

CATALOG

2019 • FEBRUARY



HTP Comfort Solutions LLC



**Advanced Heating
& Hot Water Systems**

Industry Leading Innovation



Constructed with the Most Durable
Components for a High Efficiency
Performance that Can't be Beat

htproducts.com

Hydronic Space Heating



	EnduroTi	Mod Con Double Stack	Mod Con	Elite Premier	Elite FT	UFT	Pioneer
Appliance Type	Commercial Boilers			Residential & Commercial Boilers		Residential Space Heating	
Radiant Floor	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fan Coil	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Base Board	Max 180°temp	Max 180°temp	Max 180°temp	Max 180°temp	Max 180°temp	Max 180°temp	Max 180°temp
Snow Melt	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Heating & DHW	w/ Indirect Tank	w/ Indirect Tank or VWH	w/ Indirect Tank or VWH	w/ Indirect Tank or VWH	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank
Turndown Ratio	up to 10 : 1	up to 10 : 1	up to 5 : 1	up to 10 : 1	up to 10 : 1	up to 10 : 1	up to 5 : 1
Cascading	up to 8 Units	up to 4 Units (8 exchangers)	up to 8 Units	up to 8 Units	up to 8 Units	up to 18 Units	up to 8 Units
Pool Heater	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank
ASME	Yes	Yes	Yes	Yes	Yes	Yes	
Mass Type	High Mass	Low Mass	Low Mass	Low Mass	Medium Mass	Medium Mass	High Mass
Domestic Hot Water		VWH	VWH	VWH			
Requires Primary/ Secondary Piping Configuration	No	Yes	Yes	Yes	Yes	No	No
Integrated Buffer Tank – Hydronic Stabilization	No	No	No	No	No	No	55 Gal.
PAGE Number in the Catalog	6	8	10	12	14	16	18



	Versa-Hydro	UFT Combi	Phoenix Plus	Phoenix	Phoenix LD
Application Type	Combi Units		Gas Fired Water Heaters (with Air handler)		
Radiant Floor	Yes	Yes	Yes	Yes	Yes
Fan Coil	Yes	Yes	Yes	Yes	Yes
Base Board	Max 160°temp	Max 180°temp			
Snow Melt	Yes	Yes			
Solar Versions	Yes			Yes	Yes
Pool Heater		w/ Indirect Tank			
ASME		Yes			
Co-Generation Heat Recovery	Yes		Yes	Yes	Yes
Domestic Hot Water	Yes	Yes	Yes	Yes	Yes
Requires Primary/ Secondary Piping Configuration	No	Yes	No	No	No
Integrated Buffer Tank – Hydronic Stabilization	55-119 Gal.	2 Gal.	Yes	Yes	Yes
PAGE Number in the Catalog	20	22	24	26	30

Combination Heating

Residential Water Heating



	Phoenix Light Duty	Hydra Smart RT	Crossover Wall	Crossover Floor		Everlast Whole Home	Everlast Single & Multipoint	Everlast Residential	Everlast Point of Use	Everlast Mini Tank	SuperStor Ultra	SuperStor Pro	Contender
Appliance Type	Gas Fired Storage W.H.	Gas Fired Tankless	Gas Fired Hybrid		Appliance Type	Electric Tankless		Electric Water Heaters			Hydronic Indirects		
Tank Material	316 L Stainless Steel			Stainless Steel	Tank Material			316L Stainless Steel	316L Stainless Steel	Titanium Glass-Lined	316L Stainless Steel	316L Stainless Steel	Glass Lined w/ Anode Rods
Modulation	3:1	10:1	10:1	2:1	Modulation								
Heat Exchanger	Cupronickel	Stainless Steel	Stainless Steel	Stainless Steel	Heat Exchanger/ Elements	1 Durable Titanium Element	1 Durable Copper Element	2 Durable Titanium Elements	1 Durable Titanium Element	1 Durable Copper Element	Finned Cupronickel	316L Stainless Steel	Smooth Enamel Coil
Storage Tank Option		Option	Option	Option	Storage Tank Option						Ultra CB		SuperStor GL
Combination Domestic & Space Heating	W/ Auxiliary Taps		With Air Handler	With Air Handler	Double Wall Exchanger						Option		
Uniform Energy Factor	up to .90	up to .96	up to .94	up to .89	Two Heat Exchangers						Option		
Solar Option	Yes				Solar Option						Yes	Yes	
Btuh	76,000	199,000	199,000	75,000 & 100,000	Btuh / kW	Kw 18 to 36	Kw 3.1 to 13	Kw 4.5 or 5.5	Kw 1.5 or 5	Kw 1.4 to 2			
PAGE Number in the Catalog	30	42	38	34	PAGE Number in the Catalog	44	45	52	54	56	58	60	62

Commercial Water Heating



	Phoenix Plus	Phoenix	Phoenix Multi-Fit	Mod Con DS VWH	Mod Con VWH	Elite P VWH	Crossover Commercial	Hydra Smart RTC Model	Everlast Whole Home	Everlast Single & Multipoint	Everlast MD Com 3 Element	Everlast Medium Duty Commercial	Everlast Light Duty Commercial	Everlast Point of Use	Everlast Mini Tank
Appliance Type	Gas Fired Storage Water Heater			Gas Fired Volume Water Heaters			Gas Fired Hybrid	Gas Fired Tankless	Electric Tankless		Electric Water Heaters				
Tank Material	316 L Stainless Steel	316 L Stainless Steel	316 L Stainless Steel								316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	Titanium Glass-Lined
Modulation	up to 10:1	5:1	5:1	up to 10:1	5:1	10:1	10:1	10:1							
Heat Exchanger/ Elements	Cupronickel & Stainless Steel	Cupronickel & Stainless Steel	Cupronickel & Stainless Steel	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	Stainless Steel	Stainless Steel	1 Durable Titanium Element	1 Durable Copper Element	3 Durable Titanium Elements	2 Durable Titanium Elements	2 Durable Titanium Elements	1 Durable Titanium Element	1 Durable Copper Element
Storage Tank Option				Requires Storage Tank	Requires Storage Tank	Requires Storage Tank	Requires Storage Tank								
Multiple Heat Exchangers	Option			Built-in Redundancy											
Solar Option		Yes													
Combination Domestic & Space Heating	W/ Auxiliary Taps	W/ Auxiliary Taps	W/ Auxiliary Taps												
Cascading				up to 4 Units (4 sets)	up to 8 Units	up to 8 Units	up to 18 Units	up to 18 Units							
High Temp. Sanitation		SA Models					Unit up to 180°F Tank up to 160°F	up to 180° F							
Btuh / kW	Btuh 199,000 to 399,000	Btuh 100,000 to 199,000	Btuh 130,000 to 199,000	Btuh 1,000,000 to 1,700,005	Btuh 500,000 to 850,000	Btuh 220,000 to 399,000	Btuh 199,000	Btuh 199,000	Kw 18 to 36	Kw 3.1 to 13	Kw 12.5 to 18	Kw 3 to 12	Kw 4.5 or 5.5	Kw 1.5 to 5	Kw 1.4 to 2
PAGE Number in the Catalog	24	26	28	32	32	32	36	40	44	45	46	48	50	55	56

Solar Tanks



	Versa-Hydro Solar	Phoenix Solar	Phoenix LD Solar	SSP Solar	SuperStor Solar	Solar Drain Back Tank	Large Volume Solar Tanks
Appliance Type	Solar Combi Heating & DHW	Solar Gas Fired DHW	Solar Gas Fired DHW	Solar Electric with an Indirect Back-up	Indirect Solar	Drain Back Solar	Large Volume Solar
Tank Material	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	Glass Lined Steel
ASME							Yes
Heat Exchanger	Cupronickel & Stainless Steel	Cupronickel & Stainless Steel	Cupronickel & Stainless Steel	Electric with a Stainless Steel Backup	Optional Electric or Finned Cupronickel Backup	Optional Finned Cupronickel	Electric or Boiler Backup - Multiple Large Coils
Co-Generation Heat Recovery	Yes	Yes	Yes				
Radiant Floor	Yes	Yes	Yes				
Fan Coil	Yes	Yes	Yes				
Base Board	Max 160° temp						
Snow Melt	Yes	Yes	Yes				
Domestic Hot Water	Yes	Yes	Yes	Yes	Yes		Yes
Additional Information	Up to 199,000 Btuh	Up to 199,000 Btuh	Up to 76,000 Btuh	Limited 10 Year Warranty	Limited Lifetime Warranty	Freezing & Overheating Protection	Up to 1,000 Gallons Tank Size
PAGE Number in the Catalog	70	71	71	60/71	71	70	64

Storage Tanks



	SuperStor Ultra SS Storage	SuperStor Glass Lined Storage	Large Volume Storage
Appliance Type	Storage Tank	Storage Tank	Storage Tank
Tank Material	316L Stainless Steel	Glass Lined Steel	Glass Lined Steel
ASME		Available	Yes
Domestic Hot Water	Yes	Yes	Yes
Additional Information	5 Sizes: 30 to 119 Gallons	4 Sizes: 50 to 175 Gallons	200 Gallons up to 5,695 Gallons
PAGE Number in the Catalog	58	66	64





Advanced Heating
& Hot Water Systems

The EnduroTi®

COMMERCIAL CONDENSING BOILER

Superior Construction:
Stainless Steel Titanium Blend

HIGH MASS

Stainless Steel AISI 316 Ti

Manufactured out of this extremely durable stainless steel and titanium blend

Up to 1,000,000 Btuh

Up to 93% Thermal Efficiency

Superior Heat Transfer

The reverse flame combustion chamber heats large amounts of hot water

Cascade up to 8 Boilers (with boiler rotation)

Mod/Bus interface for easy BMS system

Small Footprint (750 Model)

Will fit through a standard door opening
Caster wheels on the bottom of the boiler

CSD Compliant

Direct Flow or Primary Secondary Piping Options

10:1 Turndown Ratio

Direct Flow or Primary / Secondary Piping



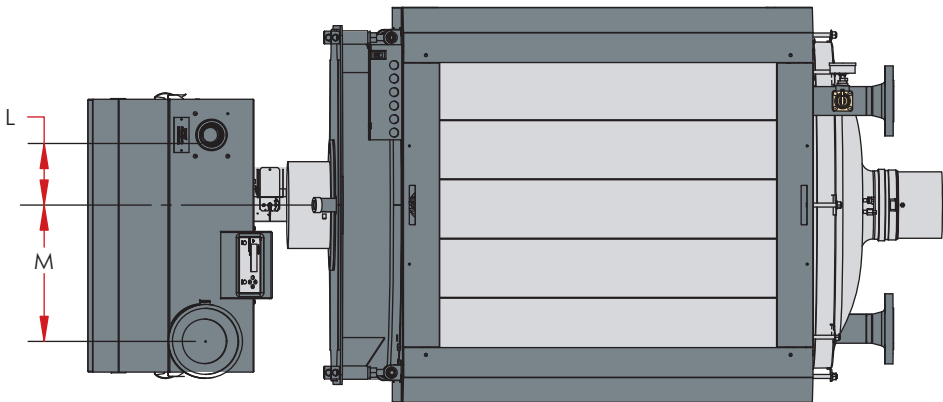
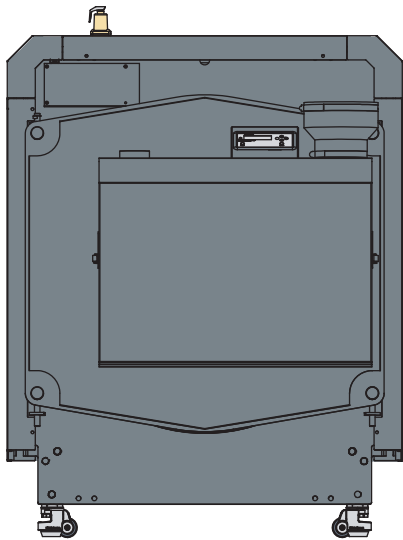
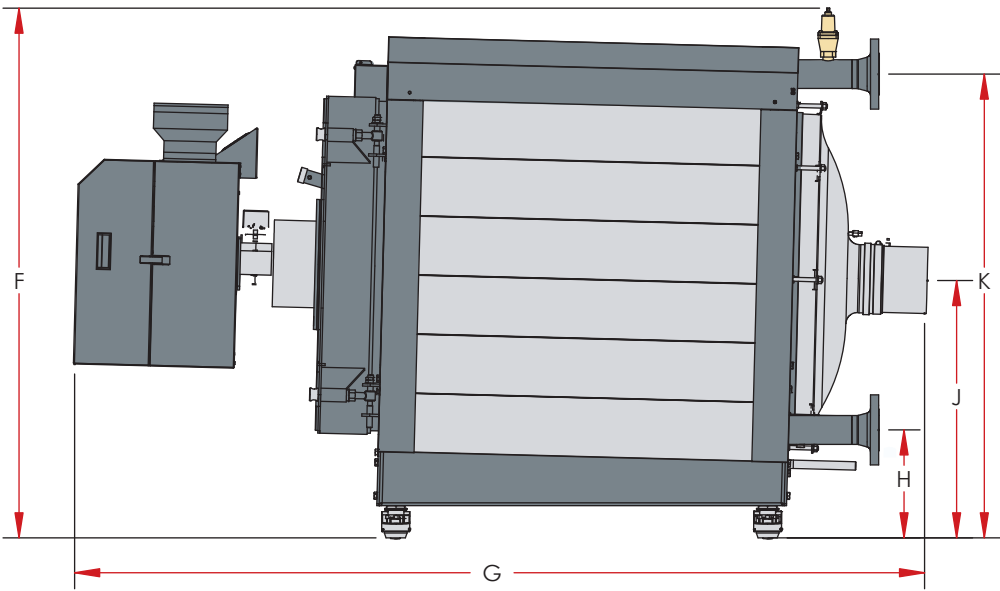
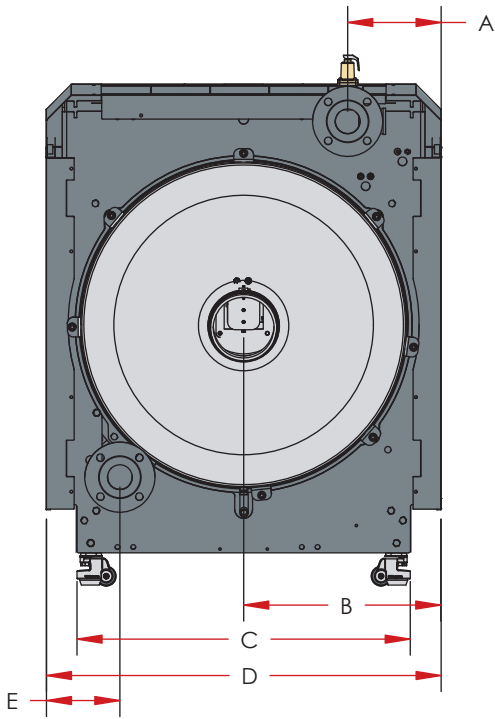
Eliminates the Need for Primary–Secondary Piping: With 10 : 1 Modulation, Large Water Content Heat Exchanger with Virtually No Pressure drop (Under 2 feet of resistance at a 100 GPM Flow)

EnduroTi Applications: [Radiant Floor](#) • [Fan Coil](#) • [Base Board](#) • [Snow Melt](#) • [DHW \(w/ Indirect Tank\)](#) • [Pool Heater \(w Indirect Tank\)](#) • [ASME](#)

Models	Btuh	Net Ratings (Water)	Turndown Ratio	Supply & Return Pipe Size	Gas Line Connection	Thermal Efficiency	Vent Diameter	Approx. Shipping Weight
ETI-750	750,000	608 Mbh	10 : 1	2"	2"	93.2%	6"	850 LBS
ETI-1000	1,000,000	804 Mbh	10 : 1	2.5"	2"	92.5%	6"	950 LBS

Models	A	B	C	D	E	F	G	H	J	K	L	M
ETI-750	8.5"	16.5"	30.75"	32.75"	8.5"	49"	83"	8.25"	25"	43"	6.25"	13.75"
ETI-1000	9.25"	19.75"	36.25"	39.5"	7.25"	53"	85"	10.75"	25.75"	46.25"	6.25"	13.75"

PLEASE NOTE: ALL DIMENSIONS ARE PRELIMINARY AND APPROXIMATE



MOD CON Double Stack

A TRUE
10:1

Turndown Ratio

Btuh Modulation Rates

100,000 - 1,000,000

170,000 - 1,700,005

Built in Redundancy
(No Downtime)

Small Footprint

Prepiped Reverse Return

ASME Stainless Steel Heat Exchanger

Gas Fired Commercial Boiler

Also Available: Volume Water Heater

An Intelligent Design that Delivers Highly Efficient
Hydronic Heating with 94.1% Thermal Efficiency



Mod Con Applications: Radiant Floor • Fan Coil • Base Board • Snow Melt • DHW (w/ Indirect Tank or VWH) • Pool Heater (w Indirect Tank) • Double Stack • ASME

htproducts.com/modcondoublestack

	A	B	C	D	E	F	G	H	J	K	L	M	N	O
ModCon Double Stack 1000	72.5"	20.5"	42"	13.75"	8.375"	46"	6"	13.63"	14.5"	33.25"	43.75"	66.75"	63.25"	43.375"
ModCon Double Stack 1700	72.5"	20.5"	42"	13.75"	8.375"	64.5"	8.25"	20"	18.75"	43.5"	62.375"	88.5"	63.25"	59"

Single Point Connection:
Piping and Venting

Low NOx Operation

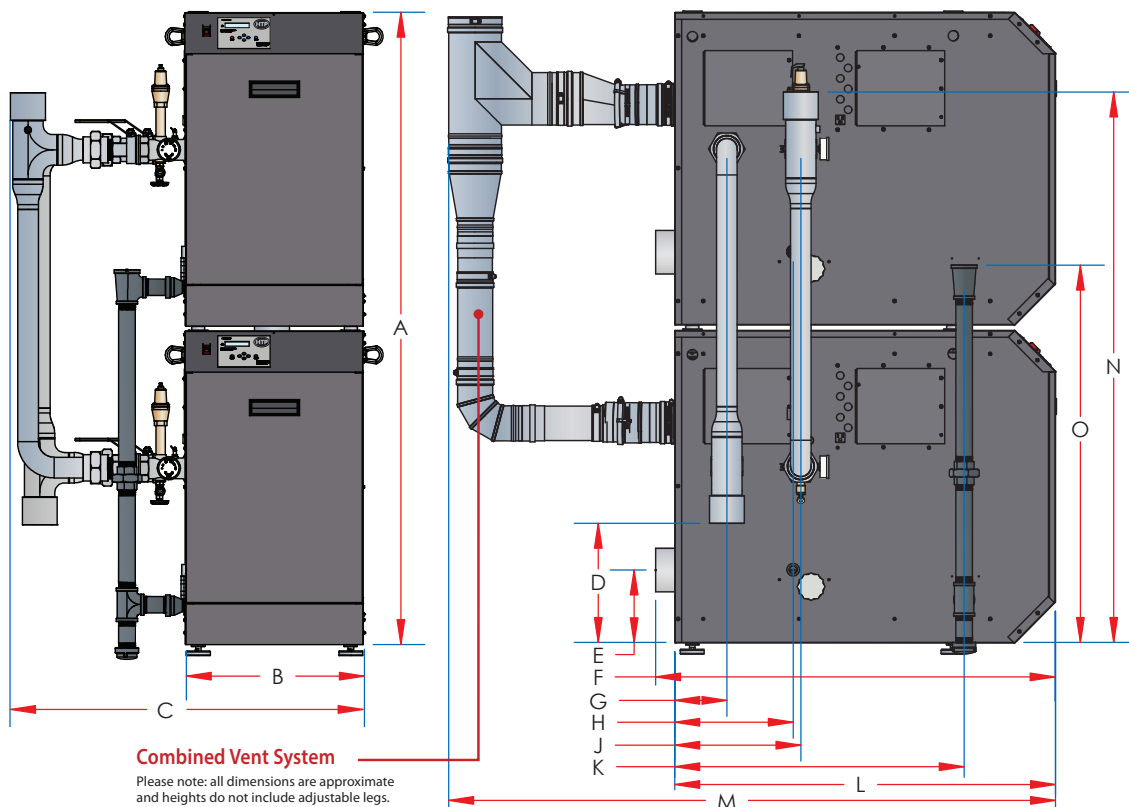
Quick Disconnect Design

Double Heat Exchanger
Design Offers Built-in
Fail Safe (No Downtime)

0-10 VDC for Building
Management System

Built-In Sequencer
For up to 4 Mod Con
Double Stacked Boilers
Cascade up to 4 Units
(8 heat exchangers)

Master / Follower
Control System



Model		1000	1700
Installation		Indoor, Floor Standing, Modulating, Fully Condensing	
Minimum / Maximum Input (Btu/Hr)		100,000 / 1,000,000	170,000 / 1,700,005
Thermal Efficiency		94.1%	94.1%
Heating Capacity (MBH)		940	1600
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent	
Minimum Combined Vent Run		16 feet	
Maximum Combined Vent Run		6" (150 feet)	8" (150 feet)
Approved Exhaust Vent Materials		Schedule 40 PVC, CPVC, PP, Stainless Steel	
Shipping Weight (lbs)		1010	1160
Gas Supply Pressure	NG	3.5" to 14" WC	
	LP		
Manifold Pressure		Min / Max	
Power Supply		120V 60 Hz, 6.3A	
General Operating Conditions		Ambient Temperature Range: 33 – 104°F (0.6 – 40°C) Product Approvals and Requirements: ANSI Z21.13 / CSA 4.9	
Ignition System		Direct Electronic Spark Ignition / Flame Rectification	
Burner System		Premixed Fuel Modulation / Stainless Steel Metal Fiber Burner	
Gas Valve System		Air Ratio Valve	
Dimensions (in Inches)	W	45.5	
	H	72.5	
	D	66.75	88.5
Boiler Water Content (Gallons)		8.4	11.6
Minimum Flow Rate @ 30°F ΔT (GPM)		66	109
DHW Setpoint Temperature Range		70 – 185°F	
Water Pressure (PSI)	Heat Exchanger MAWP	160	
	Pressure Relief Valve	75	
Control Panel / Main Controller		LCD Display with LED Indicators / 926 Digital Control	
Connection Sizes	Supply / Return	3" NPT	
	Gas Inlet	2" NPTF	2 1/2" NPTF
Materials	Cabinet	Powder Coated Galvaneal Steel	
	Heat Exchanger	316L Stainless Steel Water Tube	
Safety Devices		Flame Rectifier Probe, Water Temperature High Limit Switch (190°F), Freeze Protection, Condensate Trap with Overflow Switch, Included LWCO (Optional UL 353 LWCO), Blocked Vent Pressure Switch, Optional Gas High/Low Pressure Switch	

MOD CON

Stainless Steel - Commercial Boiler

Ultra High up to
98% Efficiency
Low Mass Boiler

Combustion System

- Up to 98% Thermal Efficiency
- Modulating Burner with up to 5 : 1 Turndown Ratio
- Whisper Quiet Operation
- Low NOx Operation
- High Grade Inconel Burner
- Reliable Spark Ignition
- Gas Valve (Tested to UL, FM, CSA Standards)

Heat Exchanger

- All Stainless Steel Construction
- No Gaskets, Welded Construction. ASME Approved
- 150 PSI Relief Rated
- Easy to Service

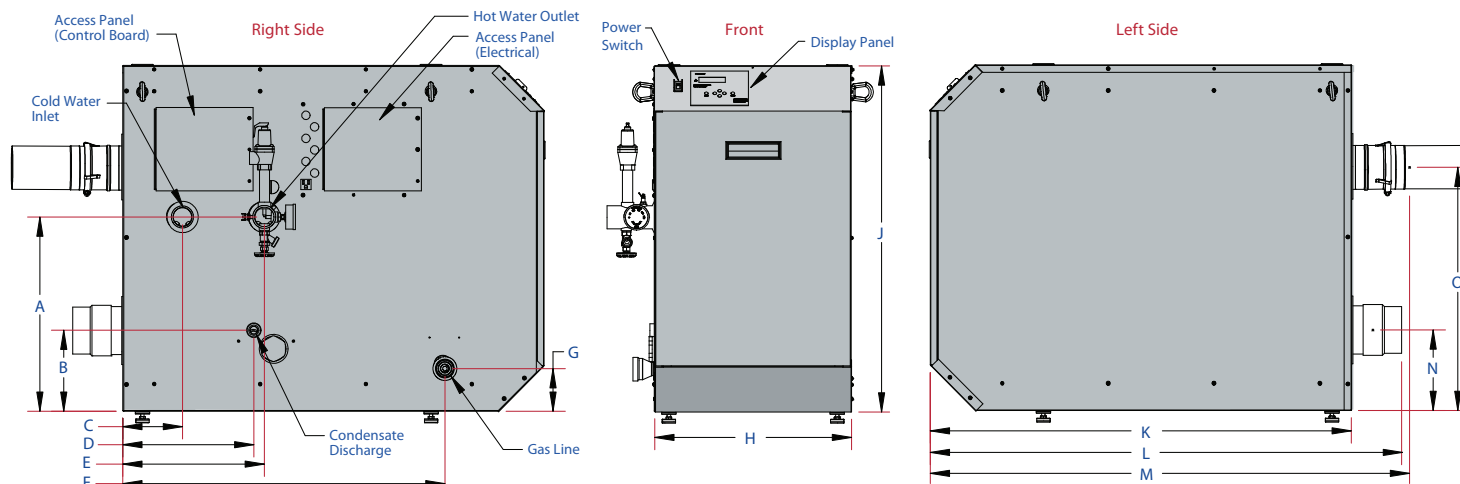
Integrated Control System

- Built-in sequencer for up to 8 boilers
- Digital display - Total System Control
- Integrated Control allows only the amount of heated energy required.
- Outdoor sensing with Indirect priority, allows for greater energy savings and comfort
- Built in Low water cut off with additional manual reset high limit switch
- Multiple Pump outputs – Boiler Pump – System Pump – Indirect Pump 24 volt monitor for system safeties
- Dual flame sensing (Flame probe / Spark Ignition Probe)



UP TO 850,000 BTUH OF HEATING POWER

Mod Con Applications: Radiant Floor • Fan Coil • Base Board • Snow Melt • DHW (w/ Indirect Tank or VWH) • Pool Heater (w Indirect Tank) • Double Stack • ASME



Model	A	B	C	D	E	F	G	H	J	K	L	M	N	O
MOD CON 500	20"	14.75"	6.25"	13.25"	14.50"	33.25"	5.25"	20.5"	36"	43.75"	46"	48"	8.25"	25.5"
MOD CON 700	20"	20"	6.25"	16.25"	18.75"	43.50"	20"	20.5"	36"	62.25"	68.5"	73"	8.25"	25.5"
MOD CON 850	20"	20"	6.25"	16.25"	18.75"	43.50"	20"	20.5"	36"	62.25"	68.5"	73"	8.25"	25.5"

Model		500	700	850
Installation		Indoor, Floor Standing, Fully Condensing		
Minimum / Maximum Input (Btu/Hr)		100,000 / 500,000	170,000 / 700,000	170,000 / 850,000
Thermal Efficiency		94%	98%	94%
Heating Capacity (MBH)		470	686	799
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent		
Minimum Combined Vent Run		16 feet		
Maximum Combined Vent Run		4" (200 feet)	6" (200 feet)	
Approved Exhaust Vent Materials		PVC, CPVC, PP, Stainless Steel		
Shipping Weight (lbs)		505	580	
Gas Supply Pressure	NG	3.5" to 14"WC		
	LP			
Manifold Pressure	Min / Max	NG/LP: -0.01"WC		
Power Supply		120V 60 Hz, 6.3A		
General Operating Conditions		Ambient Temperature Range: 33 – 104°F (0.6 – 40°C) Product Approvals and Requirements: ANSI Z21.13 / CSA 4.9		
Ignition System		Direct Electronic Spark Ignition / Flame Rectification		
Burner System		Premixed Fuel Modulation / Stainless Steel Metal Fiber Burner		
Gas Valve System		Air Ratio Valve		
Dimensions (in Inches)	W	20.5		
	H	36		
	D	46	68.5	
Boiler Water Content (Gallons)		4.2	5.8	
Minimum Flow Rate @ 30°F ΔT (GPM)		33	54	
Boiler Setpoint Temperature Range		50 – 190°F / 32 - 190°F (with Outdoor Reset Curve)		
DHW Indirect Setpoint Temperature Range		70 – 185°F		
Water Pressure (PSI)	Heat Exchanger MAWP	160		
	Pressure Relief Valve	75		
Control Panel / Main Controller		LCD Display with LED Indicators / 926 Digital Control		
Connection Sizes	Supply / Return	2" NPT		
	Gas Inlet	1 1/2" NPTF	2" NPTF	
Materials	Cabinet	Powder Coated Galvaneal Steel		
	Heat Exchanger	316L Stainless Steel Water Tube		
Safety Devices		Flame Rectifier Probe, Water Temperature High Limit Switch (190°F), Freeze Protection, Condensate Trap with Overflow Switch, Included LWCO (Optional UL 353 LWCO), Blocked Vent Pressure Switch, Optional Gas High/Low Pressure Switch		

Elite *Premier*

10:1
Turndown
Ratio



LOW MASS

Up to 96% Efficient

Vents in inexpensive,
easy-to-install PVC pipe,
up to 200 combined feet

State of the art control
interface: a 2 line 20 character
LCD control interface:
Total System Control

