City of Industry, CA Houston, TX Edison, NJ

1.866.827.4664 1.866.690.0111 1.866.421.7220

RC80E

Type of Appliance

Thunder Group model number

Operation / Installation

Minimum/Maximum Gas Rate (Input)

Electrical

Electrical Consumption

Ignition System

Hot Water Capacity

Temperature

Temperature (without remote)

Approved Gas Types Energy Factor (EF)

Service Connections

Isolation & Pressure Relief Valves Included

Water Flow Control

Minimum/Maximum Water Supply Pressure

Condensing, Tankless, Temperature controlled, continuous flow, gas hot water system, Energy Star Qualified

RC80EN (Natural Gas) / RC80EL (Propane)

Forced combustion; outdoor only

9,500 (Natural Gas), 10,300 (Propane) - 157,000 BTU/h

Appliance: AC 120 Volts - 60 Hz

Temperature Controller: DC 12 Volts

Normal: 44 w Standby: 2 w Anti-frost protection: 172 w

Direct electronic ignition

Minimum flow rate: 0.26 GPM

Minimum activation flow rate: 0.4 GPM

Maximum flow rate: 8.0 GPM

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

120° F (factory default) or 140° F

Natural or Propane (ensure unit matches gas type)

Natural Gas: 0.96 Propane: 0.96

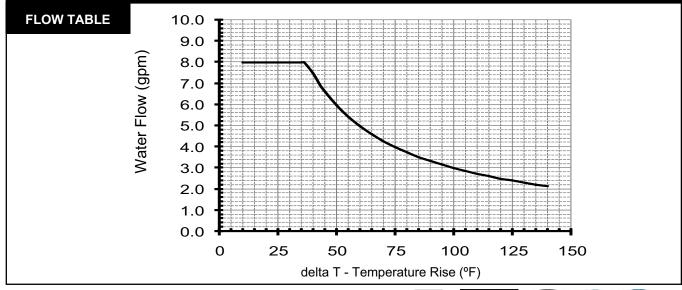
Gas supply: 3/4 inch MNPT Cold water inlet: 3/4 inch MNPT Hot water outlet: 3/4 inch MNPT

Heavy duty forged brass Webstone Isolator valves EXP E2, certified

to NSF/ANSI 61-8 for potable water

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

15 - 150 PSI (50 PSI or above is recommended for maximum flow)

















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RC80E

Controller

Controller Cable
Safety Devices

Clearances from Combustibles

Clearances from Non-combustibles

* 24 inches required for serviceability

Min. / Max. Gas Supply Pressure

Manifold Gas Pressure (inches W.C.)

NOx

Warranty

MC-91-1US (included)

Deluxe controller: MC-100V-1US (optional)
Bathroom controller: BC-100V-1US (optional)
MCC-91-1US (for commercial applications)

Non-polarized two-core cable, minimum 22 AWG

- Flame failure Flame Rod
- · Boiling protection
- Combustion fan rpm check
- Over current glass fuse (3 amp)
- Top of heater 12 inches
- Front (Panel) 24 inches
- Front (Exhaust) 24 inches
- Top of heater 2 inches
- Front (Panel) 0 inches *
- Front (Exhaust) 24 inches

Automatic frost protection

· Thermal fuse

Remaining flame (OHS)

- Back of heater 0 inchesBottom of heater 12 inches
- Sides of heater 6 inches
- Back of heater 0 inches
- Bottom of heater 2 inches
- Sides of heater 1/8 inch

Natural Gas: min 5" W.C. max 10.5" W.C. Propane Gas: min 8" W.C. max 13.5" W.C. Natural Gas: high fire 2.7" W.C. low fire 0.61" W.C.

Propane Gas: high fire 3.6" W.C. low fire 0.92" W.C.

Meets California and Texas NOx Emission Rules

Heat exchanger: 12 years* for residential and 5 years* for commercial and hydronic applications; (10 years* if used with the Rinnai Hydronic Air Handler); 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, all circulating water flows through the water heater and without an on-demand recirculation system). Refer to the manual for complete warranty information.

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.

DIM DESCRIPTION in (mm) **DIMENSIONS** WEIGHT: 63.9 lb (29 kg) Width 18.5 (470) Α В Depth 10.7 (271.9) 26.4 (670) Height - Unit D Height - with brackets 28.4 (721.6) Ε Hot Water Outlet - from wall 4.5 (115) F Hot Water Outlet - from center 3.9 (100) G Cold Water Inlet - from wall 3.0 (75.0) C Н Cold Water Inlet - from center 0.5 (12.8) D Gas Connection - from wall 4.1 (104) Ġ J Gas Connection - from center 4.1 (103.2) From base to gas connection 1.6 (40.2) From base to cold connection 2.0 (50.2) From base to hot connection 1.6 (41.2) Condensate Dain - from wall 5.4 (137.6) Condensate Drain - from center 7.7 (195)

