

Ariston Thermo USA LLC



Full Product Catalog



2023



SUSTAINABLE COMFORT FOR EVERYONE

 **ARISTON**
GROUP

Your New Right Hand Man



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GAS HEATING



HYDRONIC SPACE HEATING

	Elite XL	Pioneer	Elite Ultra	Elite Fire Tube Ultra	Elite Ultra Duo
Appliance Type	Commercial Boilers	Residential Space Heating			Residential & Commercial Boilers
Radiant Floor	Yes				
Fan Coil	Yes				
Base Board	Max 180°temp				
Snow Melt	Yes				
Heating & DHW	with Indirect Tank or VWH	with Indirect Tank			
Turndown Ratio	up to 10:1	5:1	up to 11:1	up to 10:1	up to 20:1
Cascading	up to 8 Units				up to 4 Units
Pool Heater	with Indirect Tank				
ASME	Yes		Yes	Yes	Yes
Domestic Hot Water	VWH		(combi option)		
Requires Primary/Secondary Piping Configuration	No	No	No		No
Integrated Buffer Tank – Hydronic Stabilization	No	55 Gal.	No		
PAGE Number	6	8	12	15	10



COMBINATION HEATING

	Elite Ultra	Elite Fire Tube Ultra	Phoenix Plus	Phoenix	Phoenix LD
Application Type	Combi Units		Gas Fired Water Heaters (with Air handler)		
Radiant Floor	Yes		Yes	Yes	Yes
Fan Coil	Yes		Yes	Yes	Yes
Base Board	Max 180°temp				
Snow Melt	Yes				
Pool Heater	with Indirect Tank				
ASME	Yes				
Co-Generation Heat Recovery			Yes		
Domestic Hot Water	Yes		Yes		
Requires Primary/Secondary Piping Configuration	No		No		
Integrated Buffer Tank – Hydronic Stabilization	No		Yes	Yes	Yes
Page Number	12	15	17	19	23

GAS WATER HEATING



RESIDENTIAL

	Phoenix Light Duty	Crossover Floor
Appliance Type	Gas Fired Storage	Gas Fired Hybrid
Tank Material	316 L Stainless Steel	Stainless Steel
Modulation	3:1	2:1
Heat Exchanger	Cupronickel	Stainless Steel
Combination Domestic & Space Heating	with Air Handler	with Air Handler
Uniform Energy Factor	up to .90	up to .89
Btuh	76,000	100,000
Page Number	23	25

COMMERCIAL



	Phoenix Plus	Phoenix	Phoenix Multi-Fit	Elite XL VWH
Appliance Type	Gas Fired Storage Water Heater			Gas Fired Volume Water Heaters
Tank Material	316 L Stainless Steel			
Modulation	up to 10:1	5:1	5:1	up to 10:1
Heat Exchanger	Cupronickel & Stainless Steel			316 L Stainless Steel
Storage Tank Option				Requires Storage Tank
Multiple Heat Exchangers	Option			
Combination Domestic & Space Heating	with Air Handler			
Cascading				up to 8 Units
High Temp. Sanitation		SA Models		
Btuh	199,000 to 399,000	100,000 to 199,000	130,000 to 199,000	399,000 to 2,000,000
Page Number	17	19	21	27

ELECTRIC WATER HEATING



RESIDENTIAL

	Everlast				
	Residential	Grid Enabled	Elevate	Point of Use	Mini Tank
Appliance Type	Electric Water Heaters				
Tank Material	316 L Stainless Steel				Titanium Glass-Lined
Heat Exchanger/ Elements	Two (2) Titanium Elements		One (1) Titanium Element	One (1) Copper Element	
kW	4.5 or 5.5		5.5	1.5 or 5	1.4 to 2
Page Number	29	31	33	35	39

COMMERCIAL



	Everlast	
	Medium Duty 3 Element	Mini Tank
Appliance Type	Electric Water Heaters	
Tank Material	316 L Stainless Steel	Titanium Glass-Lined
Elements	Three (3) Titanium Elements	One (1) Copper Element
kW	12.5 to 18	1.4 to 2
Page Number	36	38

INDIRECT FIRED WATER HEATERS



	SuperStor			
	Ultra	Ultra Max	Contender	Contender Titanium
Appliance Type	Hydronic Indirects			
Tank Material	316L Stainless Steel		Glass-Lined	Titanium Glass-lined
Heat Exchanger	Finned Cupronickel	316L Stainless Steel	Smooth Enamel Coil	Smooth Enamel Coil
Double Wall Exchanger	Option			
Two Heat Exchangers	Option			
Multi-Source Heat Input	Available*	Available		
Page Number	40	42	44	45

*Commercial Model Features Two Heat Exchangers



SOLAR TANKS



	SSU Max Multi-Source	Large Volume Solar Tanks
Appliance Type	Indirect with an Electric Back-up	Large Volume Solar
Tank Material	316L Stainless Steel	Glass-lined Steel
ASME		Yes
Heat Exchanger	Stainless Steel with Electric Backup	Electric or Boiler Backup - Multiple Large Coils
Domestic Hot Water	Yes	
Additional Information	Limited 10 Year Warranty	Up to 1,000 Gallons Tank Size
Page Number	49	49

STORAGE TANKS



	SuperStor Ultra SS Storage	SuperStor GL 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	40	44	47

EliteXL[®]

COMMERCIAL HIGH EFFICIENCY CONDENSING BOILER



7 Sizes from
399,000 to 2,000,000 Btuh
97% Thermal Efficiency
Ultra-Low NOx Operation

Low Mass Boiler FEATURES:

4 pass heat exchanger with large internal circuits reduces pressure drop, allowing the unit to be used in variable flow system

Durable **316L stainless steel** construction pressure rated at 160 PSI bears the ASME Stamp (H)

Combustion System - **10 to 1** turndown

Three Pump Control - System, Boiler & DHW

7" High Resolution Touchscreen Display

Cascade sequencing up to **eight (8) boilers** – Redundancy of operation (no downtime) – providing a much larger turndown ratio while increasing overall system efficiency and performance with unit runtime rotation

HTP LINK - WiFi solution enables remote monitoring of the appliance and system

Direct vent up to 150 feet (1,500,000 to 2,000,000 Btuh Units) and up to 125 feet (399,000 to 1,000,000 Btuh Units) using PVC, CPVC, Polypropylene or Stainless Steel

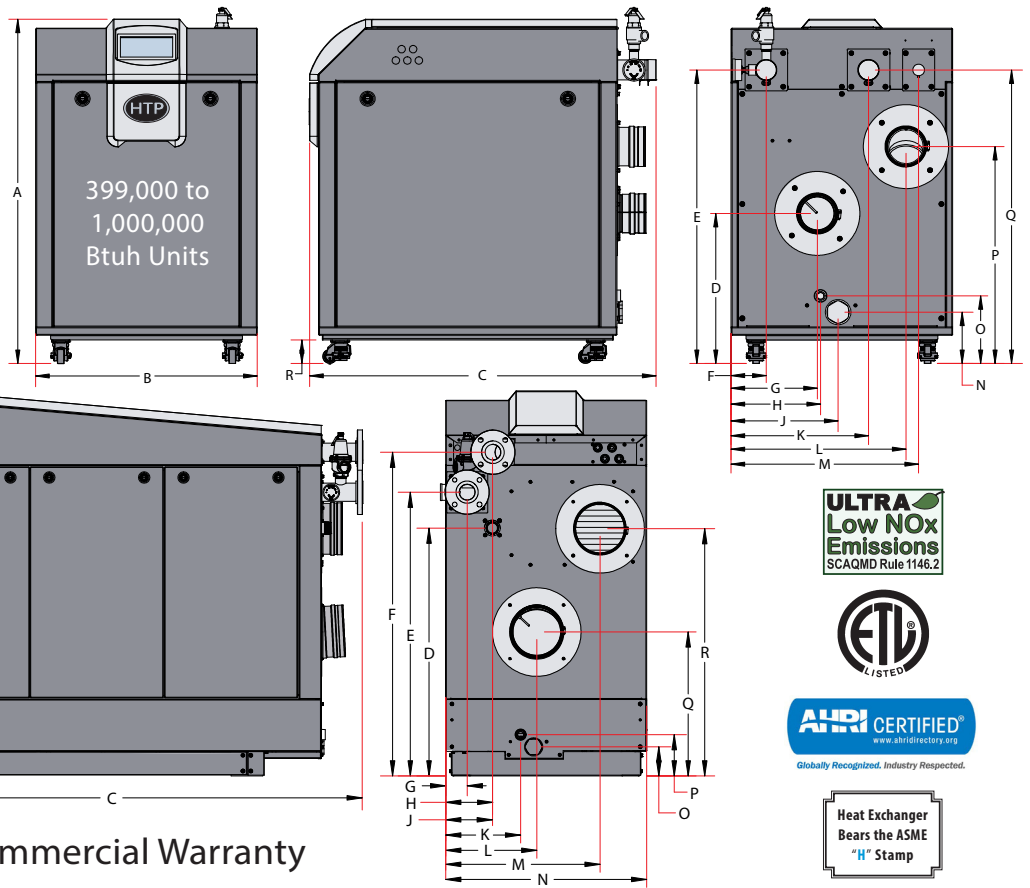
HTP LINK

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

Model ELX-	A	B	C	D	E	F
400-500	41.0	26.0	40.7	17.9	35.0	4.1
650-1000			56.5			
1500	60.8	31.8	66.5	39.2	44.8	51.2
2000			79.0			

Model ELX-	G	H	J	K	L	M
400-1000	10.1	10.5	12.6	16.1	20.5	22.0
1500-2000	3.4	7.4	7.5	11.9	14.4	24.4

Model ELX-	N	O	P	Q	R
400-1000	6.1	8.1	25.8	35.0	2.8*
1500-2000	31.8	4.6	6.5	22.7	39.1



Up to 10 Year Limited Commercial Warranty

Model ELX-		400FBN	500FBN	650FBN	800FBN	1000FBN	1500FBN	2000FBN
Minimum / Maximum Input (Btu/Hr)		39,900 / 399,000	50,000 / 500,000	65,000 / 650,000	80,000 / 800,000	100,000 / 1,000,000	150,000 / 1,500,000	200,000 / 2,000,000
Heating Capacity (MBH)		387	485	630	776	970	1,455	1,940
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent						
Minimum Combined Vent Run		10 feet						15 feet
Maximum Combined Vent Run		4" (125 feet)		6" (125 feet)			8" (150 feet)	
Approved Exhaust Vent Materials		PVC, CPVC, PP, Stainless Steel						
Packaging Dimensions (in Inches)	W	32.25					43.25	
	H	49.625					64.25	
	D	48		64			76	86
Shipping Weight (lbs)		538	545	680	700	745	1400	1750
Gas Supply Pressure		3.5" to 14"WC (NG or LP)						3.5" to 10.5"WC (NG ONLY)
Manifold Pressure	Min / Max	-0.08"WC (NG or LP)						-0.07"WC (NG ONLY)
Power Supply		120V 60 Hz, 21.3A						208/3PH WYE, 60Hz, 15A/Leg
Customer Connection Board Fuse Amperage Ratings		2 Amps						5 Amps
General Operating Conditions		Ambient Temperature Range: 33 – 104°F (0.6 – 40°C); Product Approvals and Requirements: ANSI Z21.13 / CSA 4.9, CSD-1 ASME Code						
Ignition System		Direct Electronic Spark Ignition / Flame Rectification						
Burner System		Premixed Fuel Modulation / Stainless Steel Burner						
Gas Valve System		Pneumatic Gas Valve						
Boiler Water Content (Gallons)		3.8	4.3	5.6	6.6	8.1	12.9	16.25
Minimum Flow Rate @ 20°F ΔT at Low Fire (GPM)		4	5	6.5	8	10	15	20
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	50						
Connection Sizes	Supply / Return	2" NPT					2 1/2" Flange	
	Gas Inlet	1" NPT			1 1/4" NPT		1 1/2" NPT	2" NPT
Materials	Cabinet	Powder Coated Galvaneal Steel						
	Heat Exchanger	316L Stainless Steel Water Tube						

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

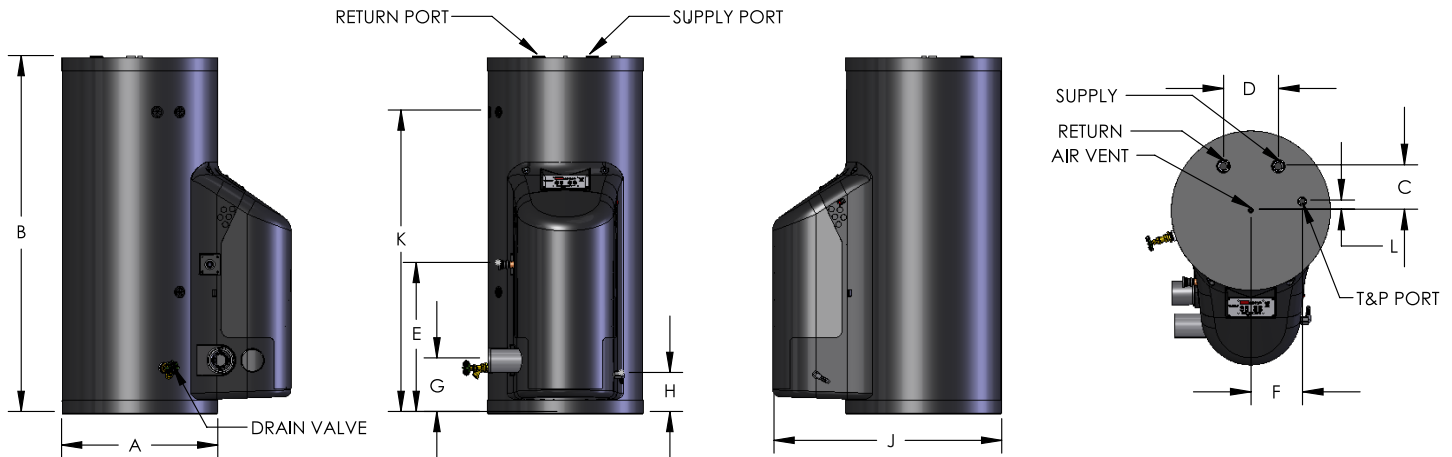
- Modulation provides a 5 to 1 turndown ratio
- Thermal mass in the stainless steel tank provides a buffer against cycling during low load conditions
- Low maintenance & space saving design
- Single loop installation: the heat exchanger is immersed in water and protected against "flashing" due to low 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