Impressive range:
7 models, ranging from
80,000 to 399,000 Btuh

Floor standing or wall mount

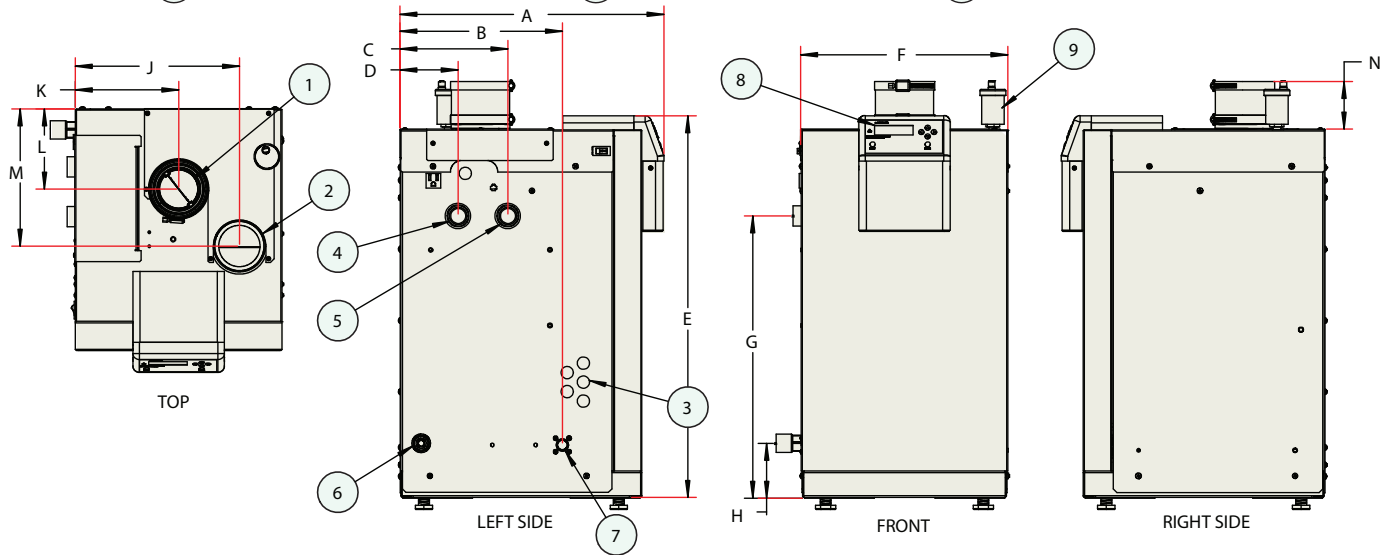
12 year limited warranty



316 L Stainless Steel Heat Exchanger

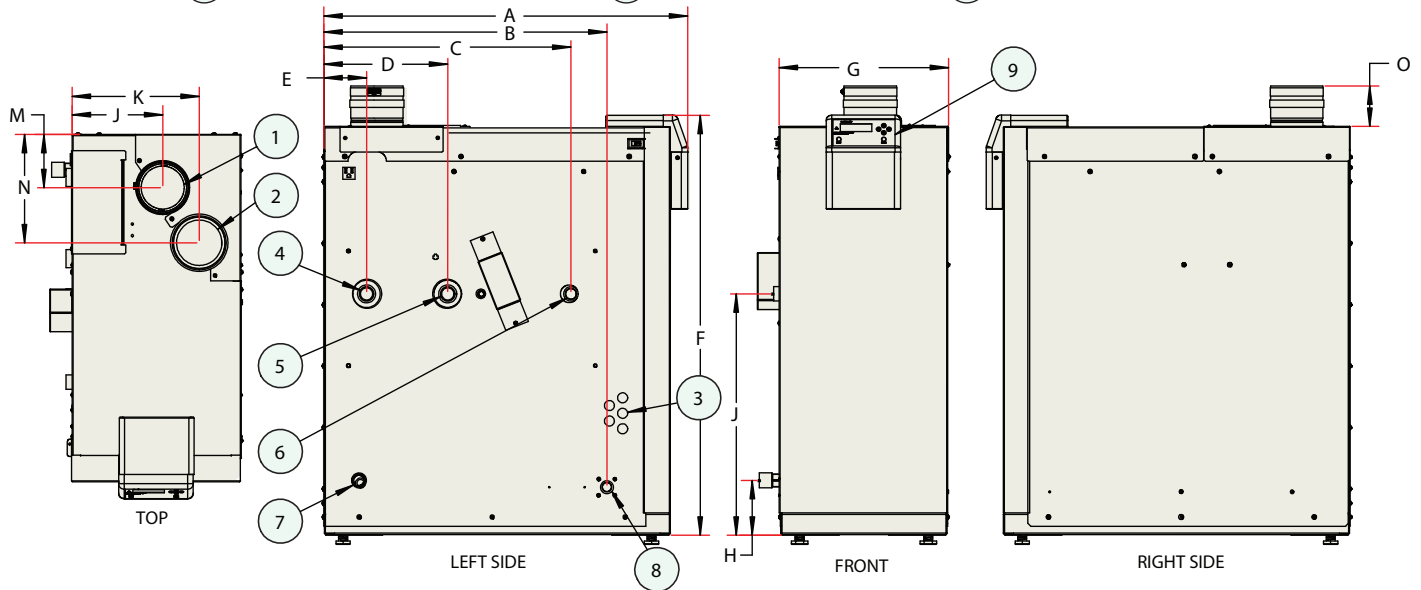
Elite Premier Applications: Radiant Floor • Fan Coil • Base Board • Snow Melt • DHW (w/ Indirect Tank or VWH) • Pool Heater (w/ Indirect Tank) • ASME

- 1 EXHAUST VENT CONNECTION
- 2 COMBUSTION AIR INLET CONNECTION
- 3 ELECTRICAL CONNECTIONS
- 4 SYSTEM RETURN
- 5 SYSTEM SUPPLY WITH INTEGRATED RELIEF VALVE
- 6 CONDENSATE CONNECTION
- 7 GAS LINE CONNECTION
- 8 DISPLAY/CONTROL PANEL
- 9 AIR RELEASE VENT



MODEL*	A	B	C	D	E	F	G	H	J	K	L	M	N	Shipping Weight
EP-80	18.5"	11.5"	7.75"	4.25"	27"	14.5"	20"	4"	11.75"	7.38"	5.75"	9.75"	4"	108 lbs
EP-110	18.5"	11.5"	7.75"	4.25"	27"	14.5"	20"	4"	11.75"	7.38"	5.75"	9.75"	4"	113 lbs
EP-150	19.5"	12.5"	10.25"	2.50"	27"	14.5"	20"	3.75"	11.75"	7.38"	4.25"	8.25"	4"	126 lbs
EP-220	26.5"	19.5"	15.50"	6.00"	24.25"	14.5"	20"	4.5"	11.75"	7.38"	4.25"	8.25"	4"	164 lbs

- 1 EXHAUST VENT CONNECTION
- 2 COMBUSTION AIR INLET CONNECTION
- 3 ELECTRICAL CONNECTIONS
- 4 SYSTEM RETURN
- 5 RELIEF VALVE
- 6 CONDENSATE CONNECTION
- 7 CONDENSATE CONNECTION
- 8 GAS LINE CONNECTION
- 9 DISPLAY/CONTROL PANEL



MODEL*	A	B	C	D	E	F	G	H	J	K	L	M	N	O	Shipping Weight
EP-299	24.75"	17.5"	14.5"	7.38"	3.25"	36.5"	14.5"	4.75"	21"	11"	7.88"	4.63"	9.50"	3.5"	211 lbs
EP-301	24.75"	17.5"	14.5"	7.38"	3.25"	36.5"	14.5"	4.75"	21"	11"	7.88"	4.63"	9.50"	3.5"	211 lbs
EP-399	31.75"	24.75"	21.5"	10.75"	3.75"	36.5"	14.5"	4.75"	21"	11"	7.88"	4.63"	9.50"	3.5"	256 lbs

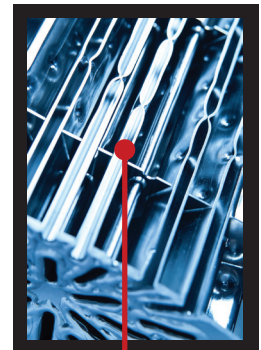
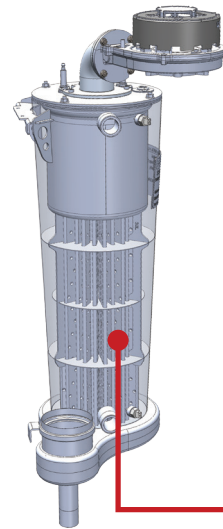
Model	Btuh /Input Range	Net Ratings (water)	DOE Heating	AFUE	Supply/Return	Exhaust /Air inlet	Gas Connection
EP-80	8,000 -80,000	-	7,700-77,000	96.4	1"	3"	3/4"
EP-110	11,000 -110,000	-	10,600-106,000	96.4			
EP-150	15,000 -150,000	-	14,300-143,000	95.4			
EP-220	22,000 -220,000	-	20,900-209,000	95.2			
EP-299	30,000 -299,000	-	27,400-283,000	94.5	1-1/4"	4"	1"
EP-301	30,000 -301,000	251 Mbh	28,300-289,000	96.1**			
EP-399	40,000 -399,000	335 Mbh	37,600-385,000	96.5**			

*"N" Denotes Natural Gas & "LP" Denotes Propane **Thermal Efficiency (Not AFUE)



Elite FT[®]

High Efficiency
Medium Mass
Boiler



up to 97% Efficient
10:1 Turndown Ratio



Most Efficient
2018
www.energystar.gov

- Energy Star rated: up to 95.1% AFUE operating efficiency
- Low NOx emission
- Stainless steel fire tube heat exchanger
- Outdoor reset lowers operating set point automatically
- Unbeatable combined vent length of up to 150 ft. in 3" PVC pipe (EFT-285)
- Room air intake
- Down fire design, promotes self-cleaning of combustion system
- Increased thermal mass provides low pressure drop and eliminates short cycling
- Built-in condensate collection system
- Compatible with glycol based systems
- Cascade up to 8 boilers

Elite FT Applications: Radiant Floor • Fan Coil • Base Board • Snow Melt • DHW (w/ Indirect Tank) • Pool Heater (w/ Indirect Tank) • Retro Fit • ASME

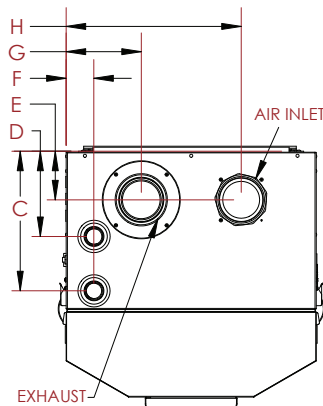
Model	AFUE /TE	Heating Capacity MBH	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q
EFT-285**	95.1	262	32 5/8"	20 5/8"	11 1/8"	6 7/8"	3 7/8"	2 1/4"	6"	14"	15 1/4"	11 1/8"	7 3/4"	6 7/8"	2 1/4"	13 3/8"	16 5/8"	20"
EFT-399**	97.1*	367	36 3/8"	23 5/8"	13 5/8"	8 1/2"	4 3/4"	2 3/4"	7 3/8"	18 1/8"	18 3/4"	13 5/8"	9 3/4"	8 1/2"	2 3/4"	16 1/2"	19 1/4"	25 1/2"

** add PU to end of stock code to include a pump

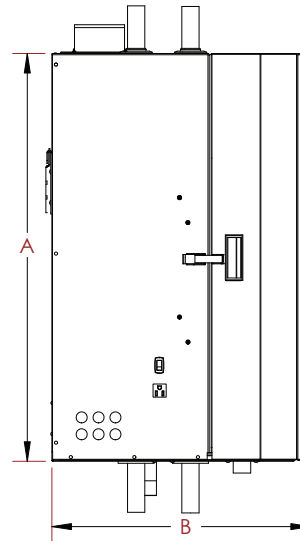
* Thermal Efficiency (Not AFUE)



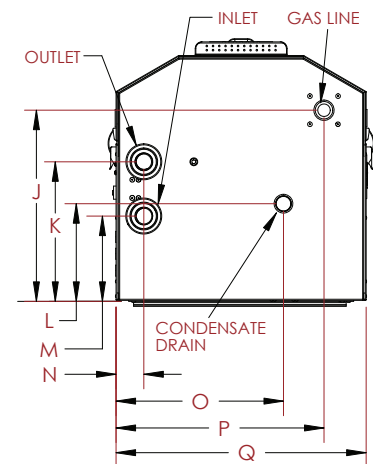
ULTRA
Low NOx
Emissions



Top View



Side View



Bottom View

Model		285	399
Installation		Indoor, Wall Hung, Fully Condensing	
Minimum / Maximum Input (Btu/Hr)		28,500 / 285,000	39,900 / 399,000
Heating Capacity (MBH)		262	367*
Turndown Ratio		10:1	10:1
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent	
Minimum Combined Vent Run		16 feet	
Maximum Combined Vent Run		3" (150 feet)	4" (200 feet)
Approved Exhaust Vent Materials		PVC, CPVC, PP, Stainless Steel	
Shipping Weight (lbs)		203	298
Gas Supply Pressure	NG	3.5" to 14" WC	
	LP		
Manifold Pressure	Min / Max	NG/LP: -0.01" WC	
Power Supply		120V 60 Hz, 6.3A	
General Operating Conditions		Ambient Temperature Range: 33 – 104°F (0.6 – 40°C) Product Approvals and Requirements: ANSI Z21.13 / CSA 4.9	
Ignition System		Direct Electronic Spark Ignition / Flame Rectification	
Burner System		Premixed Fuel Modulation / Stainless Steel Metal Fiber Burner	
Gas Valve System		Air Ratio Valve	
Dimensions (in Inches)	W	20	25.5
	H	32.6	36.4
	D	20.6	23.6
Boiler Water Content (Gallons)		6.1	7.9
Minimum Flow Rate @ 30°F ΔT (GPM)		17.9	25.0
Boiler Setpoint Temperature Range		50 – 190°F / 32 – 190°F (with Outdoor Reset Curve)	
DHW Indirect Setpoint Temperature Range		70 – 180°F	
Water Pressure (PSI)	Heat Exchanger MAWP	80	
	Pressure Relief Valve	80	
Control Panel / Main Controller		LCD Display with LED Indicators / 926 SIT Control	
Connection Sizes	Supply / Return	1 1/2" Copper SWT	
	Gas Inlet	1" NPTF	
Materials	Cabinet	Powder Coated Galvaneal Steel	
	Heat Exchanger	S43932 Stainless Steel Fire Tube	
Safety Devices		Flame Rectifier Probe, Dual Water Supply Temperature Sensor (199°F), Water Pressure Switch (Min. 10 PSI), Freeze Protection, Blocked Condensate Pressure Switch, Condensate Trap with Float, Flue Temperature High Limit Sensor (210°F), Blocked Vent Pressure Switch, Optional UL353 Low Water Cut-Off	

STANDARD FEATURES

- Up to 95.1% AFUE
- Modulating Burner
 - 10:1 Turndown ratio
- Venting Options
 - Concentric
 - 3" Pipe: Balanced or Unbalanced (EFT-285)
 - 4" Pipe (EFT-399)
- Limited 12 Year Warranty
- Wall Mounted
- Total System Control
- The Elite FT is ASME Certified

INCLUDED IN THE BOX

- Temperature and Pressure Gauge
- Pressure Relief Valve 80 PSI
- Indirect Sensor & Outdoor Sensor
- Intake PVC w/ Screens
- Exhaust PVC Coupling w/ Screens
- Installation Manual
- Warranty
- Condensation Removal System
- Wall Mount

OPTIONAL EQUIPMENT

- ModBus Adapter
- 3", 4", 6" Stainless Steel Outside Termination Vent Kit
- 3" Concentric Vent Kit
- 3" Polypro Vent Kit
- 3" Polypro Pipe
- U.L. 353 Compliant Low Water Cutoff w/ Manual Reset
- Alarm System to Monitor Failures
- PC Connection Kit
- Condensate Neutralizer
- System Sensor
- 3 Speed Pump with integrated Flow Check
- LP Conversion Kit

UFT BOILER

High Efficiency - Medium Mass

316L Stainless Steel, Fire
Tube Heat Exchanger

10 to 1 Turndown Ratio

Advanced Modulating Gas
Condensing Boiler; up to
96% AFUE

Universal Piping Location:
Installer Connection Can
Easily be Moved from Left
to Right Side of Floor Units

Venting: 2" or 3" PVC, CPVC
or Polypropylene

No Primary / Secondary
Piping Needed

Supply and Return Connections
on Either Top, Left or Right

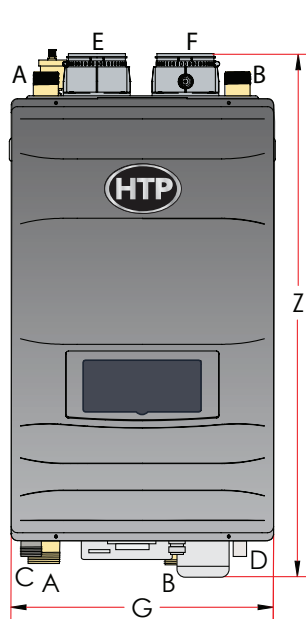


Wall &
Floor Units

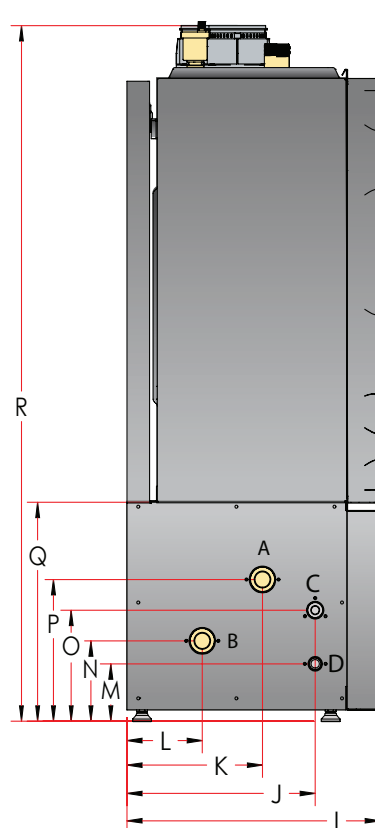
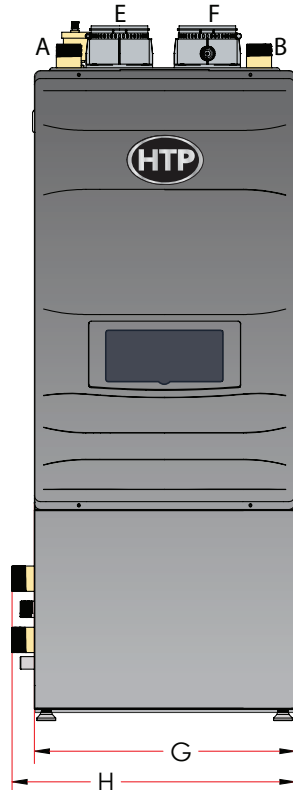


FIGHTING THE HIGH COST OF HEATING

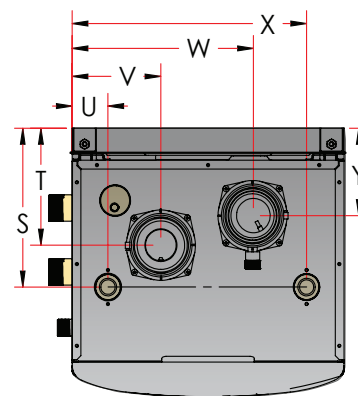
UFT Applications: Radiant Floor • Fan Coil • Base Board • Snow Melt • DHW (w/ Indirect Tank) • Pool Heater (w/ Indirect Tank) • Retro Fit • ASME



Wall Units



Floor Units



	Description	Diameter
A	CH Supply Adapter	1-1/4" NPT
B	CH Return Adapter	1-1/4" NPT
C	Gas Connection Adapter	3/4" NPT
D	Condensate Drain Adapter	1/2" NPT
E	Air Intake Pipe Connection	3"
F	Exhaust Pipe Connection	3"

All the bottom connections (boiler, domestic, condensation & gas) can be located on either side of the unit. Fittings are shipped on the left side of the boiler.

Replace * with a W (for a wall unit) or a F (for a floor unit)

MODELS	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
UFT-80 UFT-100	17.5	19.1	16.8	12	8.5	4.5	4	4.5	6.5	8.5	13.5	45	10	7.4	2.3	5.7	11.5	14.9	5.5	34
UFT-120 UFT-140																				
UFT-175 UFT-199	19.7	21.5	18.1	12	8.5	4.5	4	4.5	6.5	8.5	13.5	48	9.2	7.1	2.2	7.2	14.0	16.0	5.2	37

Model		UFT-80*	UFT-100*	UFT-120*	UFT-140*	UFT-175*	UFT-199*
Installation		Indoor, Wall Mounted Model or Floor Model, Fully Condensing					
AFUE		95.4	95.1	95.6	95.0	95.9	96.0
Input Rate (Btuh)		8,000 ~ 80,000	10,000 ~ 100,000	12,000 ~ 120,000	14,000 ~ 140,000	19,900 ~ 175,000	19,900 ~ 199,000
Flue System		Sealed Combustion Direct Vent, Power Vent					
Vent Run		2"(50ft), 3"(100ft) / Schedule 40 PVC, CPVC, PP					
Weight Wall Mount Model		90 lbs.		100 lbs.		110 lbs.	
Weight Floor Model		120 lbs.		130 lbs.		140 lbs.	
Gas Supply Pressure	Natural Gas	3.5"W.C ~ 14"W.C					
	Propane Gas	3.5"W.C ~ 14"W.C					
Power Supply	Main Supply	120V 60 Hz, 6A					
	Maximum Power	160W					
Ignition System		Direct Electronic Ignition / Automatic Flame Sensing					
Burner System		Premixed Fuel Modulation / Ceramic Fiber Infrared					
Gas Valve System		Combination Modulation (Current Proportional)					
Wall Mount Model Dimensions (W x H x D)		W 17.5" x H 34" x D 15.4"				W 19.7" x H 37" x D 16.8"	
Floor Model Dimensions (W x H x D)		W 19" x H 45" x D 17"				W 22" x H 48" x D 18"	
Heat Exchanger		316L Stainless Steel - 3 Gallon Water Capacity					
Water Pressure		12 min - 30 max PSI					
Connection Sizes	Supply/Return	1 1/4" NPT					
	Gas Inlet	3/4" NPT					
Cabinet Materials	Wall Mount Model	Painted Cold Rolled Carbon Steel					
	Floor Model	Galvaneal					
Warranty		Limited 10 Year Residential Warranty					

Pioneer

A Trailblazing Appliance that Installs with the Ease of a Mid-Efficiency Boiler but has the Performance of a High-Efficiency Product



HIGH MASS

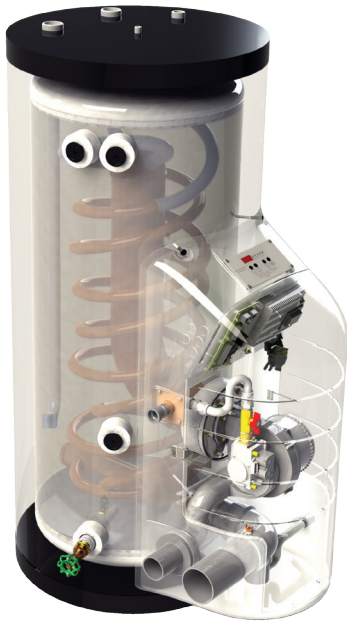
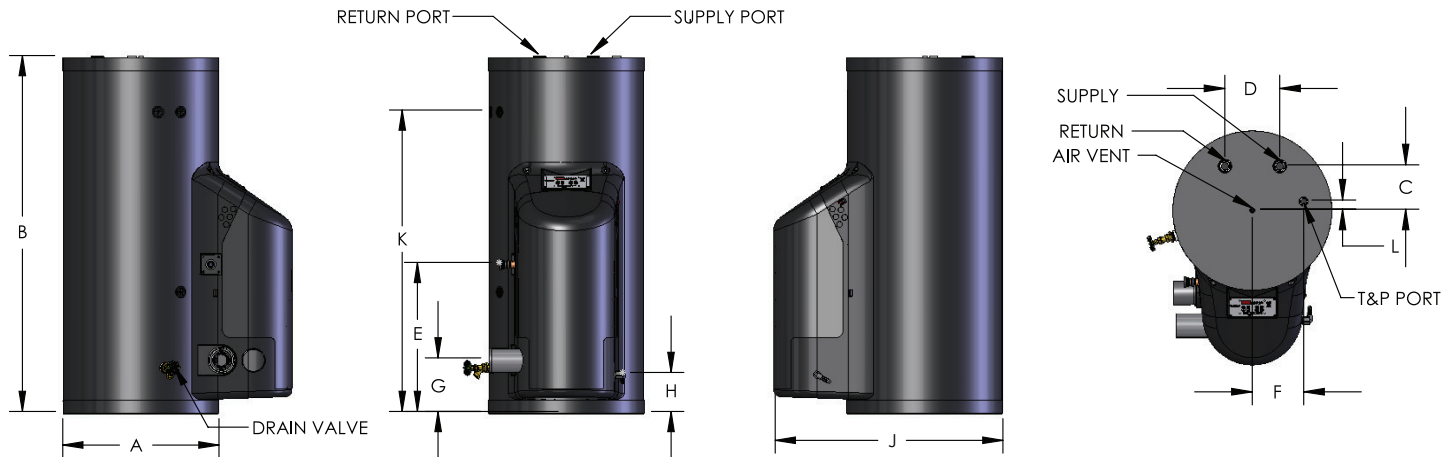
- Modulation provides a 5 to 1 turndown ratio
- Thermal mass in the stainless steel tank provides a buffer against cycling during low load conditions
- Low maintenance & space saving design
- Single loop installation: the heat exchanger is immersed in water and protected against "flashing" due to low flow condition
- Up to 95% thermal efficiency
- Retro-fit: ideal for replacement systems, minimize the changes to piping; no primary secondary piping needed
- Room air intake, PVC and CPVC venting with combined vent lengths up to 200' in 3" pipe & up to 85' in 2" for the 100 & 130 models
- Built in dirt & air separator
- 12 year limited warranty



Up to 95% Efficient • 5:1 Turndown Ratio • Single Loop Installation

Pioneer Applications: Radiant Floor • Fan Coil • Base Board • Snow Melt • DHW (w/ Indirect Tank) • Pool Heater (w/ Indirect Tank) • Retro Fit • Buffer Tank

Dimensions & Specifications



Retro-fit: ideal for replacement systems, minimize the changes to piping; no primary secondary piping needed

MODELS	A	B	C	D	E	F	G	H	J	K	L
PHR-100-55 PHR-130-55 PHR-160-55 PHR-199-55	23"	53"	6.5"	8"	22"	7.5"	8"	6"	34"	45"	1.25"

Model		PHR-100-55	PHR-130-55	PHR-160-55	PHR-199-55
Installation		Indoor, Floor Model, Fully Condensing			
Thermal Efficiency		95%	94%	95%	95%
Input Rate (Btuh)		35,000 ~ 100,000	35,000 ~ 130,000	40,000 ~ 160,000	40,000 ~ 199,000
Flue System		Sealed Combustion Direct Vent, Power Vent			
Vent Run		2"(85 ft), 3"(200ft) Vents in PVC - CPVC - SS - ULC S636 Flexible Polypropylene Vent Liner			
Weight		260 lbs.			
Gas Supply Pressure	Natural Gas	3.5"W.C ~ 14"W.C			
	Propane Gas	3.5"W.C ~ 14"W.C			
Power Supply	Main Supply	120V 60 Hz, 6A			
	Maximum Power	160W			
Ignition System		Spark Ignition - Dual Flame Monitoring - Flame Stabilization Monitoring			
Burner System		High-Grade Inconel Premix Burner			
Gas System		Fires on Natural or LP Gas with included Conversion Kit			
Model Dimensions (W x H x D)		W 23" x H 53" x D 34"			
Heat Exchanger		Copper Nickel Primary with 800 H and Copper Nickel Secondary Tube Construction			
Water Pressure		12 min - 30 max PSI			
Connection Sizes	Supply/Return	1 1/4" FNPT			
	Gas Inlet	3/4" NPT			
Buffer Tank		55 Gallon - 304L Stainless Steel			
Warranty		Limited 12 Year Residential Warranty			



STANDARD FEATURES

- Modulating Burner
- 5:1 Turndown Ratio
- Venting Options
 - Room Air Intake
 - Concentric
 - Flexible Vent Pipe
 - Up to 200 combined ft.
- Single Loop Installation
- 12 Year Limited Warranty

INCLUDED IN THE BOX

- Pressure and Temperature Gauge
- 30 PSI Temperature and Pressure Relief Valve
- Intake PVC Tee w/ Screens
- Exhaust PVC Coupling w/ Screens
- Installation Manual
- Outdoor Sensor

OPTIONAL EQUIPMENT

- System Sensor
- Indirect Tank Sensor
- 3", 4", 6" Stainless Steel Outside Termination Vent Kit
- 3" PVC Concentric Vent Kit
- U.L. 353 Compliant Low Water Cutoff w/ Manual Reset
- Alarm System to Monitor Failures
- PC Connection Kit
- Condensate Neutralizer

Versa-Hydro®

Space Heating & Domestic Hot Water Combined



Innovative Design

- The modulating DHW burner operates up to **5 to 1** turndown ratio, while the space heating module operates at a **10 to 1** turndown ratio
- Low energy costs: up to **96% thermal efficiency**
- The tank has minimal heat loss, thanks to thick water blown foam insulation
- Virtually maintenance free operation
- Incredible system flexibility: built-in auxiliary taps provide connections to air handlers or supplemental storage tanks
- The Versa-Hydro saves space by combining the equivalent of a 135,000 Btuh boiler, an indirect water heater, and a buffer tank into one small footprint
- An extremely durable cupronickel and stainless steel heat exchanger boasts excellent heat transfer properties and resists corrosion
- PVC or CPVC pipe, with combined vent lengths up to 200' in 3" pipe for the 199 model and combined vent lengths up to 85' in 2" for the 130 model
- 12 year limited warranty



Solar Option Available

Save Energy • Save Money • Save Space • Save On Installation

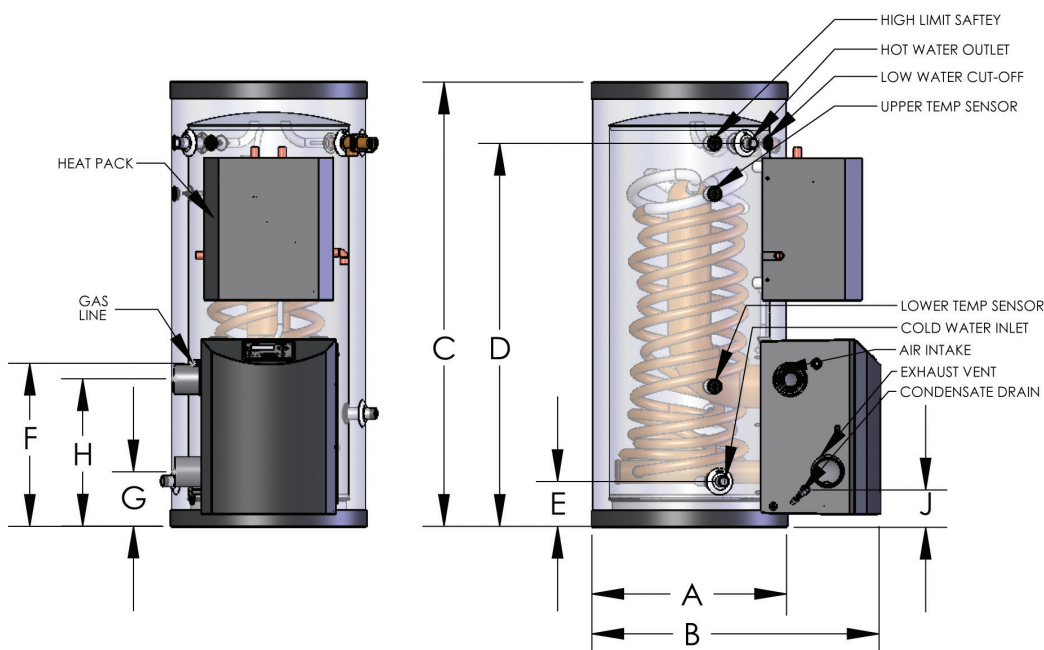
VERSA-HYDRO WATER HEATER SPECIFICATIONS

MODEL #*	GALLONS	BTUH	SPACE HEATING MODULE BTU'S	AIR INTAKE/ EXHAUST VENT SIZE	MAXIMUM SPACE HEATER TEMP.	WATER INLET/ OUTLET SIZE	AUX. CONN.	GAS LINE CONN.	SYSTEM RELIEF PIPE SIZE	SHIPPING WEIGHT
PHE130-55 / PHE199-55	55	130,000	100,000	2"	160°	1" NPT	1"	3/4"	3/4"	205 LBS.
		199,000	135,000	3"						
PHE130-80 / PHE199-80	80	130,000	100,000	2"	160°	1" NPT	1"	3/4"	3/4"	265 LBS.
		199,000	135,000	3"						
PHE130-119 / PHE199-119	119	130,000	100,000	2"	160°	1" NPT	1"	3/4"	3/4"	435 LBS.
		199,000	135,000	3"						

VERSA-HYDRO WATER HEATER DIMENSIONS

MODEL #*	GALLONS	A	B	C	D	E	F	G	H	J
PHE130-55 / PHE199-55	55	23"	34"	53"	46"	5½"	19½"	7-3/8"	14½"	5"
PHE130-80 / PHE199-80	80	23"	34"	72"	61"	5¾"	20½"	8-3/8"	15½"	6"
PHE130-119 / PHE199-119	119	27"	37"	74"	65¾"	7½"	20½"	8-3/8"	15½"	6"

* No suffix denotes natural gas and suffix "LP" denotes propane gas. In keeping with its policy of continuous product improvement, HTP reserves the right to make changes without notice.



