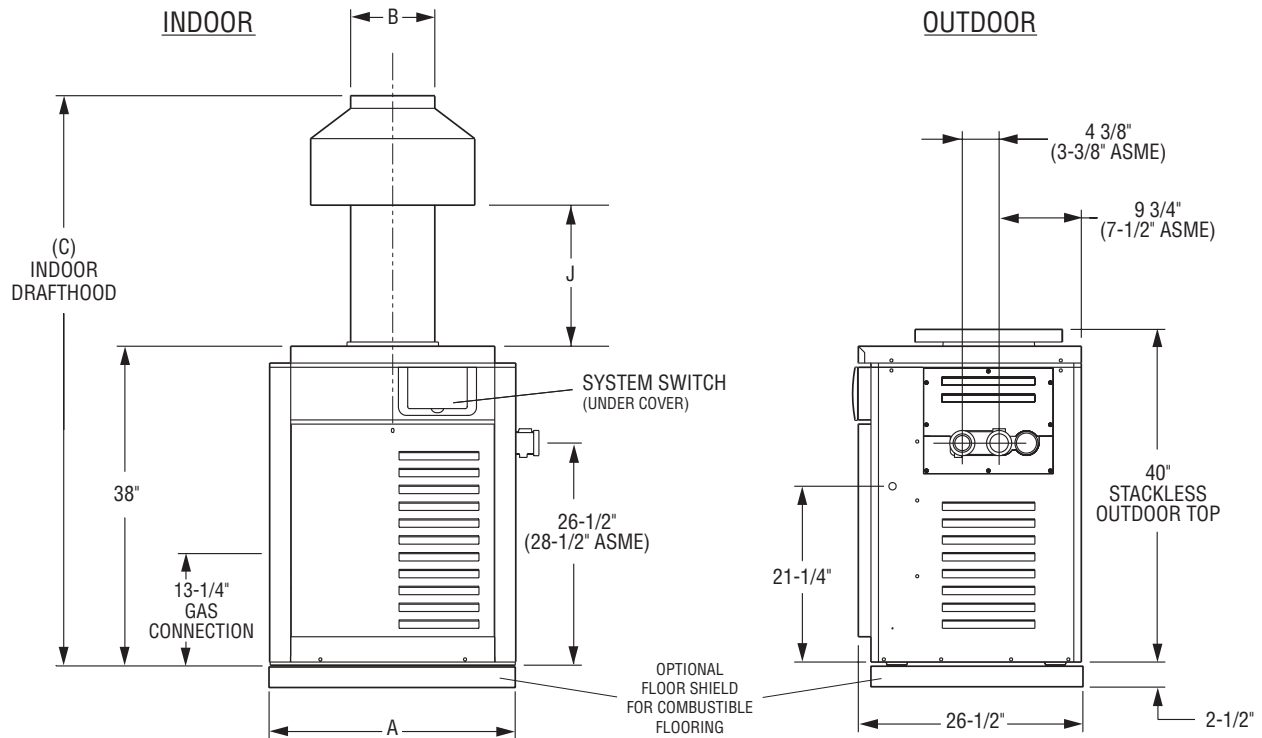


# Technical Data



Heater Model	BTUH Input (000)	(A) Cabinet Width	(B) Flue Dia.	(C) Indoor Drafthood	(J)	Gas Conn.	Water Conn.	Shipping Weights (lbs)		
								Cast Iron Heater w/Stackless Top	Polymer Heater w/Stackless Top	Indoor Draft Hood
R-185B	181	18-1/4"	6"	62-5/8"	12-1/16"	3/4"	2"	191	172	12
R-265B	264	22-3/8"	7"	62-7/8"	11-1/8"	3/4"	2"	214	195	15
R-335B	334	25-3/4"	8"	63-3/4"	10-3/4"	3/4"	2"	234	215	17
R-405B	399	29-1/4"	9"	65-3/8"	12-1/2"	3/4"	2"	253	234	20

Designation for Electronic Propane is "EP" and Electronic Natural Gas is "EN".

Designation for Millivolt Propane is "MP" and Millivolt Natural Gas is "MN".

Prefix "C" for Cast Iron (ASME) headers; "P" for Plastic (polymer) headers.

Suffix "L" after model designates Low NOx.

Example: PR-405BL-EN

Reduce input 4% for each 1000 feet above sea level when installed above 2000 foot elevation.

Plastic (polymer) headers cannot be used for ASME installations.

Manufactured under Patent No. 3,623,458.