EliteULTRA Duo

Highly Efficient Condensing Commercial Heating Boilers

Features

DURABLE HEATING BOILERS

Firing Rates: 285,000, 301,000, 399,000 Btuh

Condensing technology with dual XtraTech Stainless Steel Heat Exchangers for many years of reliable performance

ABSOLUTE EFFICIENCY

Up to 95% AFUE / TE while using an outdoor sensor (included)

Industry leading 20:1 turndown ratio limits short cycling and provides more efficient energy consumption

THREE PUMP CONTROL - SYSTEM, BOILER, DHW

7" HIGH RESOLUTION TOUCHSCREEN DISPLAY

INDUSTRY LEADING - DIRECT VENT UP TO 150 FEET IN 4" PIPE

PROVEN PERFORMANCE

XtraTech Stainless Steel Heat Exchanger

CASCADE UP TO FOUR (4) BOILERS

Offers further Redundancy of Operation (no downtime) - providing a much greater turndown ratio (up to 80 to 1) while increasing overall system efficiency and performance with unit runtime rotation

DUAL HEAT EXCHANGERS PROVIDE BUILT-IN

OPERATIONAL REDUNDANCY

SMART CONNECTIVITY WITH HTP LINK

This Elite Ultra Duo is always at your fingertips with a WiFi gateway on board, allowing the boiler and its many system parameters to be monitored remotely

EASY TO SERVICE WITH QUICK SNAP COMPONENT AND SENSOR CONNECTIONS

FLOOR MOUNT MODELS CAN BE STACKED WITH OPTIONAL KIT

TEN (10) YEAR LIMITED WARRANTY



285,000 to 399,000 Btuh

Built-In Redundancy

Ultra-Low NOx Operation

HTP LINK

Specifications

Model		ELUD-285FBN	ELUD-301FBN	ELUD-399FBN
Installation		Indoor, Floor Standing, Fully Condensing		
Minimum / Maximum Input (Btu/Hr) ¹		19,900 / 285,000	19,900 / 301,000	19,900 / 399,000
DOE AFUE / Thermal Efficiency (TE) ²		95% AFUE	95% TE	95% TE
Heating Capacity (HC) / Gross Output (GO) (MBH) ^{1, 2}		265 HC	286 GO	379 GO
Net AHRI Rating, Water (MBH) ²		230	N/A	N/A
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent		
Min - Max Exhaust Vent Run ³		4" (10 - 150 feet)		
Min - Max Intake Air Pipe Run ³		4" (0 - 150 feet)		
Approved Exhaust Vent Materials ³		PVC, CPVC, PP, Stainless Steel		
Packaging Dimensions (in Inches)	W	35"		
	H	47.5"		
	D	35"		
Shipping Weight (lbs)		355.5		
Gas Supply Pressure	NG	3.5" to 10.5" WC		
	LP	8" to 13" WC		
Manifold Pressure	Min / Max	NG/LP: -0.08" WC		
Power Supply		120V 60 Hz, 20A		
Customer Connection Board Fuse Amperage Ratings		2 Amps		
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 Burner		
Gas Valve System		Air Ratio Valve		
Dimensions (in Inches)	W	30		
	H	41		
	D	24		
Boiler Water Content (Gallons)		5.4		
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	55		
	Pressure Relief Valve	50		
Control Panel		7" Full Color Touch Screen		
Main Controller		928 SIT Control		
Connection Sizes	Supply / Return	1-1/2" Copper Male Sweat		
	Gas Inlet	3/4" NPT		
Materials	Cabinet	Powder Coated Galvanized Steel		
	Heat Exchanger	Type 441 Stainless Steel Water Tube		
Safety Devices*		Flame Rectifier Probe, Dual Water Supply Temperature Sensor / High Limit (210°F), Freeze Protection, Condensate Trap, Blocked Condensate Pressure Switch, Flue Temperature High Limit Sensor (210°F), Blocked Vent Pressure Switch, Internal UL 353 Low Water Cut-Off, High Resolution Flow Switch, Pressure Relief Valve		

Table 1 - Technical Specifications - *Each heat exchanger features the safety devices listed above.

NOTES:

¹Listed Input and Output Ratings are at minimum vent lengths at an altitude of 0 - 2000 ft. Numbers will be lower with longer venting and/or altitudes greater than 2000 ft.

²Ratings based on standard test procedures prescribed by the US Department of Energy.

³The ELU Duo requires a special venting system. Use only the vent materials and methods detailed in these installation instructions.



10 Year Limited Warranty

EliteULTRA

Highly Efficient Condensing Boiler & Combi Units

Features

DURABLE HEATING - BOILER & COMBI UNITS

Boiler Firing Rates: 85,000, 120,000, 150,000, 199,000 Btuh

Combi Firing Rates: 120,000, 150,000, 199,000 Btuh

Condensing technology with a new and patented XtraTech Stainless Steel Heat Exchanger, ensuring many years of reliable performance

ABSOLUTE EFFICIENCY

Up to 96% AFUE while using an outdoor sensor (included)

Up to 11:1 turndown ratio limits short cycling and provides more efficient energy consumption

Built-in automatic bypass eliminates expensive primary / secondary piping

Equipped with a built-in highly efficient ECM Pump

WHISPER QUIET OPERATION

Thanks to a pump and combustion fan with insulating panels

EASY TO USE INTERFACE

LCD display with digits, symbols, and an intuitive menu to easily set the desired temperature, activate functions, and even manage different heating zones

COMBI BOILER: FULL COMFORT SETTING

Domestic hot water preheat function for instant hot water

SMART CONNECTIVITY WITH HTP LINK

The Elite Ultra boiler is always at your fingertips with a WiFi gateway on board, allowing the boiler and its many system parameters to be monitored remotely

Set up real-time service notifications and maintenance alerts to ensure that the unit is regularly monitored, overdue for maintenance, or if professional assistance is recommended

EASY TO SERVICE WITH QUICK SNAP COMPONENT AND SENSOR CONNECTIONS

FIFTEEN (15) YEAR LIMITED WARRANTY

FLOOR AND WALL MOUNT MODELS AVAILABLE



ELU-85 - 120 Boiler and
120 - 150 Combi Model Shown



ELU-150 - 199 Boiler and
199 Combi Model Shown



Floor Mount ("FLK") Model Shown

Specifications

Model		ELU-85WBN	ELU-120WBN	ELU-120WCN	ELU-150WCN
Type		Boiler		Combi	
Installation		Indoor, Wall Hung, Fully Condensing			
Space Heating Minimum / Maximum Input (Btu/Hr) ¹		9,400 / 85,000	13,200 / 120,000	11,200 / 106,000	13,200 / 120,000
Domestic Hot Water Minimum / Maximum Input (Btu/Hr) ¹		N/A	N/A	11,200 / 114,000	13,200 / 150,000
DOE AFUE ² (%)		96	95	95.5	95
Heating Capacity ^{1, 2} (MBH)		79	111	98	111
Net AHRI Rating, Water (MBH) ¹²		69	97	85	97
Hot Water Capacity	35°F Rise	N/A	N/A	6.8	8.5
	45°F Rise	N/A	N/A	5.3	6.6
	77°F Rise	N/A	N/A	3.1	3.8
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent			
Minimum - Maximum Exhaust Vent Run ³		2" (6 - 100 feet), 3" (6 - 150 feet)			
Minimum - Maximum Intake Air Pipe Run ³		2" (0 - 100 feet), 3" (0 - 150 feet)			
Approved Exhaust Vent Materials ³		PVC, CPVC, PP, Stainless Steel			
Shipping Weight (lbs)		78	84	83	84
Gas Supply Pressure	NG	3.5"to 10.5"WC			
	LP	8"to 13"WC			
Power Supply		120V, 60 Hz, less than 12A			
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 Burner			
Gas Valve System		Air Ratio Valve			
Dimensions (in Inches)	W	16" 3/64			
	H	43" 5/8			
	D	15" 1/8			
Approx. Full Boiler Weight (lbs)		88.2	88.6	91	92.8
Boiler Water Content (Gallons)		1.1	1.2	1.1	1.2
Boiler Setpoint Temperature Range		68 – 122°F Low Temperature / 86 - 179°F High Temperature			
DHW Indirect Setpoint Temperature Range		104 – 149°F			
DHW Setpoint Range (Combi Models)		97 – 140°F			
Water Pressure (PSI)	Heat Exchanger MAWP	50			
	Pressure Relief Valve	30			
	DHW Max Pressure	N/A	N/A	150	150
Control Panel / Main Controller		AristonThermo LCD Display / AristonThermo GALEVO2 Control			
Connection Sizes	CH Supply / Return	1" Male Sweat with Adapter			
	DHW Inlet / Outlet	3/4" Male Sweat with Adapter			
	Gas Inlet	3/4" Male NPT			
Materials	Cabinet	Painted Steel and Plastic			
	Heat Exchanger	Type 441 Stainless Steel Water Tube			
Safety Devices		Flame Rectifier Probe, Temperature Limit Control (190°F), Water Pressure Switch (Min. 8 PSI), Freeze Protection, Blocked Condensate Pressure Switch, Condensate Trap, Flue Temperature High Limit Sensor (210°F), Blocked Vent Pressure Switch			

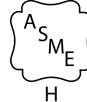
Table 2 - Technical Specifications

NOTES:

¹ Listed Input and Output Ratings are at minimum vent lengths at an altitude of 0 - 2000 ft. Numbers will be lower with longer venting and/or altitudes greater than 2000 ft.

² Ratings based on standard test procedures prescribed by the US Department of Energy.

³ The ELU requires a special venting system. Use only the vent materials and methods detailed in these installation instructions.



15 Year Limited Warranty

Specifications

Model		ELU-150WBN	ELU-150WBN-FLKT	ELU-199WBN	ELU-199WBN-FLKT	ELU-199WCN	ELU-199WCN-FLKT
Type		Boiler				Combi	
Installation		Indoor, Wall Hung, Fully Condensing					
Minimum / Maximum Input (Btu/Hr) ¹		15,000 / 150,000		NG	19,700 / 197,000	NG	19,700 / 197,000
				LP	19,200 / 192,000	LP	19,200 / 192,000
DOE AFUE ² (%)		95		95		95	
Heating Capacity ^{1, 2} (MBH)		139		184		184	
Net AHRI Rating, Water (MBH) ²		121		160		160	
Hot Water Capacity	35°F Rise	N/A		N/A		10.5	
	45°F Rise	N/A		N/A		8.2	
	77°F Rise	N/A		N/A		4.8	
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent					
Minimum - Maximum Exhaust Vent Run ³		2" (6 - 100 feet) / 3" (6 - 150 feet)		3" (6 - 150 feet)			
Minimum - Maximum Intake Air Pipe Run ³		2" (0 - 100 feet) / 3" (0 - 150 feet)		3" (0 - 150 feet)			
Approved Exhaust Vent Materials ³		PVC, CPVC, PP, Stainless Steel					
Shipping Weight (lbs)		115	150	125	160	130	165
Gas Supply Pressure	NG	3.5" to 10.5" WC					
	LP	8" to 13" WC					
Power Supply		120V, 60 Hz, less than 12A					
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 Burner					
Gas Valve System		Air Ratio Valve					
Dimensions (in Inches)	W	19.75"	21.65"	19.75"	21.65"	19.75"	21.65"
	H	38.25"	50.97"	38.25"	50.97"	38.25"	50.97"
	D	18.5"	20.09"	18.5"	20.09"	18.5"	20.09"
Approx. Full Boiler Weight (lbs)		115	150	130	165	135	170
Boiler Water Content (Gallons)		2		2.7			
Boiler Setpoint Temperature Range		68 – 122°F Low Temperature / 86 - 179°F High Temperature					
DHW Indirect Setpoint Temperature Range		104 – 149°F					
DHW Setpoint Range (Combi Models)		97 – 140°F					
Water Pressure (PSI)	Heat Exchanger MAWP	50					
	Pressure Relief Valve	30					
	DHW Max Pressure	N/A		N/A		150	
Control Panel / Main Controller		AristonThermo LCD Display / AristonThermo GALEVO2 Control					
Connection Sizes	CH Supply / Return	1 1/4" Male NPT					
	DHW Inlet / Outlet	3/4" Male NPT					
	Gas Inlet	3/4" Male NPT					
Materials	Cabinet	Painted and Galvanized Steel					
	Heat Exchanger	Type 441 Stainless Steel Water Tube					
Safety Devices		Flame Rectifier Probe, Temperature Limit Control (190°F), Water Pressure Switch (Min. 8 PSI), Freeze Protection, Condensate Trap, Flue Temperature High Limit Sensor (210°F)					

Table 3 - Technical Specifications

NOTES:

¹ Listed Input and Output Ratings are at minimum vent lengths at an altitude of 0 - 2000 ft. Numbers will be lower with longer venting and/or altitudes greater than 2000 ft.

² Ratings based on standard test procedures prescribed by the US Department of Energy.

³ The ELU requires a special venting system. Use only the vent materials and methods detailed in these installation instructions.