Model	1st Hr. Rating	Recovery @ 100° F. Rise	Thermal Efficiency
PHE 130-55	205 Gal	148 GPH	94%
PHE 130-80	227 Gal	150 GPH	95%
PHE 130-119	257 Gal	152 GPH	95%
PHE 199-55	295 Gal	229 GPH	95%
PHE 199-80	314 Gal	229 GPH	96%
PHE 199-119	335 Gal	230 GPH	96%

Versa-Hydro Does It All!

The Versa-Hydro™ has just five easy piping connections: supply and return for heating, inlet and outlet for DHW and system feed – and you're done. It's cost effective and free of clutter. There's no primary/secondary loop to install, no near boiler piping, no boiler/indirect electrical connections, and no isolation valves to install.

Boiler & Indirect

Labor
Pump & Control
Trim Costs
Buffer Tank
Tank
Boiler



Versa-Hydro™

Labor
Trim Costs
Versa-Hydro™



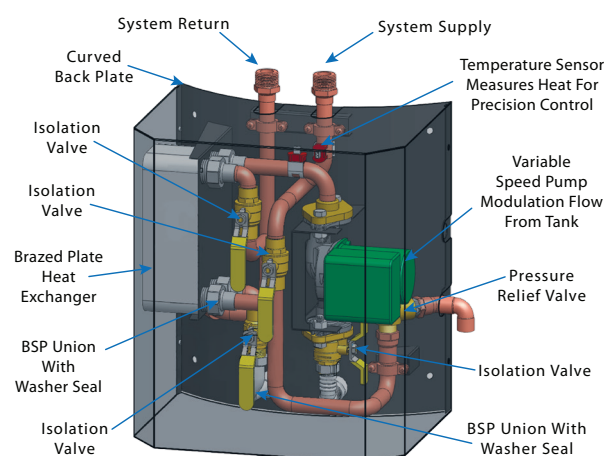
Compare Total Costs

No Primary/
Secondary Loop

No Near
Boiler Piping

No Boiler/Indirect
Electrical or Hydronic
Heating Connections

No Isolation Valves



UFT Combi

Floor & Wall Units

Space Heating & Endless Hot Water



140K & 199K Btuh Units

Stainless Steel, Fire Tube
Heat Exchanger

Turndown Ratio up to 10:1

Advanced Modulating Gas
Condensing Boiler: Up to
96% AFUE

Built-in 2 Gallon Indirect
Stainless Steel Tank

Universal Piping Location:
Installer Connection Can
Easily be Moved from Left
to Right Side of the Unit

3.2 GPM Flow Rate
@ 77° Rise (UFTC-140F)

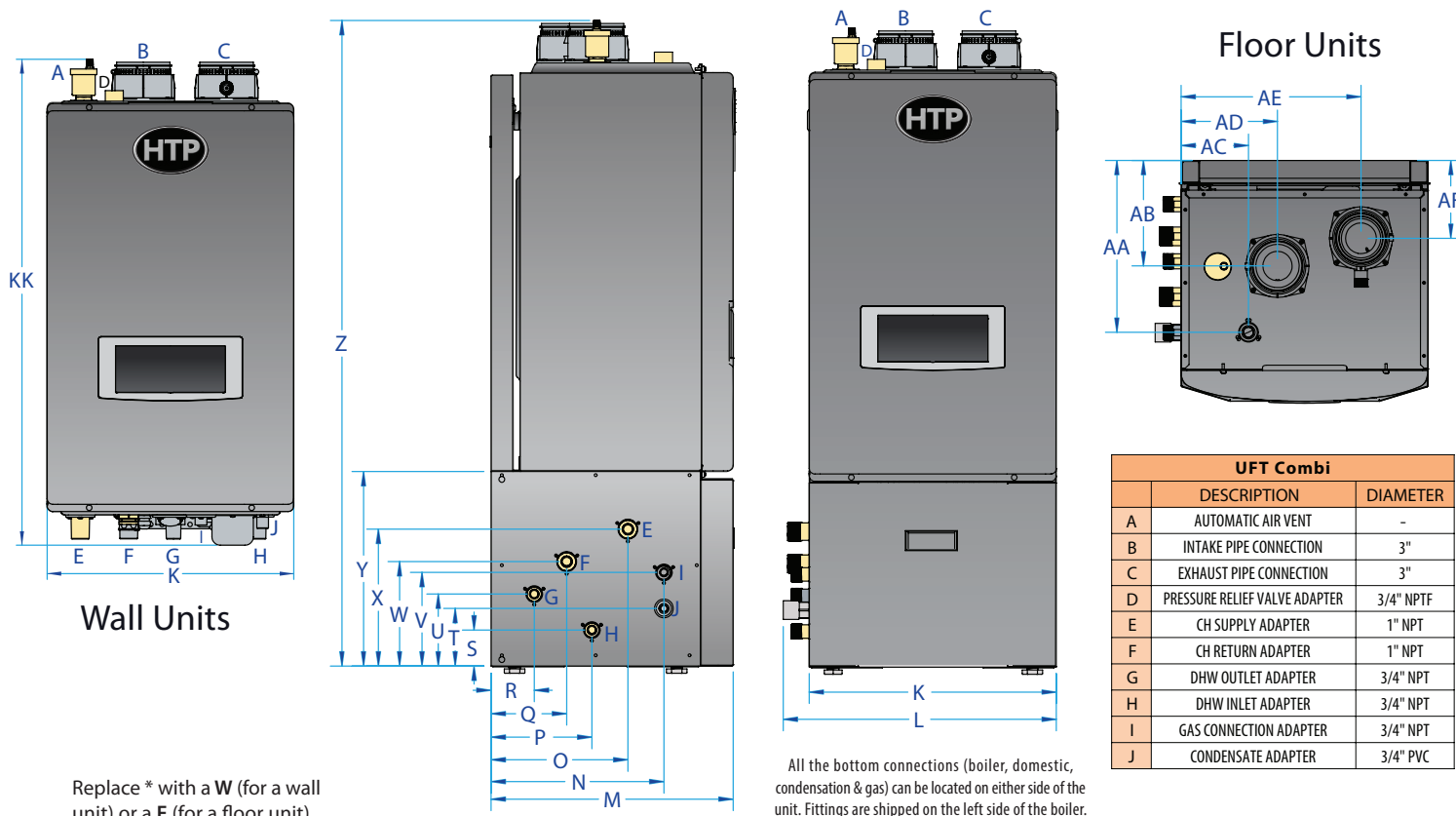
4.8 GPM Flow Rate
@ 77° Rise (UFTC-199F)

Venting: 2" or 3" PVC, CPVC
or Polypropylene

www.htproducts.com



Save Energy • Save Money • Save Space • Save On Installation



MODELS	K	KK	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF
UFTC-140*	17.3	34	19.1	16.8	12	9.5	7	5.3	3	2.5	4	5	6.5	7.3	9.5	13.5	44.8	12	7.4	4.7	6.8	12.6	5.5
UFTC-199*	19.7	37	21.5	18.2	13.3	10.8	8.3	6.6	4.3	2.5	4	5	6.5	7.3	9.5	13.5	48	14	8.5	3.2	9.2	15.1	5.2

Model		UFTC-140*	UFTC-199*
DHW Input	Natural Gas or Propane Gas	14,000 ~ 140,000 Btuh	19,000 ~ 199,000 Btuh
Boiler Input / AFUE		14,000 ~ 140,000 Btuh / 96	19,900 ~ 140,000 Btuh / 95.1
Floor Model Dimensions (W x H x D)		W 19” x H 45” x D 17”	W 22” x H 48” x D 18”
Wall Mount Model Dimensions (W x H x D)		W 17.3” x H 34” x D 15.4”	W 19.7” x H 37” x D 16.8”
Installation Type		Indoor, Wall Mounted Model or Floor Model, Fully Condensing	
Venting Type		Forced Draft Direct-Vent	
Venting: Combined Vent Length / Materials		2"(50ft), 3"(100ft) / CPVC, PVC, PP & Power Vent	
Ignition		Electronic Ignition	
Gas Supply Pressure	Natural Gas	3.5"W.C ~ 14"W.C	
	Propane Gas	3.5"W.C ~ 14"W.C	
Power Supply	Main Supply	AC 120V / 60Hz	
	Maximum Power Consumption	160W	
Flow Rate (DHW)	35°F (19°C) Temp Rise	7.1 gal/m	9.88 GPM
	45°F (25°C) Temp Rise	5.5 gal/m	7.7 GPM
	77°F (43°C) Temp Rise	3.2 gal/m	4.8 GPM
Water Pressure	Central Heating	15 min - 30 max PSI	
	Domestic Hot Water	15 min - 150 max PSI	
Connection Sizes	Cold Water Inlet / Hot Water Outlet	3/4" NPT	
	Boiler Inlet /Outlet	1" NPT	
	Gas Inlet	3/4" NPT	
Warranty		Limited 10 Year Residential Warranty	

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



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

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
- Power vent or direct vent options



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

Specifications

STANDARD FEATURES

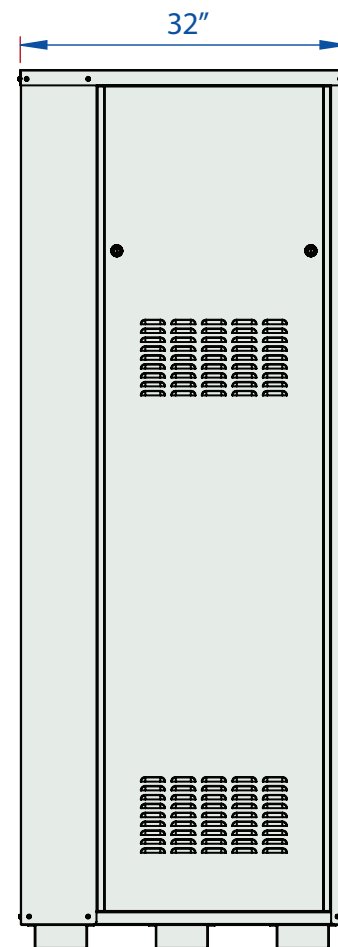
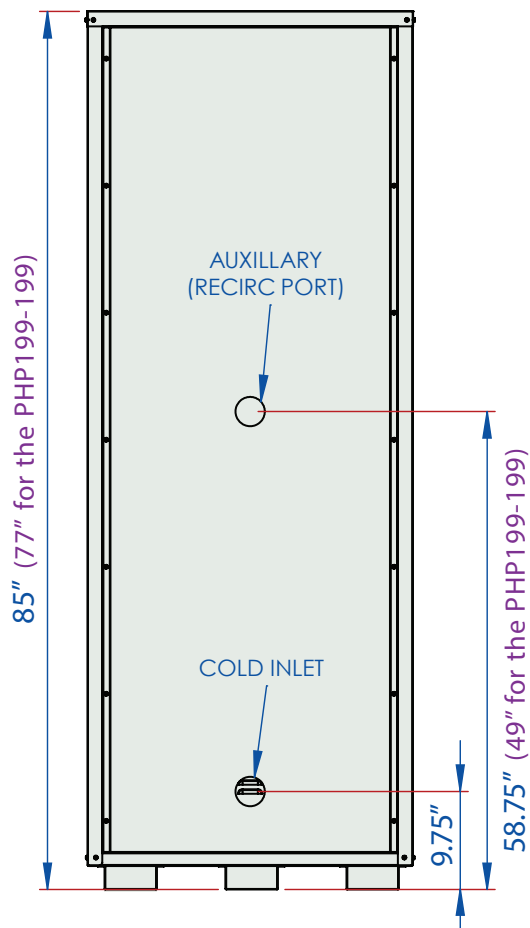
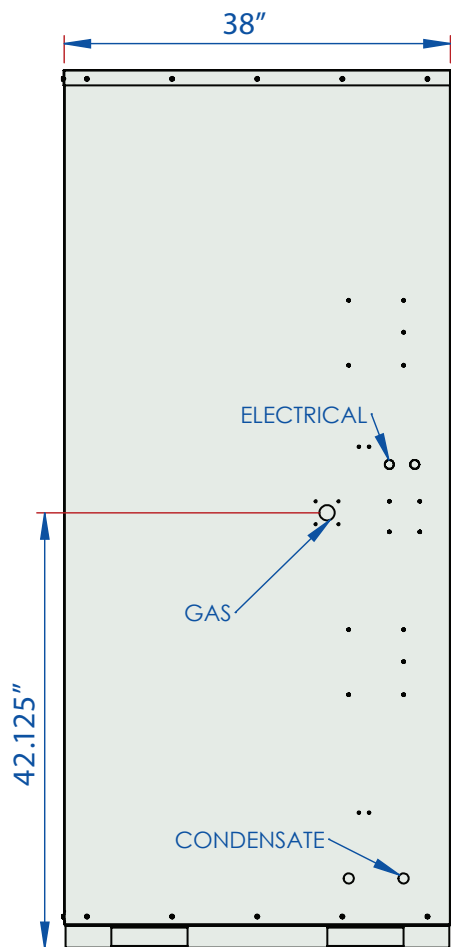
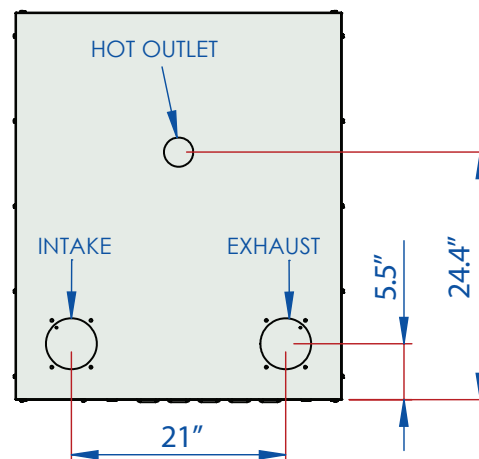
- Up to 95% Thermal Efficiency
- 2 Modulating Burners - Up to 10:1 Turndown Ratio (PHP199-199: 1 Burner; 199K model: 5:1 Turndown Ratio)
- Vents in PVC, CPVC, Stainless Steel, ULC S636
- Spark ignition
- Dual flame monitoring (Spark & Flame probe)
- Flame stabilization monitoring
- Integrated Control 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 the PHP199-199 Model)
- 3" & 4" Stainless Steel Outside Termination Vent Kits
- 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	Thermal Efficiency
PHP199-119	40k – 199k Btuh	3"	¾"	119	1 ½"NPT	1"NPT	1"NPT	475 LBS	232	315	1	95%
PHP260-119	35k – 260k Btuh	4"						555 LBS	303	386	2	94%
PHP320-119	40k – 320k Btuh							575 LBS	372	455	2	94%
PHP399-119	40k – 399k Btuh							575 LBS	464	574	2	95%

The Phoenix[®]

316L Stainless Steel Tank

Super Durable:

- 316L stainless steel tank
- Hybrid cupronickel / stainless steel heat exchanger
- No anode rods needed
- Reduced cycling adds to component life
- Venting: PVC/ CPVC

Super Efficient:

- up to 96% efficiency
- Load-matching modulation
- Outdoor sensor auto adjusts for maximum efficiency
- 2" foam insulation
- up to ½°F/hr standby loss
- 5:1 turndown ratio

Power vent or direct power vent options

Solar & Sanitizer Options Available

Solarskies Gas Fired Solar Water Heaters are the first modulating condensing solar water heaters with an integrated gas fired back-up all in one unit!

Phoenix Sanitizer: The Phoenix line offers a high temp sanitation tank for those need to be clean applications. Great for use in restaurants, breweries, wineries, dairies and more.



Up to 96% Efficient

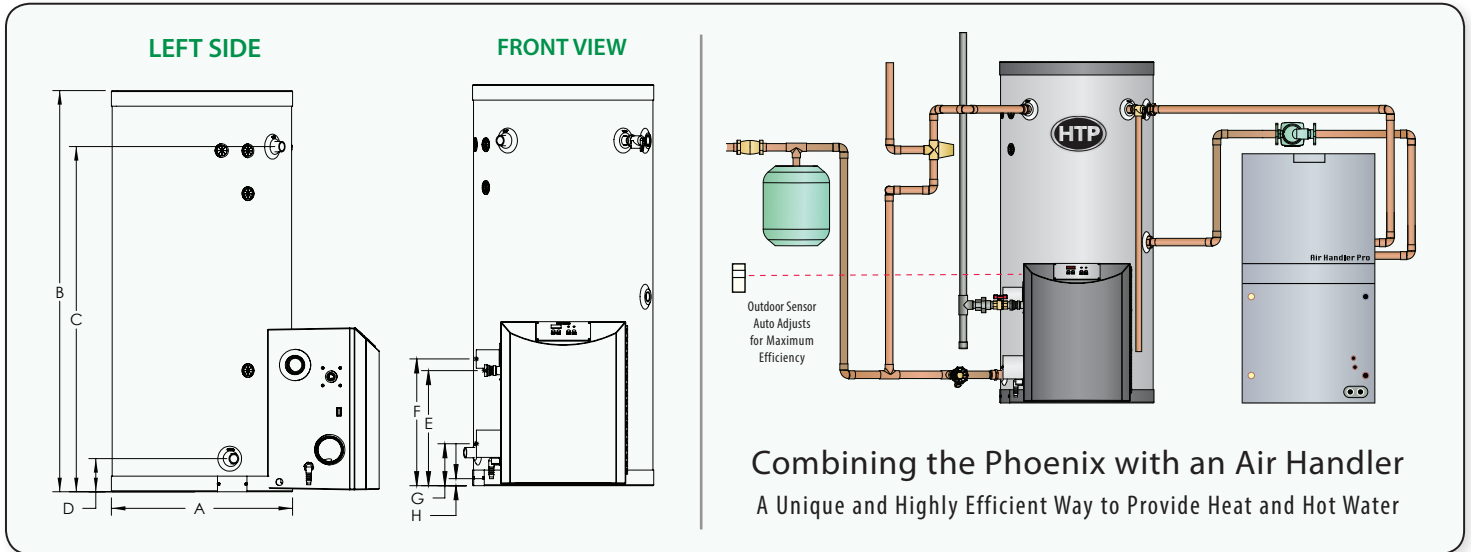


PHOENIX WATER HEATER AND SANITIZER BOOSTER SPECIFICATIONS

MODEL	Btuh (w/ Mod)	Recovery at 100 F. Rise	Gallon Capacity	Inlet/ Outlet Size	Shipping Weight
PH100-55	35,000 - 100,000	115	55	1" NPT	175 LBS
PH130-55	35,000 - 130,000	148	55	1" NPT	175 LBS
PH160-55	40,000 - 160,000	184	55	1" NPT	175 LBS
PH199-55	40,000 - 199,000	229	55	1" NPT	175 LBS
PH100-80	35,000 - 100,000	116	80	1.5" NPT	235 LBS
PH130-80	35,000 - 130,000	150	80	1.5" NPT	235 LBS
PH160-80	40,000 - 160,000	184	80	1.5" NPT	235 LBS
PH199-80	40,000 - 199,000	229	80	1.5" NPT	235 LBS
PH100-119	35,000 - 100,000	117	119	1.5" NPT	405 LBS
PH130-119	35,000 - 130,000	152	119	1.5" NPT	405 LBS
PH160-119	40,000 - 160,000	184	119	1.5" NPT	405 LBS
PH199-119	40,000 - 199,000	230	119	1.5" NPT	405 LBS
PH130-55SA (184 F)	35,000 - 130,000	148	55	1" NPT	175 LBS
PH199-55SA (184 F)	40,000 - 199,000	229	55	1" NPT	175 LBS

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

The Phoenix Dimensions & Specifications



HTP's Unique Design

Our **laser welded, stainless steel** tank is the best in the industry and will outlast any glass-lined tank. This **light weight** tank is built to last! Because the Phoenix tank is **stainless steel**, no Anode Rods are needed to fight the corrosive properties of scale build up. The Phoenix has a **5:1 turndown ratio** this reduces cycling and increases efficiency. The Phoenix is up to **96% efficient!** The heat exchanger is a **Stainless Steel / Cupronickel** spiral design that expands and contracts rapidly with the change in temperature, eliminating scale build-up (self-cleaning).

PHOENIX WATER HEATER AND SANITIZER BOOSTER DIMENSIONS

MODEL	GAL.	A	B	C	D	E	F	G	H
PH100-55 / PH130-55 PH160-55 / PH199-55	55	23"	52"	45"	5"	14-3/4"	16-1/4"	5-1/4"	1"
PH100-80 / PH130-80 PH160-80 / PH199-80	80	23"	72"	64"	5"	17"	18-1/2"	7-3/4"	3-1/4"
PH100-119 / PH130-119 PH160-119 / PH199-119	119	27"	74"	66-1/4"	7-1/2"	18-3/4"	21-1/2"	10-1/2"	5"
PH130-55SA / PH199-55SA	55	23"	52"	45"	5"	14-3/4"	16-1/4"	5-1/4"	1"

PHOENIX WATER HEATER AND SANITIZER BOOSTER SPECIFICATIONS

MODEL	Btuh	Air Intake/ Exhaust Vent	Inlet/ Outlet	Auxiliary Conn.	Gas Line Conn.	System Relief Pipe	Shipping Weight	Max. Temp Limit	T. Efficiency / UEF
PH100-55	100,000	2"	1" NPT	1" FNPT	3/4"	3/4"	175 LBS	160 F	95% / .89
PH130-55	130,000	2"	1" NPT	1" FNPT	3/4"	3/4"	175 LBS	160 F	94%
PH160-55	160,000	3"	1" NPT	1" FNPT	3/4"	3/4"	175 LBS	160 F	95%
PH199-55	199,000	3"	1" NPT	1" FNPT	3/4"	3/4"	175 LBS	160 F	95%
PH100-80	100,000	2"	1-1/2" NPT	1" FNPT	3/4"	3/4"	235 LBS	160 F	96% / .93
PH130-80	130,000	2"	1-1/2" NPT	1" FNPT	3/4"	3/4"	235 LBS	160 F	95%
PH160-80	160,000	3"	1-1/2" NPT	1" FNPT	3/4"	3/4"	235 LBS	160 F	96%
PH199-80	199,000	3"	1-1/2" NPT	1" FNPT	3/4"	3/4"	235 LBS	160 F	95%
PH100-119	100,000	2"	1-1/2" NPT	1" FNPT	3/4"	3/4"	405 LBS	160 F	96% / .90
PH130-119	130,000	2"	1-1/2" NPT	1" FNPT	3/4"	3/4"	405 LBS	160 F	96%
PH160-119	160,000	3"	1-1/2" NPT	1" FNPT	3/4"	3/4"	405 LBS	160 F	96%
PH199-119	199,000	3"	1-1/2" NPT	1" FNPT	3/4"	3/4"	405 LBS	160 F	96%
PH130-55SA	130,000	2"	1" NPT	1" FNPT	3/4"	3/4"	175 LBS	184 F	94%
PH199-55SA	199,000	3"	1" NPT	1" FNPT	3/4"	3/4"	175 LBS	184 F	95%

STANDARD FEATURES

- Up to 96% Thermal Efficiency
- Modulating Burner
- 5:1 Turndown Ratio
- Vents in PVC, CPVC, Stainless Steel, ULC S636
- 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



Phoenix Multi-Fit[®]

Stainless Steel • Gas fired • Commercial Water Heater

Phoenix Multi-Fit will accommodate even the most difficult installations with lower clearance and multiple inlet and outlet connections making it easier to replace traditional center flue heaters.



Up to 96% Thermal Efficiency

Up to 5:1 Turndown Ratio

Industry first for Condensing Water Heaters: Top and Side Connection Choices for Inlet and Outlet

Ease of Installation

Extremely lightweight tank fits virtually anywhere; 100 gallon: 63" height & 80 gallon: 55" height

316L Stainless Steel Tank

Eliminates the need for anode rods

Vents in Inexpensive PVC or CPVC pipe

Combined vent lengths of up to 200' in 3" pipe or 85' in 2" pipe - power vent or direct power vent options

High-End Stainless Steel Look

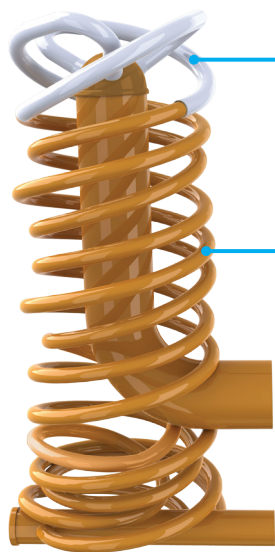
80/100 Gallon - 130k/199k Btuh



Inlet/Outlet Connections On Both The Top & Side

HTP's Unique Heat Exchanger

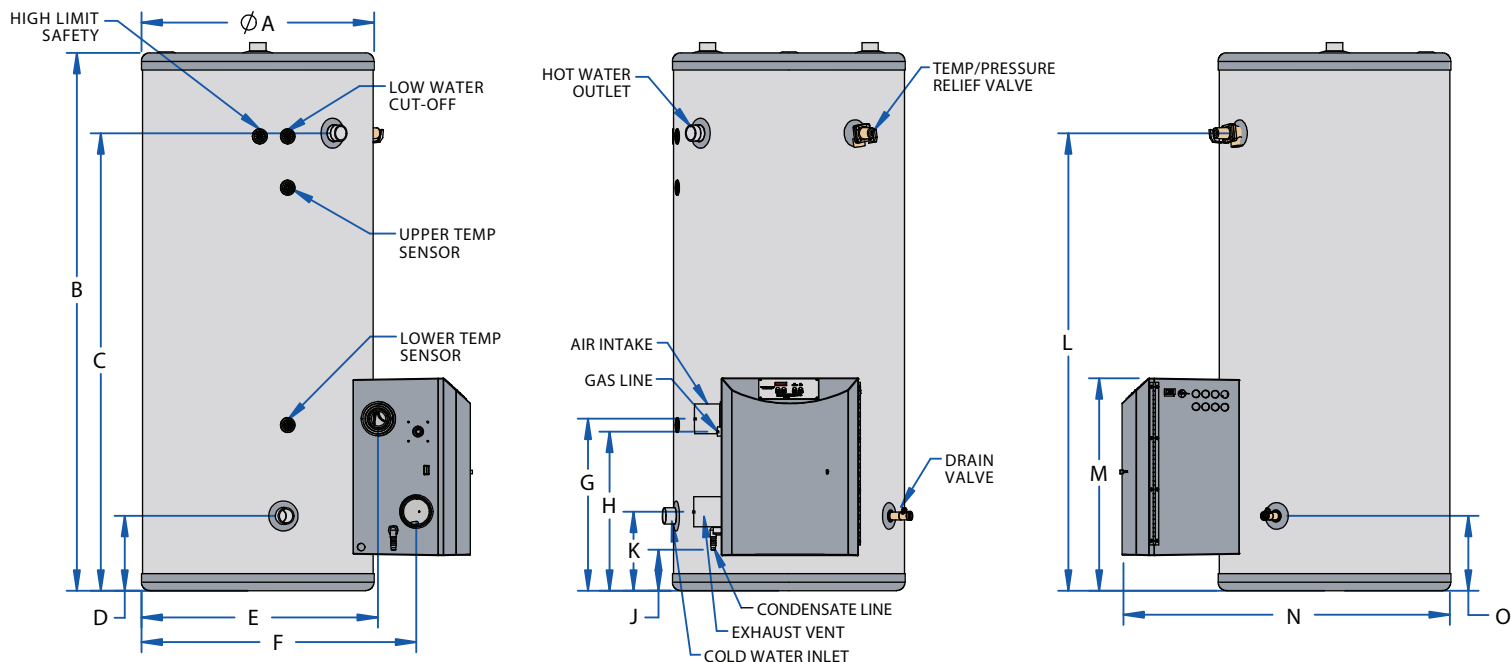
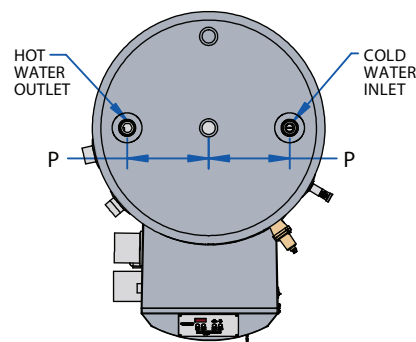
Durable Construction • High Performance • Excellent Heat Transfer Capabilities • Self Cleaning



Stainless Steel (1.65mm thick) welded to the top of the heat exchanger where flue gas is the hottest.

