



Advanced Heating  
& Hot Water Systems

# Phoenix Plus

High Efficiency Stainless Steel  
Indoor/Outdoor  
Gas Fired Water Heater

Up to **10:1**  
Turndown Ratio

4 Btuh Sizes  
**199K\* • 260K**  
**320K • 399K**

Built-in Redundancy  
(Dual Combustion System)

Small Footprint  
Indoor/Outdoor Installation

## 316L Stainless Steel Tank

An Intelligent Design that Delivers Highly Efficient  
Water Heating with up to 95% Thermal Efficiency



\*PHP199-119: features one control panel and one combustion system; cannot be staged; 199K Model: 5:1 turndown ratio

# Phoenix Plus

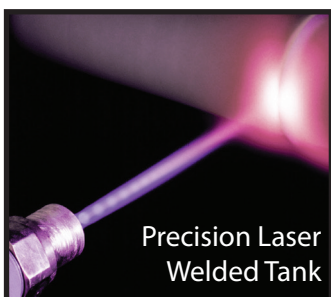
## A CLOSER LOOK

## Indoor/Outdoor Commercial Gas Water Heater

Temperature and  
Pressure Relief Valve  
(Top of Unit)

Heavy Duty Indoor-  
Outdoor Enclosure

Tank Constructed of  
316L Stainless Steel  
Precision Laser Welded



Precision Laser  
Welded Tank

Lower Temperature Sensors  
accurately measures temperature  
to control burner input

Built-in Condensate Trap

Dual function : Supply Temp  
Sensor and High Limit Safety

Dual Low Water Cut-Off Sensors  
assure the tank will not operate  
unless it is filled with water

High Limit Safety

Upper Temperature Sensors  
accurately measures temperature  
to control burner input

Combustion Heat Exchanger  
Stainless Steel/Cupronickel

Combustion System

Combustion Heat Exchanger  
Stainless Steel/Cupronickel

Exhaust Adaptor to  
PVC/ CPVC Venting

Combustion System



## Super Durable

- **316L stainless steel tank,** (lightweight) longer service life
- Heavy duty outdoor enclosure protects the internal components including the built-in condensate trap
- 2 hybrid cupronickel / stainless steel heat exchangers\*
- **No anode rods needed**
- 119 gallon storage: reduced cycling, adds to component life
- No additional storage tanks needed

## Commercial

Perfect for high demand applications including apartment buildings, restaurants, hotels, schools, hospitals, laundry facilities, office buildings and other commercial jobs.



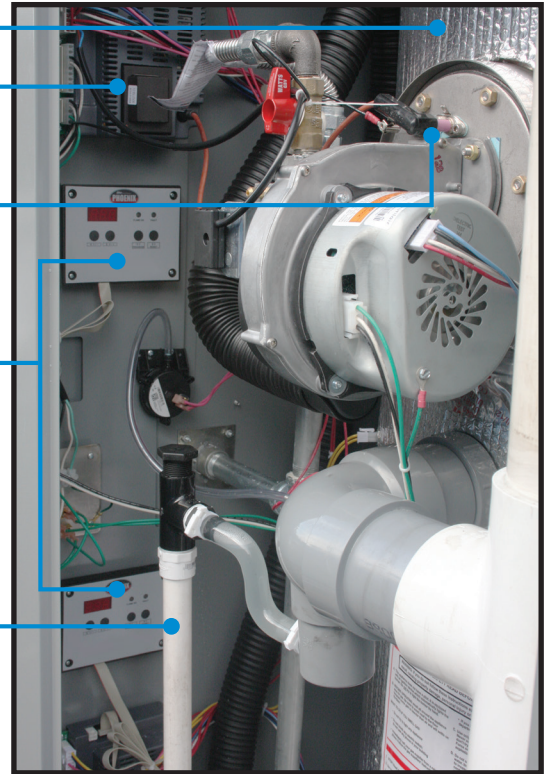
Thick Insulation

Control Panel  
(2 panels\*)

Spark Ignition

Digital Displays  
system monitoring and  
temperature adjustment  
- The displays can be  
mounted inside or on the  
outside of the cabinet

Condensate Trap

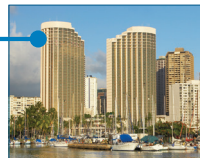


## 2 Combustion Systems

- 4 sizes: 199K\*, 260K, 320K, 399K Btu/h
- **Built-in redundancy:** dual combustion system\*
- **Indoor or outdoor installation:** multiple venting options (indoor)

## Super Efficient

- Up to **95% thermal efficiency**
- Best 1st hour output and recovery
- Load-matching modulation
- Up to **10:1 turndown ratio:**  
(The 199K model has a 5:1 turndown ratio)  
modulates down to 10% of input capacity optimizes energy and reduces cycling, increasing efficiency
- Recirculation port on the top section provides additional efficiency
- Controls can be adjusted to increase efficiency by staging each combustion system\*
- **Low NOx** combustion system meets the most stringent standards



\*PHP199-119: features one control panel and one combustion system; cannot be staged; 199K Model: 5:1 turndown ratio

