Designation for a Digital heater using natural gas is “EN”.
Prefix “P” is for plastic (polymer) headers; “C” is for cast iron (ASME) headers.
Suffix “X” is for cupro-nickel tubing (only available on ASME units); “C” is for copper tubing
Example: P-R407A-EN-C = Plastic headers, 407 model size, digital, natural gas, copper
For elevations above 5000 feet consult the factory.
Plastic (polymer) headers cannot be used for installations requiring ASME certification.

### Technical Data

**Digital Low NOx Gas Heaters**

**Amp Draw**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 volt</th>
<th>240 volt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amp</td>
<td>6</td>
<td>3</td>
</tr>
</tbody>
</table>

**Swimming Pool and Spa Heating Products**
Swimming Pool and Spa Heating Products

Low Emissions
The Raypak gas heater is a low NOx gas heater that has a NOx emissions of less than 40 nanograms per joule. It complies with the most stringent state and county emissions laws.

Fuel-Efficient
Energy-smart Raypak heaters achieve the highest efficiency ratings. They meet all federal and state standards.

PolyTuf Textured Powder-Coating
The Raypak gas heater has a polyester-coated, non-corrrosive coating that is more durable than solventborne- and waterborne-coated metal cabinets. Every piece of sheet metal 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.

Stainless Steel Heater Base
The interior base pan is manufactured from 400 series stainless steel to help prevent rust and corrosion. Raypak is the only heater manufacturer to offer this as standard equipment.

Wind-Resistant Design
This heater is designed to draft naturally in outdoor installations with its exclusive low-profile design. It is so thoughtfully and carefully designed that it actually protects itself from the things that tend to stifle ordinary pool and spa heaters. It delivers uninterrupted heating performance regardless of falling leaves, wind, airborne debris, rain, downdrafts, updrafts, sleet, snow, etc.

Polymer Headers
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. Cupro-nickel is also available as an optional upgrade on ASME models.

Stainless Steel Tube Sheet
Stainless steel tube sheets are used on all Raypak heaters with the polymer headers. This allows for a completely nonferrous waterway, leaving your pool truly rust-free.

High Flow Rates
The Raypak gas heater comes with an automatic bypass built into the header. You’ll find that the heater is capable of handling water flow at a rate up to 125 gpm.

Burner Tray
Every burner tray is built to last, from the stainless steel burners to the aluminized metal used in the heat sensitive areas. Innovative design allows for the easy removal of the tray and burners for servicing.

Fire Tile
By using this space-age ceramic fiber material the heater won’t retain residual heat after it is turned off, this allows it to be installed without the use of costly metal heat sinks.

Fan-Assisted Combustion
A fan delivers cool, controlled combustion air to the sealed burners.

Digital Control
Microprocessor-Controlled Thermostat
The Raypak Digital heater features 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 buttons.

Self-Diagnostic
On-board diagnostic controls let the user and the service professional know what is going on with the heater at all times. All information is presented in real English, no cryptic codes to decipher. In the event that you would ever have a problem with the heater, the digital display will indicate the source.

Flame Strength Indicator
A flow industry first! The pilot flame signal is monitored with an easy to read visual bar display. 4 bars or less indicate a weak signal, letting the service tech know that the pilot should be checked. 5 bars or more indicate good flame rectification. Every heater is test fired before packaging, and the flame strength is verified to be strong before leaving the factory.

Voltage Monitor
Transformer output power can be monitored by the circuit board. This helps service techs diagnose issues quicker and more efficiently.

Cycle Counter and Run Time Monitor
The control captures every cycle of the main gas valve as well as how long it stays open. This offers valuable and useful feedback to the service tech. By monitoring the run times on multiple unit installations, the load can be evenly distributed among the units, preventing excessive wear and tear on one unit.

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 heater and be integrated into the pool control system of your choice.

Electronic Ignition
Raypak 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.

Quality Assurance
ISO 9001
We are proud to be an ISO 9001 registered manufacturing plant. It’s one more 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 that every Raypak gas heater is built correctly, and built to last.

CSA-Certified
All of Raypak’s gas pool heaters are CSA-certified and are tested by CSA to the ANSI Z21.56/CSA 4.7 standard.