



Phoenix Plus Gas-Fired Water Heater

JOB NAME:

LOCATION:

ARCH./ENGR.:

WHOLESALE:

MECH. CONTRACTOR:

MODEL NUMBER:

TYPE OF GAS:

BTU/HR INPUT LOW – HIGH FIRE:

NOTES:

Two High Efficiency Heat Exchangers

- Copper Nickel primary with 800 H and Copper Nickel secondary tube construction
- Gasketless heat exchanger design

Two Combustion Systems

- Two Combustions Systems offer system redundancy
- Modulating burners offer up to 5 to 1 turndown (Up to 10 to 1 turndown overall in PHP199-119D, 260, 320, and 399 models)
- 95% thermal efficiency (All Models)
- High-Grade Inconel premix burner
- Spark ignition
- Ships ready to fire on Natural Gas
- Can be converted to fire on LP Gas with included conversion kit
- Dual flame monitoring (Spark and Flame probe)
- Flame stabilization monitoring – Automatic adjustment of firing rate to stabilize flame signal

Integrated Control System

- Digital operating control with LCD display
- Three characters for temperature and system monitoring - LCD indicators for appliance faults (red light) and operation (green light)
- System parameters password protected
- 120 volt 5 amp electrical connection for condensate pump
- Optional PC Connection Cable and Software allows user to monitor system parameters – fault history – graphical monitor of system operation

Stainless Steel Tank

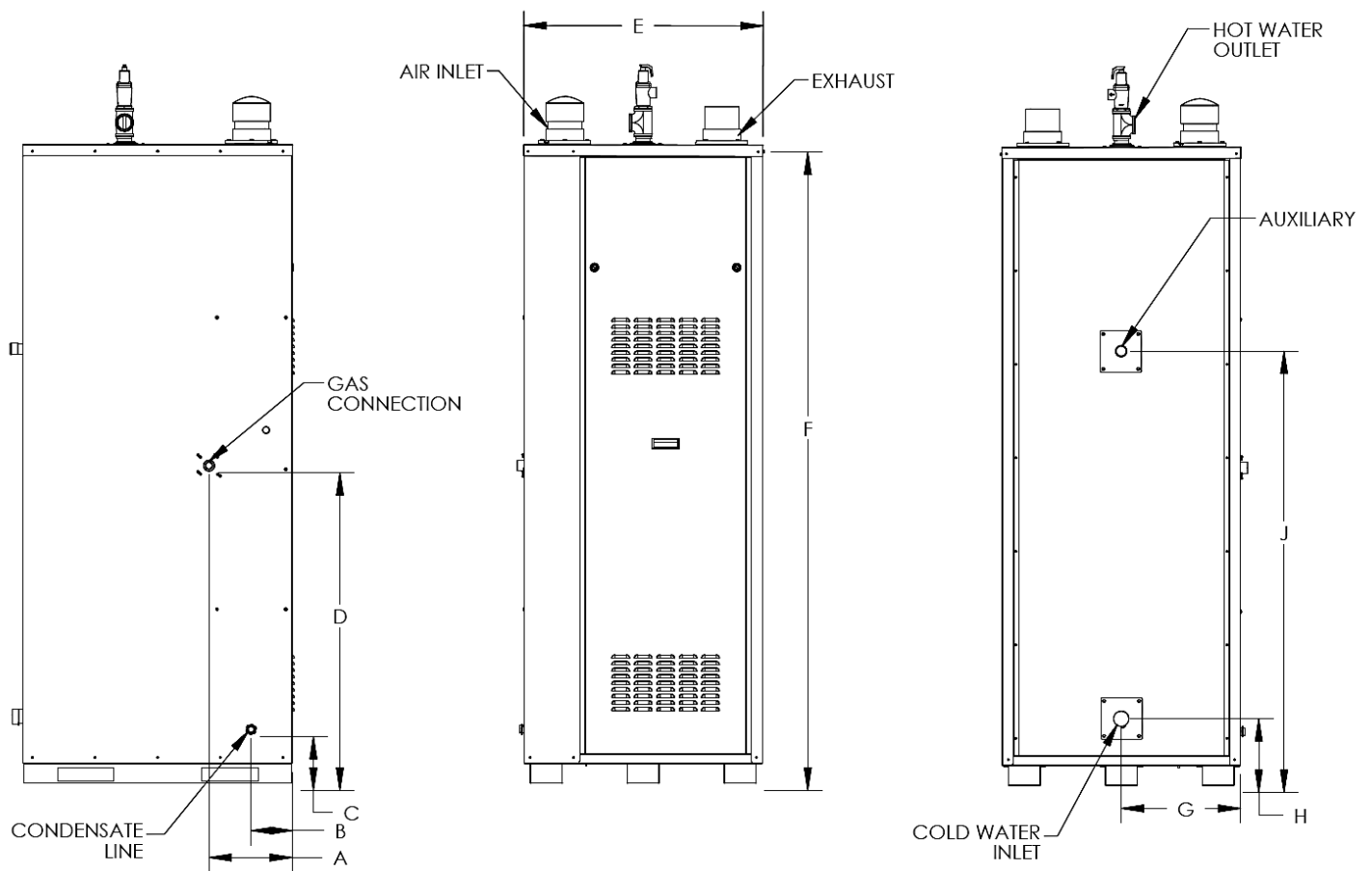
- Tank constructed of 316 L stainless steel
- Built in recirculation line increases overall system efficiency by only heating the top section of the unit
- Pressure relief pre-piped
- Drain port located on bottom
- Built-in low water cut-off probe