Transitions to 90/10 Cupronickel (1.1mm thick) spiral design that expands and contracts rapidly with the change in temperature eliminating scale build-up.

Dimensions



PHOENIX MULTI FIT WATER HEATER

MODEL*	GAL.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
PHM130-80/199-80	80	27"	55"	45-1/4"	7-1/4"	27-1/2"	32"	18-1/4"	17"	3"	8"	45-1/4"	24-3/4"	38-1/4"	7-1/4"	9-1/2"
PHM130-100/199-100	100	27"	63"	54"	7-1/4"	27-1/2"	32"	18-1/4"	17"	3"	8"	54"	24-3/4"	38-1/4"	7-1/4"	9-1/2"

PHOENIX MULTI FIT WATER HEATER SPECIFICATION

MODEL*	INPUT MODULATION	AIR INTAKE/ EXHAUST VENT SIZE	INLET/ OUTLET SIZE	GAS LINE CONN.	SYSTEM RELIEF PIPE SIZE	SHIPPING WEIGHT	MAX. TEMPERATURE LIMIT
PHM130-80	30,000 - 130,000	2"	1-1/2" NPT	3/4"	3/4"	285 LBS	160 °
PHM199-80	40,000 - 199,000	3"	1-1/2" NPT	3/4"	3/4"	285 LBS.	160 °
PHM130-100	30,000 - 130,000	2"	1-1/2" NPT	3/4"	3/4"	315 LBS.	160 °
PHM199-100	40,000 - 199,000	3"	1-1/2" NPT	3/4"	3/4"	315 LBS.	160 °

*ALL DIMENSIONS ARE APPROXIMATE, A SUFFIX OF "LP" DENOTES PROPANE GAS

Phoenix[®] LIGHT DUTY

Highly Efficient - Stainless Steel Tank

Highly Efficient Operation

- Up to 97% thermal efficiency & .90 UEF

Modulating Combustion System

- 3:1 turndown ratio: 25,000 to 76,000 Btuh
- Low NO_x compliant

Superior Tank Construction: 316L Stainless Steel

- Laser welded precision
- No anode rods needed
- Lightweight

Highly Efficient Combustion Heat Exchanger

- The Phoenix Light Duty uses the latest, patented technology and is covered by U.S. Patent No. 10,024,57 - it's cupronickel heat exchanger design boasts excellent heat transfer properties and resists corrosion

Condensate System

- Patent pending condensate system with removable built-in neutralizing cartridge

Multiple Venting Options

- 2" PVC, CPVC or ULC S636 pipe
- Combined vent length of 150 feet
- Two pipe balanced or unbalanced venting system
- Power vent or direct vent

Ease of Installation

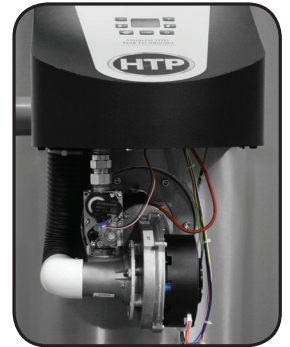
- Top ports on inlet and outlet (patent pending integral inlet mixing device)
- Top connect auxiliary port for recirculation line or air handler piping increases overall efficiency

Advanced Electronic Control

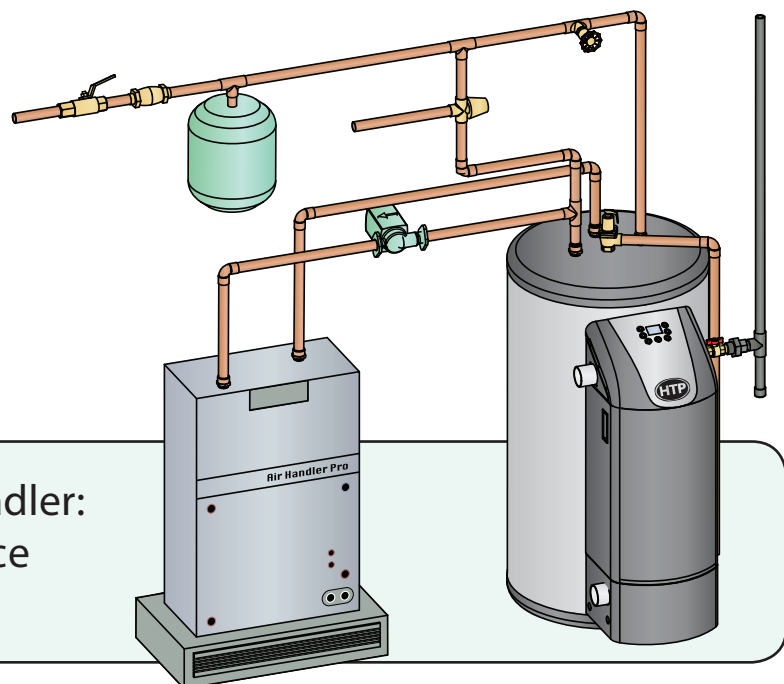
- Easy to read LCD (icon and text) display



Combustion System

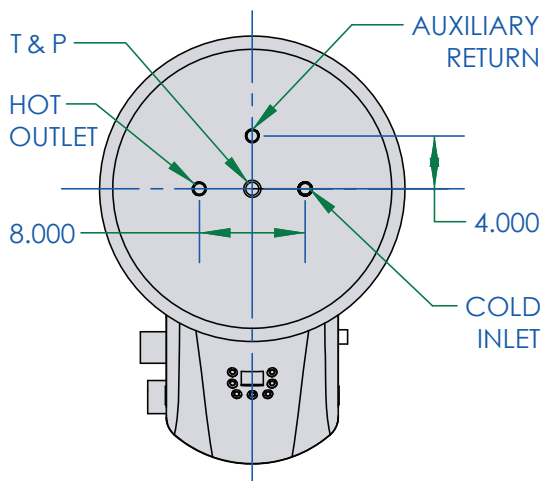
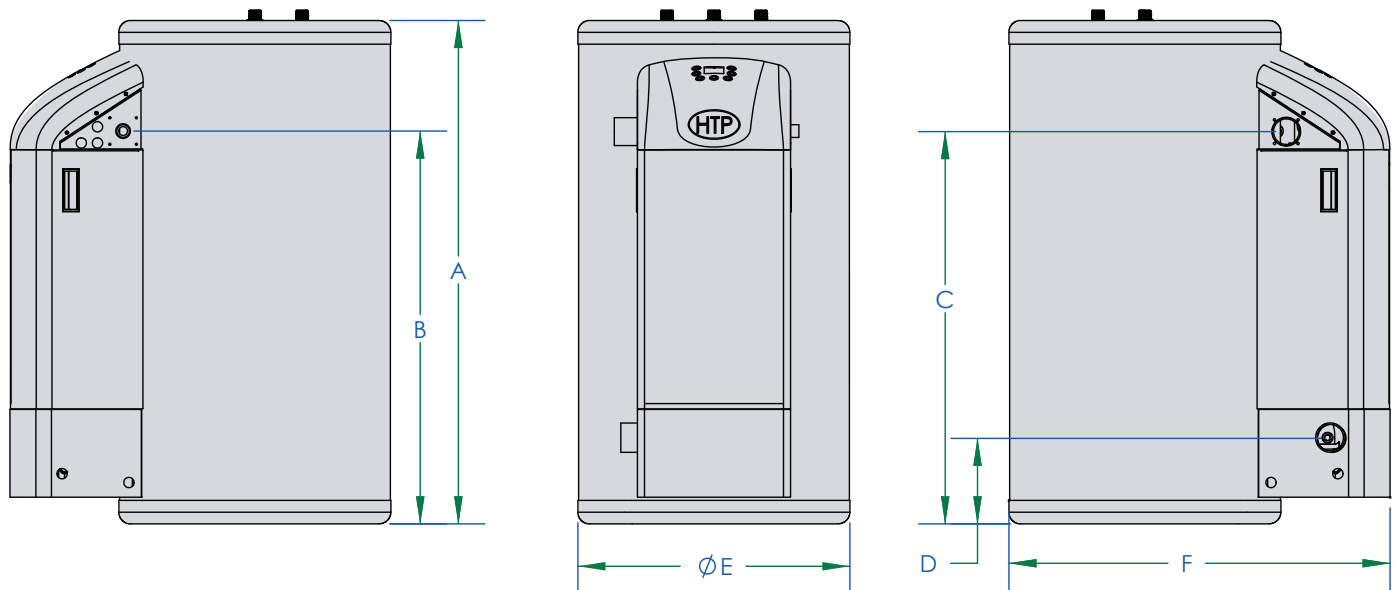


Solar Version



The Phoenix LD with an Air Handler:
Domestic Hot Water & Space
Heating Combination

Phoenix LD Specifications



STANDARD FEATURES

- Up to 97% Thermal Efficiency
 - Modulating Burners with Up to 3:1 Turndown Ratio
 - Vents in PVC, CPVC, Stainless Steel, ULC S636
 - Spark ignition with flame monitoring
 - Flame stabilization monitoring
 - Integrated Control System
 - Pressure relief pre-piped
 - Limited Warranty:
- Residential: 10 year** if registered online
& **7 year** if not registered
Commercial: 3 year (upgradable to 5 year with additional charge)

WHAT'S IN THE BOX

- Intake PVC Tee w/ Screens
- Exhaust PVC Coupling w/ Screens
- Installation Manual
- Temperature & Pressure Relief Valve
- Warranty
- Condensate Cartridge

OPTIONAL EQUIPMENT

- Outdoor Sensor
- 2" or 3" PVC Concentric Vent Kit
- 2" or 3" Stainless Steel Outside Termination Vent Kit
- 3" Polypro Vent Kit



MODEL	A	B	C	D	E	F	Nominal Storage Capacity	Vent Size	Gas Line	Inlet/Outlet Size	Relief Valve	Aux Conn.
PH76-50	44.75"	33"	33"	6.75"	23"	32.5"	50 GAL.	2"	1/2"	3/4" NPT	3/4" FNPT	3/4" NPT
PH76-60	52.625"	33"	33"	6.75"	23"	32.5"	60 GAL.					
PH76-80	69"	33"	33"	6.75"	23"	32.5"	80 GAL.					

MODEL	Btuh	DOE Rated Storage Volume	UEF	Recovery Efficiency	First Hour Rating	First Hour Rating Bin	Thermal Efficiency	Recovery GPH At 90° F Rise	Max. Temp Limit
PH76-50	25,000 - 76,000	48 GAL.	.90	96%	154 GAL.	High	97%	98	160°F
PH76-60	25,000 - 76,000	58 GAL.	.88	97%	157 GAL.	High	97%		
PH76-80	25,000 - 76,000	77 GAL.	.87	94%	206 GAL.	High	95%		
PH76-80S*	25,000 - 76,000	77 GAL.	N/A	94%	206 GAL.	High	95 %	107	

* Solar

Please refer to the Energy Star website or the rebate center on the HTP website for local rebates

HTP Volume Water Heaters

MOD CON VWH

Commercial Hot Water Supply Boiler

- Ultra high up to 98% thermal efficiency rating
- 316L stainless steel construction heat exchanger
- Up to 200 ft. Combined venting in PVC, CPVC, or stainless steel
- Cascading capability: up to 8 boilers - increased turndown ratios, built-in redundancy, and a total heating capacity of up to 6,800,000 Btuh
- Control interface and USB connection allows boiler history to be displayed on a computer
- Modulating burner with 5 : 1 turndown ratio (Mod Con 1000 & 1700 VWH Models have a 10 : 1 turndown ratio)
- 5 year limited warranty

Model	BTU / Input Range	Gross Output Btuh	GPH @ 100° Rise	Thermal Efficiency
Mod Con 500 VWH	100,000-500,000	470,000	564	98%
Mod Con 700 VWH	170,000-700,000	686,000	789	97%
Mod Con 850 VWH	170,000-850,000	799,000	959	97%
Mod Con 1000 VWH*	100,000-1,000,000	940,000	1,128	97%
Mod Con 1700 VWH*	170,000-1,700,005	1,600,000	1,918	98%

* Double Stack



Elite VWH

Premier Hot Water Supply Boiler

10 : 1
Turndown
Ratio

- Vents in inexpensive PVC pipe, up to 200 equivalent feet
- Total System Control interface: a 2-line 20-character LCD
- 316L stainless steel heat exchanger
- Impressive range: 4 models, ranging from 220,000 to 399,000 Btuh
- Floor standing or wall mount
- Cascade up to 8 units
- 5 year limited warranty



Model	BTU / Input Range	GPH @ 100° Rise	Thermal Efficiency
EP-220 VWH	44,000-220,000	254	95.3%
EP-299 VWH	60,000-299,000	347	95.9%
EP-301 VWH	60,000-301,000	347	95.1%
EP-399 VWH	80,000-399,000	461	97.7%



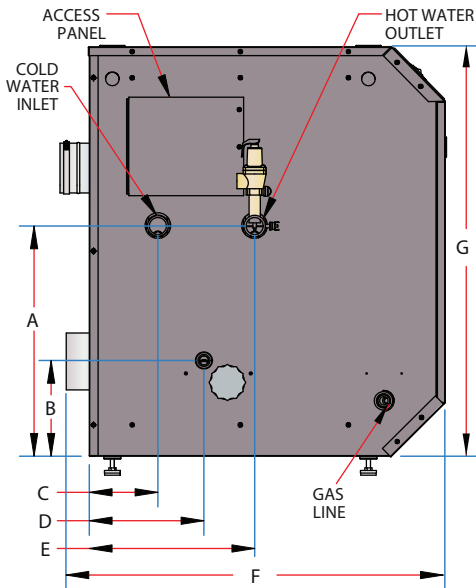
Dimensions

Mod Con VWH WHAT'S IN THE BOX

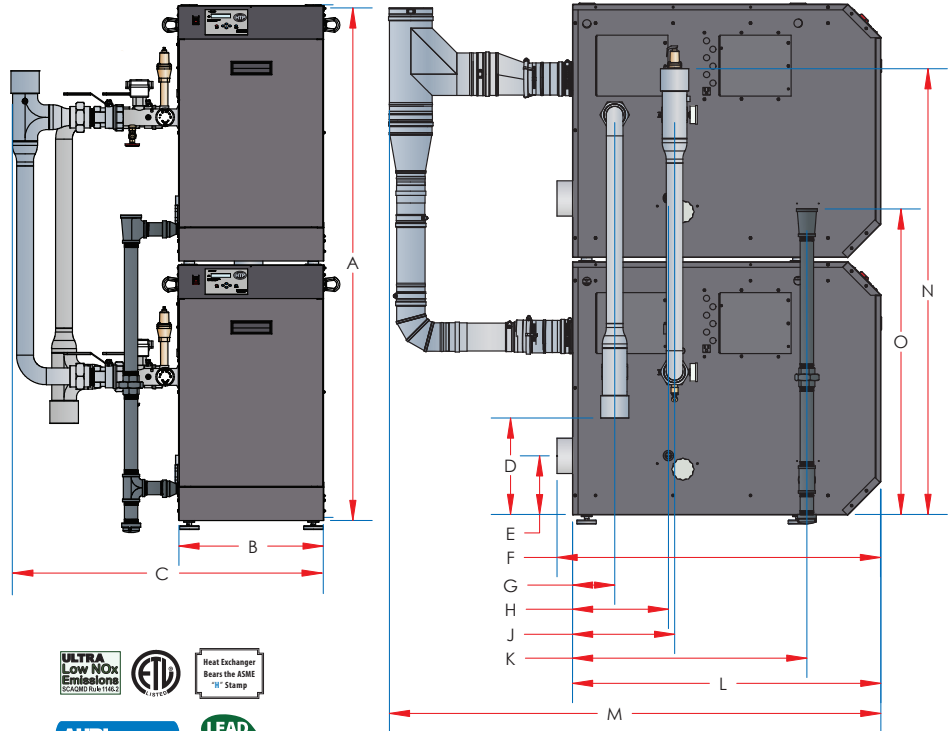
- Pressure and Temperature Gauge
- Pressure Relief Valve
- Intake PVC Tee with Screens
- Exhaust PVC Coupling with Screens
- Supply and Return Thermistors
- Flow Switch and Fitting
- Wiring Harness
- System/Pipe Sensor
- Installation Manual
- Warranty
- CSD-1 Form
- H-3 Data Sheet

MOD CON VWH DIMENSIONS							
MODEL*	A	B	C	D	E	F	G
MOD CON 500 VWH	20"	14.75"	6.25"	13.25"	14.5"	46"	36"
MOD CON 700 VWH	20"	20"	6.25"	16.25"	18.75"	68.5"	36"
MOD CON 850 VWH	20"	20"	6.25"	16.25"	18.75"	68.5"	36"

Mod Con VWH: Width = 20.5"

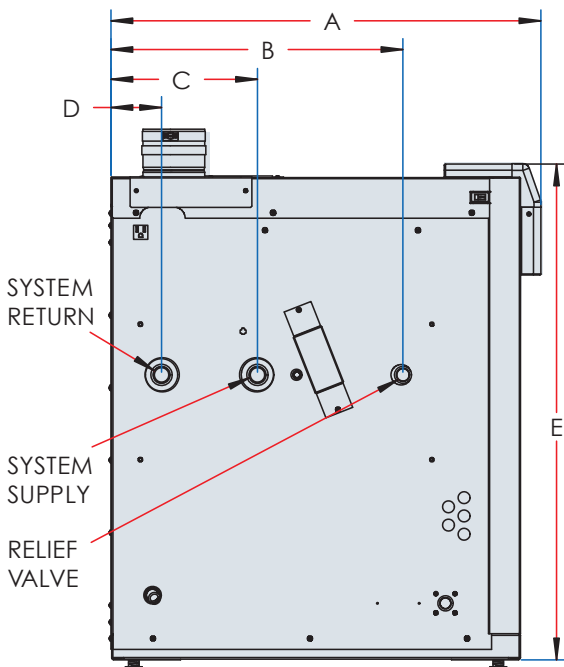


Mod Con Double Stack VWH



MOD CON Double Stack VWH	A	B	C	D	E	F	G	H	J	K	L	M	N	O
ModCon DS VWH1000	72.5"	20.5"	45.5"	13.75"	8.375"	46"	6"	13.63"	14.5"	33.25"	43.75"	66.75"	63.25"	43.375"
ModConDS VWH 1700	72.5"	20.5"	45.5"	13.75"	8.375"	64.5"	8.25"	20"	18.75"	43.5"	62.375"	88.5"	63.25"	59"

Please note: all dimensions are approximate and heights do not include adjustable legs.



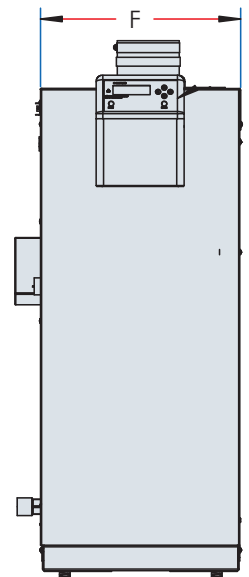
Elite Premier VWH

WHAT'S IN THE BOX

- Pressure & Temperature Gauge
- Indirect Tank Sensor
- Outdoor Sensor
- Pressure Relief Valve
- Outlet Combination Fitting
- Flow Switch and Paddles
- Installation Manual
- Warranty



ELITE PREMIER VWH DIMENSIONS						
MODEL	A	B	C	D	E	F
EP-220 VWH	26.5"	-	15.5"	6.0"	24.25"	14.5"
EP-299 VWH	24.75"	14.5"	7.38"	3.25"	36.5"	14.5"
EP-301 VWH	24.75"	14.5"	7.38"	3.25"	36.5"	14.5"
EP-399 VWH	31.75"	21.5"	10.75"	3.75"	36.5"	14.5"



HIGH EFFICIENCY **Crossover**



Residential & Commercial RGH Floor Water Heater

Fully Condensing
Achieves up to
95 % Efficiency

- Integrates the benefits of both storage & instantaneous concepts without sacrificing performance
- Compatible with recirculation systems
- Includes an ASSE 1017 domestic rated thermostatic valve (pre-piped) increasing 1st draw capacity & temperature control
- All stainless steel tank construction with integrated fire tube heat exchanger design
- Extra thick insulation in combination with a small water storage volume reduces standby loss (compared to conventional water heaters with similar hot water delivery performance)
- Preset for natural gas – ships with a liquid propane conversion kit
- Ultra low NOx emissions leave almost no carbon footprint
- High altitude compliant – certified up to 10,000 ft. above sea level

**Half the Storage and
Twice the Btuh Result in a
Recovery Rate that is
4 Times Faster than
Traditional Storage Units!**

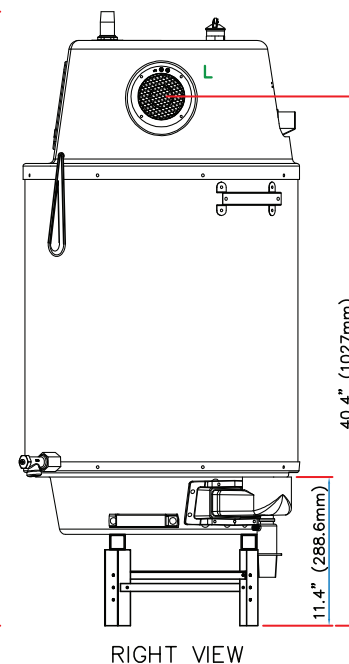
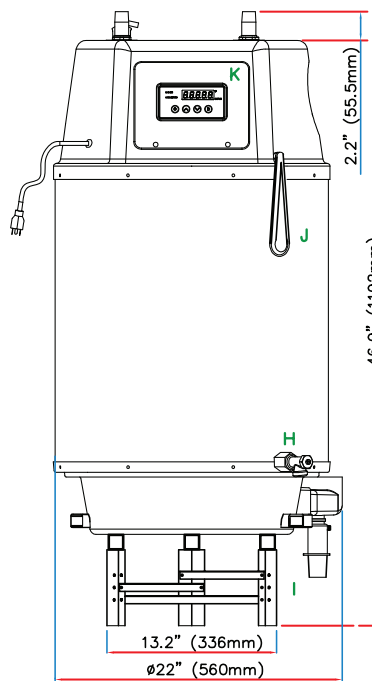
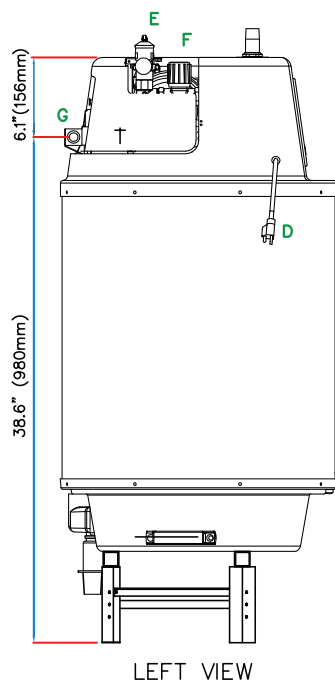
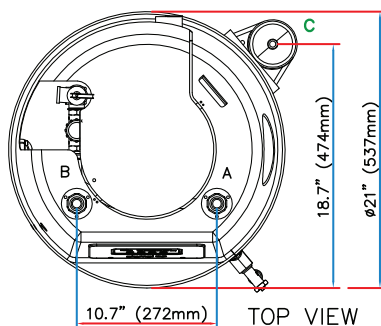


**Fighting the High Cost
of Water Heating!**



- A – Cold Water Inlet 3/4" Male NPT
- B – Hot Water Outlet 3/4" Male NPT
- C – 3" Exhaust
- D – Electric Cord
- E – T & P Valve
- F – Thermostatic Mixing Valve
- G – Gas Connection 1/2" or 3/4" Female NP
- H – Drain Valve
- I – Condensate System 1/2" Male NPT
- J – Tank Sensor
- K – Display Control
- L – 3" Air Intake

Dimensions for 20 Gallon Tank Units



Model		RGH20-75F	RGH20-76F	RGH20-100F*
Efficiency		UEF .88	UEF .89	TE 95% / UEF .87
Recovery Efficiency		99%	96%	99%
Nominal/DOE Rated Storage Volume		20 Gallon		
Installation		Indoor / Floor Standing		
Vent Run	3" PVC or Polypropylene	Up to 100ft, 8 Elbows Max (3" pipe) [3ft Deduction Per 45° Elbow] [5ft Deduction Per 90° Elbow]		
Condensate Discharge		2GPH		
Condensate pH Level		4 pH		
Gas Type		Preset for NG / LP Conversion Kit Included		
Unit Connections	Gas	1/2" or 3/4" Female NPT (3/4" by 1/2" Bushing Adapter Included)		
	Water	3/4" Male NPT		
	Electricity	Dedicated 120VAC, 60Hz w/3 Pronged 5 1/2 ft. Power Cord		
	Condensate	1/2" Male NPT Connection		
Gas Input Rate (Hourly)		37,500 -75,000 Btuh	38,000 -76,000 Btuh	50,000 -100,000 Btuh
Gas Supply Pressure - NG / LP		3.5"WC to 14"WC / 3.5"WC to 14"WC		
Ignition System		Spark Ignition, No Pilot		
Burner System		Single Orifice Premixed Fuel Injection Metal Fiber Infrared		
Gas Valve System		Air Ratio Negative Pressure		
First Hour Output @ 67°F / 90°F		120 Gal. / 108 Gal.	131 Gal. / 108 Gal.	NA / 130 Gal.
First Hour Rating Bin		High	High	NA
Tank Material		Stainless Steel		
Temperature Sensing		Inner Tank and Hot Outlet Discharge Pipe Sensors		
Domestic Temperature Control		Thermostatic Mixing Valve - ASSE 1017 Rated		
Domestic Temperature Settings Range		120°F Factory Preset / Adjust Knob 70°F to 145°F		
Tank Storage Temperature Settings		Normal 127°F / Hotter 147°F / High Output 165°F		
Unit Dimensions (D x H)		21" x 47"		
Unit Weight		110 lbs		
Safety Devices		T&P Valve, Vent Blockage APS, Flame Rod, Fan RPM Check, Eco Burner Plate (305° F), Eco Water Limit (194° F)		
Optional Accessories		3" Horizontal Terminal, Concentric Venting Kit, Condensate Neutralizer Kit		

* RGH20-100F has a Max GPM of 2.8, a Max GPM Rating Bin of Medium and is not Energy Star certified

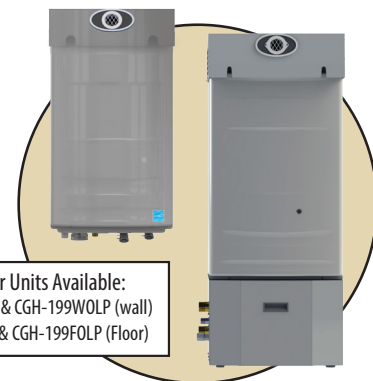
HIGH EFFICIENCY Crossover

Commercial Water Heater

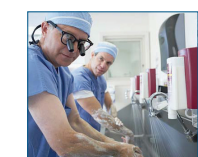


316L Stainless Steel Advanced hi-fin heat exchanger design for superior performance up to **95%** TE & up to **.92** UEF

- Advanced temperature Control - Endless DHW
- **10 : 1** turndown ratio
- The heating system fits into small spaces
- Eco-friendly and low NOx combustion system
- LP or natural gas
- Cascade up to **18** units providing system redundancy plus large turndown: up to **180 : 1**



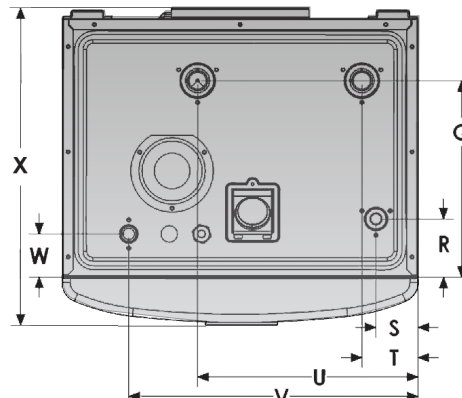
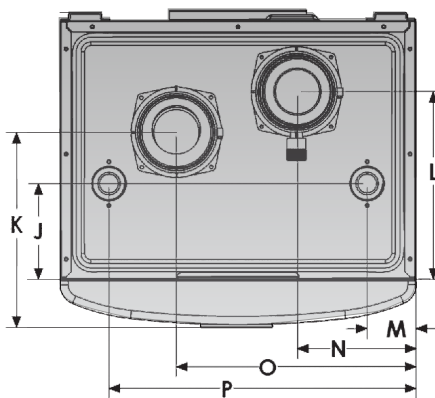
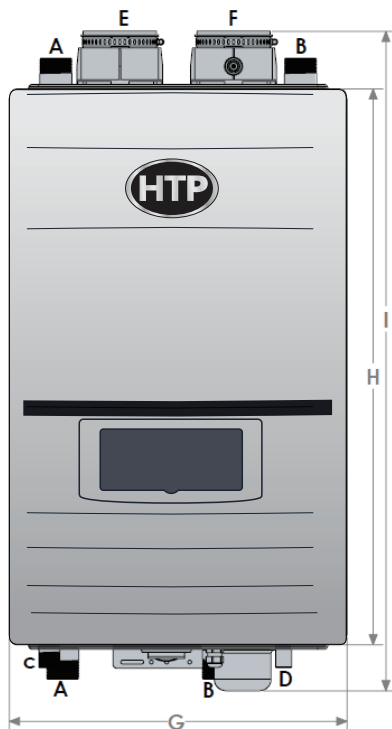
Outdoor Units Available:
CGH-199W0 & CGH-199W0LP (wall)
CGH-199F0 & CGH-199F0LP (Floor)



