



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



Phoenix Plus

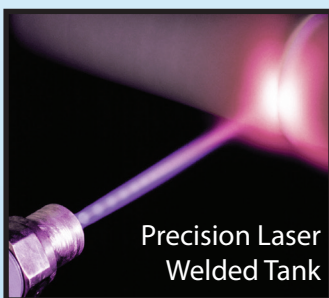
A CLOSER LOOK

Indoor/Outdoor Commercial Gas Water Heater

Heavy Duty Indoor-
Outdoor Enclosure

Temperature and
Pressure Relief Valve

Tank Constructed of
316L Stainless Steel
Precision Laser Welded



Lower Temperature Sensors
accurately measures temperature
to control burner input

Built-in Condensate Trap

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

Dual High Limit Safety

Upper Temperature Sensors
accurately measures temperature
to control burner input

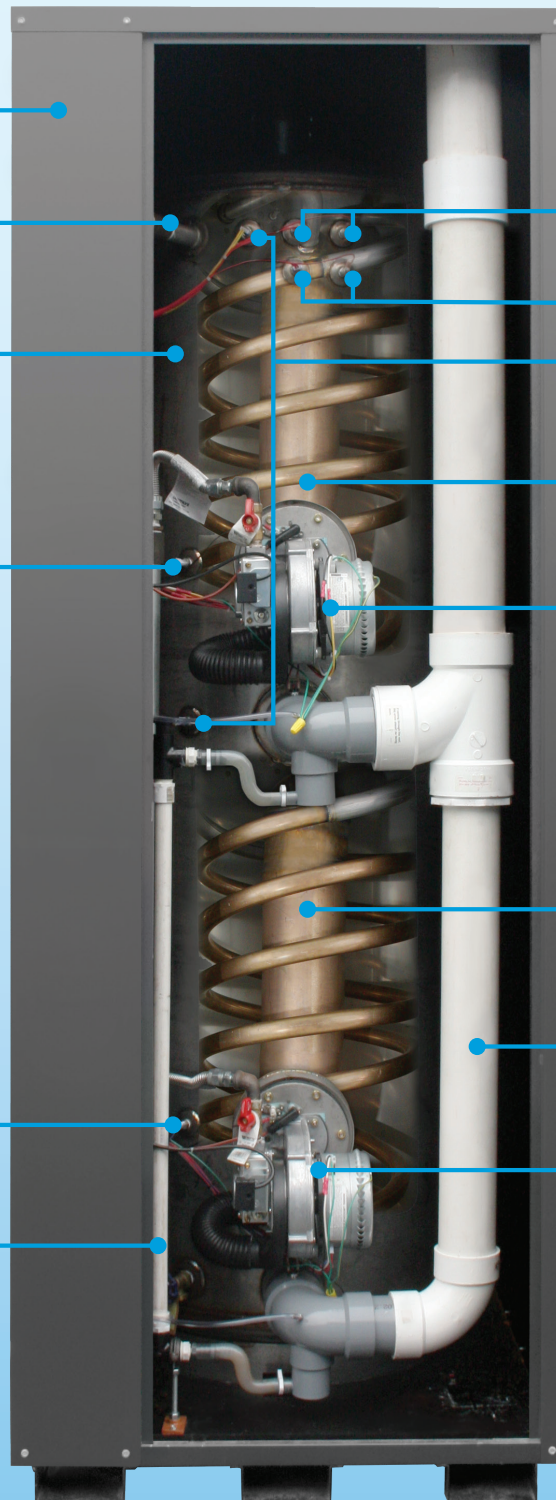
Combustion Heat Exchanger
Stainless Steel/Cupronickel

