



**Advanced Heating
& Hot Water Systems**

Product Catalog

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Hydronic Space Heating



	EnduroTi	Mod Con Double Stack	Mod Con	Elite	Elite Premier	Elite FT	UFT	Pioneer
Appliance Type	Commercial Boilers			Commercial & Residential Boilers			Residential Space Heating	
Radiant Floor	X	X	X	X	X	X	X	X
Fan Coil	X	X	X	X	X	X	X	X
Base Board	Max 180°temp	Max 180°temp	Max 180°temp	Max 180°temp	Max 180°temp	Max 180°temp	Max 180°temp	Max 180°temp
Snow Melt	X	X	X	X	X	X	X	X
Heating & DHW	w/ Indirect Tank	w/ Indirect Tank or VWH	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 5:1	up to 10:1	up to 5:1	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 8 Units	up to 18 Units	-
Pool Heater	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank
ASME	X	X	X	X	X	X	X	
Mass Type	High Mass	Low Mass	Low Mass	Low Mass	Low Mass	Medium Mass	Medium Mass	High Mass
Domestic Hot Water		VWH	VWH	VWH	VWH			
Requires Primary/Secondary Piping Configuration	No	Yes	Yes	Yes	Yes	No for EFT55 & EFT80	No	No
Integrated Buffer Tank – Hydronic Stabilization	No	No	No	No	No	No	No	55 Gal.

Pg 6 Pg 8 Pg 10 Pg 12 Pg 14 Pg 16 Pg 18 Pg 20

Combination Heating



	Versa-Flame	EFT Combi (floor)	EFT Combi (wall)	Versa-Hydro	Phoenix LD	Phoenix	Phoenix Plus
Application Type	Combined DHW & Hydronic Space Heating				Gas Fired Water Heaters (with Air handler)		
Radiant Floor	X	X	X	X	X	X	X
Fan Coil	X	X	X	X	X	X	X
Base Board	Max 180°temp	Max 180°temp	Max 180°temp	Max 160°temp			
Snow Melt	X	X	X	X			
Solar Versions				X		X	
Pool Heater	w/ Indirect Tank	w/ Indirect Tank	w/ Indirect Tank				
ASME		X	X				
Co-Generation Heat Recovery				X	X	X	X
Domestic Hot Water	X	X	X	X	X	X	X
Requires Primary/Secondary Piping Configuration	No	Yes	Yes	No	No	No	No
Integrated Buffer Tank – Hydronic Stabilization	55 Gal.	15 Gal.	2 Gal.	55-119 Gal.	Yes	Yes	Yes

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Residential Water Heating



	Phoenix Light Duty	Hydra Smart RT Model
Appliance Type	Gas Fired Storage W.H.	Gas Fired Tankless
Tank Material	316L Stainless Steel	
Modulation	3:1	10:1
Heat Exchanger	Cupronickel	Stainless Steel
Storage Tank Option		Option
Combination Domestic & Space Heating	W/ Auxiliary Taps	
Cascading		
Efficiency / Energy Factor	up to 97%	.98 Energy Factor
Btuh	76,000	199,000

Pg 30

Pg 50

	Everlast Residential & Lt. Commercial	SuperStor Ultra	SuperStor Pro	Contender
Appliance Type	Electric	Hydronic Indirects		
Tank Material	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	Glass Lined w/ Anode Rods
Modulation				
Heat Exchanger	Incoloy Stainless Steel Element	Finned Cupronickel	316L Stainless Steel	Smooth Enamel Coil
Storage Tank Option		Ultra CB		SuperStor GL
Double Wall Exchanger		Option		
Two Heat Exchangers		Option		
Solar Option		X		X
Btuh / kW	4.5 or 5.5			