Many Commercial Applications
Large First Hour Rating



Very low pressure drop, requires only a small pump to provide maximum output (standard tankless require expensive large pumps)



	DESCRIPTION	DIAMETER
A	CH SUPPLY ADAPTERS	1-1/4" NPT
B	CH RETURN ADAPTERS	1-1/4" NPT
C	GAS CONNECTION ADAPTER	3/4" NPT
D	CONDENSATE DRAIN ADAPTER	1/2" NPT
E	AIR INTAKE PIPE CONNECTION	3"
F	EXHAUST PIPE CONNECTION	3"

MODEL	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
CGH-199	19.7	31.9	37	67	88	10.8	2.75	5.8	12.5	17.5	9.9	2.8	2.1	2.2	11.7	15.8	2.2	16.8

**"LP" Denotes Liquid Propane Units • An "O" after the "W" or "F" Denotes OUTDOOR Unit • "W" Denotes Wall Unit & "F" Denotes Floor Unit

MODEL		CGH-199W / CGH-199WO / CGH-199FO / CGH-199WLP / CGH-199WOLP / CGH-199FOLP*																
Installation		(Indoor or Outdoor Units) Fully Condensing (Wall Mounted & Floor Units)																
Minimum / Maximum Input (Btuh)		19,900 / 199,000																
UEF (Uniform Energy Factor) / Thermal Efficiency		.92 / 95%																
Recovery Efficiency		96%																
Hot Water Capacity	35°F Rise	11 GPM																
	45°F Rise	8.5 GPM																
	77°F Rise	5 GPM																
Domestic Temperature Setting Range		100° F to 160° F																
Weight (lbs)		100																
Flue System		Sealed Combustion Direct Vent; Power Vent																
Vent		2" (50 ft), 3" (100ft) Schedule 40 PVC, CPVC, PP																
Orifice Size	NG (Orifice/Needle)	.374" (8.3 mm)																
	LP (Orifice/Needle)	.240" (6.2 mm)																
Gas Supply Pressure	NG	3.5" to 14" WC																
	LP	3.5" to 14" WC																
Manifold Pressure	Min (3")	NG: 0.003" / LP: 0.004" WC																
	Max (3")	NG: -0.19" / LP: -0.20" WC																
Power Supply	Main Supply	120V 60Hz, 6A																
	Max Power Consumption	160W																
General Operating Conditions		Temperature Ambient Temperature Range: 33 – 104°F (0.6 – 40°C) Operating Relative Humidity: Up to 90% at 104°F (40°C) Shipping and Storage Temperature Range: -4 – 176°F (-20 – 80°C) Input Ratings Power Supply and Communication (CN4): 14V DC Product Approvals and Requirements EMC: 89/336/EEC - LVD: 73/23/EEC																
Ignition System		Direct Electric Ignition / Automatic Flame Sensing																
Burner System		Single Orifice Premixed Fuel Modulation / Ceramic Fiber Burner																
Gas Valve System		Air Ratio Valve																
Max GPM Rating Bin / Max GPM		High / 5.9																
Internal Pipe Material		Copper																
Dimensions (W x H x D)		W 19.7" – H 32" – D 17" (Wall Units)																
Heat Exchanger Water Capacity		Under 3.5 Gallons																
Control Panel/Main Controller		P-950CH / NGTH-10CH																
Water Pressure		Min 12 – Max 150 PSI																
Connection Sizes	Water inlet & Outlet Recirculation Inlet	1 1/4" NPT																
	Gas Inlet	3/4" NPT																
Materials	Cabinet	Cold Rolled Carbon Steel																
	Heat Exchange	316L Stainless Steel																
Safety Devices		Optical Flame Sensor, Burner Plate High Limit (392oF), Water Temperature High Limit Sensor (203oF), Freeze Protection (Three Stage Operation - Activates at 46oF – See Freeze Protection in Installer Menu for Details), Exhaust Temperature High Limit Sensor (190oF), Flue Air Pressure Switch, Condensate Switch, Built-In Low Water Cut-Off Probe																

HIGH EFFICIENCY Crossover



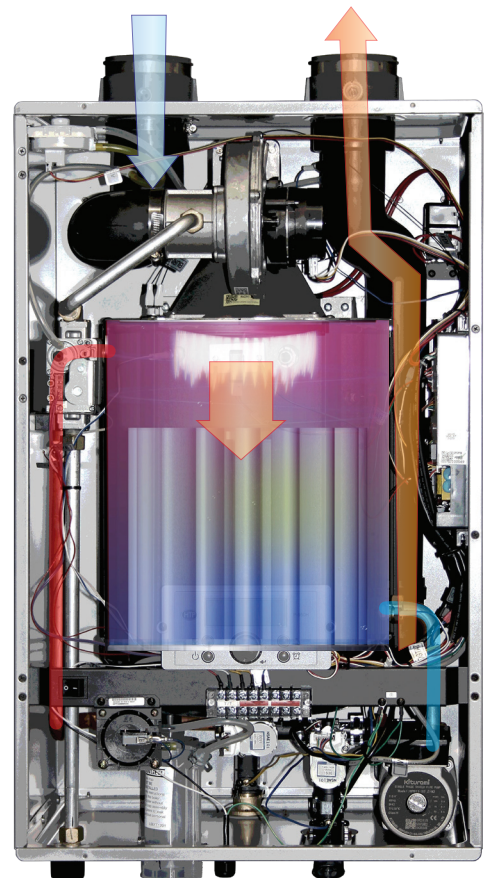
RGH-150 & RGH-199

The Best Features of Both a Tank & Tankless Water Heater Combined into 1 Superior Unit



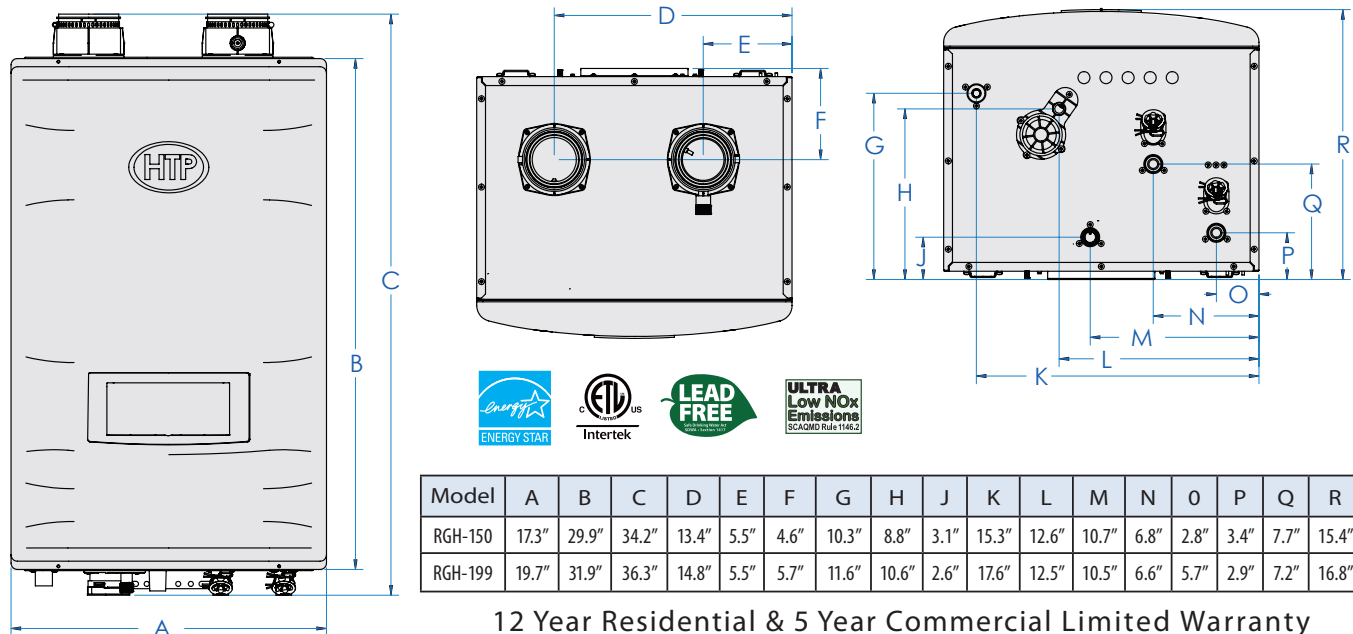
RGH Wall • Endless Hot Water

- Liquid propane or natural gas
- Durable **316L** stainless steel (w/up to 3.5 gallon) fire tube heat exchanger - Zero Flow Activation
- Up to **96%** thermal efficiency
- Up to **.94** UEF
- Internal & external recirculation modes: Pulse, Smart-Auto Learn & Time Sequenced
- **10:1** Turndown Ratio



The HTP Crossover operates with a self-sufficient counter flow design. The cold water enters at the bottom of the unit and travels upwards which aids in self-cleaning and reduces spontaneous bursts of cold water. Enjoy the benefits of a high efficiency unit without surrendering your need for endless hot water.





12 Year Residential & 5 Year Commercial Limited Warranty

*Add "LP" to end of Model Number for Liquid Propane Units • Model Numbers that have an "O" on the end are **OUTDOOR** units

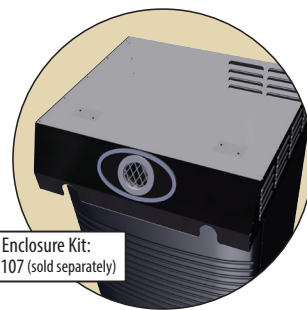
MODEL		RGH-150 / RGH-1500*	RGH-199 / RGH-1990*
Installation		(Indoor or Outdoor Units) Wall Hung, Fully Condensing	
Minimum / Maximum Input (Btuh)		15,000 / 150,000	19,900 / 199,000
DOE Rated Storage Volume		2.3 gallons	3.5 gallons
UEF (Uniform Energy Factor) / Thermal Efficiency		.94 / 95%	.92 / 96%
Recovery Efficiency		97%	95%
Max GPM Rating Bin / Max GPM		High / 4.4	High / 5.8
Hot Water Capacity	35°F Rise	8.2 Gal. Per Minute	11 Gal. Per Minute
	45°F Rise	6.4 Gal. Per Minute	8.5 Gal. Per Minute
	77°F Rise	3.7 Gal. Per Minute	5 Gal. Per Minute
Weight (lbs)		90	100
Flue System		Sealed Combustion Direct Vent; Power Vent	
Vent		2" (50 ft), 3" (100ft) Schedule 40 PVC, CPVC, PP	
Orifice Size	NG (Orifice/Needle)	.284" (7.2 mm)	.374" (8.3 mm)
	LP (Orifice/Needle)	.217" (5.5 mm)	.240" (6.2 mm)
Gas Supply Pressure	NG	3.5" to 14" WC	
	LP	3.5" to 14" WC	
Manifold Pressure	Min (3")	NG / LP: 0.006" WC	NG: 0.003" / LP: -0.04" WC
	Max (3")	NG / LP: -0.13" WC	NG: -0.19" / LP: -0.20" WC
Power Supply	Main Supply	120V 60Hz, 6A	
	Max power Consumption	72W (With Pump 100W)	
General Operating Conditions		Temperature Ambient Temperature Range: 33 – 104°F (0.6 – 40°C) Operating Relative Humidity: Up to 90% at 104°F (40°C) Shipping and Storage Temperature Range: -4 – 176°F (-20 – 80°C) Input Ratings Power Supply and Communication (CN4): 14V DC Product Approvals and Requirements EMC: 89/336/EEC - LVD: 73/23/EEC	
Ignition System		Direct Electric Ignition / Automatic Flame Sensing	
Burner System		Single Orifice Premixed Fuel Modulation / Ceramic Fiber Burner	
Gas Valve System		Air Ratio Valve	
Internal Pipe Material		Copper	
Dimensions (W x H x D)		W17.5" – H30" – D15.5"	W 19.7" – H 32" – D 16.3"
Heat Exchanger Water Capacity		Under 2.5 Gallons	Under 3.5 Gallons
Control Panel/Main Controller		P-950H / NGTH-10C	
Water Pressure		Min 12 – Max 150 PSI	
Connection Sizes	Water inlet & Outlet Recirculation Inlet	3/4" NPT	
	Gas Inlet	3/4" NPT	
Materials	Cabinet	Cold Rolled Carbon Steel	
	Heat Exchange	316L Stainless Steel	
Safety Devices		Optical Flame Sensor, Burner Plate High Limit (392°F), Water Temperature High Limit Sensor (203°F), Freeze Protection (Three Stage Operation - Activates at 46°F – See Freeze Protection in Installer Menu for Details), Exhaust Temperature High Limit Sensor (190°F), Blocked Flue and Intake Sensor, Condensate Switch, Built-In Low Water Cut-Off Probe	

Hydra Smart[®] Commercial-RTC

Condensing Gas Tankless Water Heater

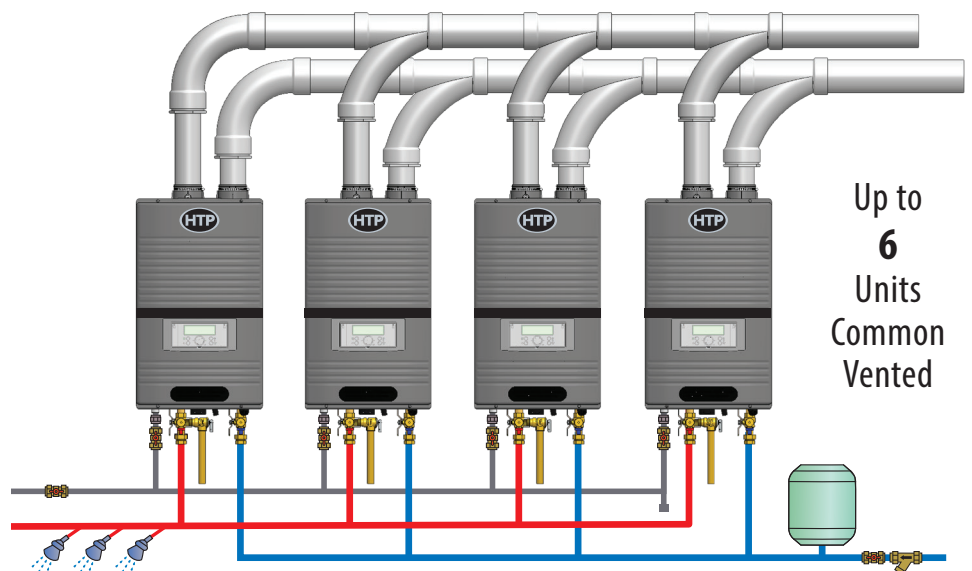


- **10 to 1** turndown ratio
- High temperature supply for sanitation
- Advanced modulating cascade control:
CASCADE up to **18** UNITS
- High grade stainless steel heat exchanger
Endless hot water: 11.0 gallon @ 35°F Rise
8.5 gallon @ 45°F Rise
- Available in liquid propane & natural gas
- Eco-friendly and low NOx combustion system
- High altitude compliant:
up to 10,000 ft. above sea level
- up to **.93 UEF**

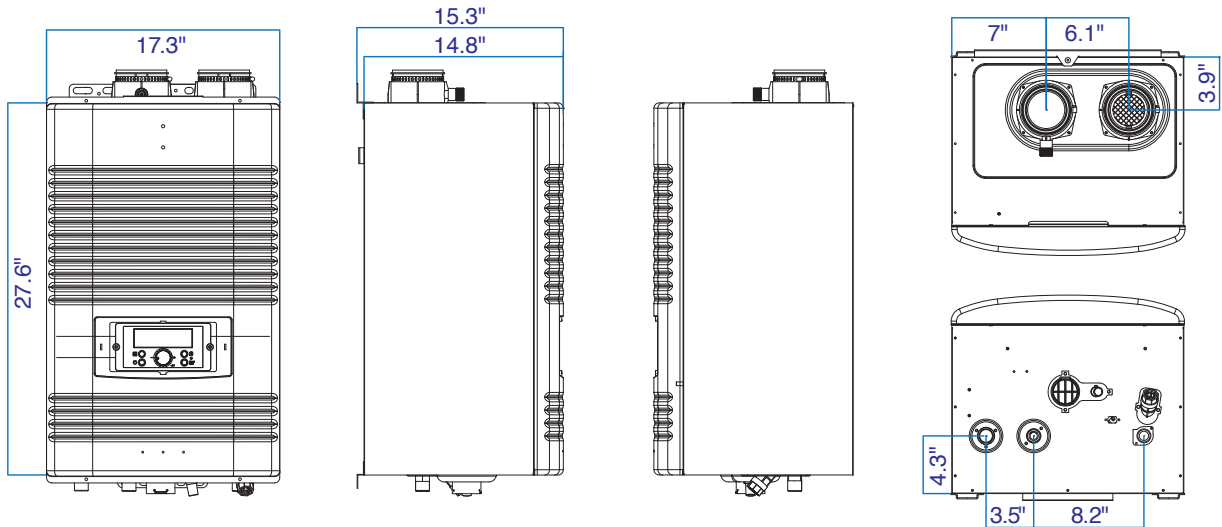


Outdoor Enclosure Kit:
Part# 7850P-107 (sold separately)

Commercial Applications



SPECIFICATIONS



*Must be ordered as LP units or Natural Gas units, NOT field convertible

MODEL		*RTC-199
Gas Input Rate	Max	199,000 Btuh
	Min	19,900 Btuh
UEF (Uniform Energy Factor) / EF (Energy Factor)		.93 UEF / .95 EF
Recovery Efficiency		96%
Max GPM Rating Bin / Max GPM		High / 5.8
Hot Water Capacity	35°F Rise	11.0 Gal. Per Minute
	45°F Rise	8.5 Gal. Per Minute
	77°F Rise	5.0 Gal. Per Minute
Installation		Indoor Wall Hung, Fully Condensing
Flue System		Sealed Combustion Direct Vent
Vent		2" (50 ft), 3" (100ft) Schedule 40 PVC, CPVC, PP
Orifice Size	NG (Orifice/Needle)	.374" (9.5 mm)
	LP (Orifice/Needle)	Consult Factory
Gas Supply Pressure	NG	3.5" WC ~ 14" WC
	LP	3.5" WC ~ 14" WC
Manifold Pressure	Min (3")	NG: -0.01" WC / LP: -0.05" WC
	Max (3")	NG: -0.11" WC / LP: -0.06" WC
Power Supply	Main Supply	120V 60Hz
	Max power Consumption	135W
Ignition System		Direct Electric Ignition / Automatic Flame Sensing
Burner System		Single Orifice Premixed Fuel Modulation Metal Fiber Infrared
Gas Valve System		Air Ratio Gas Valve
Minimum Flow Rate		0.5 GPM
Internal Pipe Material		Stainless Steel
Dimensions (W x H x D)		17.3" X 27.6" X 14.8"
Weight		88 lbs
Heat Exchanger Water Capacity		Under 2 Gallons
Control Panel/Main Controller		P-920C / GTH-9500C
Water Pressure	Max	Hot Water 150 psi
	Min	15 psi
Connection Sizes	(Cold/Hot) Water inlet/Outlet	3/4" NPT
	Gas Inlet	3/4" NPT
	Condensate	1/2" NPT
Materials	Cabinet	Cold Rolled Carbon Steel
	Heat Exchange	Primary Heat Exchanger: Stainless Steel Secondary Heat Exchanger: Stainless Steel
Safety Devices		Flame Rod, Burner Overheat Cut Off Device 302°F, Flue High Limit Switch 190°F, Water Temperature High Limit Switch 199°F, Freeze Protection Ceramic Heater (Turns on at 41°F, Turns off at 59°F)

5 Year Limited Warranty



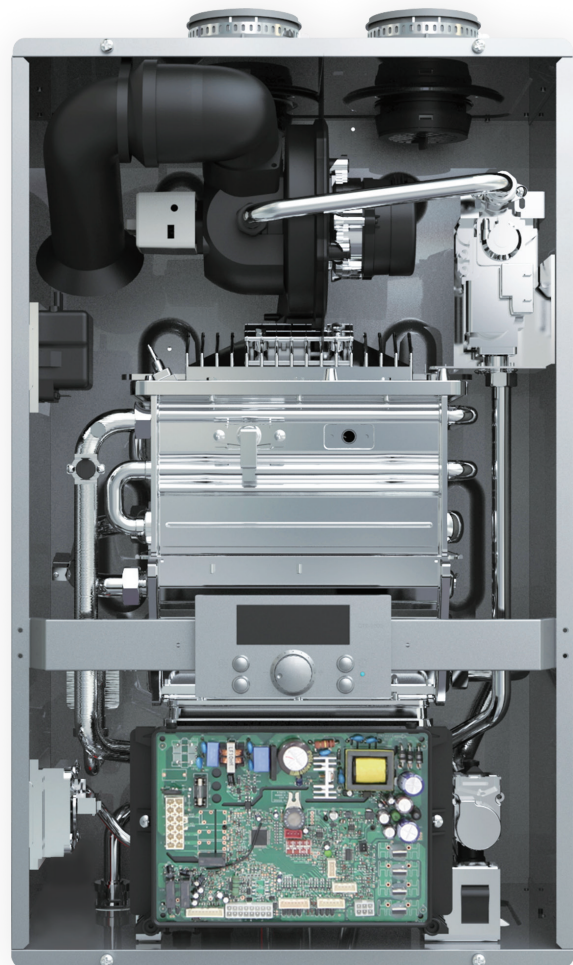
Hydra Smart[®] Residential-RT Condensing Gas Tankless Water Heater



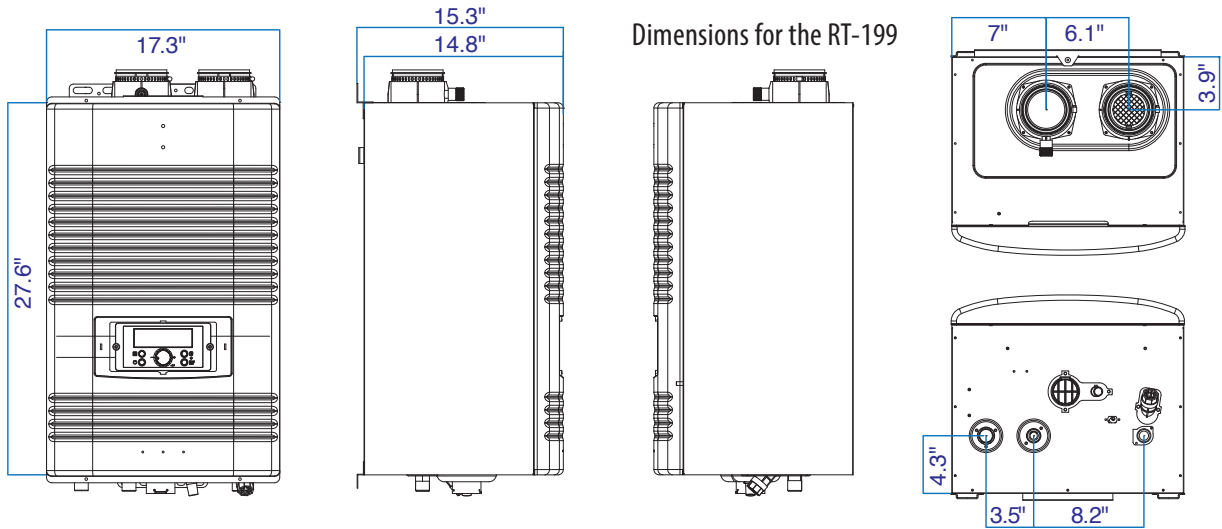
- **10 to 1** turndown ratio
- High grade stainless steel heat exchanger
- Endless hot water, advanced temperature control
- Advanced modulating water heater with up to **.96 UEF**
- High altitude compliant
- Eco-friendly & low NOx combustion system



Outdoor Unit Available:
RTO-150 / RTO-199



SPECIFICATIONS



Dimensions for the RT-199

*Must be ordered as LP units or Natural Gas units, NOT field convertible

MODEL		*RT-150 / RTO-150 (outdoor)	*RT-199 / RTO-199 (outdoor)
Gas Input Rate	Max	150,000 Btuh	199,000 Btuh
	Min	15,000 Btuh	19,900 Btuh
UEF (Uniform Energy Factor) / EF (Energy Factor)		.93 UEF / .95 EF	.96 UEF / .98 EF
Recovery Efficiency		95%	98%
Max GPM Rating Bin / Max GPM		High / 4.5	High / 5.9
Hot Water Capacity	35°F Rise	8.1 Gal. Per Minute	11.0 Gal. Per Minute
	45°F Rise	6.3 Gal. Per Minute	8.5 Gal. Per Minute
	77°F Rise	3.7 Gal. Per Minute	5.0 Gal. Per Minute
Installation		(Indoor or Outdoor Units) Wall Hung, Fully Condensing	
Flue System		Sealed Combustion Direct Vent, Power Vent	
Vent		2" (50 ft), 3" (100ft) Schedule 40 PVC, CPVC, PP	
Orifice Size	NG (Orifice/Needle)	.303" (7.7 mm)	.374" (9.5 mm)
	LP (Orifice/Needle)	Consult Factory	
Gas Supply Pressure	NG	3.5" WC ~ 14" WC	
	LP	3.5" WC ~ 14" WC	
Manifold Pressure	Min (3")	NG: -0.07" WC / LP: -0.07" WC	NG: -0.10" WC / LP: -0.05" WC
	Max (3")	NG: -0.366" WC / LP: -0.366" WC	NG: -0.11" WC / LP: -0.06" WC
Power Supply	Main Supply	120V 60Hz	
	Max power Consumption	125W	135W
Ignition System		Direct Electric Ignition / Automatic Flame Sensing	
Burner System		Single Orifice Premixed Fuel Modulation Metal Fiber Infrared	
Gas Valve System		Air Ratio Gas Valve	
Minimum Flow Rate		0.5 GPM	
Internal Pipe Material		Stainless Steel	
Dimensions (W x H x D)		17.3" X 27.6" X 12.6"	17.3" X 27.6" X 14.8"
Weight		64 lbs	88 lbs
Heat Exchanger Water Capacity		Under 2 Gallons	
Control Panel/Main Controller		P-920C / NGTH-8000C	P-920C / GTH-9500C
Water Pressure	Max	150 psi	
	Min	15 psi	
Connection Sizes	(Cold/Hot) Water inlet/Outlet	3/4" NPT	
	Gas Inlet	3/4" NPT	
	Condensate	1/2" NPT	
Materials	Cabinet	Cold Rolled Carbon Steel	
	Heat Exchange	Primary Heat Exchanger: Stainless Steel Secondary Heat Exchanger: Stainless Steel	
Safety Devices		Flame Rod, Burner Overheat Cut Off Device 302°F, Flue High Limit Switch 190°F, Water Temperature High Limit Switch 199°F, Freeze Protection Ceramic Heater (Turns on at 41°F, Turns off at 59°F), Water Leak Detect Sensor (RT-150)	

12 Year Residential & 5 Year Commercial Limited Warranty



EVERLAST®

Electric Tankless Water Heaters Whole Home

Hot Water on Demand



Water Savings

Instant hot water upon demand! No water is wasted while one is waiting for hot water to arrive from the tank.

Installation is a Breeze

All that is required is a cold water line and an electrical connection to install this water heater at the sink.

Point of Use Units

Space saving compact design. Eliminates the need for a recirculation line. Great for remote locations.

Up to 50% Energy Saving

Energy is activated only when hot water is used. Unlimited hot water supply - No energy is wasted keeping stored water hot.

Compact Size, High Performance

Endless hot water wherever you need it.

Intelligent Modulating Power Control

The smart control logic allows setting the desired temperature on the user-friendly digital display. The unit will ensure steady output temperature by automatically adjusting the power as flow varies

Whole Home Units

Powerful enough to supply endless, hot water for your entire home, all in a highly efficient compact unit.

Long Lasting

The selection of materials is the secret behind the durability of these water heaters. The heating elements are made of dependable TITANIUM which are great for resisting corrosion.



TITANIUM ELEMENT
Long Lasting Titanium Element Installed



DIGITAL DISPLAY
A Simple Quality Digital Display
That is Easy to Use



CONSTANT TEMPERATURE
Ensures Comfort Delivering a
Constant Temperature Water Flow
Whenever and Wherever You Want

Model	*Wattage (kW)	Max Amperage	Required Breaker(s)	Required Wire Size	
EVIWH18-240	18	75	3 x 30A Double Pole	3 x 10 AWG w/ Ground	
EVIWH27-240	27	112.5	3 x 40A Double Pole	3 x 8 AWG w/ Ground	
EVIWH36-240	36	150	4 x 40A Double Pole	4 x 8 AWG w/ Ground	
Technical Data		All Models			
Minimum Water Flow to Activate Unit		0.5 gpm			
Working Pressure		7 - 150 psi (0.5 - 10 bar)			
Tested Pressure		290 psi (20 bar)			
Water Connections		3/4" NPT			
Elements	18 - 27kW	2			
	36kW	3			
Dimensions	18 - 27kW	20.7" (526 mm) Width x 13.3" (339 mm) Height x 4.5" (114 mm) Depth			
	36kW	25" (636 mm) Width x 13.3" (339 mm) Height x 4.5" (114 mm) Depth			
Weight (Empty)	18 - 27kW	12.17 lb (5.52 kg)			
	36kW	16.23 lb (7.36 kg)			
Temperature Range		86 - 122°F (30 - 50°C)			
Temperature Rise Δt (°F)		Flow Rate (GPM)			
		18kW	24kW	27kW	36kW
35		3.51	4.68	5.26	7.02
45		2.73	3.64	4.09	5.46
77		1.59	2.12	2.39	3.19

*Wattage based on max voltage

EVERLAST®

Electric Tankless Water Heaters Single & Multipoint

Hot Water on Demand



Water Savings

Instant hot water upon demand! No water is wasted while one is waiting for hot water to arrive from the tank.

Installation is a Breeze

All that is required is a cold water line and an electrical connection to install this water heater at the sink.

Point of Use Units

Space saving compact design. Eliminates the need for a recirculation line. Great for remote locations.