Combustion System

Combustion Heat Exchanger
Stainless Steel/Cupronickel

Exhaust Adaptor to
PVC/ CPVC Venting

Combustion System

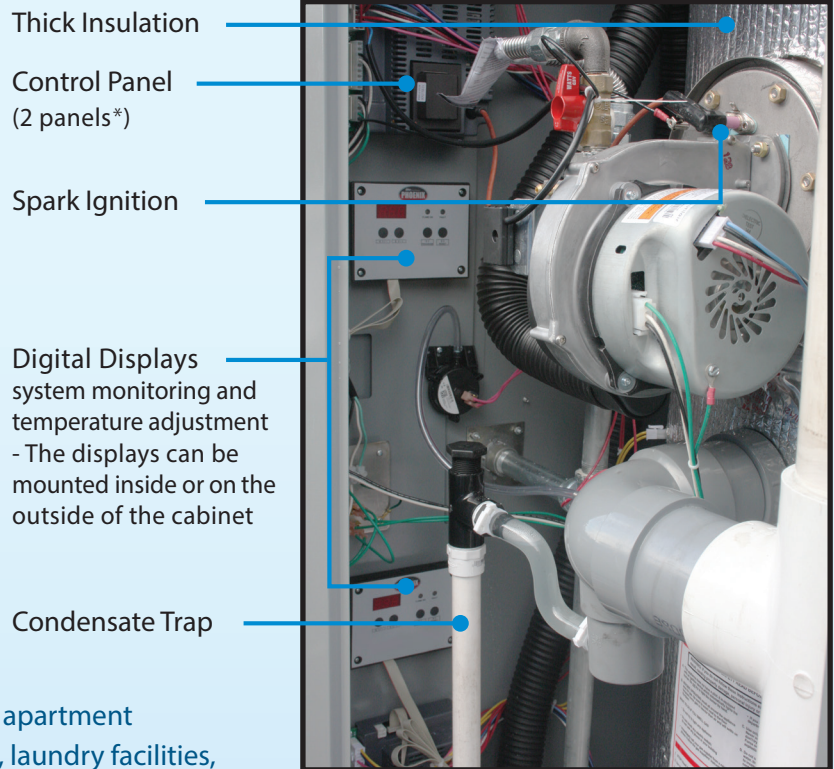


Super Durable

- **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.



2 Combustion Systems

- 5 sizes: 199K*, 260K, 320K, 399K Btuh
- **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:** (199K models have 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 Models: 5:1 turndown ratio

