Phoenix
316L Stainless Steel
Gas Fired Water Heater

Advanced Heating & Hot Water Systems

up to 96% Efficient Commercial Water Heater
## SPECIFICATION GUIDE

### Models and Input Ratings

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Modulation</th>
<th>First Hr. Rating</th>
<th>100°F Rise</th>
<th>T. Efficiency / UEF</th>
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</thead>
<tbody>
<tr>
<td>PH100-55</td>
<td>35,000-100,000</td>
<td>169 GAL.</td>
<td>115</td>
<td>95% / .89</td>
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<tr>
<td>PH130-55</td>
<td>35,000-130,000</td>
<td>205 GAL.</td>
<td>148</td>
<td>94%</td>
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<tr>
<td>PH160-55</td>
<td>40,000–160,000</td>
<td>245 GAL.</td>
<td>184</td>
<td>95%</td>
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<td>PH199-55</td>
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<td>229</td>
<td>95%</td>
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<tr>
<td>PH100-80</td>
<td>35,000-100,000</td>
<td>189 GAL.</td>
<td>116</td>
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<tr>
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<tr>
<td>PH100-119</td>
<td>35,000-100,000</td>
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<td>257 GAL.</td>
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<td>PH160-119</td>
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<tr>
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<tr>
<td>PH199-80S</td>
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<td>227 GPH</td>
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<td>PH199-119S</td>
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<td>295 GPH</td>
<td>95%</td>
<td></td>
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</tbody>
</table>

### Features
- **High limit safety sensor**
- **Low water cutoff sensor**
- **Upper (hot water) temperature sensor**
- **Insulated w/ water blown foam**
  - 2” thick in the side wall w/ a rating of R14.2
  - 3” thick in the top
  - w/ a rating of R21.3
- **High grade polymer jacket encloses insulation**
  - resists dents and corrosion
- **Direct spark ignition**
- **Lower (cold water) temperature sensor**
- **Air intake to PVC/CPVC venting**
- **Exhaust adaptor to PVC/CPVC/ PolyPro venting**
- **Venting Options:**
  - Direct vent side wall
  - Direct vent vertical
  - Unbalanced venting
  - Room air
  - Combined vent/air intake length up to 200ft
- **Hot water outlet**
  - stainless steel
- **Factory installed ASME rated temperature and pressure relief valve**
- **Tank constructed of 316L stainless steel**
- **Proprietary heat exchanger**
  - body constructed of 90/10 cupronickel
  - top section constructed of 800H stainless steel
- **Stainless steel burner**
  - 120 volt motor w/ wave modulation control
- **Digital LED display system monitoring and temperature adjustment**
- **Components located on front of heater for easy service access, all related hardware is made of stainless steel studs and brass nuts**
- **Condensate trap assembly**
- **Cold water inlet**
  - stainless steel
- **Proprietary heat exchanger**
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- **Cold water inlet**
  - stainless steel
Why Choose A Stainless Steel Tank?

HTP has produced more stainless steel tanks in North America since 1976, than any other company in the industry.

Our Components are Made of Durable Materials:
- Dip Tubes
- Port Outlets
- Heat Exchanger
- Tank Construction

Made with High Grade 316L and 800H Stainless Steel Materials.

The Advantages
Stainless Steel vs. Glass-Lined

HTP’s
119 GAL. Tank
405 LBS. (Ship. Weight)
Eliminates Scale Build-up on HX
Prolongs Tank Life
No Need for Anode Rods
Light Weight Construction

Top Competitor’s
119 GAL. Tank
555 LBS.

Phoenix Water Heaters
- UL/ULC listed
- exceed ASHRAE 90.1b-1992 efficiency requirements
- ANSI Z 21.10.3 certified
- comply w/ NOx emissions set forth in SCAQMD Rule 1146.2-1998
- factory assembled, test-fired, and adjusted for proper combustion parameters
- operate at altitudes up to 4,500 feet above sea level without additional parts or adjustments

Note: Due to variations by state in CSD-1 requirements, please consult with the factory for all controls required in your jurisdiction