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Pg 48



Commercial Water Heating

	Phoenix	Phoenix Plus	Phoenix Multi-Fit	Mod Con DS VWH	Mod Con VWH	Elite VWH	Hydra Smart RTC Model	Everlast Commercial	Everlast Residential & Lt. Commercial	SuperStor Ultra
Appliance Type	Gas Fired Storage Water Heater			Gas Fired Volume Water Heaters			Gas Fired Tankless	Electric Water Heaters		Hydronic Indirect
Tank Material	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel					316L Stainless Steel	316L Stainless Steel	316L Stainless Steel
Modulation	up to 5:1	up to 10:1	up to 5:1	up to 10:1	up to 5:1	up to 5:1	up to 10:1			
Heat Exchanger	Cupronickel & Stainless Steel	Cupronickel & Stainless Steel	Cupronickel & Stainless Steel	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	Stainless Steel	Incoloy Stainless Steel Element	Incoloy Stainless Steel Element	Finned Cupronickel
Storage Tank Option				Requires Storage Tank	Requires Storage Tank	Requires Storage Tank				Ultra CB
Multiple Heat Exchangers		Option		Built-in Redundancy						Option
Solar Option	X									X
Combination Domestic & Space Heating	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			
High Temp. Sanitation	SA Models						up to 180° F			
Btuh / kW	Btuh 100,000 to 199,000	Btuh 199,000 to 399,000	Btuh 130,000 to 199,000	Btuh 1,000,000 to 1,700,005	Btuh 500,000 to 850,000	Btuh 80,000 to 399,000	Btuh 199,000	kw 1.5 to 12	kw 4.5 or 5.5	

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Pg 34

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Solar & Storage Tanks



	Combi Solar	Gas Fired Solar	Indirect Solar	Solar Drain Back Tank	Large Volume Solar Tanks	SuperStor Ultra SS Storage	SuperStor Glass Lined Storage	Large Volume Storage
Appliance Type	Solar Combi Heating & DHW	Solar Gas Fired DHW	SuperStor Solar	Drain Back Solar	Large Volume Solar	Storage Tank	Storage Tank	Storage Tank
Tank Material	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel	Glass Lined Steel	316L Stainless Steel	Glass Lined Steel	Glass Lined Steel
ASME					X		X	X
Heat Exchanger	Cupronickel & Stainless Steel	Cupronickel & Stainless Steel	Optional Electric or Finned Cupronickel Backup	Optional Finned Cupronickel	Electric or Boiler Backup - Multiple Large Coils			
Co-Generation Heat Recovery	X							
Radiant Floor	X	X						
Fan Coil	X	X						
Base Board	Max 160° temp							
Snow Melt	X	X						
Domestic Hot Water	X	X	X		X	X	X	
Additional Information	Up to 199,000 Btuh	Up to 199,000 Btuh	Limited Lifetime Warranty	Freezing & Overheating Protection	Up to 1,000 Gallons Tank Size	5 Sizes: 30 to 119 Gallons	4 Sizes: 50 to 175 Gallons	200 Gallons up to 5,695 Gallons