Up to 50% Energy Saving

Energy is activated only when hot water is used. Unlimited hot water supply - No energy is wasted keeping stored water hot.

Compact Size, High Performance

Endless hot water wherever you need it.

Up to 50% Energy Saving

Energy is activated only when hot water is used. Unlimited hot water supply - No energy is wasted keeping stored water hot.



MULTIPOINT

Single Point of Use or Multipoint Use - No Recirculation Line Needed with Endless Hot Water Near the Tap



SAVE ENERGY & SPACE

Highly Efficient - Save Both Energy & Money - Energy is Not Wasted Keeping Stored Water Hot - Saves Space



EASY INSTALLATION

Quick & Simple Installation You Will Love How Easy it is, Saves You Time



6 YEAR WARRANTY

Durable Heater with a Strong Limited 6 Year Warranty

BENEFITS OF ELECTRIC TANKLESS WATER HEATERS

SAVE



MONEY



TIME



WATER



ENERGY

Model	Watts (kW)	Voltage	Amperage	Phase	Circuit Breaker Size	Required Wire Size
EVISP3-110CP	3.1-3.5	110/120	28/29	1	1 x 30	10 AWG
EVISP 6.5-240	6.5	240	27		1 x 30	
EVISP 10.5-240	10.5		44		1 x 50	6 AWG
EVISP 13-240	13		54		1 x 60	4 AWG

Technical Data		All Models	
Minimum Water Flow to Activate Unit		0.55 gpm	
Working Pressure		7 - 115 psi (0.5 - 8 bar)	
Tested Pressure		230 psi (16 bar)	
Water Connections		1/2" NPT	
Elements		1	
Dimensions		12" (304 mm) Width x 7" (178 mm) Height x 3.85" (98 mm) Depth	
Weight (Empty)		3.4 lb (1.54 kg)	
Temperature Range		90 - 131°F (30 - 55°C)	

*Wattage (kW)	110V	120V	208V	240V
3	3.1kW	3.5kW	-	-
6.5	-	-	4.9kW	6.5kW
8.5			6.4kW	8.5kW
10.5			7.9kW	10.5kW
13			9.8kW	13.0kW

Temperature Rise Δt (°F)	Flow Rate (GPM)				
	3kW	6.5kW	8.5kW	10.5kW	13kW
35	0.59	1.26	1.65	2.04	2.53
45	0.45	0.98	1.28	1.59	1.97
77	0.26	0.57	0.75	0.93	1.15

*Wattage based on max voltage

EVERLAST[®]

MEDIUM DUTY - 3 ELEMENT COMMERCIAL

316 L Stainless Steel Electric Water Heater

Three tank capacities offered in
80, 100 & 115 gallon sizes

Multiple wiring configurations for
installation versatility, to meet any
job requirement

Terminal block for ease of field wiring

Internally fused for added
protection

Durable steel enclosure - hinged
cover provides easy access to
internal fuses and wiring

3 TITANIUM ELEMENTS

provide additional capacity for
longer continuous operation
and quicker recovery between
hot water draws

Limited 10 Year Warranty

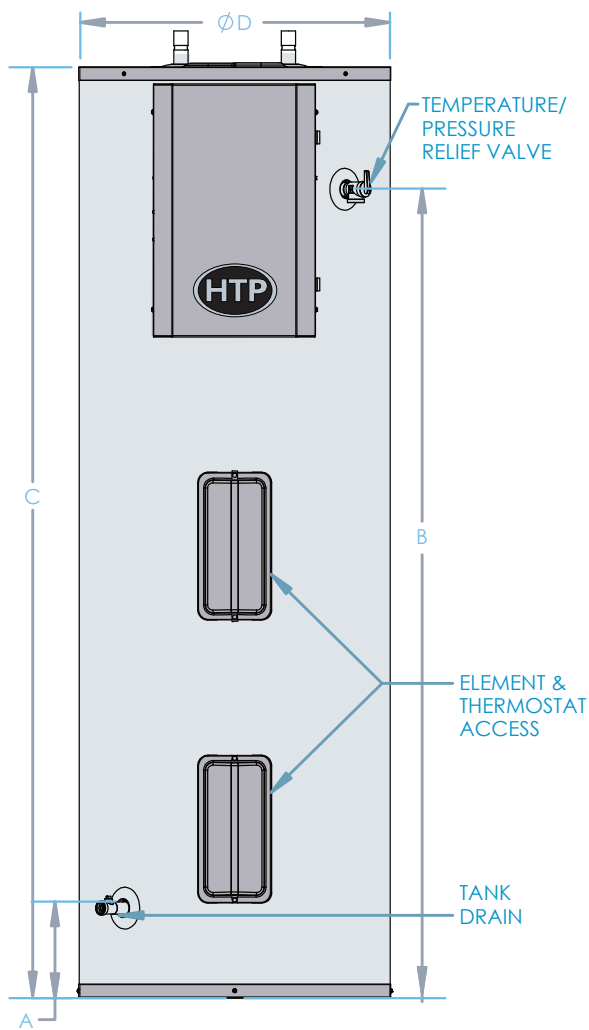
with online registration,
5 years if not registered



DUAL PORT LOCATIONS

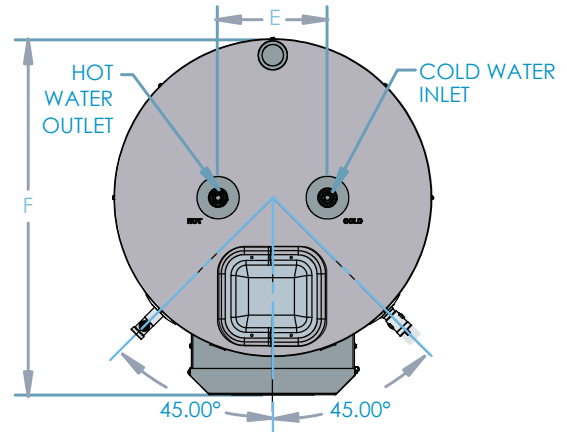


**NO ANODE
RODS NEEDED**
RESISTS
SCALE BUILD UP
**LIGHT
WEIGHT**



Specifications

The Inlet & Outlet have Built in Heat Traps, Keeping the Heat in the Tank for Greater Efficiency



Specifications and Dimensions											Water Temperature Ratings		
Models	Volts/ Watts	Gal.	A	B	C	D	E	F	Hot / Cold Inlets	Shipping Weight (Est.)	Minimum Delivered Temp.	Maximum Delivered Temp.	High Temp. Limit
EVC080C3W135	240/13,500	80	6.5"	60"	69"	23.25"	8"	26"	3/4" NPT	165 lbs	135°F 57.2°C	181°F 82.8°C	200°F 93.3°C
EVC080C3W165	240/16,500												
EVC080D3W180	277/18,000												
EVC080E3W180	480/18,000												
EVC100C3W135	240/13,500	100	7.25"	52"	61"	27"		30"		220 lbs			
EVC100C3W165	240/16,500												
EVC0100D3W180	277/18,000												
EVC0100E3W180	480/18,000												
EVC115C3W135	240/13,500	115	7.25"	60"	69"	27"			240 lbs				
EVC115C3W165	240/16,500												
EVC115D3W180	277/18,000												
EVC115E3W180	480/18,000												

Optional Element Kits (Sold Separately)					
Gallons	Input (watts)	208v	240v	277v	480v
80 100 115	12,500	B3W125	NO	NO	NO
	13,500	B3W135	C3W135 (standard)		E3W135
	14,000	NO	NO	D3W140	NO
	15,000		C3W150	D3W150	E3W150
	16,000		NO	D3W160	NO
	16,500		C3W165 (standard)	NO	E3W165
	18,000		NO	D3W180 (standard)	E3W180 (standard)

EVERLAST[®]

MEDIUM DUTY COMMERCIAL

316L Stainless Steel Electric Water Heater

Single or 3 Phase
Operation

3 Models:
30, 40 &
50 Gallons



NO ANODE
RODS NEEDED
EXCLUSIVE TITANIUM
LOW-DENSITY
HEATING ELEMENTS
LIGHTWEIGHT
RESISTS SCALE
BUILD-UP

Standard: 240 volt, three phase,
non-simultaneous (unbalanced)
configuration with two 4500W elements
(available in other configurations)

Water heaters can be converted to
single phase and/or simultaneous
operation in the field

Top inlet with dip tube directs cold
water to the bottom of the tank,
minimizing the mixing of cold and
heated water and providing long
draws of hot water

3/4" inlet and outlet nipples
constructed of durable brass

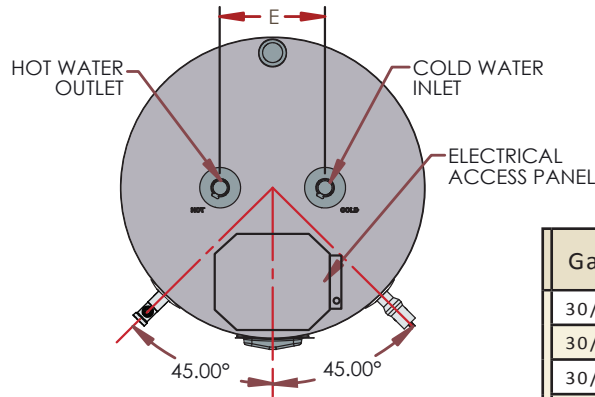
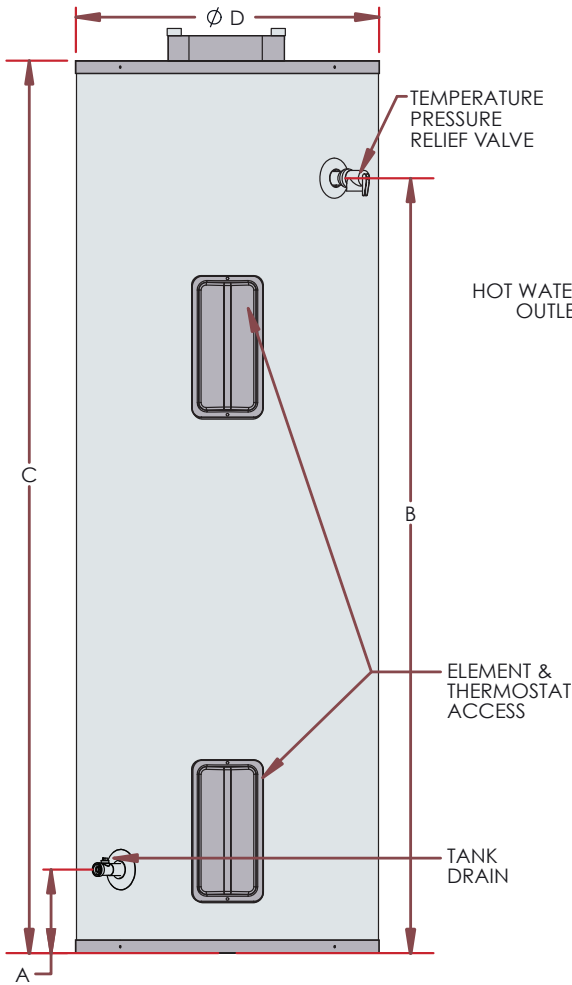
Adjustable temperature up to **181°F**



Product Ships with 2 Long Lasting
Titanium Elements Installed

Specifications & Dimensions

The Inlet & Outlet have Built in Heat Traps,
Keeping the Heat in the Tank for Greater Efficiency



Limited 10 Year Warranty

(with online registration)

Gallons	Watts	Recovery at 90° F Rise	First Hour Rating
30/40/50	6,000	27	48/55/62
30/40/50	9,000	41	62/69/76
30/40/50	10,000	46	67/74/81
30/40/50	12,000	55	76/83/90

MODEL NUMBERS

Everlast
Commercial Electric Stainless

EVC020

Volume In Gallons

ELEMENT ORDERING INFORMATION

Rated Voltage

A = 120
B = 208
C = 240

Input Rating

(100's of Watts)

C2X030N

Element Construction
N = Stainless Steel
Screw-In

Number of Elements

Phase/Operation
X = Single Phase - Non-Sim
W = Single Phase - Sim
T = 3 Phase

Specifications and Dimensions (3 Phase Option)								Water Temperature Ratings			
Models	Gal.	A	B	C	D	E	Shipping Weight Est.	Hot/Cold Water Inlets	Minimum Delivered Temp.	Maximum Delivered Temp.	High Temp. Limit
EVC030C2T045	30	6"	34"	42.25"	19.5"	8"	89 lbs	3/4" NPT	135°F 57.2°C	181°F 82.8°C	200°F 93.3°C
EVC040C2T045	40	6"	46"	54.5"	19.5"		104 lbs				
EVC050C2T045	50	6"	58"	66.5"	19.5"		118 lbs				

Field Conversion Kits are Available for Commercial Units to Field Convert the Element Wattage/Voltage Rating

Gallons	# Elements and Thermostats	Non-Simultaneous	Simultaneous	120	208	240	277	480
30 40 & 50	2	3,000	6,000	NO	B2W060N	C2W060N	NO	E2W060N
		3,500	7,000		B2W070N	C2W070N		NO
		4,000	8,000		B2W080N	C2W080N		E2W080N
		4,500	9,000		B2W090N	C2W090N	D2W090N	E2W090N
		5,000	10,000		B2W100N	C2W100N	D2W100N	E2W100N
		5,500	11,000		NO	C2W110N	D2W110N	E2W110N
		6,000	12,000			C2W120N	D2W120N	E2W120N

Input Wattage	Single and Three Phase Non-Simultaneous Operation			
	208 Volts	240 Volts	277 Volts	480 Volts
3,000	14.4	12.5	12	6.3
4,000	19.9	16.7	14.4	8.3
4,500	21.6	18.8	16.8	9.4
5,000	-	20.8	18	10.4
5,500	-	22.9	19.2	11.5
6,000	-	25	21.6	12.5

AMPERAGES

Input Wattage	Simultaneous Operation							
	208 Volts		240 Volts		277 Volts		480 Volts	
	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase	Three Phase
6,000	28.9	25	25	21.6	24.1	20.8	12.5	10.8
8,000	39.7	34.4	33.3	28.8	28.9	25	16.7	14.4
9,000	43.3	37.4	37.5	32.4	33.7	29.1	18.8	16.2
10,000	-	-	41.7	36	36.1	31.2	20.8	18
11,000	-	-	45.8	39.7	38.5	33.3	22.9	19.8
12,000	-	-	49.9	43.2	43.3	37.4	25	21.7

Commercial



EVERLAST[®]

LIGHT DUTY COMMERCIAL

Stainless Steel Electric Water Heater

NO ANODE RODS NEEDED

LIGHTWEIGHT

DUAL PORT LOCATIONS



LIMITED **LIFETIME** COMMERCIAL WARRANTY
(When registered online)

316L STAINLESS STEEL Provides the finest protection against harsh water condition

The tank has minimal heat loss, thanks to heavy duty foam insulation

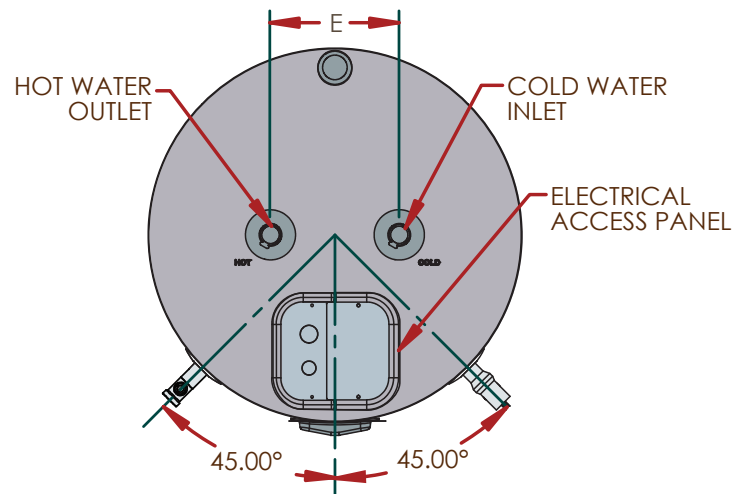
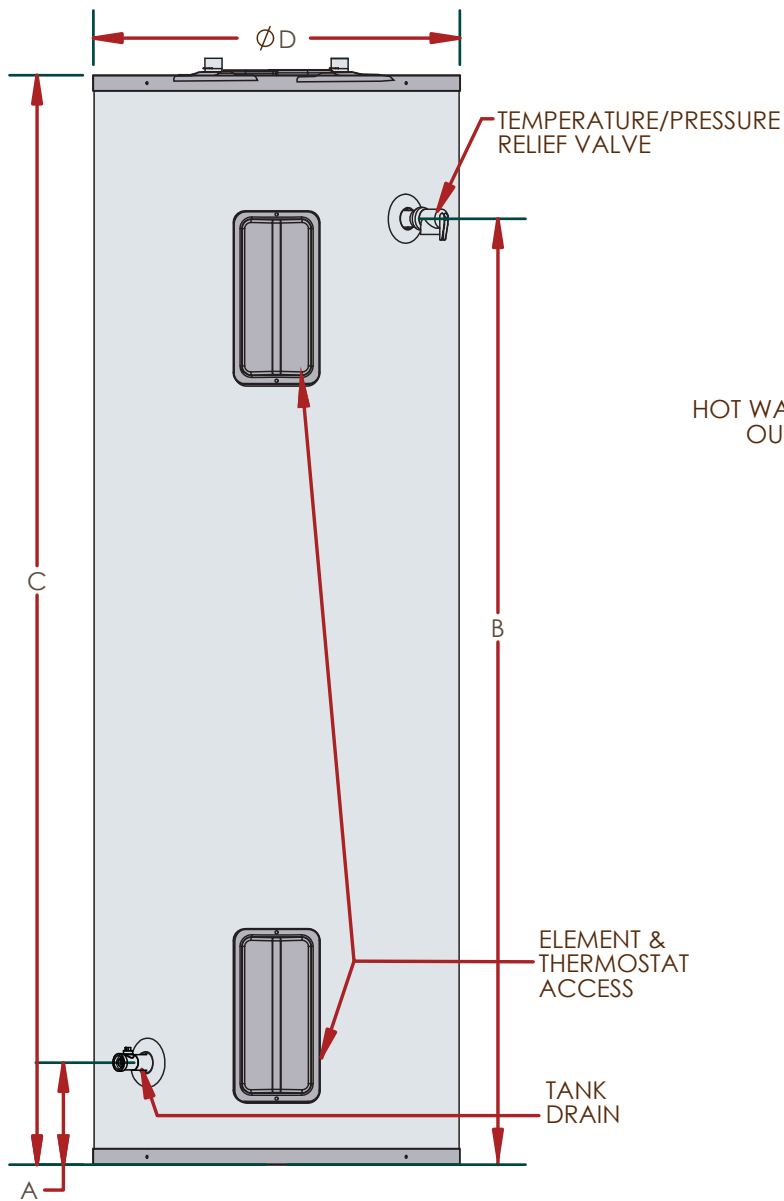
Dip tube directs cold water to the heating element near the bottom of the tank, minimizing the mixing of cold water and providing long draws of hot water

High quality titanium elements (standard input) with low watt density reduce the chance of element burn out and provide longer service life versus conventional elements

**NO ANODE
RODS NEEDED**
EXCLUSIVE TITANIUM
LOW-DENSITY
HEATING ELEMENTS
LIGHTWEIGHT
RESISTS SCALE
BUILD-UP



Dimensions & Specifications



The Inlet & Outlet have Built in Heat Traps, Keeping the Heat in the Tank for Greater Efficiency

SPECIFICATIONS AND DIMENSIONS								WATER TEMPERATURE RATINGS		
Light Commercial Models	Gal.	A	B	C	D	E	Hot / Cold Inlets	Minimum Delivered Temp.	Maximum Delivered Temp.	High Temp. Limit
EVC080C2X045	80	6.5"	60"	69"	23.25"	8"	3/4" NPT	120°F 48.8°C	181°F 82.8°C	200°F 93.3°C
EVC080C2X055										
EVC100C2X045	100	7.25"	52"	61"	27"					
EVC100C2X055										
EVC115C2X045	115	7.25"	60.25	70.5"	27"					
EVC115C2X055										

Light Commercial Models	Wattage	Voltage	Safety Listing	First Hour Delivery	Recovery @ 90° F Rise	Thermal Efficiency	Shipping Weight
EVC080C2X045	4500	240	UL1453	84 Gallons	20 Gallons	98%	151 lbs
EVC080C2X055	5500			89 Gallons	25 Gallons		
EVC100C2X045	4500	240		87 Gallons	20 Gallons	98%	206 lbs
EVC100C2X055	5500			92 Gallons	25 Gallons		
EVC115C2X045	4500	240		105 Gallons	20 Gallons	98%	224 lbs
EVC115C2X055	5500			110 Gallons	25 Gallons		

Heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring.

EVERLAST[®]

RESIDENTIAL

Stainless Steel Electric Water Heater



Limited **8 Year**, **12 Year** or **LIFETIME** Residential Warranty Options (When registered online)

316L STAINLESS STEEL Provides the finest protection against harsh water condition

The tank has minimal heat loss, thanks to heavy duty foam insulation

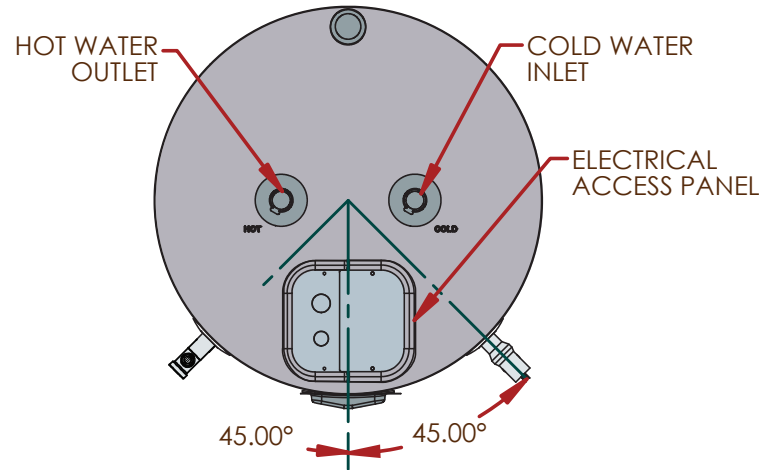
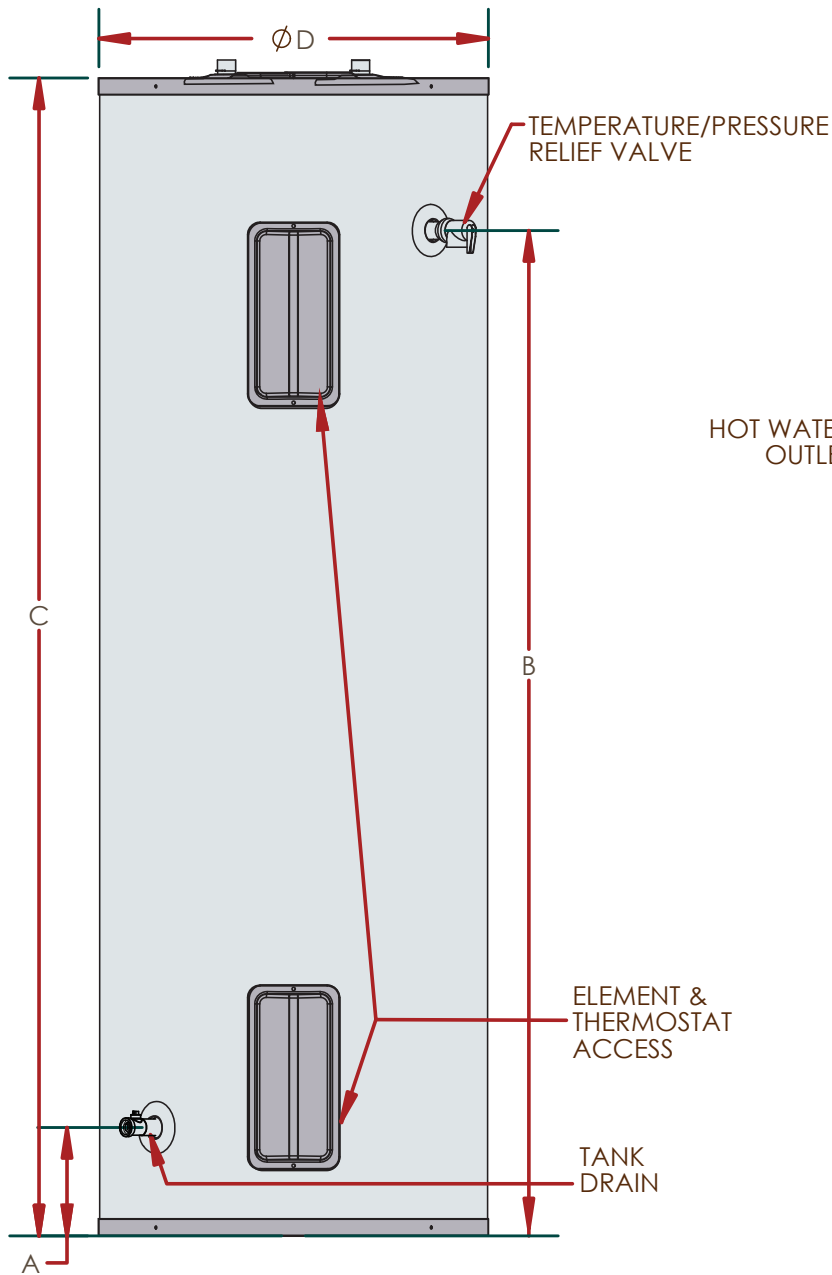
Directs cold water to the heating element near the bottom of the tank and minimizes mixing of cold water providing long draws of hot water

High quality titanium elements (standard input) with low watt density reduces chances of element burn out and provides longer service life versus conventional elements

NO ANODE
RODS NEEDED
EXCLUSIVE TITANIUM
LOW-DENSITY
HEATING ELEMENTS
LIGHTWEIGHT
RESISTS SCALE
BUILD-UP



Dimensions & Specifications



The Inlet & Outlet have Built in Heat Traps, Keeping the Heat in the Tank for Greater Efficiency

SPECIFICATIONS AND DIMENSIONS							WATER TEMPERATURE RATINGS		
Models	Nominal Gallon	DOE Rated Storage Vol. (Gal)	A	B	C	D	Minimum Delivered Temp.	Maximum Delivered Temp.	High Temp. Limit
EVR040C2X045*	40	39	5.75"	46"	54.25"	19.5"	110°F 43.3°C	150°F 65.5°C	170°F 76.6°C
EVR040C2X055*									
EVR052C2X045*	52	48	5.75"	58.25"	66.75"	19.5"			
EVR052C2X055*									

Residential Models	Wattage	Voltage	Safety Listing	AHRI First Hour Rating	First Hour Bin	Recovery Efficiency	Recovery @ 90° F Rise	UEF/EF	Shipping Weight
EVR040C2X045*	4500	240	UL174	58 Gallons	Medium	98%	20 Gallons	.94 /.95	104 lbs
EVR040C2X055*	5500			58 Gallons			25 Gallons		
EVR052C2X045*	4500	240		62 Gallons	Medium	98%	20 Gallons	.93 /.94	118 lbs
EVR052C2X055*	5500			62 Gallons			25 Gallons		

* Add a "N08" or a "N12" to the end of the model number for 8 and 12 year warranty options.

Energy Factor based on D.O.E. (Department of Energy) test procedures. Heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring.

EVERLAST[®]

Point of Use

Residential Stainless Steel **Electric** Water Heater

Single Phase
Operation

3 Models:
10, 15 & 20 Gal.

Adjustable temperature up to **150°F**

Outlet connection on the top of
the tank or on the side of the tank

Laser welded **316L** stainless steel tank

Minimal heat loss: heavy duty insulation

Highest quality TITANIUM element with low
watt density provides longer element life

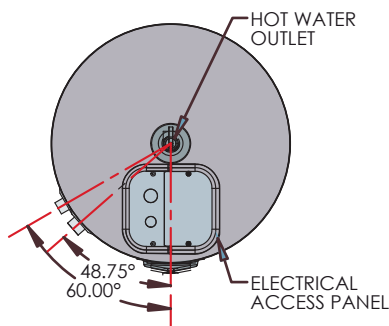
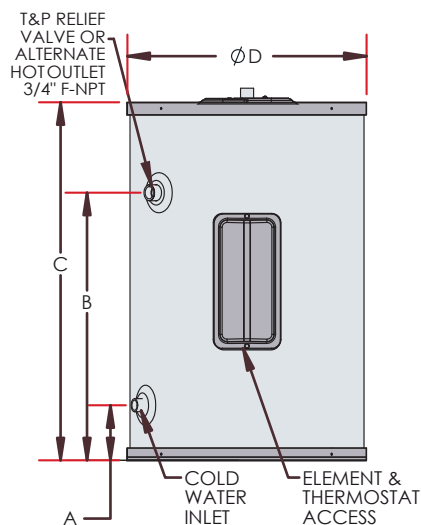
These units are ETL listed and comply with UL-174

Meets or exceeds National Appliance Energy
Conservation Act (NAECA) requirements



10 YEAR WARRANTY
(with online registration)

Product Ships with a High Quality
Titanium Element Installed



Specifications and Dimensions							Element Watt	Recovery @ 90°F Rise Gallons Per Hour	Water Temperature Ratings			Energy Info.	Approx. Shipping Weight
Models	Gal.	A	B	C	D	Hot/Cold Water Inlets	Standard 120V		Minimum Delivered Temp.	Maximum Delivered Temp.	High Temp. Limit	UEF	
EVR010A1X014N10	10	4.5"	10.25"	17.5"	19.5"	3/4" NPT	1,440	7	90° F 32.2°C	150° F 65.5°C	170° F 76.6°C	.91	42 lbs
EVR010A1X020N10							2,000	9					
EVR015A1X014N10	15	4.5"	16.25"	23.5"	19.5"		1,440	7				.92	46 lbs
EVR015A1X020N10							2,000	9					
EVR020A1X014N10	20	4.5"	21.75"	29"	19.5"		1,440	7				.92	50 lbs
EVR020A1X020N10							2,000	9					

IN THE BOX

- T & P Relief Valve
- Installation Manual
- Combination Inlet and Drain Valve
- 3/4" Brass Nipple with Heat Trap

EVERLAST[®] Point of Use

Commercial Stainless Steel Electric Water Heater

Single Phase
Operation
Field Convertible
3 Models:
10, 15 & 20 Gal.