15 Year Limited Warranty

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

Elite Fire Tube ULTRA

Highly Efficient Condensing Boiler & Combi Units

Features

DURABLE HEATING - BOILER & COMBI UNITS

Boiler Firing Rates: 85,000, 110,000, 150,000, 199,000 Btuh

Combi Firing Rates: 110,000, 150,000, 199,000 Btuh

Vertical down fired Stainless Steel Heat Exchanger for exceptional efficiency, low pressure drop, and durable performance

ABSOLUTE EFFICIENCY

Up to 96% AFUE while using an outdoor sensor (included)

10:1 turndown ratio limits short cycling and provides more efficient energy consumption

Built-in automatic bypass eliminates expensive primary / secondary piping

Equipped with a built-in highly efficient ECM Pump

WHISPER QUIET OPERATION

Thanks to a pump and combustion fan with insulating panels

EASY TO USE INTERFACE

LCD display with digits, symbols, and an intuitive menu to easily set the desired temperature, activate functions, and manage different heating zones

COMBI BOILER: FULL COMFORT SETTING

Domestic hot water preheat function for instant hot water

SMART CONNECTIVITY WITH HTP LINK

The Elite Ultra boiler is always at your fingertips with a WiFi gateway on board, allowing the boiler and its many system parameters to be monitored remotely

Set up real-time service notifications and maintenance alerts to ensure that the unit is regularly monitored, overdue for maintenance, or if professional assistance is recommended

EASY TO SERVICE WITH QUICK SNAP COMPONENT AND SENSOR CONNECTIONS

ASSE 1017 & 1070 CERTIFIED THERMOSTATIC MIXING VALVE INCLUDED WITH COMBI UNITS

FIFTEEN (15) YEAR LIMITED WARRANTY



Specifications

Model		EFTU-85WBN	EFTU-110WBN	EFTU-150WBN	EFTU-199WBN	EFTU-110WCN	EFTU-150WCN	EFTU-199WCN
Type		Boiler	Boiler	Boiler	Boiler	Combi	Combi	Combi
Installation		Indoor, Wall Hung, Fully Condensing						
Minimum / Maximum Input (Btu/Hr) ¹		8,500 / 85,000	11,000 / 110,000	15,000 / 150,000	19,900 / 199,000	11,000 / 110,000	15,000 / 150,000	19,900 / 199,000
DOE AFUE ² (%)		96	95	95	95	95	95	95
Heating Capacity ^{1, 2} (MBH)		79	101	138	184	101	138	184
Net AHRI Rating, Water (MBH) ²		69	88	120	160	88	120	160
Hot Water Capacity	35°F Rise	N/A	N/A	N/A	N/A	5.8	7.9	10.5
	45°F Rise					4.5	6.1	8.2
	77°F Rise					2.6	3.6	4.8
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent						
Minimum - Maximum Exhaust Vent Run ³		2" (6 - 100 feet), 3" (6 - 150 feet)			3" (6 - 150 feet)	2" (6 - 100 feet), 3" (6 - 150 feet)		3" (6 - 150 feet)
Minimum - Maximum Intake Air Pipe Run ³		2" (0 - 100 feet), 3" (0 - 150 feet)			3" (0 - 150 feet)	2" (0 - 100 feet), 3" (0 - 150 feet)		3" (0 - 150 feet)
Approved Exhaust Vent Materials ³		PVC, CPVC, PP, Stainless Steel						
Shipping Weight (lbs)		110	110	120	131	110	121	132
Gas Supply Pressure	NG	3.5" to 10.5" WC						
	LP	8" to 13" WC						
Power Supply		120V, 60 Hz, less than 12A						
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 Burner						
Gas Valve System		Air Ratio Valve						
Dimensions (in Inches)	W	19.75						
	H	38.25						
	D	17		18.5		17	18.5	
Approx. Full Boiler Weight (lbs)		107	107	122	139.5	107	128.5	140.5
Boiler Water Content (Gallons)		1.4	1.4	2.0	2.8	1.5	2.1	2.8
Boiler Setpoint Temperature Range		68 – 122°F Low Temperature / 86 - 179°F High Temperature						
DHW Indirect Setpoint Temperature Range		104 – 149°F						
DHW Setpoint Range (Combi Models)		97 – 149°F						
Water Pressure (PSI)	Heat Exchanger MAWP	50						
	Pressure Relief Valve	30						
	DHW Max Pressure	N/A	N/A	N/A	N/A	150	150	150
Control Panel / Main Controller		AristonThermo LCD Display / AristonThermo GALEVO2 Control						
Connection Sizes	CH Supply / Return	1 1/4" Male NPT						
	DHW Inlet / Outlet	3/4" Male NPT						
	Gas Inlet	3/4" Male NPT						
Materials	Cabinet	Painted Steel						
	Heat Exchanger	SA-240-S43932 Stainless Steel Water Tube						
Safety Devices		Flame Rectifier Probe, Temperature Limit Control (190°F), Water Pressure Switch (Min. 8 PSI), Freeze Protection, Blocked Condensate Pressure Switch, Condensate Trap, Flue Temperature High Limit Sensor (210°F), Blocked Vent Pressure Switch						

Table 4 - Technical Specifications

NOTES:

¹ Listed Input and Output Ratings are at minimum vent lengths at an altitude of 0 - 2000 ft. Numbers will be lower with longer venting and/or altitudes greater than 2000 ft.

² Ratings based on standard test procedures prescribed by the US Department of Energy.

³ The EFTU requires a special venting system. Use only the vent materials and methods detailed in these installation instructions.



15 Year Limited Warranty

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

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*
- 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

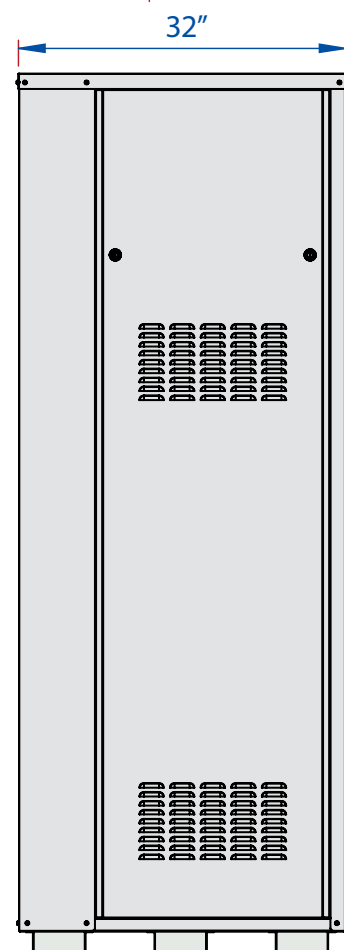
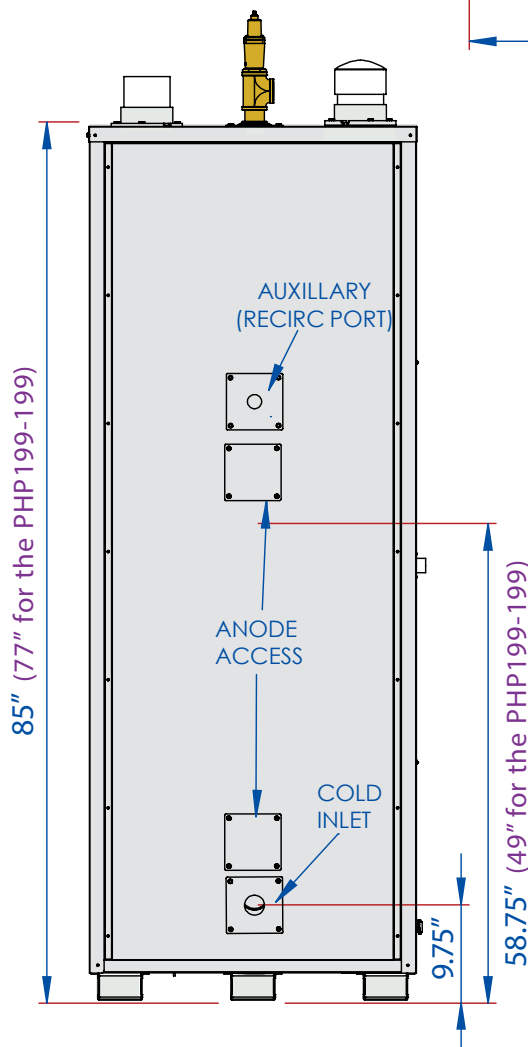
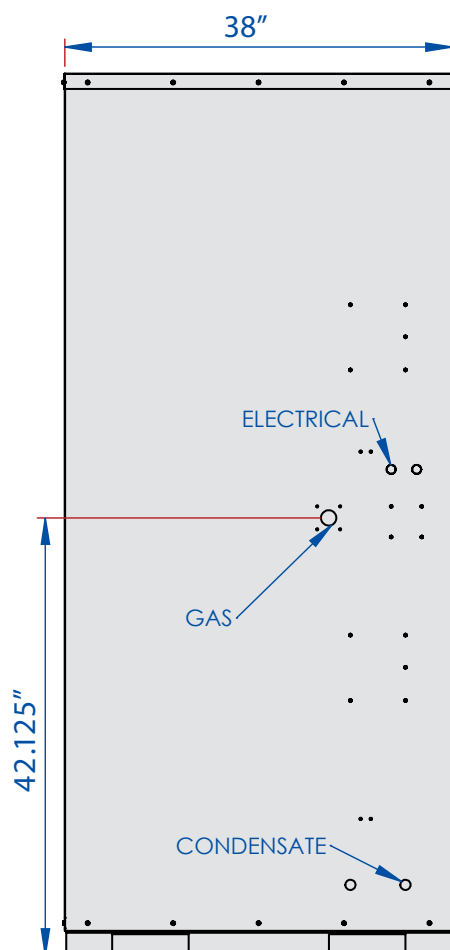
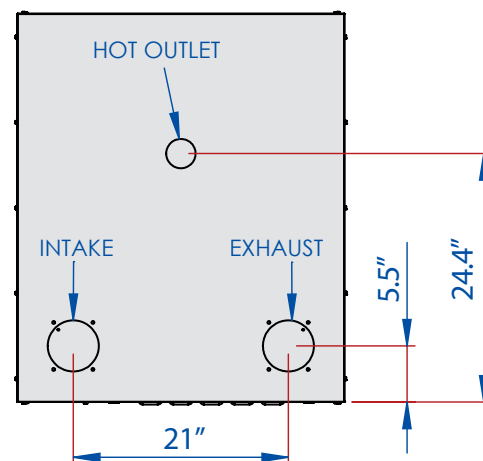
- Up to 95% Thermal Efficiency
- 2 Modulating Burners - Up to 10:1 Turndown Ratio (PHP199-199: 1 Burner; 199K model: 5:1 Turndown Ratio)
- Vents in PVC, CPVC, Stainless Steel, ULC S636
- Spark ignition
- Dual flame monitoring (Spark & Flame probe)
- Flame stabilization monitoring
- Integrated Control 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%

ThePhoenix[®] 316L Stainless Steel Tank

HTP's Unique Design

Our **laser welded, stainless steel** tank is the best in the industry and will outlast any glass-lined tank. This **lightweight** tank is built to last! The Phoenix has a **5:1 turndown ratio** that 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).

Super Durable:

- 316L stainless steel tank
- Hybrid cupronickel / stainless steel heat exchanger
- 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

Sanitizer Options Available

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.

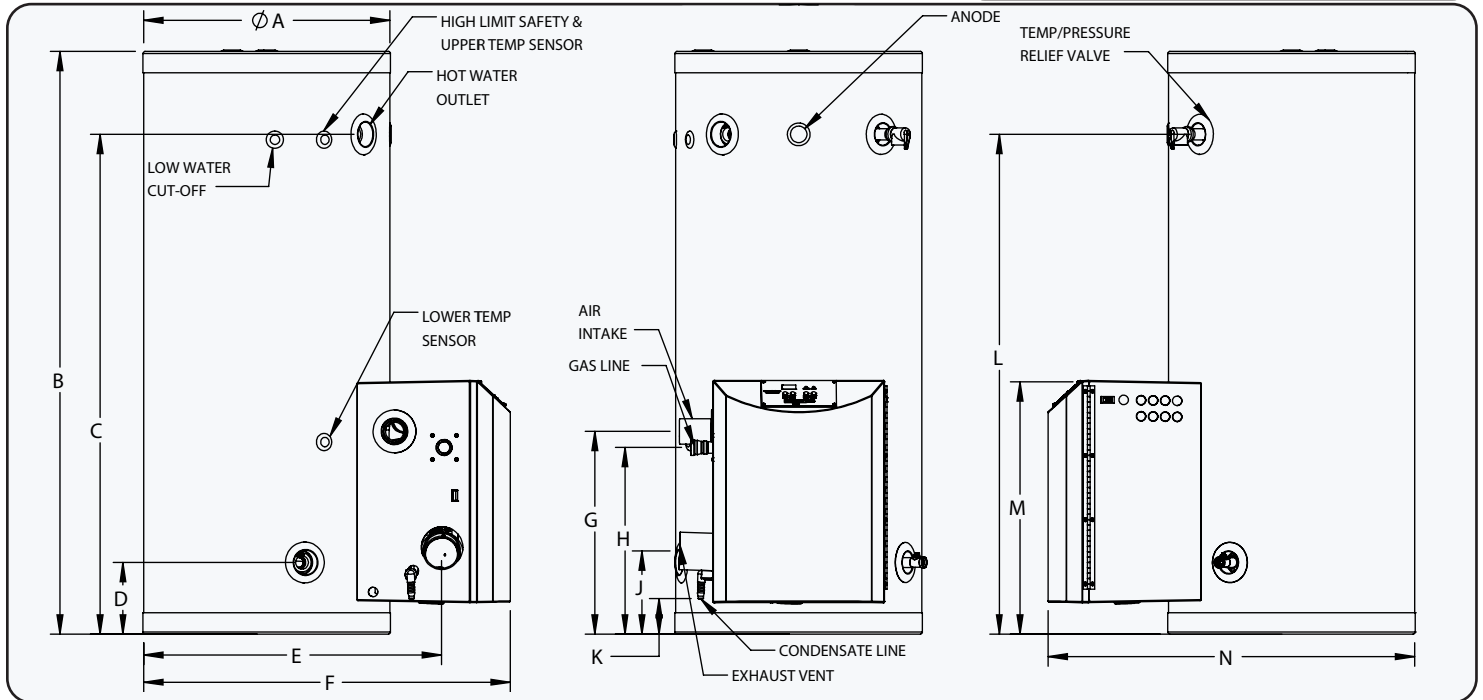
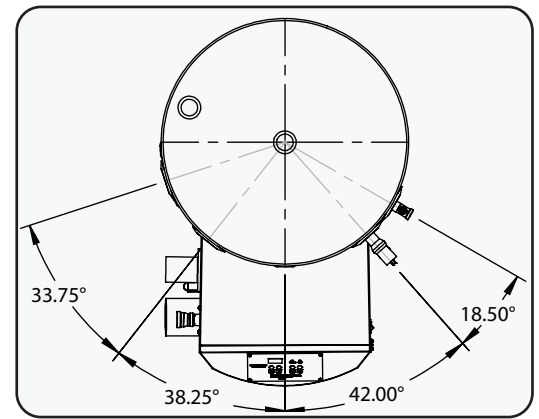
Up to 96% Efficient



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
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 and Specifications