Pg 58

Pg 58

Pg 59

Pg 58

Pg 54

Pg 44

Pg 56

Pg 54



COMING SOON



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

1,000,000 & 750,000 Btuh Models

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

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

CSD Compliant

**Direct Flow or Primary
Secondary Piping Options**

Up to 10:1 Turndown Ratio



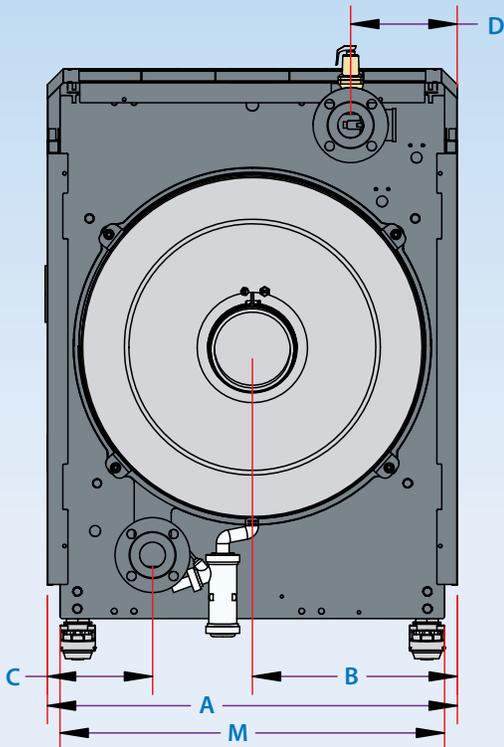
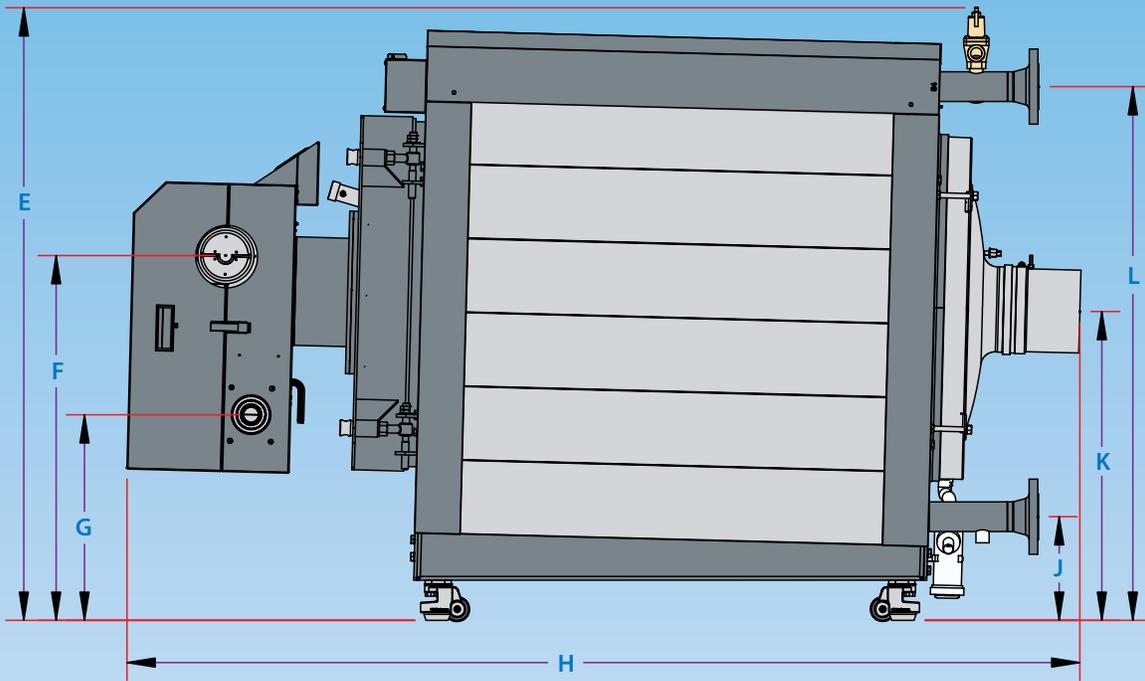
Eliminates the Need for Primary–Secondary Piping: With up to 10 : 1 Modulation, Large Water Content Heat Exchanger with Virtually No Pressure drop (Under 2 feet of resistance at a 100 GPM Flow)

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

htproducts.com/enduroti

Model	A	B	C	D	E	F	G	H	J	K	L	M
ETI-750	32.75"	16.5"	8.5"	8.5"	49"	29"	16.5"	76"	8.25"	24.75"	42.75"	30.75"
ETI-1000	39.5"	19.75"	7.25"	9.25"	54"	29.75"	17"	79.5"	11"	26"	46.5"	36.25"

Limited 10 Year Commercial Warranty



Model	Btuh	Supply & Return Pipe Size	Gas Line Connection	Thermal Efficiency	Vent Diameter	Approx. Shipping Weight
ETI-750	750,000	2"	2"	93.2%	6"	850 LBS
ETI-1000	1,000,000	2.5"	2"	92.5%	6"	950 LBS



Corrugated Horizontal Flue Passages: Special surface increases heat exchange area for higher efficiencies