Adjustable temperature up to **180°F**

Outlet connection on the top of
the tank or on the side of the tank

Laser welded **316L** stainless steel tank

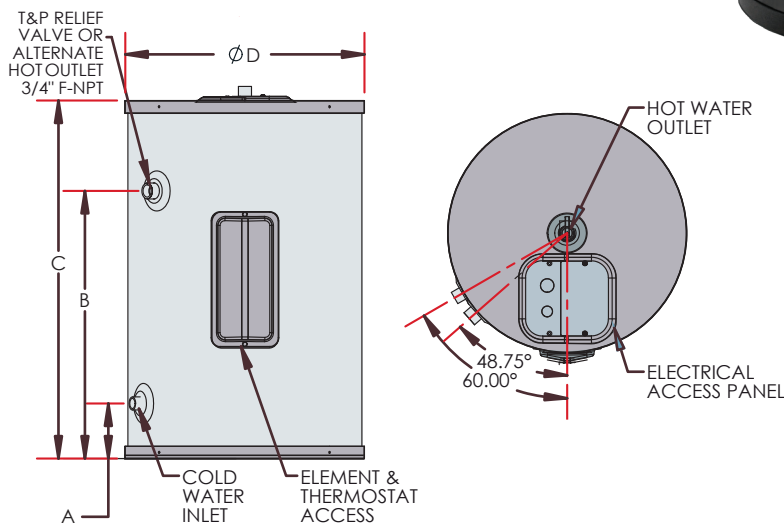
Minimal heat loss: heavy duty insulation

Highest quality **TITANIUM** element with low
watt density provides longer element life

These units are ETL listed and comply with
UL-1453 as a commercial electric water heater



**NO ANODE
RODS NEEDED
RESISTS
SCALE BUILD-UP
LIGHT-
WEIGHT**



Field Conversion Kits

Gal.	Available Wattage	Voltage (and Element Part #) - 1 Element				
		120	208	240	277	480
10	1,500	A1X015N	B1X015N	C1X015N	D1X015N	-
	2,000	A1X020N	B1X020N	C1X020N	D1X020N	-
	2,500	A1X025N	B1X025N	C1X025N	D1X025N	-
15	3,000	A1X030N	B1X030N	C1X030N	D1X030N	-
	3,500	-	B1X035N	C1X035N	D1X035N	-
20	4,000	-	B1X040N	C1X040N	D1X040N	-
	4,500	-	B1X045N	C1X045N (standard)	D1X045N	E1X045N
	5,000	-	B1X050N	C1X050N	D1X050N	E1X050N

Kits are Available for Commercial Units to Field Convert the Element Wattage/Voltage Rating

10 YEAR WARRANTY (with online registration)

Specifications and Dimensions							Water Temperature Ratings			
Models	Gal.	A	B	C	D	Shipping Weight Est.	Hot/Cold Water Inlets	Minimum Delivered Temp.	Maximum Delivered Temp.	High Temp. Limit
EVC010C1X045	10	4.5"	10.25"	17.5"	19.5"	42 lbs	3/4" NPT	135°F 57.2°C	180°F 82.8°C	200°F 93.3°C
EVC015C1X045	15	4.5"	16.25"	23.5"	19.5"	46 lbs				
EVC020C1X045	20	4.5"	21.75"	29"	19.5"	50 lbs				

Gallons	Watts	Recovery @ 90° F Rise	First Hour Rating
10 / 15 / 20	1,500	7	14 / 17.5 / 21
10 / 15 / 20	2,000	9	16 / 19.5 / 23
10 / 15 / 20	3,000	14	21 / 24.5 / 28
10 / 15 / 20	4,000	18	25 / 28.5 / 32
10 / 15 / 20	4,500	20	27 / 30.5 / 34
10 / 15 / 20	5,000	23	30 / 33.5 / 37

Standard Commercial Units are 240V/4,500W (Single Element)

htproducts.com/commercialPOU

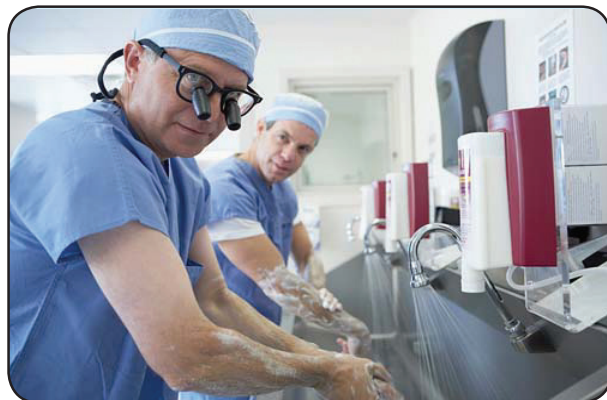
EVERLAST[®] MiniTank

POINT OF USE

**2½, 4 &
8 Gallon
Size Units**

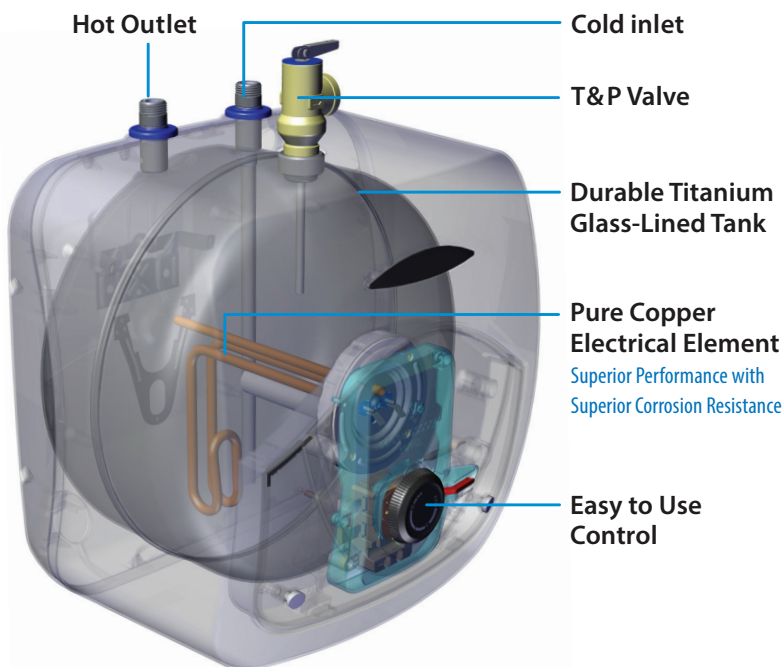


- ▶ Durable Titanium Glass-Lined Tank
- ▶ 2½ Gal. & 4 Gal. Models have a Simple 120 VAC Plug-In Connection
- ▶ Instant Hot Water Upon Demand! No Water is Wasted While Waiting for Hot Water to Arrive from the Tank
- ▶ Wall or Floor Mounted (Wall Brackets & Rubber Feet included)
- ▶ Included Temperature/Pressure Relief Valve (Factory installed on the 2½ Gal. & 4 Gal. Units)
- ▶ Space Saving Compact Unit
- ▶ High Efficiency CFC Free Foam Insulation
- ▶ Eliminates the Need for a Recirculation Line



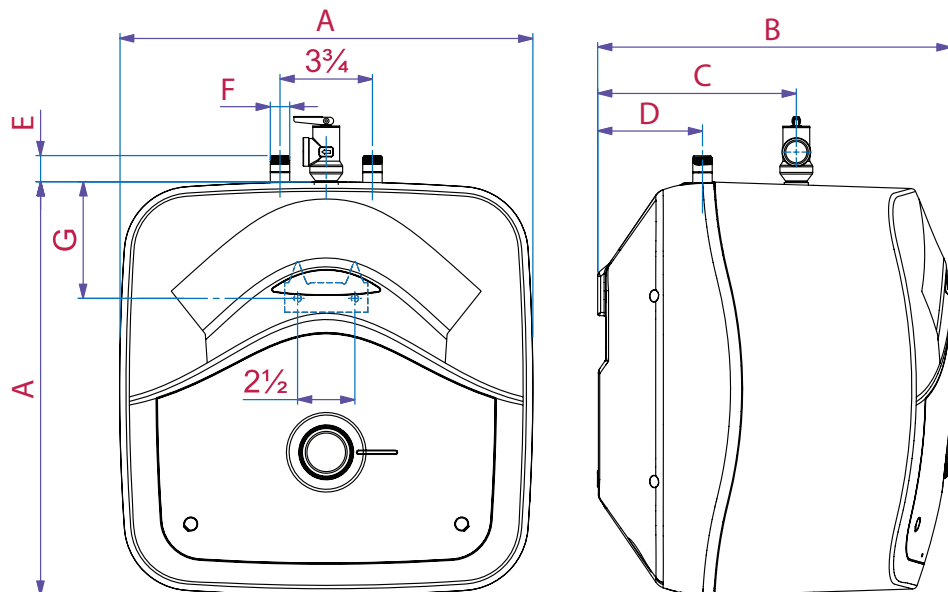
**This Compact Yet Powerful
Hot Water Heater Supplies
Instant Hot Water to Even
the Most Remote Locations**

Installation is a Breeze! All that is required is a cold water line and an electrical connection to install the water heater at the sink. The versatility of this unit allows it to be used for a small amount of water or connected in line with a main water heater for instantaneous hot water.



Dimensions & Specifications

Model	2.5 gal.	4.0 gal.	8 gal.
A	14 1/4"	14 1/4"	17 1/2"
B	10 3/4"	12 3/4"	15 1/4"
C	6"	7 1/2"	8 1/2"
D	3 1/2"	3 1/2"	4 1/2"
E	1"	1"	1 3/4"
F	1/2" NPT	1/2" NPT	3/4" NPT
G	5 3/4"	5 3/4"	6 1/2"



Everlast Mini Tank Water Heaters			
Model Numbers	EVR02.5A014C	EVR04.0A014C	EVR08.0A020C
Tank Capacity	2 1/2 gal.	4 gal.	8 gal.
Installation	Undersink Vert	Undersink Vert	Undersink Vert
Tank	Titanium Glass	Titanium Glass	Titanium Glass
Regulation Temp	Knob	Knob	Knob
Dimensions (pipes excluded)	14 1/4" W x 14 1/4" H x 10 3/4" D	14 1/4" W x 14 1/4" H x 12 3/4" D	17 1/2" W x 17 1/2" H x 15 1/4" D
Weight (empty)	15.5 lbs	17.6 lbs	29.5 lbs
Maximum Water Pressure	150 psi	150 psi	150 psi
Recovery Rate at 90°F Rise	6.8	6.8	9.0
Temperature Range	65 – 161°F	65 – 161°F	65 – 161°F
Water Connections	1/2" NPT	1/2" NPT	3/4" NPT 3/4" Nipple Adaptor Included
Relief Valve	Installed	Installed	Included Not Installed
Nominal Voltage (1 phase)	110/120 Vac	110/120 Vac	110/120 Vac
Nominal Current	12 A	12 A	16.7 A
Power at 120 Vac	1,440 W	1,440 W	2,000 W
Recommended Circuit Breaker Size	15 A	15 A	20 A
Electrical Connection	Plug-in	Plug-in	Hard Wired

Installation

Ideal For:

- Industrial Installations, Stores
- Office Bathrooms and Hotel
- Ancillary Rooms
- Cabins and Mobile Homes

Easy One-Person Installation

Plugs into Standard Wall Outlets

- 2 and 4 Gal. Units (8 Gal. Hard-Wired)

Mounting Bracket Included Rubber Feet Attached for Floor Standing Units Required Tools:

- Pipe Wrench
- Channel Locks
- Teflon Tape or Pipe Dope
- Crescent Wrench



**TITANIUM
PROTECTION**



**EXTERNAL
TEMPERATURE
REGULATION**



**6 YEAR LIMITED
WARRANTY
2 YEAR PARTS**



**SUPER INSULATION
POLYURETHANE FOAM**



SUPERstor[®] ULTRA

Stainless Steel, Indirect Water Heaters

- Low energy costs: when used in conjunction with an HTP high efficiency boiler, operating costs decrease even further
- Ultra high performance, can generate over **50%** more hot water than many water heaters of similar size (offered in 7 sizes: 20 to 119 gallons)
- Minimal heat loss, thanks to thick water blown foam insulation
- Virtually maintenance free operation
- Extremely durable cupronickel heat exchanger boasts excellent heat transfer properties and resists corrosion
- Robust **316L** stainless steel tank eliminates the need for anode rods
- Limited **lifetime** residential warranty: the industry's strongest protection plan
- Number one selling indirect water heater in the country



Ultra Indirect	180 Deg F Boiler Water First Hour Rating		Circulator Gpm	Pressure Drop (Feet)
	140 DEG F	115 DEG F		
SSU-20	121 GPH	168 GPH	8	6.0
SSU-30	154 GPH	212 GPH	8	6.0
SSU-30LB	169 GPH	234 GPH	8	6.0
SSU-45	212 GPH	292 GPH	10	7.9
SSU-60	266 GPH	370 GPH	10	7.9
SSU-80	330 GPH	440 GPH	12	9.1
SSU-119	423 GPH	564 GPH	14	11.3



MODEL	Dimensions		Floor to Drain	Floor to Inlet	Floor to Outlet	Weight (LBS)	Water Connection Sizes
	Height	Diameter					
SSU-20CB	27.5"	19.25"	4.5"	14.5"	21.75"	25	.75" NPT
SSU-30CB	39.5"	19.25"	4.5"	14.5"	33.75"	40	.75" NPT
SSU-45CB	59.5"	19.25"	4.5"	14.5"	45.75"	64	.75" NPT
SSU-60CB	52.5"	23.25"	4.5"	14.5"	45.75"	90	1" NPT
SSU-80CB	72"	23.25"	6"	16"	64.75"	129	1.5" NPT
SSU-119CB	73.5"	27"	7.25"	17.25"	66"	178	1.5" NPT

SuperStor Ultra Storage Tanks

- Low standby heat loss
- 10 year limited warranty on SSU storage tanks
- Robust **316L** stainless steel tank eliminates the need for anode rods and resists corrosion

SuperStor Ultra Double Wall Indirects

- Provides additional protection against cross contamination
- Limited **lifetime** warranty

Double Wall Indirect	180 Deg F Boiler Water First Hour Rating		Circulator Gpm	Pressure Drop (Feet)
	140 DEG F	115 DEG F		
SSU-45DW	70 GPH	108 GPH	6	8.2
SSU-60DW	90 GPH	144 GPH	7	12.8
SSU-80DW	138 GPH	215 GPH	10	13.6
SSU-119DW	210 GPH	326 GPH	12	15.9

SuperStor Ultra Commercial Indirect

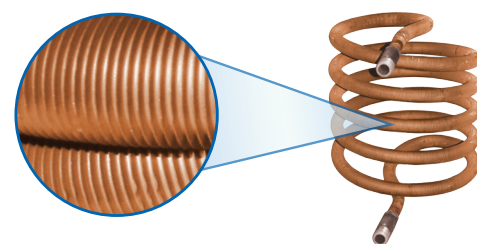
- The commercial SuperStor Ultra contains two heat exchangers to accommodate high volume needs
- 7 year limited warranty

Indirect Commercial	180 Deg F Boiler Water First Hour Rating		Circulator Gpm	Pressure Drop (Feet)
	140 DEG F	115 DEG F		
SSU-60C	354 GPH	467 GPH	22	9.2
SSU-80C	490 GPH	647 GPH	24	10.0
SSU-119C	637 GPH	841 GPH	28	12.7



Commercial Indirect
with 2 Heat Exchangers

Solar options available

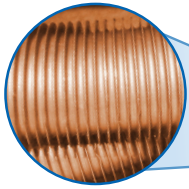


Finned Cupronickel Heat Exchanger
Provides Maximum Efficiency - 11 Fins per inch

Stainless Steel Internal Bent Hot Water Outlet Tube – Extracts 5 – 7% more hot water off the top of the tank dome

Attractive silver finish cover that resists dents and corrosion

High Output Finned Cupronickel Heat Exchanger Provides Maximum Efficiency 11 Fins per inch



Stainless Steel Cold Water Inlet



316L Stainless Steel Tank for High Temperatures & Corrosion Resistance

Environmentally Safe, CFC Free Water Blown, 2" Thick Foam Insulation allows less than 1/2 Degree F heat loss per hour

Immersion Type Stainless Steel Control Well

1" Boiler Supply Connection

1" Boiler Return Connection

Solar options available

The Buffer Tank

Adds water volume to the heating system, smoothing out disturbances like short cycling to protect your heating system and make it more efficient



Superstor Buffer Tank SSU-20B

OPTIONAL EQUIPMENT

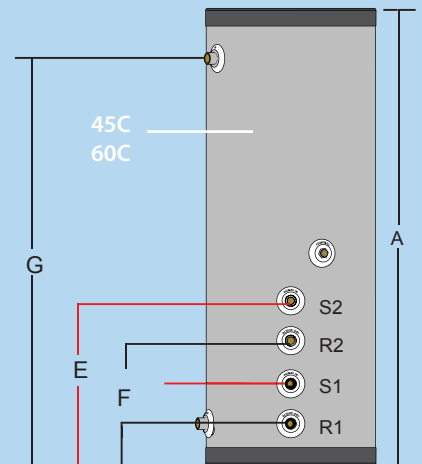
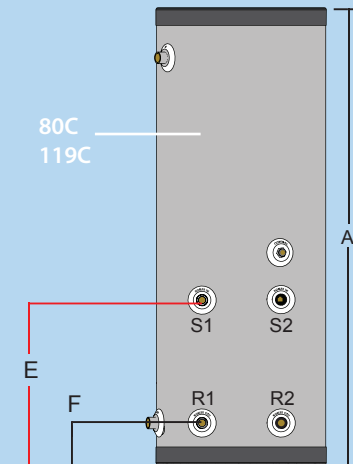
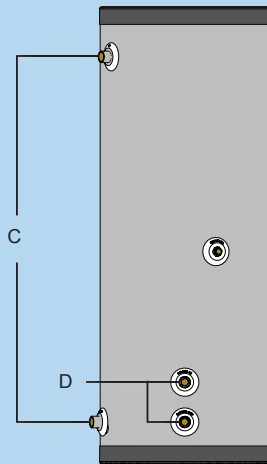
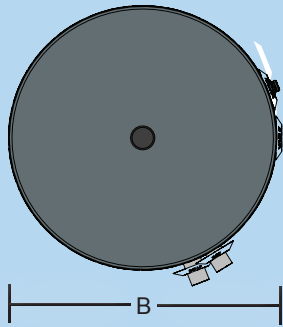
- Aquastat Control
- Thermostatic Mixing Valve
- Bronze Pump

STANDARD FEATURES

- 316L Stainless Steel
- Finned 90/10 Cupronickel Heat Exchanger
- Stainless Steel Aquastat Well



Dimensions & Specifications



Ultra Model	A	B	C	D	E		F	G	Capacity	Heat Exchanger Surface	Shipping Weight
	Dimensions Height	Diameter	Domestic Connections	Boiler Connections	Floor to Boiler Supply		Floor to Boiler Return	Floor to Domestic Out			
SSU-20	27"	19 1/4"	3/4"	1" NPT	S1- 9 3/4"		R1- 5 1/4"	22"	20	15 SQ FT	51 LBS
SSU-30	39 1/2"	19 1/4"	3/4"	1" NPT	S1- 9 3/4"		R1- 5 1/4"	34"	30	15 SQ FT	62 LBS
SSU-30LB	28 1/2"	23 1/4"	3/4"	1" NPT	S1- 9 3/4"		R1- 5 1/4"	22"	30	15 SQ FT	71 LBS
SSU-45	52 1/2"	19 1/4"	3/4"	1" NPT	S1- 9 3/4"		R1- 5 1/4"	46"	45	20 SQ FT	72 LBS
SSU-60	52 1/2"	23 1/4"	1"	1" NPT	S1- 9 3/4"		R1- 5 1/4"	46"	60	20 SQ FT	109 LBS
SSU-80	72"	23 1/4"	1 1/2"	1" NPT	S1- 29"		R1- 6"	64 3/4"	80	34 SQ FT	143 LBS
SSU-119	74"	27"	1 1/2"	1" NPT	S1- 30 1/4"		R1- 7 1/4"	66"	119	34 SQ FT	212 LBS
SSU-60C	52 1/2"	23 1/4"	1"	1" NPT	S1- 9 3/4"	S2- 18 3/4"	R1- 5 1/4"	R2- 14"	46"	60	40 SQ FT
SSU-80C	72"	23 1/4"	1 1/2"	1" NPT	S1- 29"	S2- 29"	R1- 6"	R2- 6"	64 3/4"	80	68 SQ FT
SSU-119C	74"	27"	1 1/2"	1" NPT	S1- 30 1/4"	S2- 30 1/4"	R1- 7 1/4"	R2- 7 1/4"	66"	119	68 SQ FT

SUPERstor[®] PRO

All Stainless Steel Indirect Water Heater



316L Stainless Steel Tank

Eliminates the need for anode rods

Advantage: Heat Exchanger

Extremely durable enhanced corrugated surface: 316L stainless steel heat exchanger boasts excellent heat transfer properties, resists corrosion and offers extremely low pressure drop

High Performance

Can generate over 50% more hot water than many water heaters of similar size and heat the entire tank in 10-15 minutes (with appropriate sized boiler)

Low Energy Costs

When used in conjunction with an HTP high efficiency boiler, operating costs decrease even further

Minimal Heat Loss

Thanks to 2" thick, water blown foam insulation

Virtually Maintenance Free

Top Connections: Inlet, Outlet and Auxiliary Ports

Auxiliary port for the recirculation line increases overall efficiency by eliminating short cycling of the connected boiler

SuperStor is the #1 Brand

HTP sells more indirects than anyone else in the country!



SSP-80SE & SSP-115SE

Solar Water Heater with an Electric Back-up

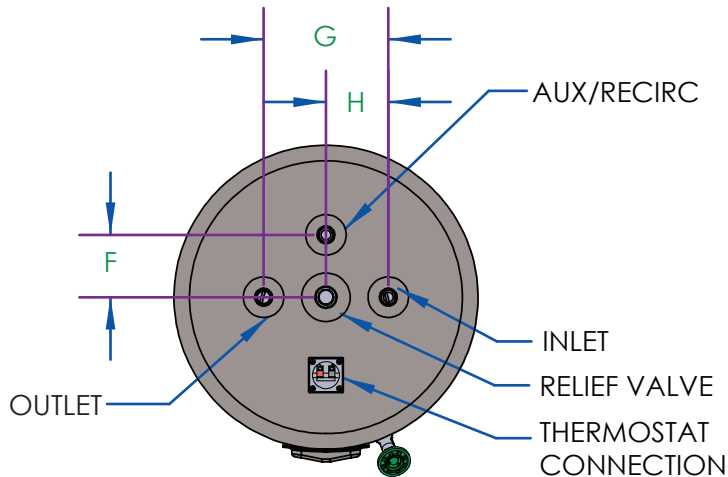
- Reduce Your Water Heating Bills by 50% to 75%
- Federal Solar Tax Credits
- Utility Rebates and State Incentives
- Energy Compliance Credits and Fuel Savings

Model	Heat Exchanger Surface	Test Pressure	Working Pressure	180° F Boiler Water 1st Hour Rating*	180° F Boiler Btuh / Size	Recommended Flow Rate	Pressure Drop at Recommended Flow Rate	Weight
SSP-30	15 Sq. Ft.	300 PSI	150 PSI	228 Gal.	130,000	8 GPM	1.7 Ft	95 lbs
SSP-40				266 Gal.	155,000	10 GPM	2.3 Ft	111 lbs
SSP-50				287 Gal.	155,000	10 GPM	2.3 Ft	127 lbs
SSP-60				303 Gal.	155,000	10 GPM	2.3 Ft	140 lbs
SSP-80	18 Sq. Ft.			347 Gal.	175,000	12 GPM	3 Ft	157.5 lbs
SSP-100				393 Gal.	195,000	14 GPM	3.75 Ft	195 lbs

*DOE test method based on 90°F temperature rise, 50°F/140°F w/boiler water at 180°F note: tank recovery from cold start will be between 10-13 minutes when sized with correct flow rate, boiler size and pressure drop ratings from list in above chart. Continuous flow rating calculation: first hour rating - (75 * Gallon capacity) = continuous flow rating

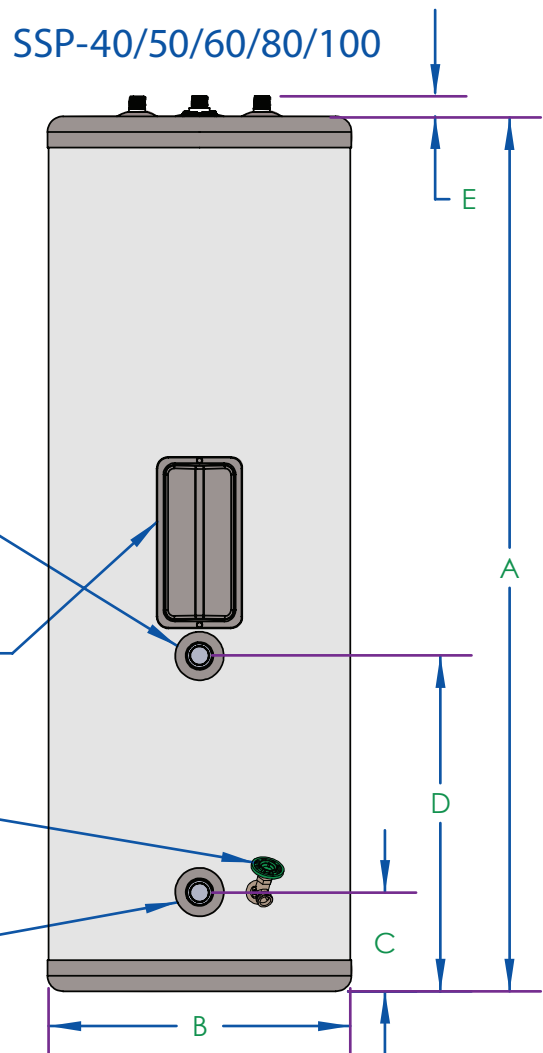
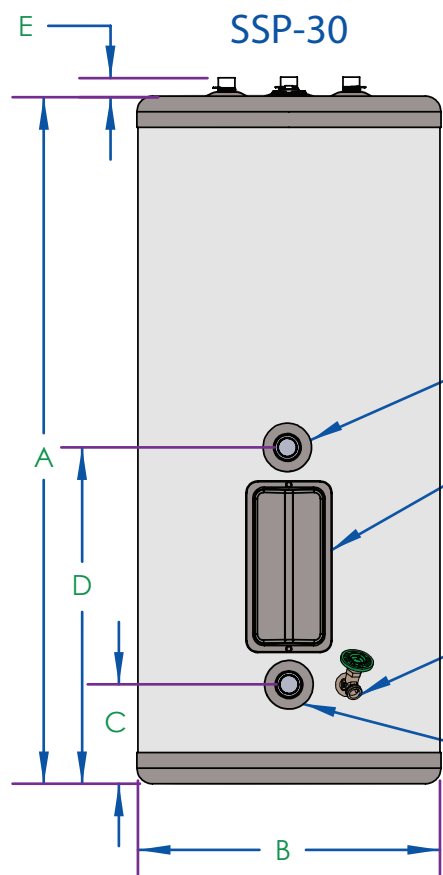
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Model	A	B	C	D	E	F	G	H	Tank Size	Domestic Ports	Aux Port	Boiler In/Out
SSP-30	42-1/8"	19-3/8"	5-7/8"	21"	1-3/8"	4"	8"	4"	28 Gal.	3/4" MNPT	3/4" MNPT	1" FNPT
SSP-40	54-1/4"								38 Gal.			
SSP-50	66-5/8"								48 Gal.			
SSP-60	52-5/8"	23-1/2"							58 Gal.	1" MNPT		
SSP-80	69"								78 Gal.			
SSP-100	60-7/8"	27-1/2"	8-1/8"	20-1/4"					98 Gal.	1-1/2" MNPT	1" MNPT	



Since 1976, HTP has produced more stainless steel tanks in the USA than any other company in the industry.