Additional Features

- Vents in PVC - CPVC - stainless steel – ULC S636 flexible polypropylene vent liner (chimney lining only)
- Total combined equivalent vent length of 200 feet
- Built-in condensation collection system
- Manual reset high limit
- Designed for Indoor and Outdoor Installation (Outdoor Installation restricted to certain climate zones. See Installation Manual for details.)
- Low NOx emissions – SCAQMD Certified
- Lead Free Compliant, as required by the Safe Drinking Water Act, Section 1417

Optional Equipment

- ☐ 3" PVC Concentric Vent Kit (Part # KGAVT0601CVT)
- ☐ 3" Stainless Steel Outside Termination Vent Kit (Part # V1000)
- ☐ 4" Stainless Steel Outside Termination Vent Kit (Part # V3000)
- ☐ Condensate Neutralizer (Part # 7450P-212)
- ☐ PC Connection Cable w / Software (Part # 7250P-738)



| MODEL | A | B | C | D | E | F | G | H | J | SHIPPING WEIGHT LBS. |
|-------------|------------------|------------------|----|-----------|-----|---------|-----|-----------|-----------|----------------------|
| PHP199-119 | 11-3/16" | 5-1/2" | 7" | 42-1/8" | 32" | 77" | 16" | 9-3/4" | 49" | 475 |
| PHP199-119D | | | | | | 85" | | | 58-3/4" | 555 |
| PHP260-119 | | | | | | | | | | |
| PHP320-119 | | | | | | | | | | |
| PHP399-119 | | | | | | | | | | |
| PORT SIZES | | | | | | | | | | |
| MODEL | COLD WATER INLET | HOT WATER OUTLET | | AUXILIARY | | VENTING | | GAS LINE | | CONDENSATE |
| PHP199-119 | 1-1/2" MNPT | 1-1/2" FNPT | | 1" MNPT | | 3" | | 3/4" FNPT | 3/4" MNPT | |
| PHP199-119D | | | | | | | | | | |
| PHP260-119 | | | | | | | | | | |
| PHP320-119 | | | | | | | | | | |
| PHP399-119 | | | | | | | | | | |

LP-454-K
09/24/14

PERFORMANCE SPECIFICATIONS FOR PHOENIX PLUS MODELS

| MODEL | GALLON CAPACITY | BTU/HR INPUT | TEMPERATURE RISE IN DEGREES FAHRENHEIT | | | | | | | | | | | |
|---------------------------|-----------------|--------------|--|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| PHP199-119 PHP199-119D | 119 | 199,000 | GPH | 579 | 463 | 386 | 331 | 289 | 257 | 232 | 211 | 193 | 178 | 165 |
| | | | GPM | 9.6 | 7.7 | 6.4 | 5.5 | 4.8 | 4.3 | 3.9 | 3.5 | 3.2 | 3.0 | 2.8 |
| 260,000 | | GPH | 756 | 605 | 504 | 432 | 378 | 336 | 303 | 275 | 252 | 233 | 216 | |
| | | GPM | 12.6 | 10.1 | 8.4 | 7.2 | 6.3 | 5.6 | 5.0 | 4.6 | 4.2 | 3.9 | 3.6 | |
| 320,000 | | GPH | 931 | 745 | 621 | 532 | 465 | 414 | 372 | 339 | 310 | 286 | 266 | |
| | | GPM | 15.5 | 12.4 | 10.3 | 8.9 | 7.8 | 6.9 | 6.2 | 5.6 | 5.2 | 4.8 | 4.4 | |
| 399,000 | | GPH | 1161 | 929 | 774 | 663 | 580 | 516 | 464 | 422 | 387 | 357 | 332 | |
| | | GPM | 19.3 | 15.5 | 12.9 | 11.1 | 9.7 | 8.6 | 7.7 | 7.0 | 6.4 | 6.0 | 5.5 | |

Phoenix Plus Performance – 95% Thermal Efficiency Used for Calculations