The Hyper-Jet Combustion System with Modulating Inward Firing Burner

PLEASE NOTE: ALL DIMENSIONS ARE PRELIMINARY AND APPROXIMATE

MOD CON

Double Stack

A TRUE

10:1

Turndown Ratio

BTU 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

Low Mass



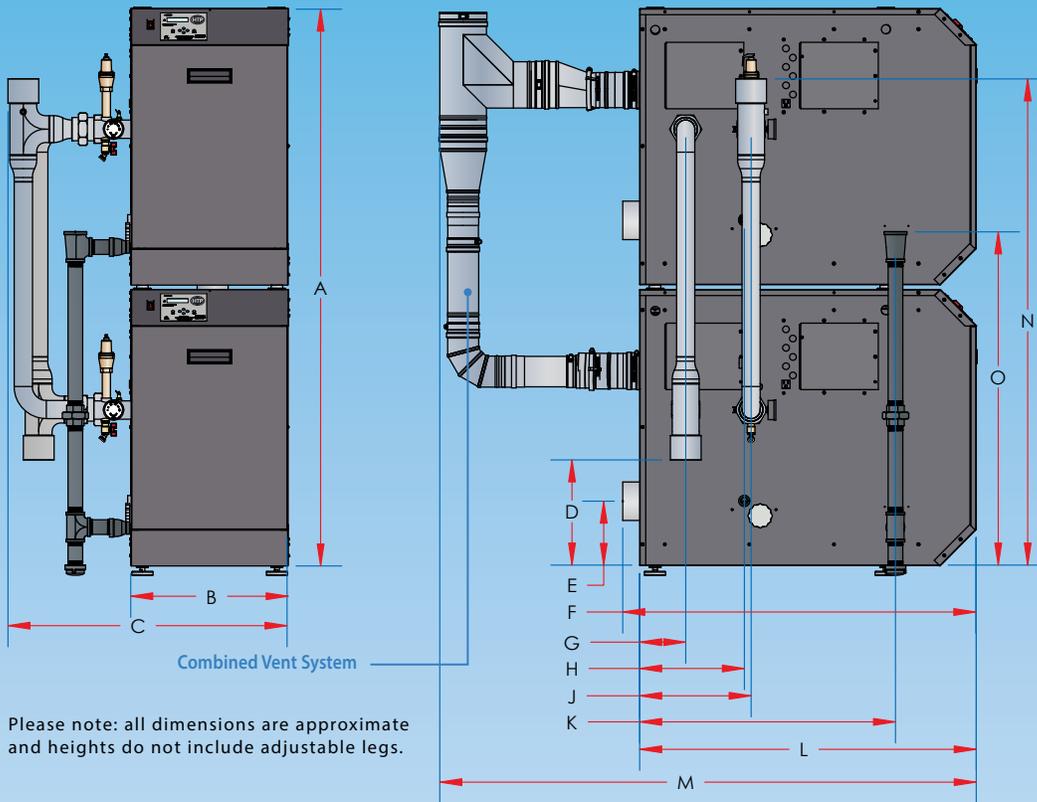
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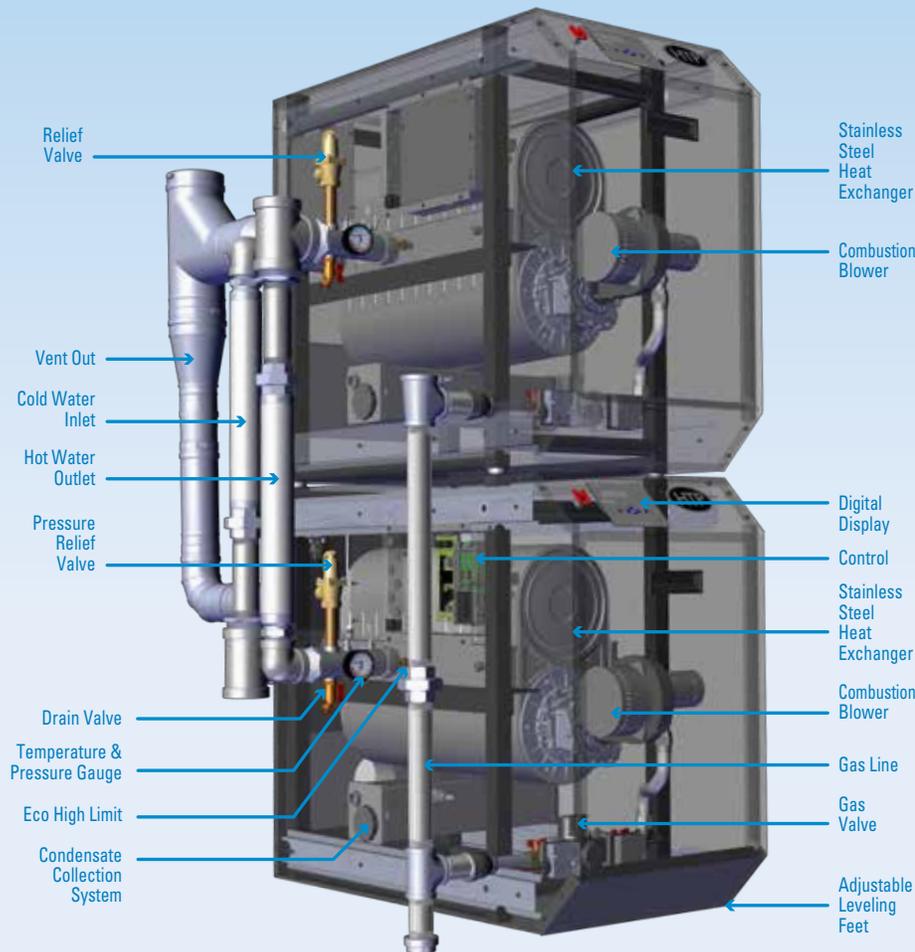
Model	Btuh Input Low Fire	Gross Output Btuh	Net I=B=R Btuh	Thermal Efficiency	# Cascade Units	Supply/Return Conn.	Gas Conn.	Vent Dia.	Est. Ship Weight	Combined Vent Length
Mod Con 1000	100,000-1,000,000	940,000	818,000	94.1%	up to 4 (8EXs)	3"	2"	6"	1010	up to 150 ft.
Mod Con 1700	170,000-1,700,005	1,600,000	1,390,000	94.1%	up to 4 (8EXs)	3"	2.5"	8"	1160	up to 150 ft.

