (Panel) - 24 inches
- ? Front (Exhaust) - 24 inches
- ? Back of heater - 0 inches
- ? Ground / bottom - 12 inches
- ? Sides of heater - 6 inches

**Clearances from Non-combustibles**

\* 24 inches required for serviceability

- ? Top of heater - 2 inches
- ? Front (Panel) - 0 inches \*
- ? Front (Exhaust) - 24 inches
- ? Back of heater - 0 inches
- ? Ground / bottom - 2 inches
- ? Sides of heater - 1/8 inch

**Min. / Max. Gas Supply Pressure**

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.) (sea level)**

Natural Gas: high fire 2.8" W.C. low fire 0.44" W.C.  
 Propane Gas: high fire 5.0" W.C. low fire 0.93" 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		DIM	DESCRIPTION	in (mm)
<p><b>WEIGHT: 51 LBS (23 KG)</b></p>	A	Width	14 (355.6)	
	B	Depth	9.9 (251.1)	
	C	Height - Unit	22.9 (582)	
	D	Distance between mounting holes	25.0 (634.2)	
	E	Hot Water Outlet - from wall	3.8 (97.6)	
	F	Hot Water Outlet - from center	4.3 (110)	
	G	Cold Water Inlet - from wall	3.0 (76.6)	
	H	Cold Water Inlet - from center	1.1 (27)	
	I	Gas Connection - from wall	4.2 (105.6)	
	J	Gas Connection - from center	3.5 (89)	
		From base to gas connection	1.6 (40)	
	K	From base to cold connection	2.0 (50)	
		From base to hot connection	1.6 (41)	