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"
PH199-55SA (Sanitizer)	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	Gas Line Conn.	System Relief Pipe	Shipping Weight	Max. Temp Limit	T. Efficiency / UEF
PH100-55	100,000	2"	1" NPT	3/4"	3/4"	175 LBS	160 F	.89
PH130-55	130,000	2"	1" NPT	3/4"	3/4"	175 LBS	160 F	94%
PH160-55	160,000	3"	1" NPT	3/4"	3/4"	175 LBS	160 F	95%
PH199-55	199,000	3"	1" NPT	3/4"	3/4"	175 LBS	160 F	95%
PH100-80	100,000	2"	1-1/2" NPT	3/4"	3/4"	235 LBS	160 F	.93
PH130-80	130,000	2"	1-1/2" NPT	3/4"	3/4"	235 LBS	160 F	95%
PH160-80	160,000	3"	1-1/2" NPT	3/4"	3/4"	235 LBS	160 F	96%
PH199-80	199,000	3"	1-1/2" NPT	3/4"	3/4"	235 LBS	160 F	95%
PH100-119	100,000	2"	1-1/2" NPT	3/4"	3/4"	405 LBS	160 F	.90
PH130-119	130,000	2"	1-1/2" NPT	3/4"	3/4"	405 LBS	160 F	96%
PH160-119	160,000	3"	1-1/2" NPT	3/4"	3/4"	405 LBS	160 F	96%
PH199-119	199,000	3"	1-1/2" NPT	3/4"	3/4"	405 LBS	160 F	96%
PH199-55SA	199,000	3"	1" NPT	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
- 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

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

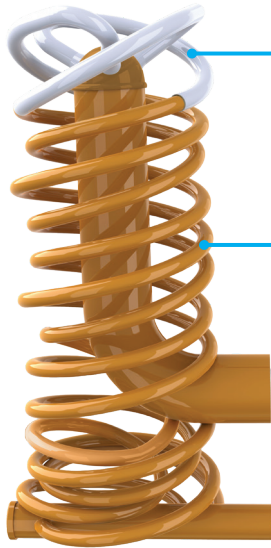
80/100 Gallon - 130k/199k Btuh



Inlet/Outlet Connections On Both The Top & Side

HTP's Unique Heat Exchanger

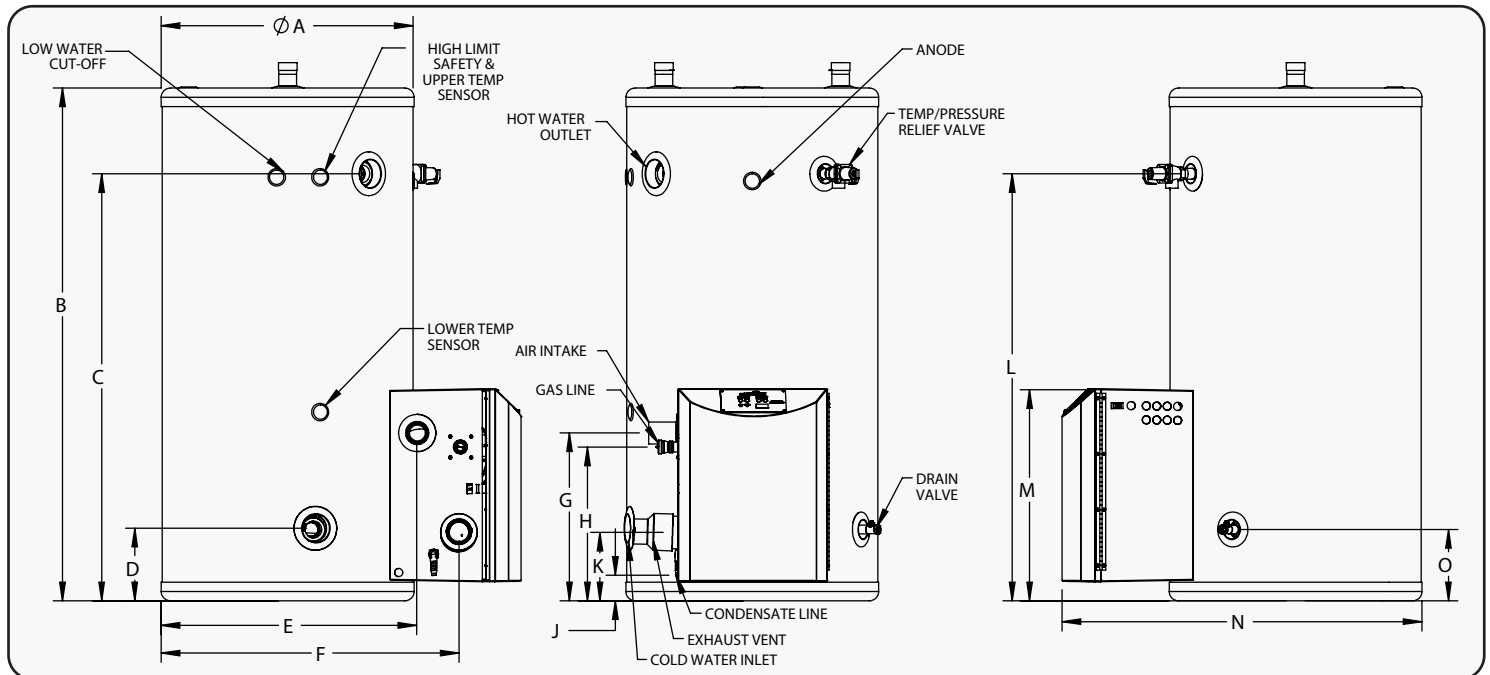
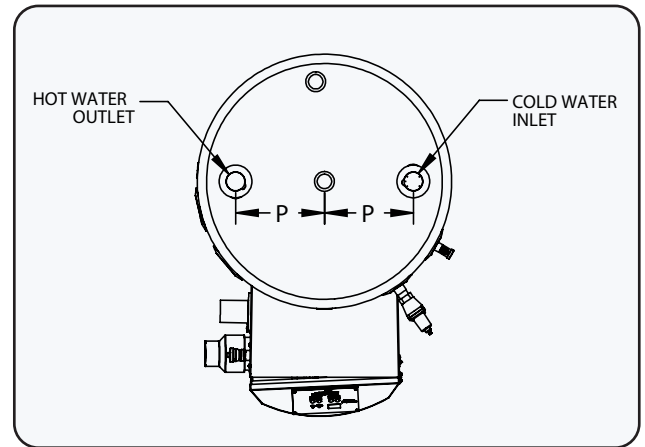
Durable Construction • High Performance • Excellent Heat Transfer Capabilities • Self Cleaning



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 .90 UEF

Modulating Combustion System

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

Superior Tank Construction: 316L Stainless Steel

- Laser welded precision
- 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 - its cupronickel heat exchanger design boasts excellent heat transfer properties and resists corrosion

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

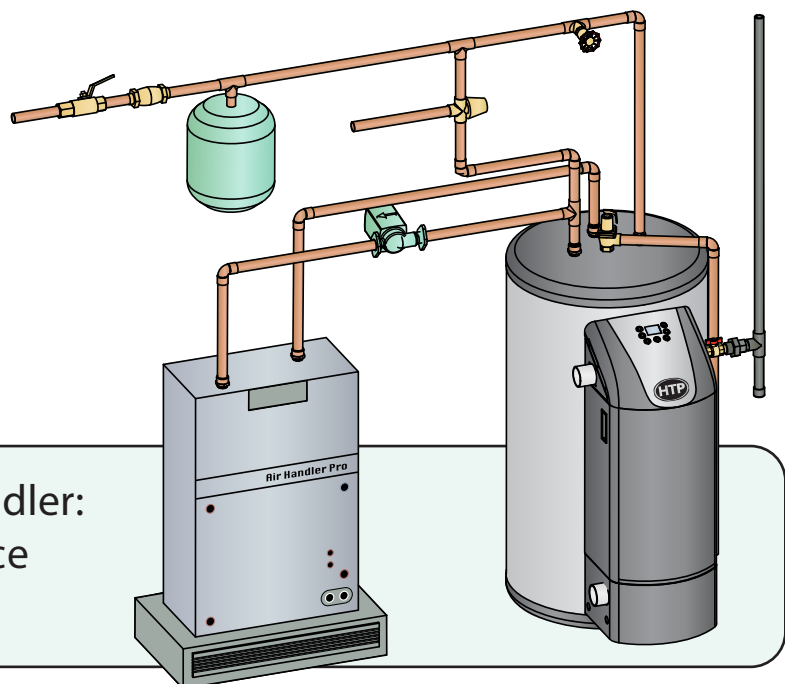
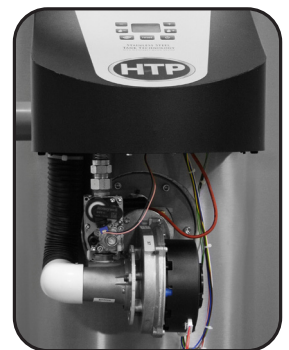
- Top ports on inlet and outlet (patent pending integral inlet mixing device)
- Top connect auxiliary port for recirculation line or air handler piping increases overall efficiency

Advanced Electronic Control

- Easy to read LCD (icon and text) display

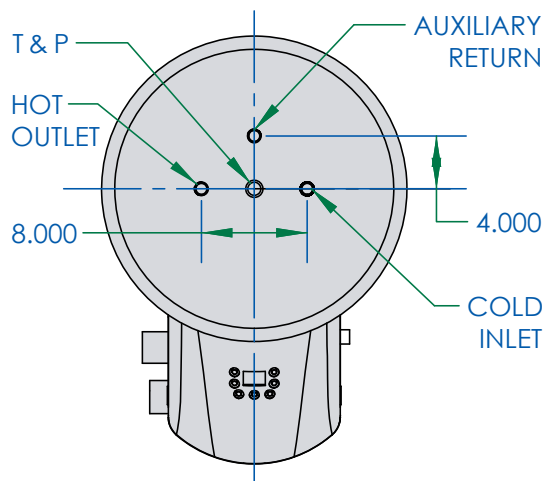
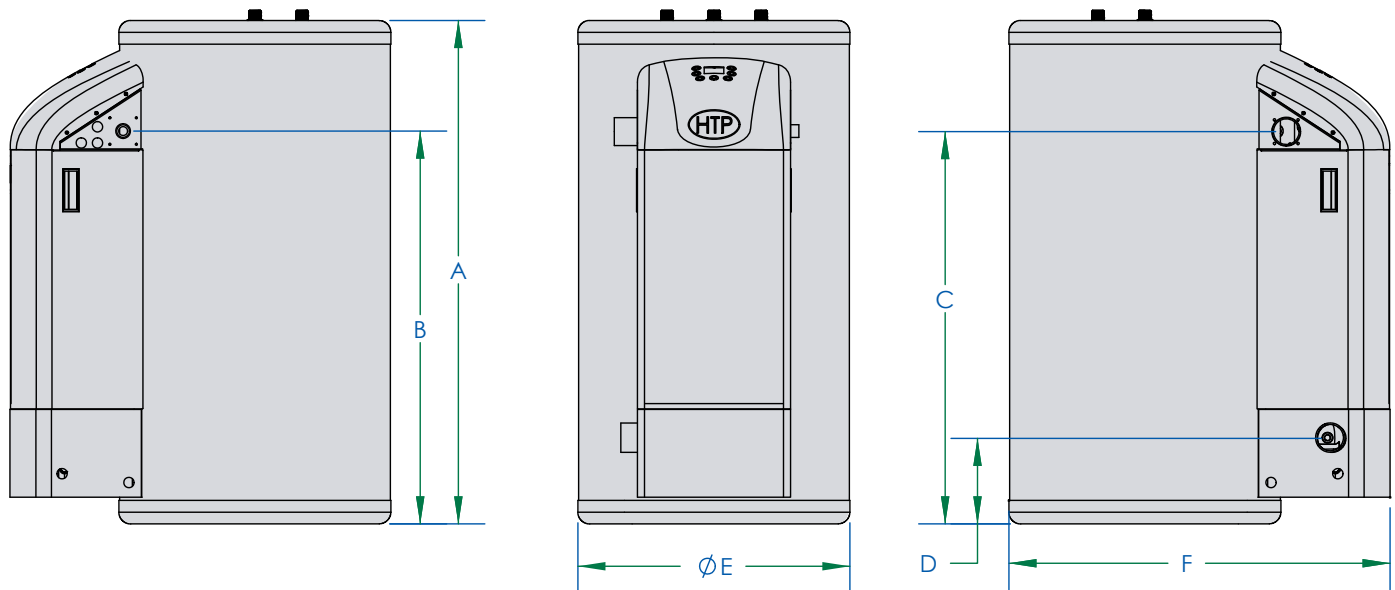


Combustion System



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

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	Shipping Weight (lbs Est.)	Vent Size	Gas Line	Inlet/Outlet Size	Relief Valve	Aux Conn.
PH76-50	44.75"	33"	33"	6.75"	23"	32.5"	50 GAL.	155	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.	170					
PH76-80	69"	33"	33"	6.75"	23"	32.5"	80 GAL.	195					

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

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

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 (prepipd) 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

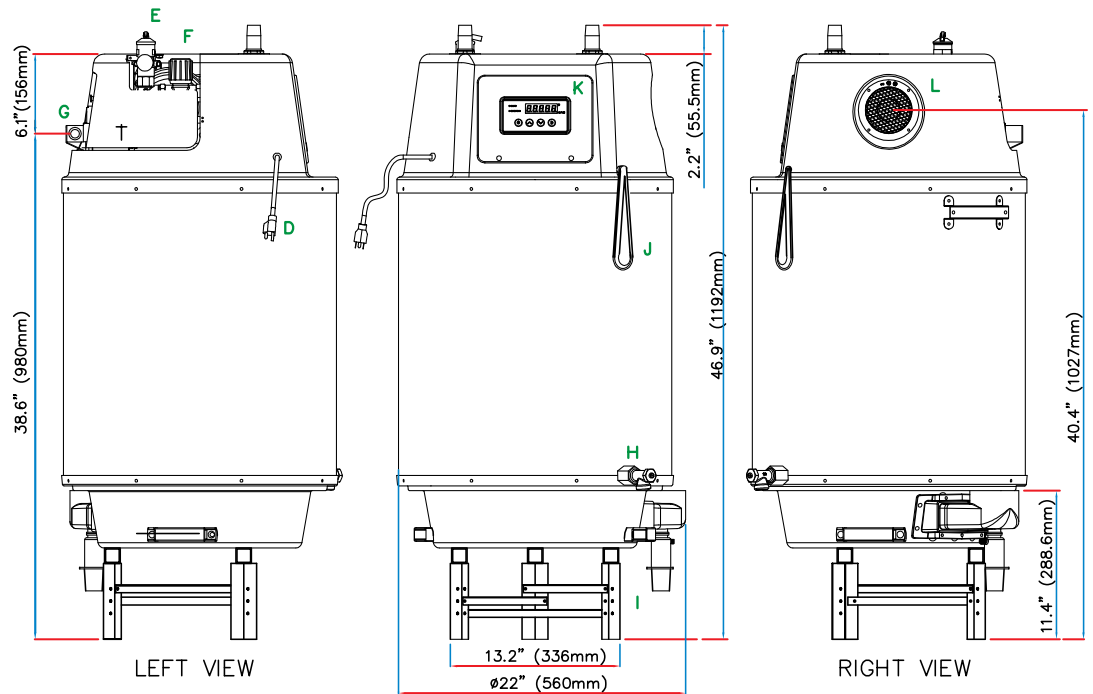
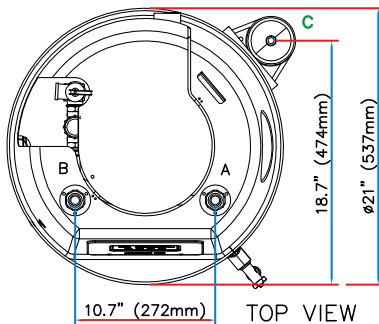
Half the Storage and
Twice the Btuh Result in a
Recovery Rate that is
4 Times Faster than
Traditional Storage Units!