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 1000	72.5"	20.5"	36"	13.75"	8.375"	46"	6"	13.625"	14.5"	33.25"	43.75"	66.75"	63.25"	43.375"
Mod Con 1700	72.5"	20.5"	36"	13.75"	8.375"	64.5"	8.25"	20"	18.75"	43.5"	62.375"	88.50"	63.25"	59"

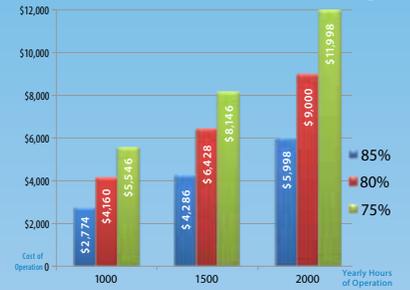


Please note: all dimensions are approximate and heights do not include adjustable legs.

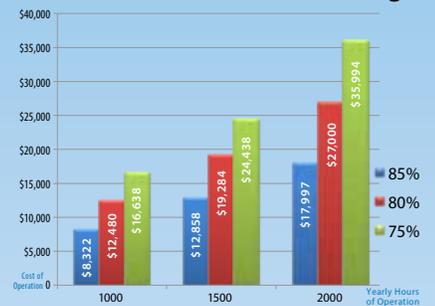


FUEL SAVINGS: (based on running hours, calculated using FTC-published average energy costs, Jan. 2009; \$1.21 per therm) The cost of fuel in some areas of the country has increased by almost 40% in just one year. The highly efficient modulating output of the Mod Con DS will provide a maximum payback on fuel savings. As the charts below illustrate, savings can result in a payback period in less than three years when compared to the conventional technology of other boilers. The Mod Con could save you as much as 50% on your present fuel bills.