## RP2100 Pool and Spa Heaters

RP2100 Digital • RP2100 Digital Low NOx • RP2100Millivolt



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# Technical Data

## Standard product features – all models

- **Polytuff Powder Coating**  
The Raypak RP2100 has a polyester coated, non-corrosive cabinet that is more durable than solventborne and waterborne coated metal cabinets. Every piece of sheet metal powder coated goes through a 7-stage wash system making certain the powder paint has a perfect bond. Underneath the tough, yet beautiful finish you will find galvanized metal that offers superior rust prevention and years of durable service.
- **Wind-Resistant Design**  
No need for fans to combat drafting problems. The RP2100 was designed for outdoor installations with its exclusive low-profile design. It is so thoughtfully and carefully designed it actually protects itself from the things that tend to stifle ordinary pool and spa heaters: falling leaves, wind, airborne debris, rain, downdrafts, updrafts, sleet, snow, etc. In fact it is so efficiently designed it ensures uninterrupted heating performance regardless of all but the most extreme weather conditions. Built Raypak tough. Built to last.
- **Polymer Header**  
Polymer headers prevent rust stains from harming your pool's surface giving you years of trouble-free swimming pleasure.
- **All Copper Fin Tube Heat Exchanger**  
The fin tubes of the heat exchanger are each made from a single piece of extruded copper. This integral-fin design allows maximum heat transfer to be attained and maintained.
- **Stainless Steel Tube Sheet**  
Stainless steel tube sheets are used on all RP2100 heaters with the polymer headers. This allows for a completely nonferrous waterway, leaving your pool truly rust-free.
- **CPVC 2" Water Connections**  
Standard with every RP2100 is a set of 2" slip-fit CPVC water connections to make your installation secure and effortless.
- **Condensation Protection**  
Raypak's Unitherm Governor, helps reduce condensation from low inlet water temperatures. The Unitherm Governor automatically regulates the water flow to help keep the water temperature in the heat exchanger above 105°F. Both water temperature and water flow rate are controlled to eliminate condensation, sooting, and scale buildup that can shorten heater life.
- **High Flow Rates**  
The RP2100 comes with an automatic bypass built into the header. You'll find that the RP2100 is capable of delivering water flow at a rate up to 125 gpm.
- **Burner Tray**  
Every RP2100 burner tray is built to last, from the stainless steel burners to the aluminized metal used in the heat sensitive areas. In the event that anything should happen to your burners they can be quickly and easily serviced.
- **Fire Tile**  
A ceramic fiber combustion box keeps your RP2100 running efficiently and keeps the outside jacket cool. By using this space age material the RP2100 won't retain residual heat after it is turned off, allowing it to be installed without the use of costly metal heat sinks.
- **Fuel Efficient**  
Efficient? You bet. Energy-smart Raypak heaters consistently achieve the highest efficiency ratings and the RP2100 is no exception. It exceeds all federal and state standards.

## Digital product features

- **Microprocessor-Controlled Thermostat**  
The RP2100 Digital gas heater comes with a microprocessor-based control center. This control allows you to set your pool or spa temperature precisely at your favorite setting just by pressing the up or down temperature control button.
- **Self-Diagnostic**  
On-board diagnostic controls let the user and the service professional know what is going on with the heater at all times. In the event that you would ever have a problem with the heater, the digital display will indicate the source.
- **Remote Compatible**  
Compatible with most major pool control and remote systems on the market today. Any two-wire or three-wire remote can connect to the RP2100 Digital and be integrated into the pool control system of your choice.
- **Electronic Ignition**  
RP2100 Digital heaters come standard with intermittent spark ignition pilot safety controls. What this means is that the pilot only comes on when there is a call for heat. This provides an energy-efficient way to control your heater's gas usage by eliminating the need for a continuous pilot. Raypak has been using the same reliable spark-to-pilot ignition design for over 20 years.

## Digital Low NOx product features

- **Low Emissions**  
The RP2100 Digital Low NOx gas heater complies with the most stringent state and county emissions laws. NOx emissions are less than 40 nanograms per joule.
- **Fan Assisted Combustion**  
The RP2100 Low NOx is design uses a fan to deliver cool, controlled combustion air to the sealed burners. Other brands use a fan to pull hot flue gases through the heater. The Raypak design allows the RP2100 to outperform others during cold starts and provides longer component life.

## Millivolt product features

- **Mechanical Thermostat**  
The RP2100 Millivolt gas heater comes with one mechanical thermostat. This control allows you to set your pool or spa temperature precisely at your favorite setting.
- **Millivolt Controls**  
No power source is required for the RP2100 Millivolt heater. All operating electricity is supplied by the pilot thermocouple.

## Quality assurance

- **ISO 9001**  
Raypak is proud to be an ISO 9001 registered manufacturing plant, another reason why Raypak is number one in the heater industry today.
- **End-of-Line Test**  
Every Raypak gas pool heater is plumbed and test-fired before it is put in the carton. This ensures that your heater will work right out of the box and continue to give you years of trouble-free operation.
- **Quality Check Points**  
The Raypak assembly process includes six final assembly quality check points that help to ensure every Raypak RP2100 is built correctly, and built to last.
- **CSA-Certified**  
All of Raypak's products are CSA-certified. The RP2100 is tested by CSA to the ANSI Z21.56 standard.



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## RP2100 Pool and Spa Heaters

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