**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



Model		RGH20-100F*
Efficiency		UEF.87
Recovery Efficiency		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		2 GPH
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)		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 @ 90°F		130 Gal.
Tank Material		Stainless Steel, Built-In Aluminum Anode Rod
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 147°F
Tank Storage Temperature Settings		Normal 127°F / Hot 137°F / Hotter 147°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



EliteXL^{VWH}

VOLUME WATER HEATER

4 pass heat exchanger with large internal circuits reduces pressure drop, allowing the unit to be used in variable flow system

Durable **316L stainless steel** construction pressure rated at 160 PSI bears the ASME Stamp (H)

Combustion System - **10 to 1** turndown

Three Pump Control - System, Boiler & DHW

7" High Resolution Touchscreen Display

Cascade sequencing up to **8 volume water heaters** – Redundancy of operation (no downtime) – providing a much larger turndown ratio and increasing the overall system efficiency and performance with unit runtime rotation

HTP LINK - WiFi solution enables remote monitoring of the appliance and system

Direct vent up to 150 feet (1,500,000 to 2,000,000 Btuh Units) and up to 125 feet (399,000 to 1,000,000 Btuh Units) using PVC, CPVC, Polypropylene or Stainless Steel

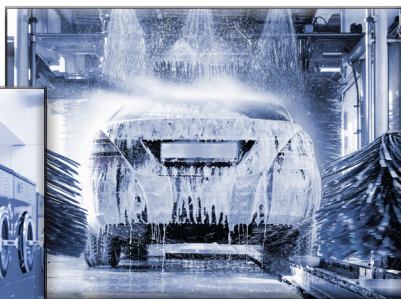
Up to 7 Inputs From
399,000 to 2,000,000 Btuh

98% Thermal Efficiency



HTP LINK

laundromat car-wash



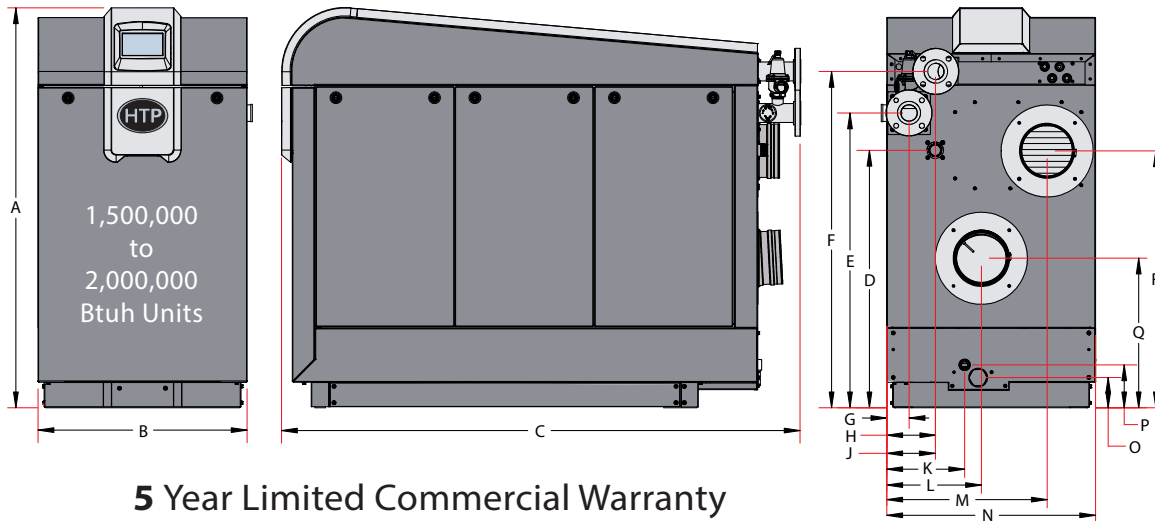
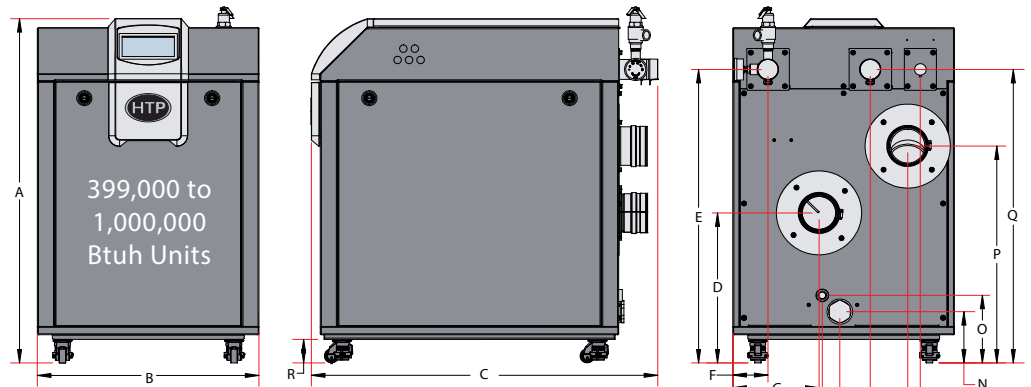
hotel brewery



Model ELX-	A	B	C	D	E	F
400-500	41.0	26.0	40.7	17.9	35.0	4.1
650-1000			56.5			
1500	60.8	31.8	66.5	39.2	44.8	51.2
2000			79.0			

Model ELX-	G	H	J	K	L	M
400-1000	10.1	10.5	12.6	16.1	20.5	22.0
1500-2000	3.4	7.4	7.5	11.9	14.4	24.4

Model	N	O	P	Q	R
400-1000	6.1	8.1	25.8	35.0	2.8*
1500-2000	31.8	4.6	6.5	22.7	39.1



5 Year Limited Commercial Warranty

Model ELX-		400FVWHN	500FVWHN	650FVWHN	800FVWHN	1000FVWHN	1500FVWHN	2000FVWHN
Minimum / Maximum Input (Btu/Hr)		39,900 / 399,000	50,000 / 500,000	65,000 / 650,000	80,000 / 800,000	100,000 / 1,000,000	150,000 / 1,500,000	200,000 / 2,000,000
Heating Capacity (MBH)		387	485	630	776	970	1,455	1,940
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent						
Minimum Combined Vent Run		10 feet					15 feet	
Maximum Combined Vent Run		4" (125 feet)		6" (125 feet)			8" (150 feet)	
Approved Exhaust Vent Materials		PVC, CPVC, PP, Stainless Steel						
Packaging Dimensions (in Inches)	W	32.25					43.25	
	H	49.625					64.25	
	D	48		64			76	86
Shipping Weight (lbs)		538	545	680	700	745	1400	1750
Gas Supply Pressure		3.5" to 14"WC (NG or LP)						3.5" to 10.5"WC (NG ONLY)
Manifold Pressure	Min / Max	-0.08"WC (NG or LP)						-0.07"WC (NG ONLY)
Power Supply		120V 60 Hz, 6.3A						208/3PH WYE, 60Hz, 10A/Leg
Customer Connection Board Fuse Amperage Ratings		2 Amps						5 Amps
General Operating Conditions		Ambient Temperature Range: 33 – 104°F (0.6 – 40°C) • Product Approvals and Requirements: ANSI Z21.13 / CSA 4.9, CSD-1 ASME Code						
Ignition System		Direct Electronic Spark Ignition / Flame Rectification						
Burner System		Premixed Fuel Modulation / Stainless Steel Burner						
Gas Valve System		Pneumatic Gas Valve						
VWH Water Content (Gallons)		3.8	4.3	5.6	6.6	8.1	12.9	16.25
Minimum Flow Rate @ 20oF ΔT at Low Fire (GPM)		4	5	6.5	8	10	15	9
Flow Switch Activation (GPM)		4					9	
DHW Indirect Setpoint Temperature Range		70 – 185°F						
Water Pressure (PSI)	Heat Exchanger MAWP	160						
	Relief Valve	Temperature: 210F / Pressure: 150						
Connection Sizes	Supply / Return	2" NPT					2 1/2" Flange	
	Gas Inlet	1" NPT			1 1/4" NPT		1 1/2" NPT	2" NPT
Materials	Cabinet	Powder Coated Galvaneal Steel						
	Heat Exchanger	316L Stainless Steel Water Tube						

EVERLAST®

RESIDENTIAL

Stainless Steel Electric Water Heater



Limited **LIFETIME** Residential 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

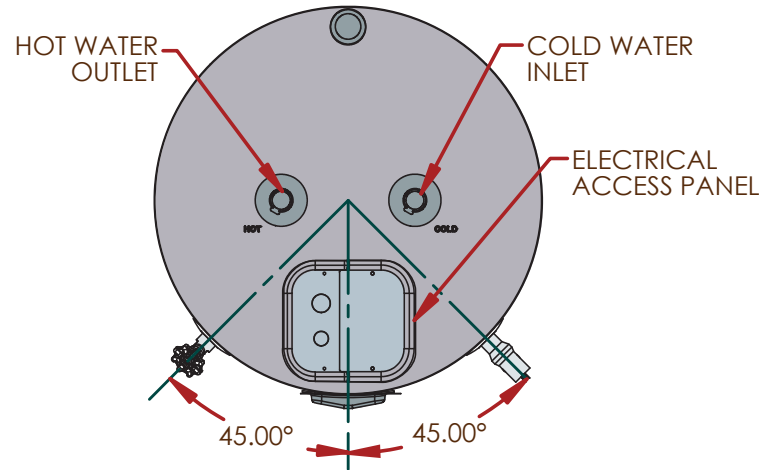
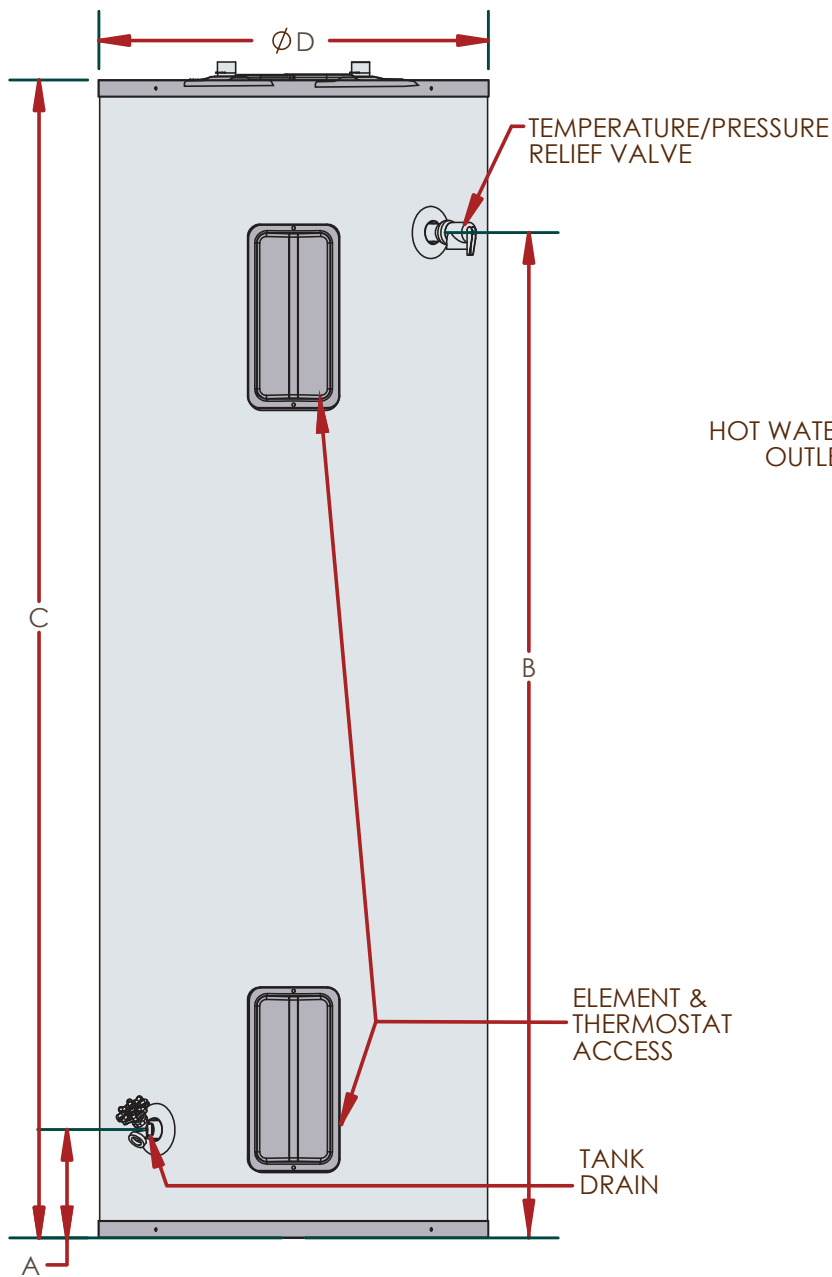
Directs cold water to the heating element near the bottom of the tank and minimizes mixing of cold water providing long draws of hot water

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
EVR040C2X045N	40	39	5.75"	46"	54.25"	19.5"	110°F 43.3°C	150°F 65.5°C	170°F 76.6°C
EVR040C2X055N									
EVR052C2X045N	52	48	5.75"	58.25"	66.75"	19.5"			
EVR052C2X055N									

Residential Models	Wattage	Voltage	Safety Listing	AHRI First Hour Rating	First Hour Bin	Recovery Efficiency	Recovery @ 90° F Rise	UEF	Shipping Weight
EVR040C2X045N	4500	240	UL174	58 Gallons	Medium	98%	20 Gallons	.94	104 lbs
EVR040C2X055N	5500			58 Gallons			25 Gallons		
EVR052C2X045N	4500	240		62 Gallons	Medium	98%	20 Gallons	.93	118 lbs
EVR052C2X055N	5500			62 Gallons			25 Gallons		

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®

GRID - ENABLED

Stainless Steel Electric Water Heater



For use as part of an electric thermal storage or demand response program

These units ship with the lower heating element disconnected as required by the law regulating grid-enabled water heaters. The disconnect is unlocked with a key (included with the water heater).