# Phoenix Plus Specifications

## STANDARD FEATURES

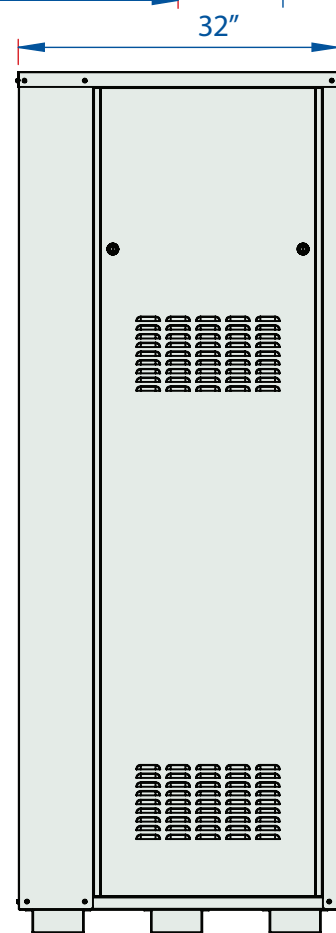
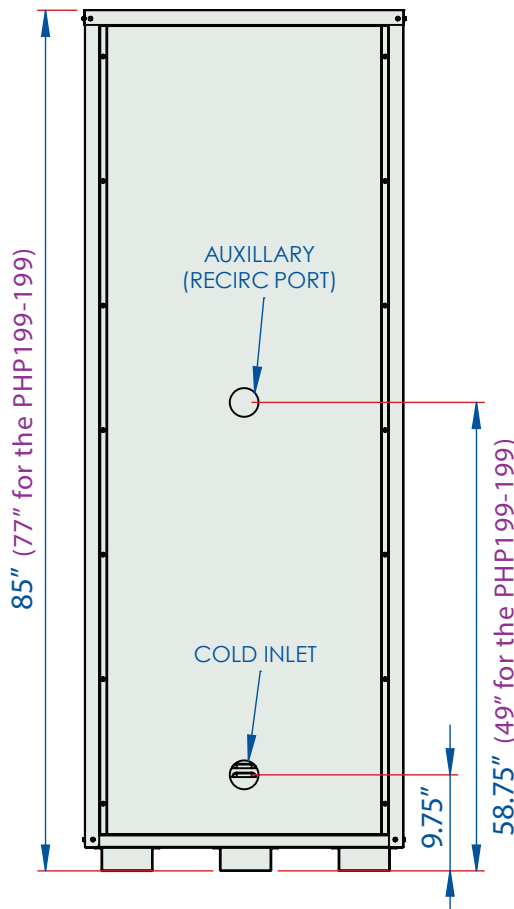
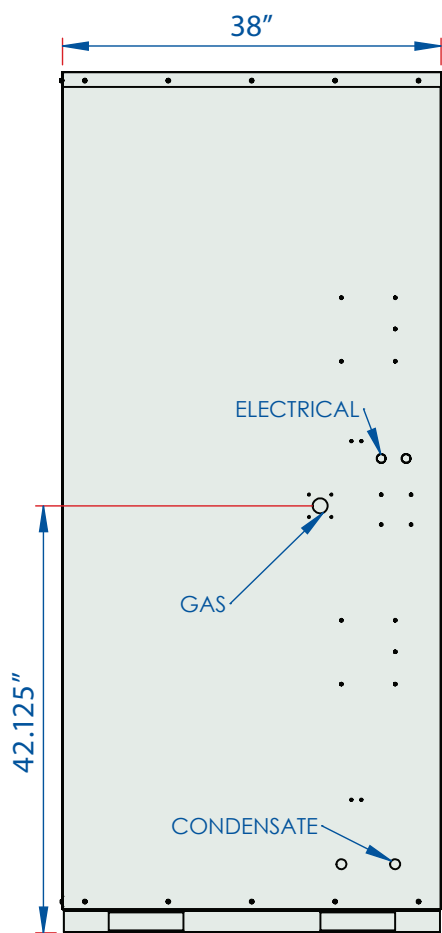
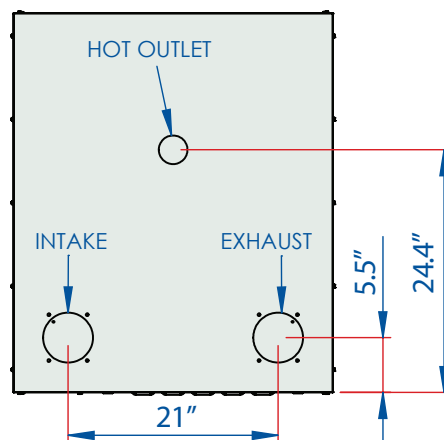
- Up to 95% Thermal Efficiency
- 2 Modulating Burners - Up to 10:1 Turndown Ratio (PHP199-199: 1 Burner; 199K model: 5:1 Turndown Ratio)
- Vents in PVC, CPVC, Stainless Steel, ULC S636
- Spark ignition
- Dual flame monitoring (Spark & Flame probe)
- Flame stabilization monitoring
- Integrated Control System
- Pressure relief pre-piped
- Built-in low water cut-off probe
- Limited 3 Year Commercial Warranty

## WHAT'S IN THE BOX

- Brass Tee and Bushing
- Temperature and Pressure Relief Valve
- Installation Manual & Warranty
- LP Conversion Kit (Natural Gas Models Only)

## OPTIONAL EQUIPMENT

- 3" PVC Concentric Vent Kit (for 199K Model)
- 3", 4" Stainless Steel Outside Termination Vent Kit
- Condensate Neutralizer
- Condensate Pump
- PC Connection Cable w/ Software



Model	Btuh Input Modulation	Air Intake	Gas Line	Gallon Capacity	Inlet / Outlet	Relief Valve	Aux	Shipping Weight	GPH at 100° F Rise	First Hour Rating	# of Combustion Systems & (Turn-down Ratio)
PHP199-119	40k – 199k	3"	¾"	119	1 ½" NPT	1" NPT	1" NPT	475 LBS	232	315	1 (5:1)
PHP260-119	35k – 260k	4"						555 LBS	303	386	2 (10:1)
PHP320-119	40k – 320k							575 LBS	372	455	2 (10:1)
PHP399-119	40k – 399k							575 LBS	464	574	2 (10:1)

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

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