10 Year Residential, 5 Year Commercial Limited Warranty
Lifetime Warranty Available



BOILER IN
1" FNPT

THERMOSTAT
ACCESS

DRAIN VALVE

BOILER OUT
1" FNPT

SUPERstor **CONTENDER**®

WITH FLOW COAT TECHNOLOGY



35, 50, 80 & 119 gallon models

Minimal heat loss: thick water blown foam insulation

Flexibility: can be linked to a boiler using either a zone valve or a circulated pump

Quality construction: a specially formulated enamel heat exchanger resists lime build-up

High performance standards at a value price

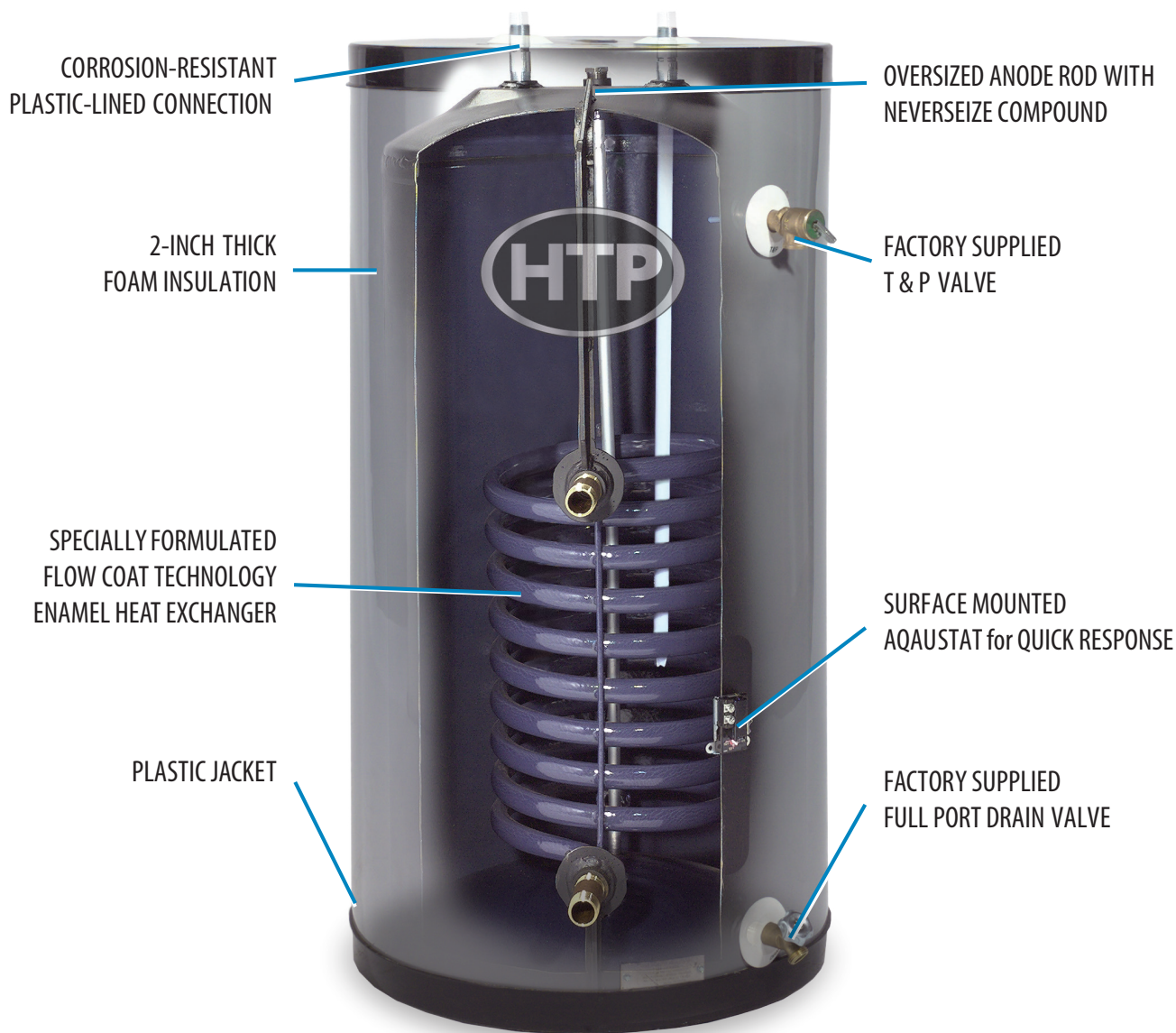
Slush coat glass lined, not sprayed

7 year limited warranty

Equipped with an oversized changeable anode rod

Glass Lined Indirect Water Heater

For more than 30 years, HTP's SuperStor line of indirect fired water heaters has made its mark as one of the most recognized names in the industry. The SuperStor Contender Indirect fired water heater is engineered to consistently deliver significant volumes of domestic hot water over many years of maintenance free operation. Our ceramic coated smooth surface coil design resists hard water buildup which can reduce water heater performance over its service life. Each unit is slush coat glass lined, not sprayed. Our attractive, plastic outer jacket will maintain its appearance without rusting. The extra thick, environmentally friendly, water blown foam insulation saves energy usually wasted by conventional fiberglass insulation. HTP's SuperStor Contender indirect water heater is backed by an industry leading 7-year residential use warranty.



Contender Model	140°F 90°F ΔT	115°F 65°F ΔT	Height/ Diameter	Gal.	Floor to Boiler Supply	Floor to Boiler Return	Floor to Drain Valve	Domestic Connections	Heat Exchanger Connections	Shipping Weight	Working Pressure
SSC-35	112 GPH	152 GPH	36.25"/23"	35	8"	18"	8.5"	¾" NPT-M	1" NPT	141 lbs.	150 PSI
SSC-50	190 GPH	258 GPH	46.5"/23"	50	7.5"	25.5"	8.25"	¾" NPT-M	1" NPT	172 lbs.	150 PSI
SSC-80	198 GPH	270 GPH	71.25"/23"	80	7.75"	25.75"	8.5"	1½" NPT-M	1" NPT	232 lbs.	150 PSI
SSC-119	268 GPH	364 GPH	67"/x28"	119	10.125"	21.75"	10.75"	1½" NPT-M	1" NPT	300 lbs.	150 PSI

NOTE: Above chart is based on boiler size conforming to the minimum BTU/H required to achieve first hour ratings. The mass of the boiler will affect recovery time. More boiler mass equals longer recovery time. TANK RECOVERY FROM COLD START WILL BE BETWEEN 12-15 MINUTES WHEN SIZED WITH CORRECT FLOW RATE, BOILER SIZE AND PRESSURE DROP RATINGS FROM INSTALLATION INSTRUCTIONS.

LARGE VOLUME TANKS



**All tanks
are ASME
Certified**



Large Volume Commercial Storage Tanks Jacketed & Insulated Tanks					
HTP MODEL	ACTUAL GALLONS	NOMINAL GALLONS	DIA.	HEIGHT	APPROX. WEIGHT
HTP-JS-32-200	200	N/A	32"	77"	541 LBS.
*** NO MODIFICATIONS CAN BE MADE TO THE ABOVE LISTED TANK. IT IS AVAILABLE IN GLASS LINED ONLY.					
HTP-JS-30-075	210	229	34"	83"	613 LBS.
HTP-JS-30-085	240	260	34"	93"	700 LBS.
HTP-JS-30-099	280	303	34"	107"	673 LBS.
HTP-JS-30-111	320	340	34"	119"	703 LBS.
HTP-JS-36-072	285	318	40"	80"	714 LBS.
HTP-JS-36-078	310	344	40"	86"	782 LBS.
HTP-JS-36-085	340	375	40"	93"	845 LBS.
HTP-JS-36-090	360	397	40"	98"	894 LBS.
HTP-JS-36-102	415	449	40"	110"	982 LBS.
HTP-JS-36-114	465	502	40"	122"	1106 LBS.
HTP-JS-36-126	515	555	40"	134"	1194 LBS.
HTP-JS-42-081	435	486	46"	89"	1024 LBS.
HTP-JS-42-084	453	504	46"	92"	1074 LBS.
HTP-JS-42-093	505	558	46"	101"	1168 LBS.
HTP-JS-42-105	575	630	46"	113"	1292 LBS.
HTP-JS-42-117	645	702	46"	125"	1392 LBS.
HTP-JS-42-129	720	774	46"	137"	1498 LBS.
HTP-JS-42-139	790	846	46"	147"	1587 LBS.
HTP-JS-48-073	500	572	48"	77"	1038 LBS.
HTP-JS-48-084	580	658	48"	88"	1161 LBS.
HTP-JS-48-096	675	752	48"	100"	1298 LBS.
HTP-JS-48-108	765	846	48"	112"	1433 LBS.
HTP-JS-48-120	840	940	48"	124"	1567 LBS.
HTP-JS-48-141	1040	1105	48"	145"	1805 LBS.
HTP-JS-54-113	1000	1119	58"	123"	2300 LBS.
HTP-JS-60-114	1245	1395	64"	124"	2500 LBS.
HTP-JS-60-138	1530	1689	64"	148"	2500 LBS.

*HTP Offers Epoxy Lined Tanks For The Same Price As Glass Lined Tanks.
A Manway Is Included With All Epoxy Lined Tanks – All Models are ASME Rated
***Horizontal Configurations Are Available At An Additional Cost
***For Extra Fittings, Please Refer To Pricing On The Options Page

• Top coats and finish coats are available (Non jacketed tanks) • Magnesium anode rod (for protection and longer service life) • Five year limited warranty on steel tanks (Ten year limited warranty on steel tanks with double glass lining - Double glass lining is not an inventory item, built upon request)



Large Volume Commercial Storage Tanks Bare Tanks / Optional Topcoat					
HTP MODEL	ACTUAL GALLONS	NOMINAL GALLONS	DIA.	HEIGHT	APPROX. WEIGHT
HTP-S-28-079	200	N/A	28"	77"	325 LBS.
*** NO MODIFICATIONS CAN BE MADE TO THE ABOVE LISTED TANK. IT IS AVAILABLE IN GLASS LINED ONLY.					
HTP-S-30-075	210	229	30"	79"	387 LBS.
HTP-S-30-085	240	260	30"	89"	520 LBS.
HTP-S-30-099	280	303	30"	103"	483 LBS.
HTP-S-30-111	320	340	30"	115"	530 LBS.
HTP-S-36-072	285	318	36"	76"	550 LBS.
HTP-S-36-078	310	344	36"	82"	588 LBS.
HTP-S-36-085	340	375	36"	89"	633 LBS.
HTP-S-36-090	360	397	36"	94"	664 LBS.
HTP-S-36-102	415	449	36"	106"	742 LBS.
HTP-S-36-114	465	502	36"	118"	818 LBS.
HTP-S-36-126	515	555	36"	130"	895 LBS.
HTP-S-42-081	435	486	42"	85"	783 LBS.
HTP-S-42-084	453	504	42"	88"	805 LBS.
HTP-S-42-093	505	558	42"	97"	874 LBS.
HTP-S-42-105	575	630	42"	109"	963 LBS.
HTP-S-42-117	645	702	42"	121"	1052 LBS.
HTP-S-42-129	720	774	42"	133"	1140 LBS.
HTP-S-42-139	790	846	42"	143"	1217 LBS.
HTP-S-48-073	500	572	48"	77"	1038 LBS.
HTP-S-48-084	580	658	48"	88"	1161 LBS.
HTP-S-48-096	675	752	48"	100"	1298 LBS.
HTP-S-48-108	765	846	48"	112"	1433 LBS.
HTP-S-48-120	840	940	48"	124"	1567 LBS.
HTP-S-48-141	1040	1105	48"	145"	1805 LBS.
HTP-S-48-168	1225	1306	48"	172"	2000 LBS.

***HTP Offers epoxy lined tanks for the same price as glass lined tanks. A manway is included with all epoxy lined tanks. Manways are required on all tanks over 36" diameter. Pricing reflects required manway

***Horizontal configurations are available at an additional cost, please consult HTP customer service for pricing – All Models are ASME Rated

Large Volume Commercial Storage Tanks Bare Tanks / Optional Topcoat					
HTP MODEL	ACTUAL GALLONS	NOMINAL GALLONS	DIA.	HEIGHT	APPROX. WEIGHT
HTP-S-54-099	875	981	54"	105"	1596 LBS.
HTP-S-54-113	1000	1119	54"	119"	1700 LBS.
HTP-S-54-123	1110	1219	54"	129"	1889 LBS.
HTP-S-54-134	1200	1327	54"	140"	2000 LBS.
HTP-S-54-147	1340	1457	54"	153"	2182 LBS.
HTP-S-54-165	1500	1635	54"	171"	2320 LBS.
HTP-S-54-183	1690	1814	54"	189"	2622 LBS.
HTP-S-60-114	1245	1395	60"	120"	2299 LBS.
HTP-S-60-138	1530	1689	60"	144"	2704 LBS.
HTP-S-60-168	1820	1983	60"	174"	3110 LBS.
HTP-S-60-177	2000	2165	60"	183"	3230 LBS.
HTP-S-60-186	2105	2276	60"	192"	3516 LBS.
HTP-S-60-210	2395	2570	60"	216"	3922 LBS.
HTP-S-72-100	1500	1763	72"	106"	2500 LBS.
HTP-S-72-117	1800	2062	72"	123"	2700 LBS.
HTP-S-72-120	1865	2115	72"	126"	2876 LBS.
HTP-S-72-128	2000	2256	72"	134"	3000 LBS.
HTP-S-72-144	2285	2538	72"	150"	3363 LBS.
HTP-S-72-157	2500	2767	72"	163"	3500 LBS.
HTP-S-72-168	2700	2961	72"	174"	3851 LBS.
HTP-S-72-192	3115	3384	72"	198"	4338 LBS.
HTP-S-72-216	3530	3807	72"	222"	4825 LBS.
HTP-S-72-250	4120	4406	72"	256"	5516 LBS.
HTP-S-84-121	2500	2901	84"	127"	4250 LBS.
HTP-S-84-138	2915	3310	84"	144"	4647 LBS.
HTP-S-84-162	3480	3886	84"	168"	5328 LBS.
HTP-S-84-186	4045	4462	84"	192"	6009 LBS.
HTP-S-84-210	4610	5038	84"	216"	6689 LBS.
HTP-S-84-256	5695	6141	84"	262"	7994 LBS.

***HTP Offers Epoxy Lined Tanks For The Same Price As Glass Lined Tanks. A Manway Is Included With All Epoxy Lined Tanks. Manways Are Required On All Tanks Over 36" Diameter. Pricing Reflects Required Manway

***Horizontal Configurations Are Available At An Additional Cost, Please Consult HTP Customer Service For Pricing – All Models are ASME Rated

Solar/Indirect Tanks Available

SUPERstor[®]

Glass-Lined Storage Tanks



Four gallon sizes ranging
from 50-175 gallons

Quality glass-lined steel tank
for hot water storage

Environmentally safe water
blown insulation reduces heat
loss to ½ degree per hour

5 year limited warranty

Plastic Jacket (Non-ASME) GL Storage Tank

Model	T&P Ports	Max Working Pressure	Height / Diameter	Gallon Capacity	Shipping Weight
GL-50	3/4" NPTF	150 PSI	52"/19 1/4"	50	120 lbs.
GL-80	1" NPTF	150 PSI	59"/23 1/4"	80	165 lbs.
GL-119	1" NPTF	150 PSI	64"/28"	119	250 lbs.

Steel Jacket (ASME) GL Storage Tank

Model	T&P Ports	Max Working Pressure	Height / Diameter	Gallon Capacity	Shipping Weight
GL-80	1" NPTF	125 PSI	58 5/16"/24 7/16"	80	260 lbs.
GL-119	1" NPTF	160 PSI	59 1/4"/28 1/4"	119	340 lbs.
GL-175	1" NPTF	150 PSI	67 1/4"/32 1/4"	175	600 lbs.



HTP Ultra-Thin Hydronic Fan Coil

Space Heating & Cooling Combined

Attractive Metal Face

Highly Efficient, Elegant
& Ultra Quiet



Elegant Glass Face

with Touchscreen Controls



Remote Control
Touchscreen
Temp. Adjustment

Different Temp.
Control for Each
Room (Zones)

Summer: When combined with a chiller, the Ultra-Thin Hydronic Fan Coil air conditions the space, quietly and efficiently keeping the room at a comfortable temperature. (Chiller sold separately.)

Winter: When combined with a water heater, the Ultra-Thin Hydronic Fan Coil quietly and efficiently warms the room to a comfortable temperature. (Water heater sold separately.)



Super Quiet:
Under 25 dB

Ultra Thin: About 5"
in depth - Saves Space
and Looks Beautiful!

Model (white metal face)	VFC-9PWV	VFC-14PWV	VFC-20PWV	VFC-25PWV	VFC-32PWV
Model (black glass face)	VFC-9GB	VFC-14GB	VFC-20GB	VFC-25GB	VFC-32GB
Heating Capacity *	4600 Btuh	8500 Btuh	11400 Btuh	14600 Btuh	17800 Btuh
Heating Capacity **	8700 Btuh	13500 Btuh	19600 Btuh	24600 Btuh	32000 Btuh
Cooling Capacity	3400 Btuh	6500 Btuh	8500 Btuh	12000 Btuh	14800 Btuh
Dimensions (L/W/H)	28"/5"/26"	35"/5"/26"	43"/5"/26"	51"/5"/26"	60"/5"/26"

* Heating Ambient Temp. (DB/DW) 68°F Heating Water Temp: In/Out 122°F/113°F - ** Heating Ambient Temp. (DB/DW) 68°F Heating Water Temp: In/Out 158°F/140°F
Cooling Water Temp. (DB/DW) 80.6°F/66.2°F Cooling Water Temp: In/Out 44.6°F/53.6°F

HTP'S QUICK ZONE MANIFOLD SYSTEM



**Work
Smarter
Not Harder**

**Reduce
Installation
Times By
50-75%**

**Save Time
& Money**

Streamline Everything from Bidding to Start-Up

Work smarter, not harder with HTP's Quick Zone Manifold System. Help save contractors and distributors time and money. Speed up every step of the hydronic process from bidding to start-up with these prefabricated systems.

Fixed Costs Help Make Bidding Fast and Simple

Professional Panel

Present a professional appearance every time!

Cut Installation Times By 50-75%

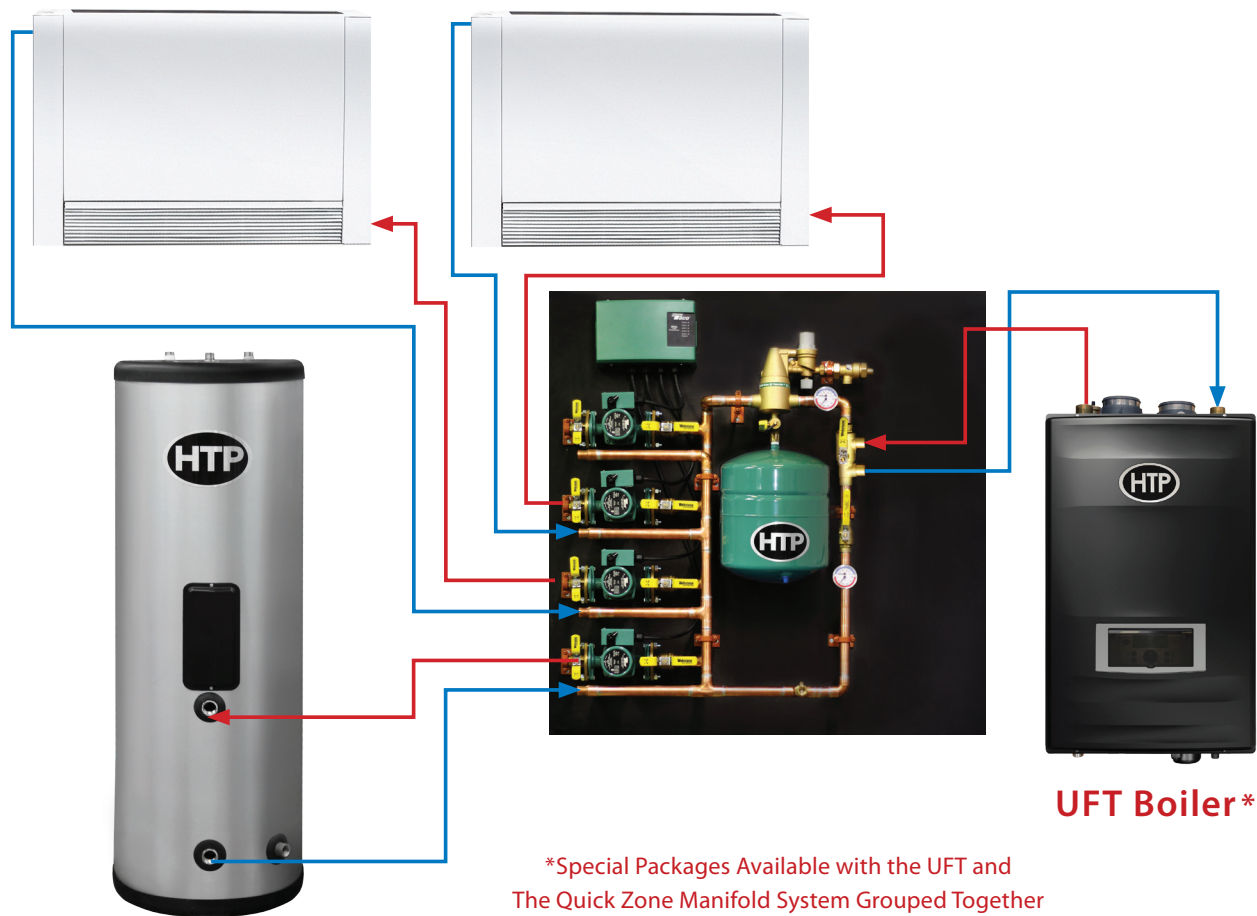
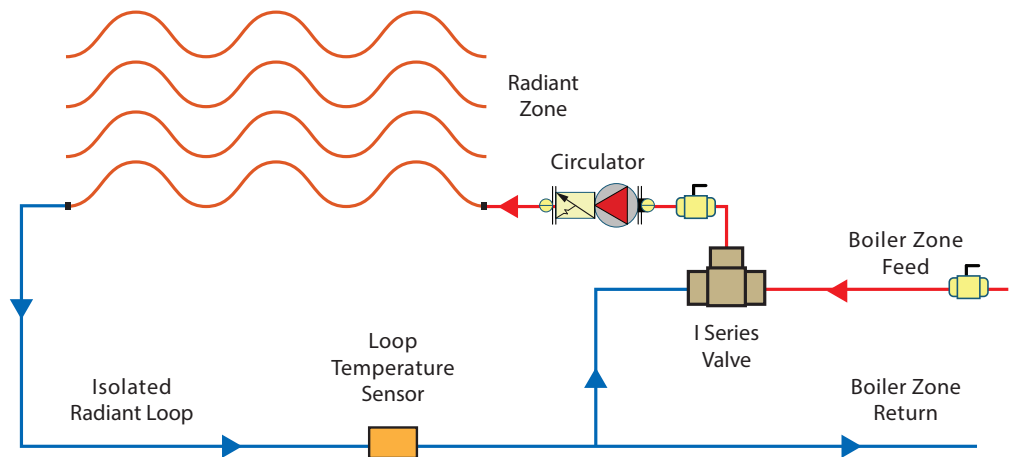
Eliminate the time consuming labor of starting from scratch, with the Quick Zone Manifold System. Simply hang the panel and connect the boiler and zones. Before you know it, you are done!

Versatile System

This zero to four zone panel may be used in conjunction with any direct flow boilers, including HTP's highly efficient Pioneer and UFT. The manifold system may also be used with radiators, baseboards, and radiant heating systems.

Works with Most Hydronic Boilers

Radiant Flooring with The Quick Zone Manifold System



UFT Boiler*

*Special Packages Available with the UFT and
The Quick Zone Manifold System Grouped Together

Models	Zones / Pumps	Max Btuh	Pipe Size	Expansion Tank	Priority DHW
QZM*140-2	2	up to 140,000	1"	#30	No
QZM*140-3	3				Yes
QZM*140-4	4				Yes
QZM*220-2	2	up to 220,000	1 1/4"	#60	No
QZM*220-3	3				Yes
QZM*220-4	4				Yes
QZM*400-4	4	up to 400,000	1 1/2"	#60	Yes
QZM*400-6	6				Yes

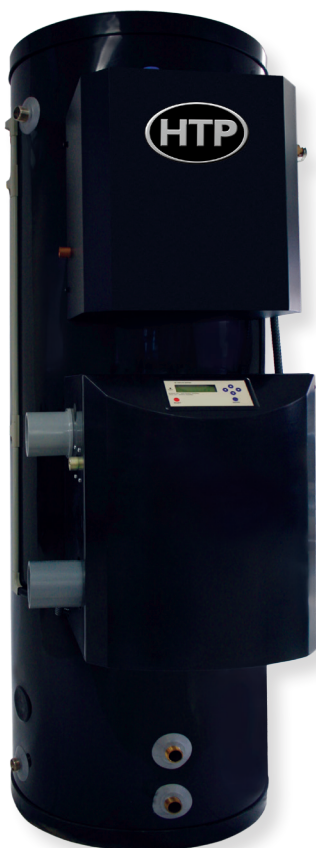
* Replace the * in the Model number with a P, E or Z (This will determine which pumps or zone valves are used in the QZMS model): **P = Pump E = ECM Pump Z = Zone Valves**

Solar Tanks

Combi Solar Stainless Steel Water Heater with Gas Fired Back-Up

VERSA-HYDRO®

Space Heating & Domestic Hot Water Combined



- Incredible system flexibility: Built-in auxiliary taps provide connections to air handlers or supplemental storage tanks
- The Versa-Hydro saves space by combining the equivalent of a 135,000 Btuh boiler, an indirect water heater, and a buffer tank into one small footprint
- An extremely durable cupronickel and stainless steel heat exchanger boasts excellent heat transfer properties and resists corrosion
- The modulating burner operates a 5 to 1 turndown ratio, while the space heating module operates at a 10 to 1 turndown ratio
- Ultra high **96%** thermal efficiency & **93%** combustion efficiency ratings
- 12 year limited warranty



Save Energy • Save Money • Save Space • Save On Installation

Model	Gal.	Btuh	Space Heating Module Btuh	1st Hour Rating	Max. Space Heater Temp.	Height / Diameter	Freight Weight
PHE130-80S PHE199-80S*	80	130,000	100,000	227 Gal.	160° F	72" / 23"	275 lbs
		199,000	135,000	314 Gal.			
PHE130-119S PHE199-119S*	119	130,000	100,000	257 Gal.	160° F	74" / 27"	445 lbs
		199,000	135,000	335 Gal.			

*SNHX (Solar No Heat Exchanger) Versions Available

Drain Back Tank

- Virtually maintenance free operation
- Highly efficient cupronickel heat exchanger & a robust **316L stainless steel** tank
- Effortless monitoring: sight glass makes it possible to visually monitor the tank's water level
- 5 year limited warranty

Drain Back	Model with Heat Exchanger	Gal.	Height / Diameter	Freight Weight (lbs)	
SSU-10DB	SSU-10DBX	10	20" / 19.25"	31	39.7
SSU-15DB	SSU-15DBX	15	22" / 19.25"	33	41.5
SSU-20DB	SSU-20DBX	20	27" / 19.25"	37	54.1
SSU-30DB	SSU-30DBX	30	33.5" / 19.25"	49	75
SSU-40DB	SSU-40DBX	40	51.875" / 19.25"	61	84
SSU-60DB	SSU-60DBX	60	52.125" / 23.25"	90	116
SSU-80DB	SSU-80DBX	80	71.5" / 23.25"	125	151

A drain back tank allows all the water from solar collectors and related piping connections to drain into the tank reservoir, protecting the system from both freezing and overheating.

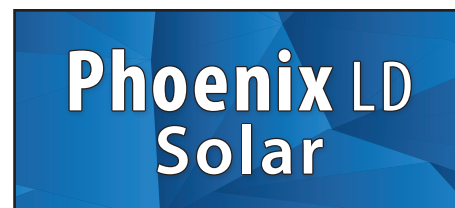


Solar Stainless Steel Water Heater with Gas Fired Back-Up

Model	Input Modulation	Gal.	First Hr. Rating	Height/ Diameter	Freight Weight
PH199-119S*	40,000–199,000	119	335 gal	74"/ 27"	405 lbs
PH130-119S*	35,000–130,000	119	257 gal	74"/ 27"	405 lbs
PH199-80S	40,000–199,000	80	314 gal	72"/ 23"	235 lbs
PH130-80S	35,000–130,000	80	227 gal	72"/ 23"	235 lbs
PH76-75S	25,000–76,000	75	-	69"/ 23"	245 lbs

*SNHX (Solar No Heat Exchanger) Versions Available

- Up to **96%** Thermal efficiency
- Up to **5:1** turndown ratio
- Robust **316L** stainless steel tank, no anode rods needed
- 7 year limited warranty
- Auxiliary taps provide connections to air handlers or supplemental storage tanks
- Quality construction: an extremely durable cupronickel and stainless steel heat exchanger boasts excellent heat transfer properties and resists corrosion
- Vents in inexpensive, easy to install PVC or CPVC pipe



SUPERstor®

Solar Stainless Steel Indirects

SSU tanks with preheat, water heater backup				
Model	Gal.	Height/ Diameter	Freight Weight	Recomm. Flow Rate
SSU-20	20	27"/ 19.25"	60 lbs	8
SSU-20PH (pool)	20	27"/ 19.25"	60 lbs	8
SSU-30	30	39.5"/ 19.25"	72 lbs	8
SSU-45	45	52.5"/ 19.25"	88 lbs	10
SSU-60	60	52.5"/ 23.25"	110 lbs	10
SSU-80	80	72"/ 23.25"	139 lbs	12
SSU-119	119	74"/ 27"	206 lbs	14

SB tanks with boiler backup				
Model	Gal.	Height/ Diameter	Freight Weight	1st Draw 65° Rise
SSU-60SB	60	52.5"/ 23.25"	120 lbs	40 Gal.
SSU-80SB	80	72"/ 23.25"	151 lbs	60 Gal.
SSU-119SB	119	74"/ 27"	220 lbs	90 Gal.

SUPERstor PRO

SSP solar water heater with an electric back-up				
Model	GAL.	Height/ Diameter	Freight Weight	1st Draw 65° Rise
SSP-80SE	80	68.5"/ 23.5"	160 lbs	40 Gal.
SSP-115SE	115	70.5"/ 27"	235 lbs	60 Gal.

- Number one selling indirect in the country
- Ultra high performance, can generate over **50%** more hot water than many water heaters of similar size (offered in 7 sizes: 20 to 119 gal.)
- Minimal heat loss, due to thick, water blown, foam insulation
- Virtually maintenance free operation
- Extremely durable cupronickel heat exchanger boasts excellent heat transfer properties and resists corrosion
- Robust **316L** stainless steel tank eliminates the need for anode rods
- Limited lifetime residential warranty (SSU)



HTP Pool Heater
SSU-20PH

A limited Lifetime Protection Plan gives one peace of mind that their investment is backed by the industry's strongest warranty, your HTP solar tank will look good while providing many years of worry-free performance.

Tank Key: Number = Gallon Capacity; SB = Solar Backup; DW = Double Wall; SE = Solar Electric; NHX = No Heat Exchanger; DB = Drain Back; DBX = Drain Back with Exchanger; S = Solar (most tanks are available in these variations)



SSP-80SE

- SuperStor Pro:** Limited 10 Year residential warranty
- Durable 316L stainless steel heat exchanger

Best Warranty!

Robust 316L stainless steel tank eliminates the need for anode rods



HTP Comfort Solutions LLC was established 1974 by Mr. Raymond B. Davis as a designer and fabricator of heat exchangers for the boiler and solar industries. Today, HTP is enjoying its second generation of family leadership under CEO Dave Davis and is a full-fledged manufacturer on the cutting edge of energy-efficient space and water heating technology.

Although HTP makes a wide assortment of heating products and system components, we are best known for our best-selling SuperStor stainless steel indirect fired water heaters, first introduced in 1980. HTP was the first U.S.-based manufacturer to bring a condensing gas-fired water heater to the domestic market in 1987. In 1999, HTP delivered yet another breakthrough when we introduced the first residential high efficiency modulating boilers in North America.

The foundation of HTP was built by being the most innovative products company for the markets that we serve. We are customer focused and take great pride in delivering products that exceed our customers' expectations.

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