Installs like a traditional electric water heater - No new/unique software or controls required

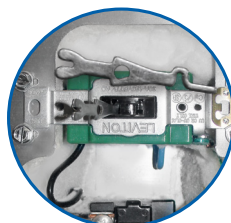
Limited **LIFETIME** Residential Warranty (When registered online)

316L STAINLESS STEEL TANK

High Quality Titanium Elements

Heavy duty foam insulation

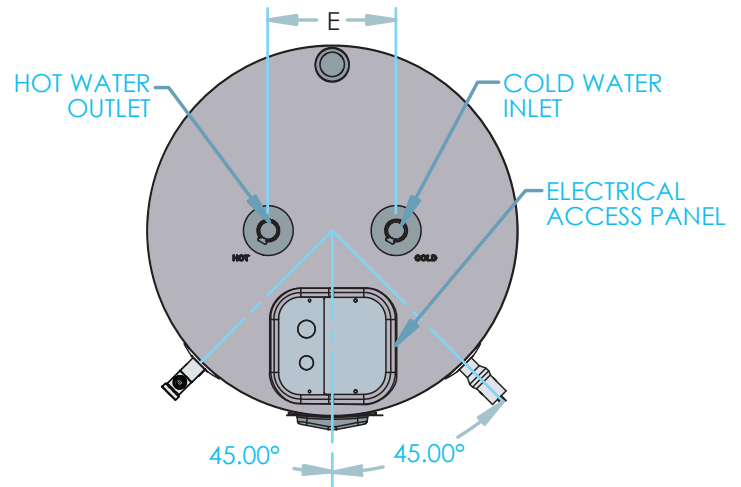
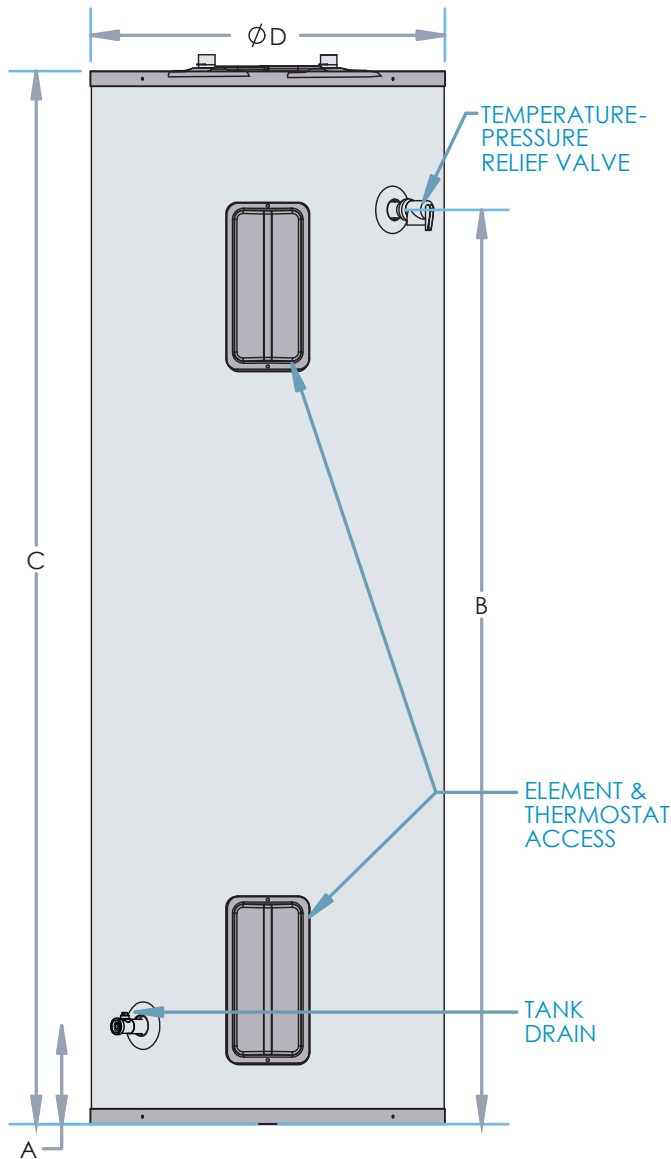
Can be configured for different operating voltages/inputs



A Unique Key
is Provided for
Lower Element Activation



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
EVG080C2X045H	80	78	6.5"	60"	69"	23.25"	110°F 43.3°C	170°F 76.7°C	190°F 87.8°C
EVG080C2X055H									
EVG100C2X045H	100	96	7.25"	52"	61"	27"			
EVG100C2X055H									
EVG115C2X045H	115	111	7.25"	60.25"	70.5"	27"			

Grid Enabled Models*	Wattage		Safety Listing	AHRI Certified		First Hour Bin	Recovery Efficiency	Recovery @ 90° F Rise	Shipping Weight
	208V	240V		UEF	First Hour Rating				
EVG080C2X045H	3400	4500	UL174	0.93	86 Gallons	High	98%	20 Gallons	151 lbs
EVG080C2X055H	4100	5500						25 Gallons	
EVG100C2X045H	3400	4500		0.93	86 Gallons	High	98%	20 Gallons	206 lbs
EVG100C2X055H	4100	5500						25 Gallons	
EVG115C2X045H	3400	4500		0.90	101 Gallons	High	98%	20 Gallons	224 lbs

*Order without "H" suffix for low temperature models with operating temperature range of 90 - 150°F

EVERLAST ELEVATE

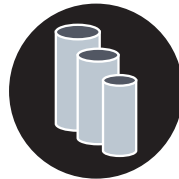
CAPACITY AMPLIFIED

RESIDENTIAL

Stainless Steel Electric Water Heater



Delivers the comfort of a 55 - 100 gallon electric water heater from a 55 gallon platform.



Dynamic Capacity - Simple Adjustment Provides Increased Hot Water Delivery



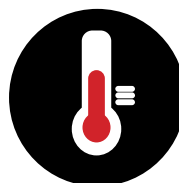
Industry Leading Lifetime Limited Warranty*



Simple Installation for both New or Retrofit



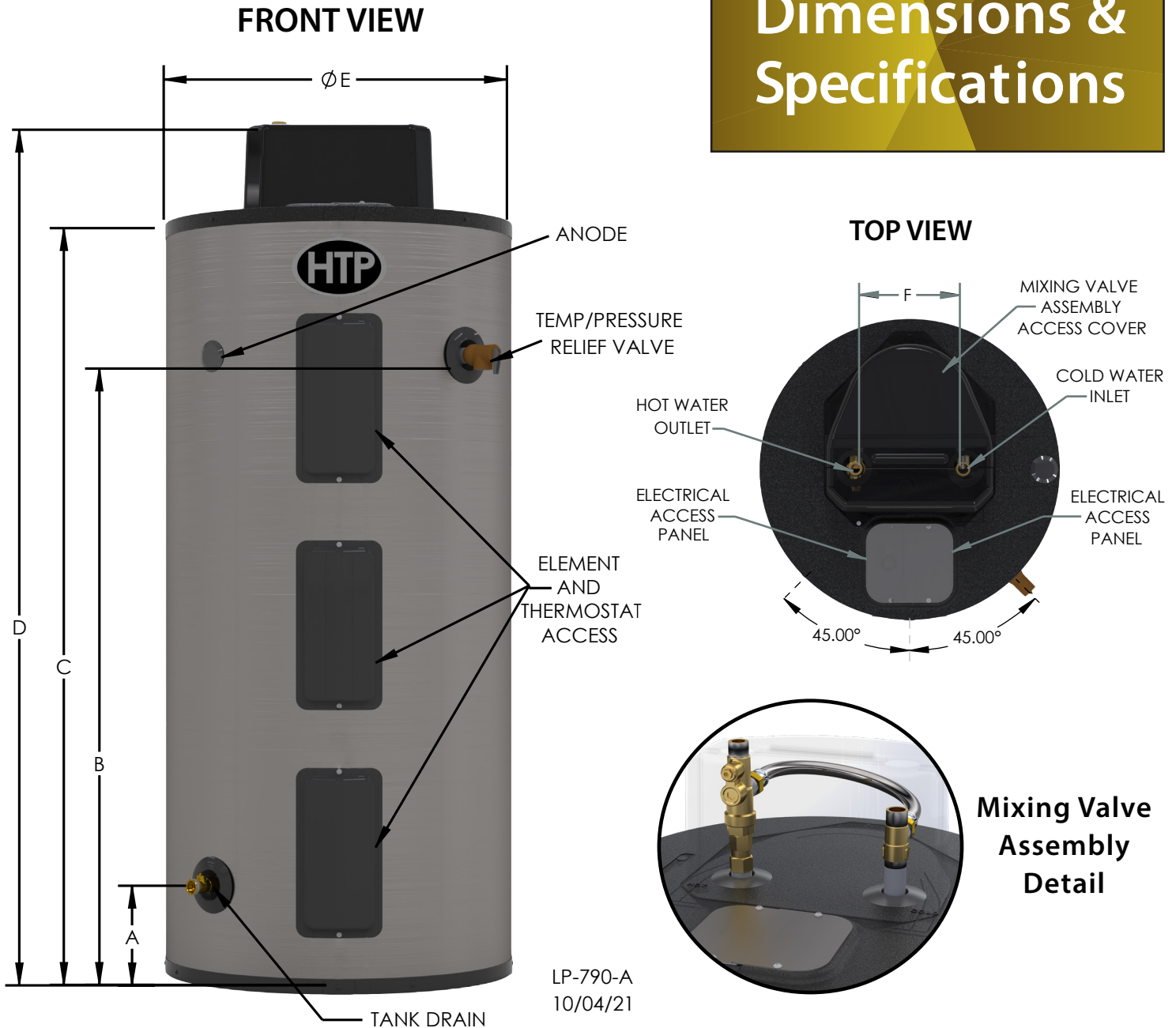
Titanium Elements for Maximum Durability



Maximum Safety with Integrated Scald Protection



Dimensions & Specifications



SPECIFICATIONS AND DIMENSIONS									WATER TEMPERATURE RATINGS				
Models	Nominal Gallon	A	B	C	D	E	F	Hot/ Cold Inlets	From Mixing Valve		Thermostat		
									Minimum Delivered Temp.	Max. Del. Temp.	Min. Del. Temp.	Max. Del. Temp.	High Temp. Limit
ELV055C2X055N	55	6.75"	41.5"	51"	58"	23.25"	8"	3/4" NPT	90°F 32°C	130°F 54.4°C	125°F 51.7°C	170°F 76.7°C	190°F 87.8°C

Residential Models	Wattage	Voltage	Safety Listing	First Hour Rating	First Hour Bin	Recovery Efficiency	Recovery @ 90° F Rise	UEF	Shipping Weight
ELV055C2X055N	5500	240	UL174	77 Gallons	High	98%	24 Gallons	0.94	131 lbs

Heaters furnished with standard 240V 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

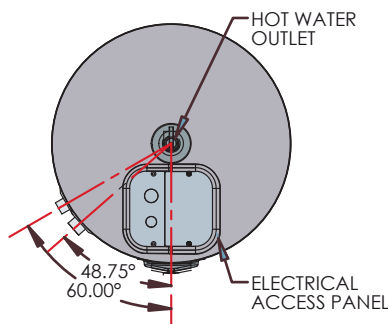
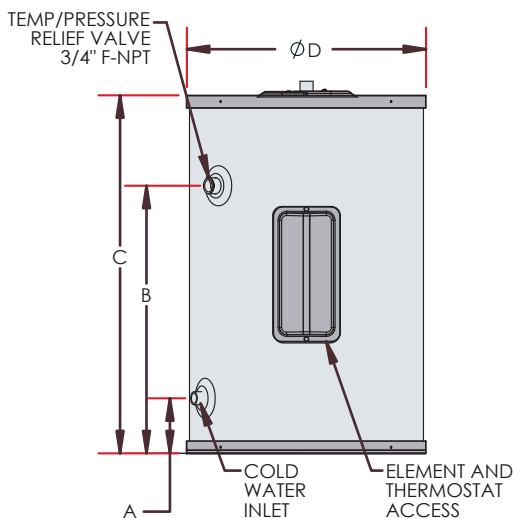
Laser welded **316L** stainless steel tank

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"	¾" 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®

MEDIUM DUTY - 3 ELEMENT

COMMERCIAL

316L 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

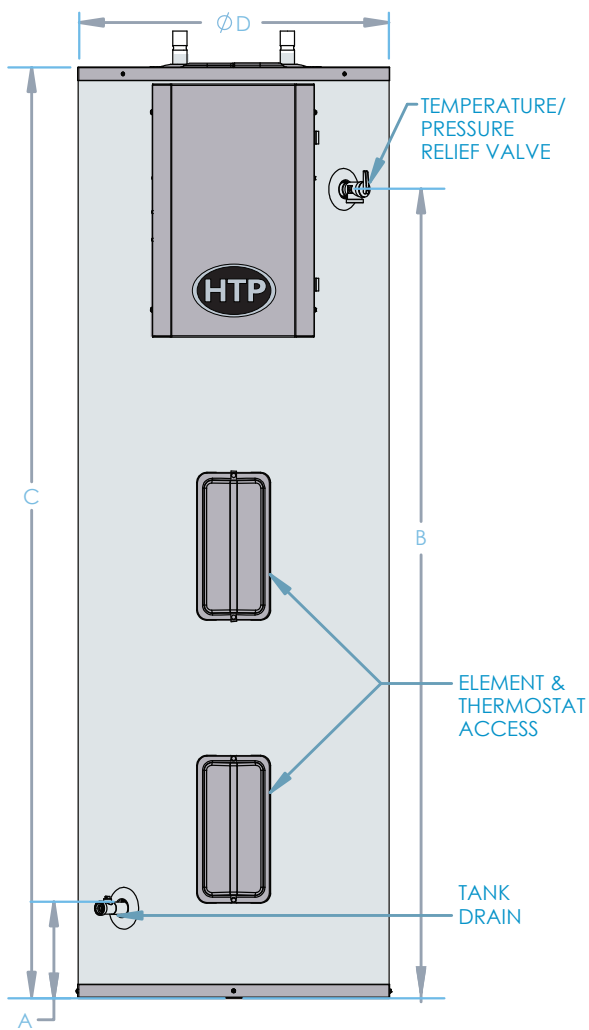
with online registration,
5 years if not registered