NO Anode Rods Needed! with HTP’s 316 L Stainless Steel Tanks

...Because They Are Built To Last!
### PHOENIX WATER HEATER AND SANITIZER BOOSTER DIMENSIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>GAL.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
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<tbody>
<tr>
<td>PH100-55 / PH130-55</td>
<td>55</td>
<td>23&quot;</td>
<td>52&quot;</td>
<td>45&quot;</td>
<td>5&quot;</td>
<td></td>
<td>14-3/4&quot;</td>
<td>16-1/4&quot;</td>
<td>5-1/4&quot;</td>
<td>1&quot;</td>
<td>45&quot;</td>
<td>34-1/4&quot;</td>
<td>45&quot;</td>
</tr>
<tr>
<td>PH160-55 / PH199-55</td>
<td>80</td>
<td>23&quot;</td>
<td>72&quot;</td>
<td>64&quot;</td>
<td>5&quot;</td>
<td>17&quot;</td>
<td>18-1/2&quot;</td>
<td>7-3/4&quot;</td>
<td>1&quot;</td>
<td>3-1/4&quot;</td>
<td>64&quot;</td>
<td>34-1/4&quot;</td>
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### PHOENIX SOLAR WATER HEATER DIMENSIONS

<table>
<thead>
<tr>
<th>SRCC SYSTEM AVAILABLE</th>
<th>MODEL</th>
<th>GAL.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tr>
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<td>80</td>
<td>23&quot;</td>
<td>72&quot;</td>
<td>65&quot;</td>
<td>5-3/4&quot;</td>
<td>36&quot;</td>
<td>37-1/2&quot;</td>
<td>27&quot;</td>
<td>22-1/2&quot;</td>
<td>64-3/8&quot;</td>
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<td>27&quot;</td>
<td>74&quot;</td>
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### PHOENIX WATER HEATER AND SANITIZER BOOSTER SPECIFICATIONS

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<tr>
<th>MODEL</th>
<th>BTU'S</th>
<th>AIR INTAKE/ EXHAUST VENT</th>
<th>INLET/ OUTLET</th>
<th>AUXILIARY CONN.</th>
<th>GAS LINE CONN.</th>
<th>SYSTEM RELIEF PIPE</th>
<th>SHIPPING WEIGHT</th>
<th>MAX. TEMP LIMIT</th>
<th>T. EFFICIENCY / UEF</th>
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<tr>
<td>PH100-55</td>
<td>100,000</td>
<td>2&quot;</td>
<td>1&quot; NPT</td>
<td>1&quot; FNPT</td>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td>175 LBS</td>
<td>160 F</td>
<td>95% / 89</td>
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<tr>
<td>PH130-55</td>
<td>130,000</td>
<td>2&quot;</td>
<td>1&quot; NPT</td>
<td>1&quot; FNPT</td>
<td>3/4&quot;</td>
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<td>3&quot;</td>
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<td>1-1/2&quot; NPT</td>
<td>1&quot; FNPT</td>
<td>3/4&quot;</td>
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<td>3/4&quot;</td>
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<td>405 LBS</td>
<td>160 F</td>
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<td>1&quot; FNPT</td>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td>415 LBS</td>
<td>160 F</td>
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</table>

Note: All units are compatible with natural gas or liquid propane, but must be specified upon placing an order.

Combining the Phoenix with an Air Handler

A Unique and Highly Efficient Way to Provide Heat and Hot Water

**STANDARD FEATURES**
- Up to 96% Thermal Efficiency
- 5:1 Turndown Ratio
- Vents in PVC, CPVC, Stainless Steel, ULC 5676
- Limited Warranty
- 7 Year Residential
- 3 Year (5 Year Option Available) Commercial

**WHAT'S IN THE BOX**
- Intake PVC Tee w/ Screens
- Exhaust PVC Coupling w/ Screens
- Installation Manual
- Solar Addendum (Solar Models Only)
- LP Conversion Kit (Natural Gas Models Only)

**OPTIONAL EQUIPMENT**
- Outdoor Sensor
- 2”, 3” PVC Concentric Vent Kit
- 3”, 4” Stainless Steel Outside
- Termination Vent Kit
- Condensate Neutralizer
- PC Connection Cable w/ Software
- Sanitizer Booster Kit

In accordance with our company policy of improving product improvement, HTP Inc. reserves the right to make changes without prior notice.