Job:

# 84 Professional

# ASME

# Gas Pool Heaters

# Models BR-259 and BR-409

Engineer:

Contractor:

Prepared By:       Date:

Model:       Indoor/Outdoor



* 84% Efficiency
* ASME Code Bronze Header
* ASME Code Cupro-Nickel Fin Tube
* 125 lb. Pressure Relief Valve
* Small Footprint
* Direct Vent Capable
* Internal Bypass for High Flow Rates (up to 125 gpm)
* Indoor/Outdoor

**84 Professional Shown with outdoor top**

* 3 Years Parts and Labor Limited Warranty *– see warranty for details*

#### Heat Exchanger

* ASME Inspected and Stamped  
  160 PSIG
* National Board Approved
* Bronze Header
* Dual Thread Inlet/Outlet Header

NPT Inside and Buttress Thread OD

* Finned Tubing

Cupro-Nickel – Standard

* ASME Stainless Steel Tube Sheet
* Silicone O-Rings
* 125 PSIG Pressure Relief Valve

mounted

* T&P Gauge-mounted
* Water Connections

Right Hand – Standard

Left Hand – Field Change

Flow Through Right – Field Change

Flow Through Left – Field Change

* Flow Configuration – single-pass

#### Controls

* 115/230V, 60Hz, 1 Ph Power Supply
* 115/230/24V Transformer
* 100% Pilot Shut-off
* Electronic, Intermittent Direct Spark

Ignition

* High Limit Control
* On/Off Switch
* Air Vent Switch
* Water Flow Switch-mounted
* Dual Electronic Temp Sensor
* Digital Display With Diagnostics

#### Gas Control Train

* Natural Gas
* Combination Control Valve
* On/Off Firing
* ANSI Z21.56 Design Certified
* Fuel Type

Natural Gas

Propane Gas

* Low Nox

#### Construction

* Front Controls
* Stainless Steel Burners
* Polytuf Powder Coat Finish
* Indoor/Outdoor
* Vent Selection

Outdoor Stackless Top – Standard Top Mount

Outdoor Stackless Top – Field Installed Rear Mount

Direct Vent – Field Installed

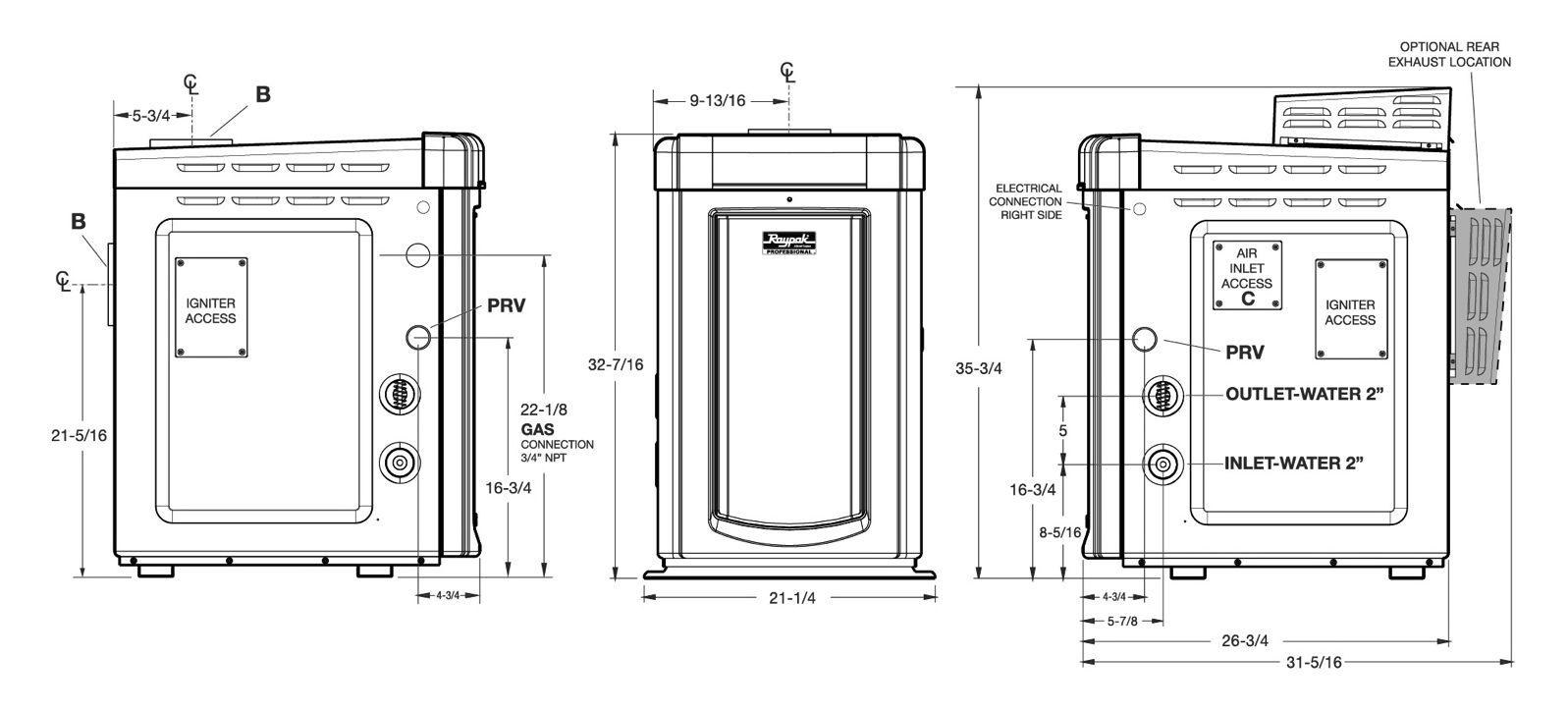
* Can be installed on combustible surfaces



84 Professional ASME

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Gas Pool Heaters Model



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Heater**  **Model** | **MTUH**  **Input** | **Dimensions (in.)** | | | | **Shipping Weights (lbs)** |
| **Flue**  **Diameter**  **(B)** | **Air**  **Inlet (C)** | **Minimum Flow**  **(gpm)** | **Maximum Flow**  **(gpm)** | **With  Stackless Top** |
| BR-259 | 250.0 | 6” | 4” | 25 | 125 | 168 |
| BR-409 | 399.0 | 6” | 4” | 40 | 125 | 180 |

**Notes:**

1. The model number prefix indicates: (B=Bronze header), (R=Raypak) Model number suffix indicates: pilot type (E = digital) and fuel type (P = propane, N = natural gas) fin tubing (X=Cupro-Nickel, C= Copper). Example: Model number BR-409-EN-X indicates a unit with digital (IID) ignition using natural gas with bronze headers and cupro-nickel tubes.

2. Ratings are for natural gas and elevations up to 2,000 feet above sea level. For elevations over 2,000 feet, consult the factory.

3. Flue gases must be properly vented with 6” CAT I vertical venting or CAT III horizontal venting. Non-metallic venting not acceptable. Inlet air can be ducted with 4” metal or PVC pipe-See I/O manual for complete venting details.