DUAL PORT LOCATIONS

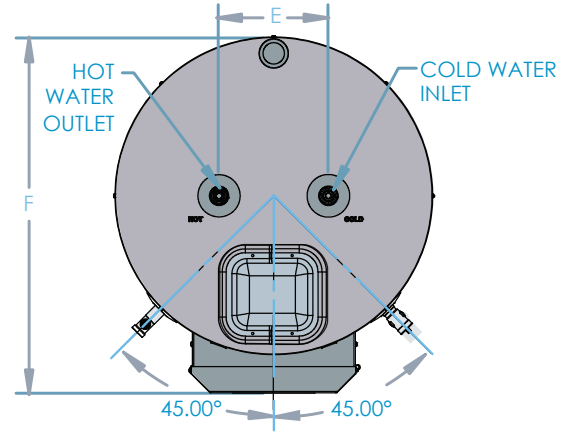


NO ANODE
RODS NEEDED
RESISTS
SCALE BUILD UP
LIGHT
WEIGHT



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"	8"	30"	3/4" NPT	220 lbs	135°F 57.2°C	181°F 82.8°C	200°F 93.3°C
EVC100C3W165	240 / 16,500												
EVC0100D3W180	277 / 18,000												
EVC0100E3W180	480 / 18,000												
EVC115C3W135	240 / 13,500	115	7.25"	60"	69"	27"	8"	30"	3/4" NPT	240 lbs	135°F 57.2°C	181°F 82.8°C	200°F 93.3°C
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[®] MiniTank

POINT OF USE

**2½, 4 &
8 Gallon
Size Units**

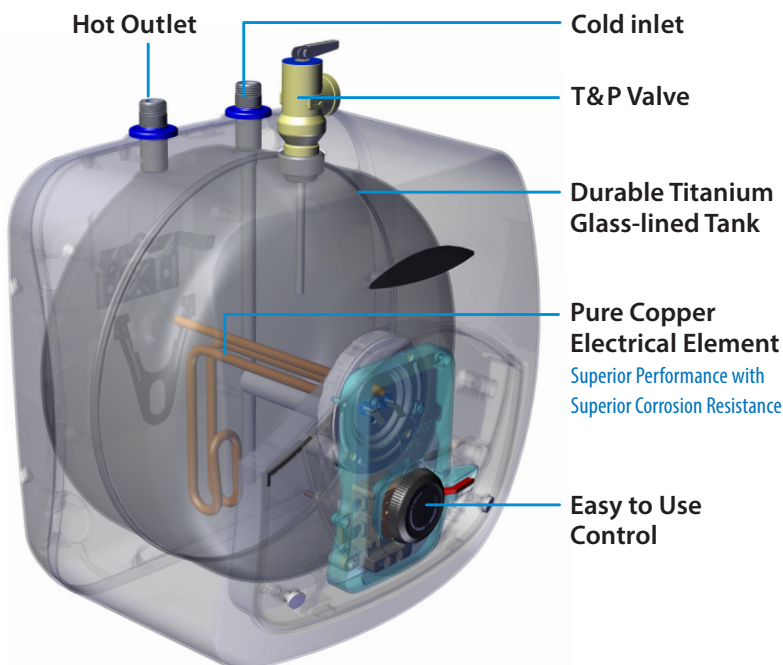


- ▶ Durable Titanium Glass-lined Tank
- ▶ 2½ Gal. & 4 Gal. Models have a Simple 120 VAC Plug-In Connection
- ▶ Instant Hot Water Upon Demand! No Water is Wasted While Waiting for Hot Water to Arrive from the Tank
- ▶ Wall or Floor Mounted (Wall Brackets & Rubber Feet included)
- ▶ Included Temperature/Pressure 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



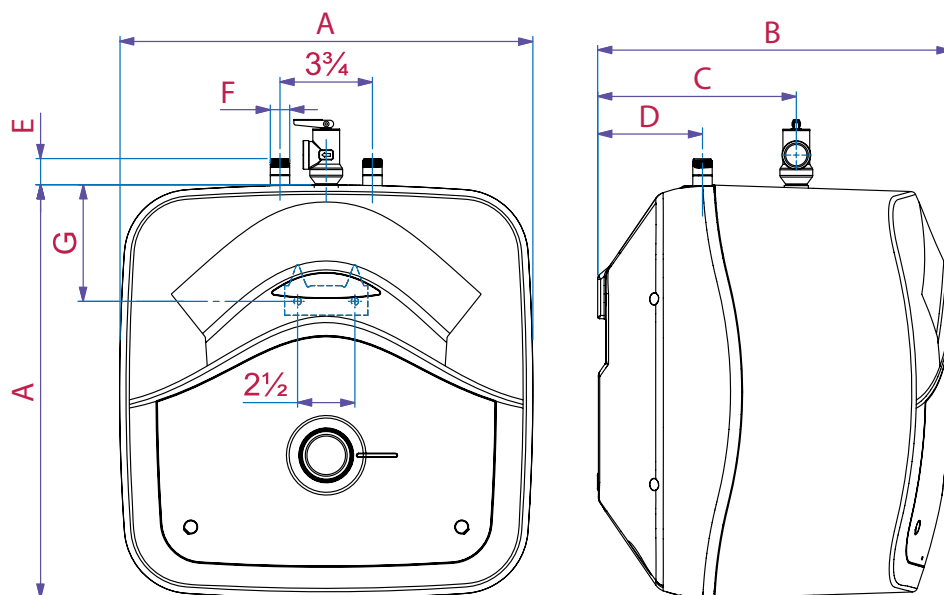
**This Compact Yet Powerful
Hot Water Heater Supplies
Instant Hot Water to Even
the Most Remote Locations**

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 1/2 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 Use warranty (when registered online): the industry's strongest protection plan



Ultra Indirect	180 Deg F Boiler Water First Hour Rating		Circulator Gpm	Pressure Drop (Feet)
	140 DEG F	115 DEG F		
SSU-20N	121 GPH	168 GPH	8	6.0
SSU-30N	154 GPH	212 GPH	8	6.0
SSU-30LBN	169 GPH	234 GPH	8	6.0
SSU-45N	212 GPH	292 GPH	10	7.9
SSU-60N	266 GPH	370 GPH	10	7.9
SSU-80N	330 GPH	440 GPH	12	9.1
SSU-119N	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** Residential Use warranty (when registered online)

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

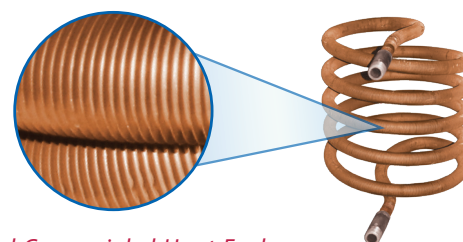
Indirect Commercial	180 Deg F Boiler Water First Hour Rating		Circulator Gpm	Pressure Drop (Feet)
	140 DEG F	115 DEG F		
SSU-60CN	354 GPH	467 GPH	22	9.2
SSU-80CN	490 GPH	647 GPH	24	10.0
SSU-119CN	637 GPH	841 GPH	28	12.7

SuperStor is the Number One Selling Indirect Water Heater in North America

2 Heat Exchangers Allow for Multi-Source Heating Possibilities

Commercial Indirect with 2 Heat Exchangers

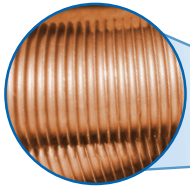
Finned Cupronickel Heat Exchanger Provides Maximum Efficiency - 11 Fins per inch



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

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

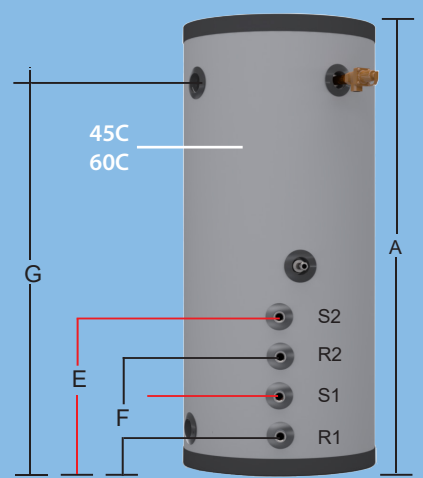
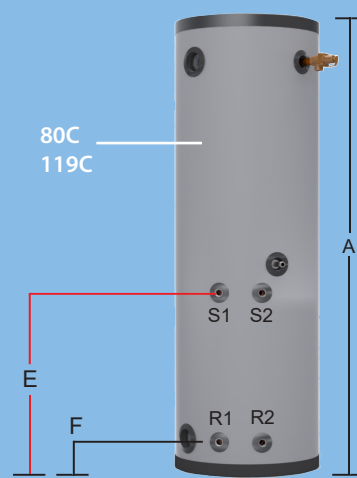
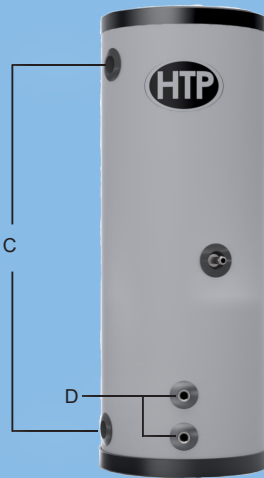
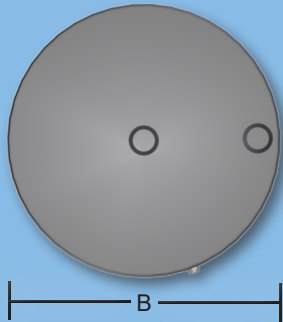
- Aquastat Control
- Thermostatic Mixing Valve
- Bronze Pump

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-20N	27"	19 1/4"	3/4"	1" NPT	S1- 9 3/4"		R1- 5 1/4"		22"	20	15 SQ FT	51 LBS
SSU-30N	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-30LBN	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-45N	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-60N	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-80N	72"	23 1/4"	1 1/2"	1" NPT	S1- 29"		R1- 6"		64 3/4"	80	34 SQ FT	143 LBS
SSU-119N	74"	27"	1 1/2"	1" NPT	S1- 30 1/4"		R1- 7 1/4"		66"	119	34 SQ FT	212 LBS
SSU-60CN	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	126 LBS
SSU-80CN	72"	23 1/4"	1 1/2"	1" NPT	S1- 29"	S2- 29"	R1- 6"	R2- 6"	64 3/4"	80	68 SQ FT	175 LBS
SSU-119CN	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	242 LBS

SUPERstor[®] ULTRA[®] MAX

All Stainless Steel • Indirect Water Heater



316L Stainless Steel Tank

High quality 316L Stainless Steel tank with-stands high temperatures while offering exceptional corrosion resistance

Advantage: Heat Exchanger

The extremely durable, lightweight, 316L stainless steel corrugated heat exchanger resists corrosion and offers extremely low pressure drop while providing maximum heat transfer and efficiency, with increased surface area over traditional smooth tube coils

Top Connections: Inlet, Outlet and Relief Valve Ports

The inlet dip tube directs cold water to the bottom of the tank, preventing mixing, while the hot outlet draws only the hottest water from the top of the tank

Surface Mounted Thermostat

For highly accurate temperature control

Minimal Heat Loss

2" thick, water blown foam insulation allows less than 1/2°F heat loss per hour

Virtually Maintenance Free

Included T&P Relief Valve and Drain Valve

SuperStor is the #1 Brand

HTP sells more indirects than anyone else in the country!

Industry
Leading
For Over
30 Years



**Stainless Steel
Heat Exchanger**

Model	Heat Exchanger Surface	Test Pressure	Working Pressure	180° F Boiler Water 1st Hour Rating ⁺ (GAL)	180° F Boiler Btuh / Size	Recommended Flow Rate	Pressure Drop at Recommended Flow Rate	Weight
MSSU-30N	15 Sq. Ft.	300 PSI	150 PSI	286	170,000	14 GPM	5.4 Ft	58 lbs
MSSU-45N				317	185,000			70 lbs
MSSU-60N				340	185,000			105 lbs
MSSU-80N	18 Sq. Ft.			405	215,000		2.0 Ft	135 lbs
MSSU-119N				433	215,000			190 lbs