Phoenix Plus Specifications

STANDARD FEATURES

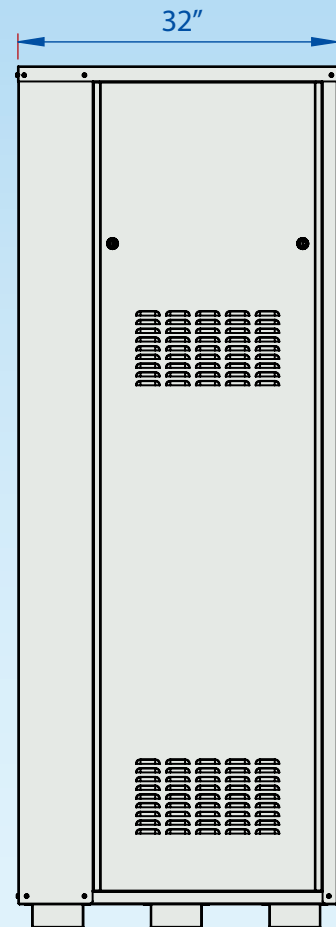
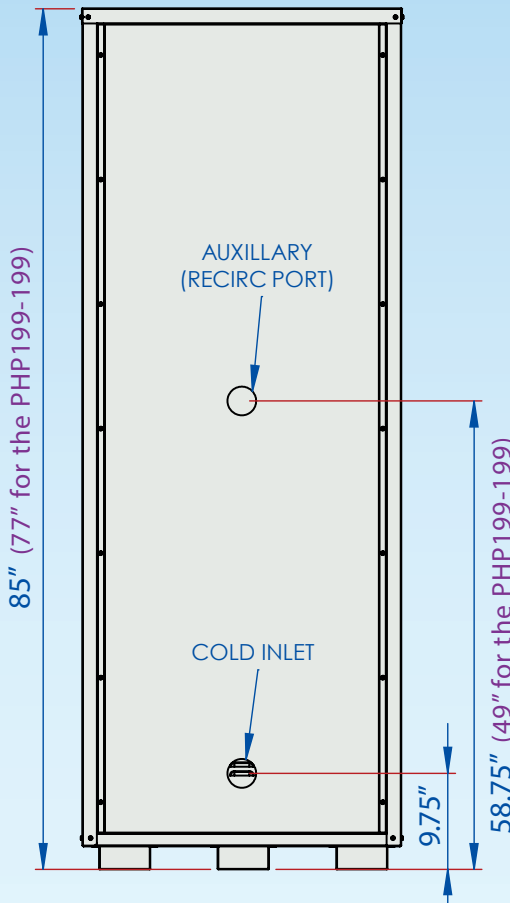
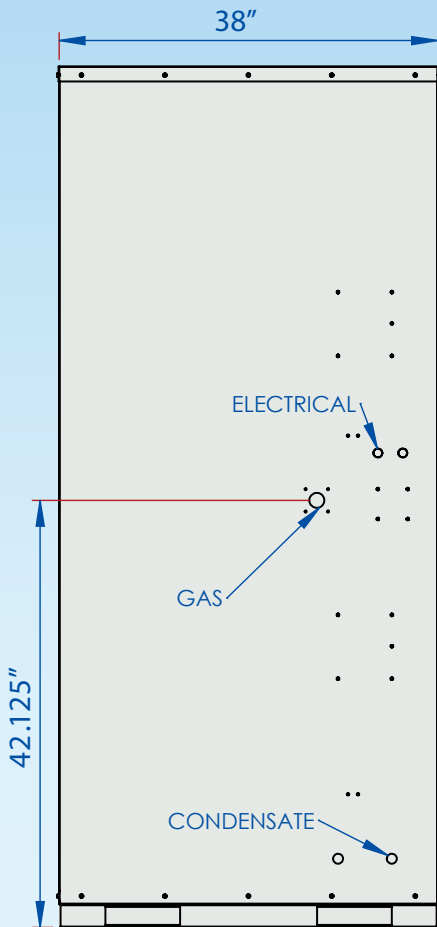
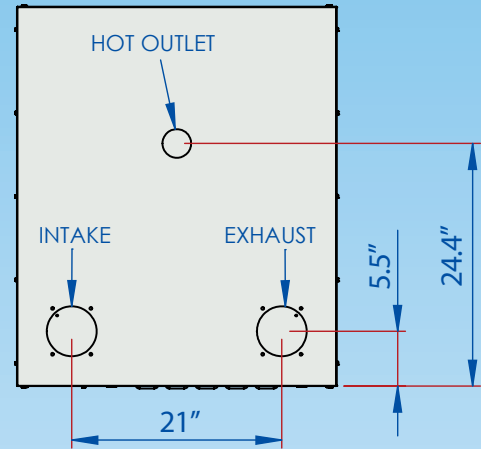
- Up to 95% Thermal Efficiency
- 2 Modulating Burners - Up to 10:1 Turndown Ratio (PHP199-199: 1 Burner; 199K models: 5:1 Turndown Ratio)
- Vents in PVC, CPVC, Stainless Steel, ULC S636
- Spark ignition
- Dual flame monitoring (Spark & Flame probe)
- Flame stabilization monitoring
- Integrated Control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

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 Models)
- 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"	3/4"	119	1 1/2" NPT	1" NPT	1" NPT	475 LBS	232	315	1 (5:1)
PHP199-119D	40k – 199k	4"						555 LBS	232	315	2 (5:1)
PHP260-119	35k – 260k							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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