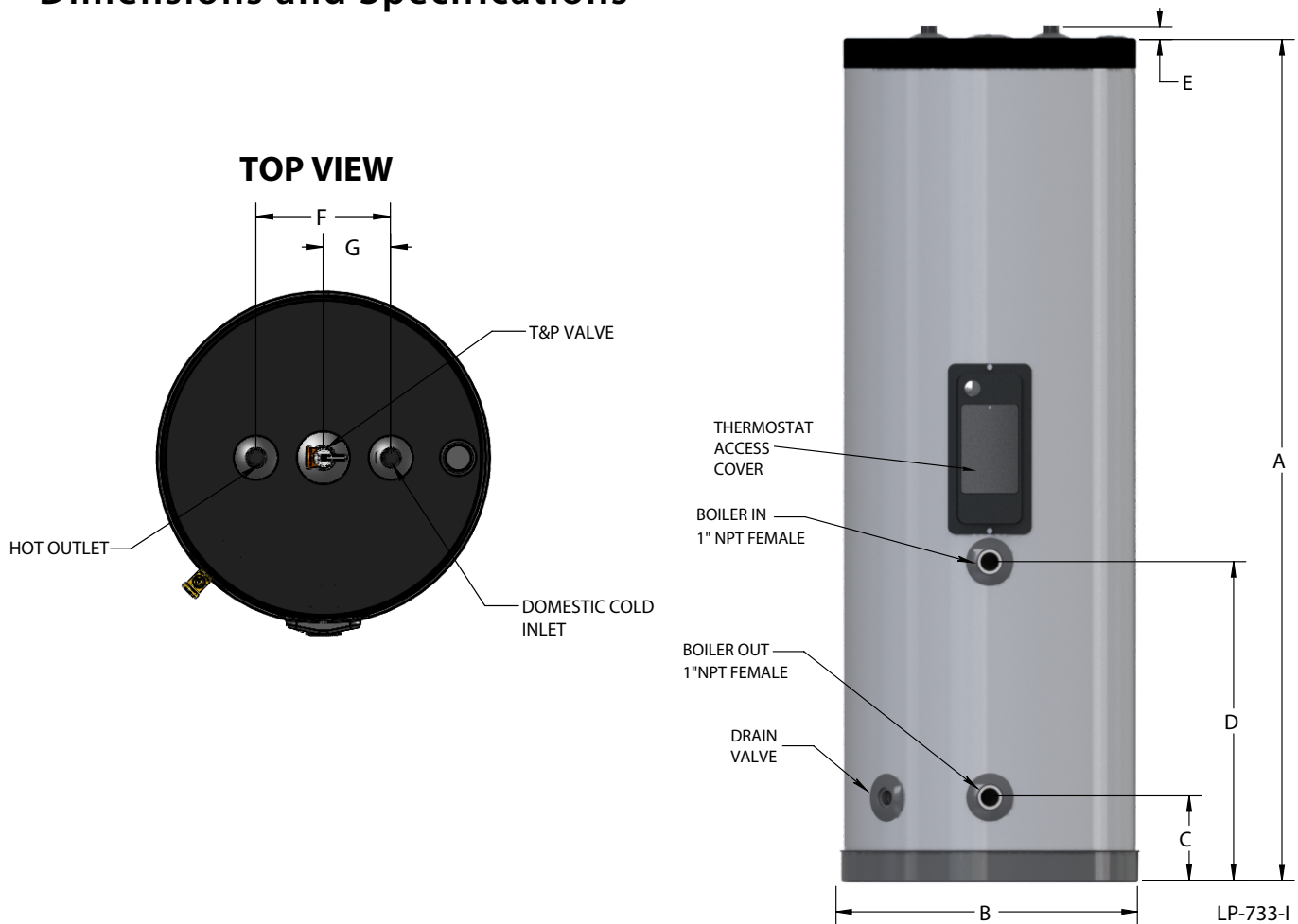
*AHRI TEST METHOD BASED ON 77°F TEMPERATURE RISE, 58°F / 135°F W/BOILER WATER AT 180°F NOTE: TANK RECOVERY FROM COLD START WILL BE BETWEEN 10-13 MINUTES WHEN SIZED WITH CORRECT FLOW RATE, BOILER SIZE AND PRESSURE DROP RATINGS FROM LIST IN ABOVE CHART.
CONTINUOUS FLOW RATING CALCULATION: FIRST HOUR RATING - (.75 * GALLON CAPACITY) = CONTINUOUS FLOW RATING.

Model	A	B	C	D	E	F	G	Domestic Ports	Boiler In/Out	Boiler In/Out
MSSU-30N	42-1/8"	19-3/8"	5-7/8"	21"	1-3/8"	8"	4"	3/4" NPT Male	1"NPT Female	1"NPT Female
MSSU-45N	54-1/4"							1" NPT Male		
MSSU-60N	52-5/8"	23-1/2"						1" NPT Male		
MSSU-80N	69"							1-1/2" NPT Male		
MSSU-119N	69"	27-1/2"	8-1/8"	20-1/4"						

Dimensions and Specifications

FRONT VIEW

TOP VIEW



Backed by a Strong Limited Warranty*

Standard Residential Use - Ten (10) Years

Extended Residential Use - Lifetime (with Online Registration)

Commercial Use - Five (5) Years

Low Energy Costs

Operating costs decrease even further when used in conjunction with an HTP high efficiency boiler

High Performance

The entire tank can be heated in 10 - 15 minutes (with an appropriately sized boiler) and generate more than 50% more hot water than many water heaters of similar size

Quality You Can Trust

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

SUPERstor[®] CONTENDER[®]

WITH FLOW COAT TECHNOLOGY

Glass-Lined Indirect Water Heaters

- 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 Residential Use Warranty**
- **Equipped with an oversized changeable anode rod**



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-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" / 28"	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.

htproducts.com/superstor-contender-waterheater

Glass-Lined Storage Tanks



- **Four gallon sizes ranging from 50-175 gallons**
- **Quality glass-lined steel tank for hot water storage**
- **Environmentally safe waterblown 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.

SUPERstor **CONTENDER**

WITH TITANIUM PROTECTION 

Titanium Glass-Lined Steel Indirect Fired Water Heaters

Titanium Glass-Lined Steel Tank

- All tanks feature high quality Titanium Glass-Lined construction to reduce corrosion, tolerate high temperatures, and extend tank life

Super Flex Heat Exchanger

- High output glass-lined steel heat exchanger with 3/4" NPT connections provides maximum corrosion resistance and exceptional heat transfer

Top Connections - Inlet, Outlet, Heat Exchanger Return and Supply, and Relief Valve Ports

- Top connections ease installation
- The top inlet dip tube prevents mixing, ensuring only the hottest water is drawn from the top of the tank

1/2" Aquastat Well

- With included L4080B Aquastat for accurate temperature control

Minimal Heat Loss

- Super-insulated with environmentally safe, CFC and HFC free foam insulation to reduce heat loss and power consumption

Tough Construction

- Outer jacket constructed of tough powder-coated steel

Clean-Out Port

- To ease any maintenance

Included T&P Relief Valve, Drain Valve, and Aquastat

Extended Residential Use Lifetime Limited Warranty*



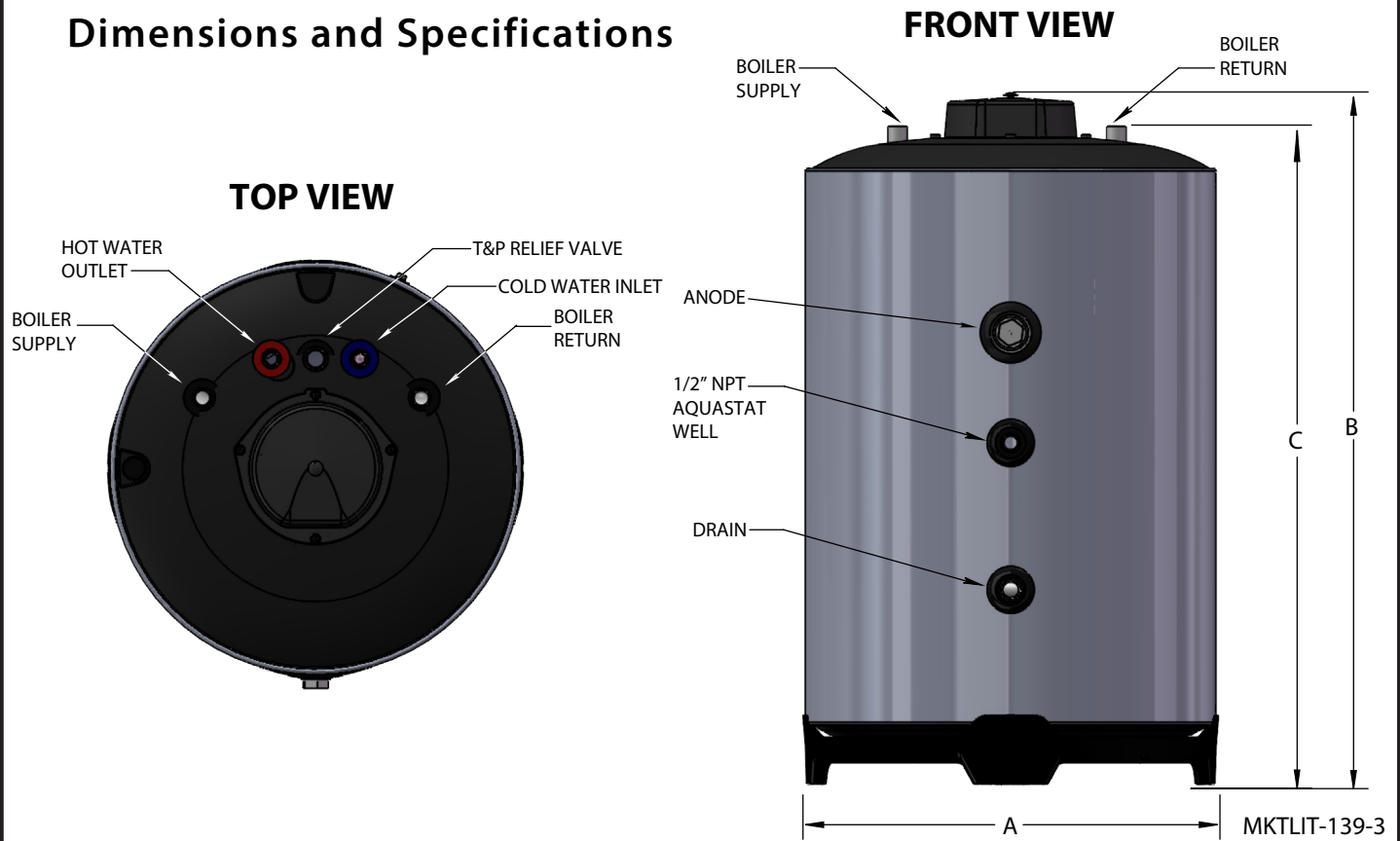
*See product warranty for full details.

Model	Maximum Temperature	Maximum Working Pressure	Minimum Recommended Boiler Input (BTU/h)	180° F Boiler Water 1st Hour Rating [†] (GAL)	Recommended Flow Rate	Pressure Drop at Recommended Flow Rate (ft/hd)
SSC-20TC	200°F	150 PSI	75,000	92	5	1.2
SSC-32TC			95,000	109	8	3.8
SSC-40TC			115,000	125	12	7.6
SSC-50TC			140,000	190		8.8

[†]AHRI TEST METHOD BASED ON 77° F TEMPERATURE RISE, 58° F / 135° 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.

Dimensions and Specifications

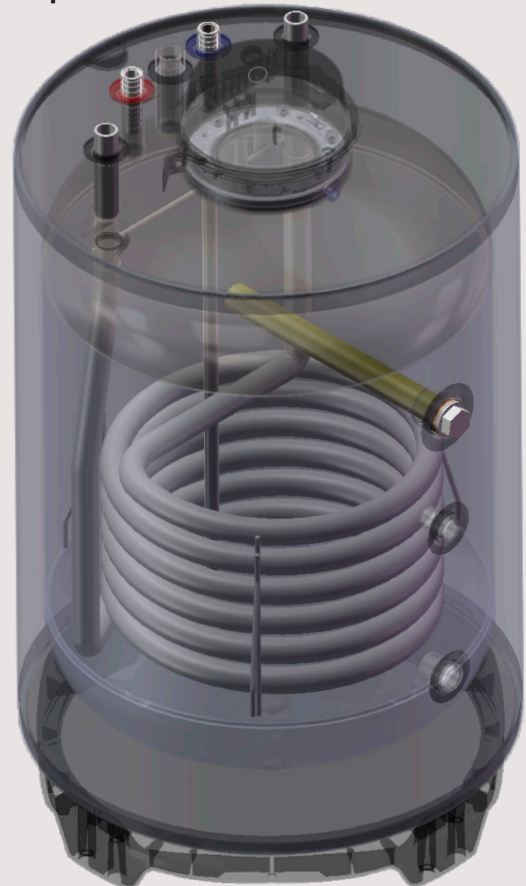


Model	A	B	C	Domestic Ports	Boiler In/Out
SSC-20TC	22"	28.7"	27"	3/4" NPT	3/4" NPT
SSC-32TC		37"	35.3"		
SSC-40TC		45.3"	43.6"		
SSC-50TC		54"	52.25"		

Model	Weight (Empty)	Weight (Full)	DOE Rated Capacity
SSC-20TC	74.8 lbs	251.4 lbs	21.2 Gal.
SSC-32TC	99 lbs	363.1 lbs	31.7 Gal.
SSC-40TC	112.2 lbs	464.6 lbs	42.3 Gal.
SSC-50TC	136.4 lbs	577 lbs	52.9 Gal.

A Closer Look

Top Connections and Clean Out Port



Glass-Lined Heat Exchanger

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 ovr 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 Ovr 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

Solar Tanks

Multi-Source Stainless Steel Indirects

- Number one selling indirect in the country
- Designed to use heat transferred from solar, heat pump, or geothermal systems
- Ultra high performance, can generate over 50% more hot water than many water heaters of similar size (offered in 2 sizes: 80 and 115 gal.)
- Minimal heat loss, due to thick foam insulation
- Backup heating provided by 4500W /240V titanium electric element
- Virtually maintenance free operation
- Extremely durable cupronickel heat exchanger boasts excellent heat transfer properties and resists corrosion
- Robust and durable 316L stainless steel tank and heat exchanger
- Limited lifetime residential warranty (with online registration)



SUPERstor **ULTRA** **MAX**

SSP solar water heater with an electric back-up				
Model	GAL.	Height/Diameter	Freight Weight	1st Draw **
SSP-80SE	80	69" / 23.5"	160 lbs	68 Gal.
SSP-115SE	115	69" / 27"	235 lbs	102 Gal.

** First draw was acquired by heating the entire tank until thermostat was satisfied, then drawing until a Delta T of 15°F was seen at the outlet

Best Warranty!

htproducts.com/superstor-ultramax-multisource

Large Volume Solar Tanks



HTP MODEL	ACTUAL GALLONS	MAX # OF COILS	DIA.	HEIGHT	APPROX. WEIGHT @ 125#
HTP-SR-30-063-X	175	1*	30	67"	303
HTP-SR-30-075-X	210	2*	30	79"	347
HTP-SR-30-085-X	240	2*	30	89"	383
HTP-SR-36-078-X	310	4*	36	82"	527
HTP-SR-36-085-X	340	4*	36	89"	569
HTP-SR-36-090-X	360	6*	36	94"	599
HTP-SR-42-084-X	453	6*	42	88"	716
HTP-SR-42-093-X	505	9*	42	97"	848
HTP-SR-42-105-X	575	9*	42	109"	934
HTP-SR-48-073-X	500	8*	48	77"	1025
HTP-SR-48-096-X	675	12*	48	100"	1173
HTP-SR-48-108-X	765	12*	48	112"	1301
HTP-SR-48-141-X	1040	16*	48	145"	1652

htproducts.com/largevolumestoragetanks



HTP was established in 1974 by Mr. Raymond B. Davis as a designer and fabricator of heat exchangers for the boiler and solar industries. Today, HTP is a brand of the Ariston Group and is a manufacturer on the cutting edge of energy-efficient products backed by the support of a global leader in heating and hot water.

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.

A BRAND OF THE  **ARISTON**
GROUP

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