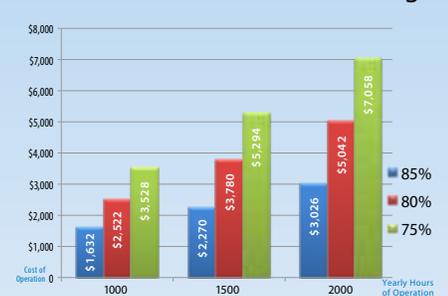
MOD CON 1700 1 Year Fuel Savings



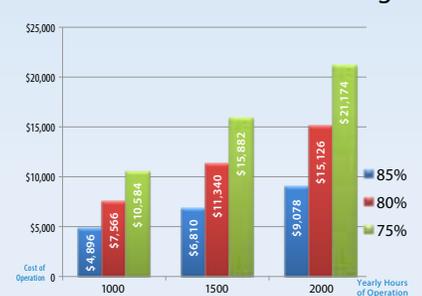
MOD CON 1700 3 Year Fuel Savings



MOD CON 1000 1 Year Fuel Savings



MOD CON 1000 3 Year Fuel Savings



MOD CON

Ultra High
94% Efficiency
 Low Mass Boiler

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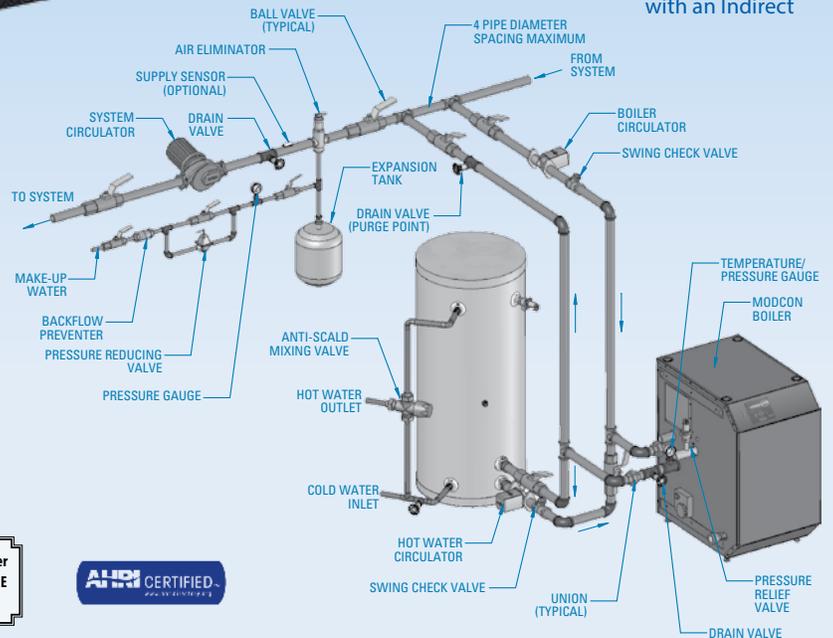


Heat Exchanger:
 316L Stainless Steel
 Construction

Modulating Burner
 with a 5 to 1
 Turndown Ratio

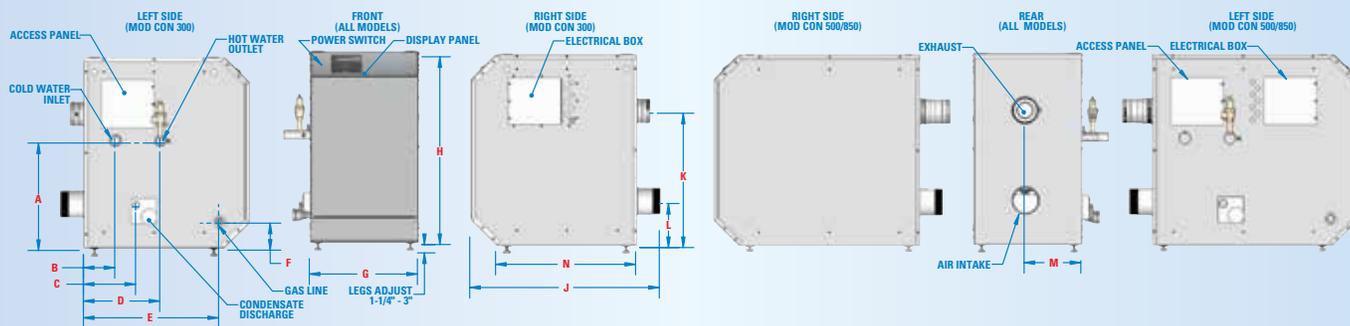
Cascading Capability: Up
 to 8 Boilers - Increased
 Turndown Ratios, Built-In
 Redundancy and a Total
 Heating Capacity of up to
 6,800,000 Btuh

The Mod Con
 with an Indirect



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

MOD CON Dimensional Information



Model	A	B	C	D	E	F	G	H	J	K	L	M	N
MOD CON 500	20.00"	6.25"	13.25"	14.50"	33.25"	5.15"	20.50"	36.00"	40.00"	25.50"	14.75"	10.50"	34.00"
MOD CON 850	20.00"	6.25"	16.25"	18.75"	43.50"	20.00"	20.50"	36.00"	68.75"	25.50"	20.00"	10.50"	57.50"

Model	BTU / hr Input Low Fire	Gross Output BTU / hr	Net I=B=R BTU / hr	Thermal Efficiency	Turndown Ratio	Supply/Return Conn.	Gas Conn.	Vent Dia.	Ship Wt.	Combined Vent Length
MOD CON 500	100,000–500,000	470,000	409,000	94%	5:1	2"	1-1/2"	4"	505	up to 200'
MOD CON 850	170,000–850,000	799,000	695,000	94%	5:1	2"	2"	6"	580	up to 200'

PLEASE NOTE: ALL DIMENSIONS ARE APPROXIMATE AND HEIGHTS DO NOT INCLUDE ADJUSTABLE LEGS.

Combustion System

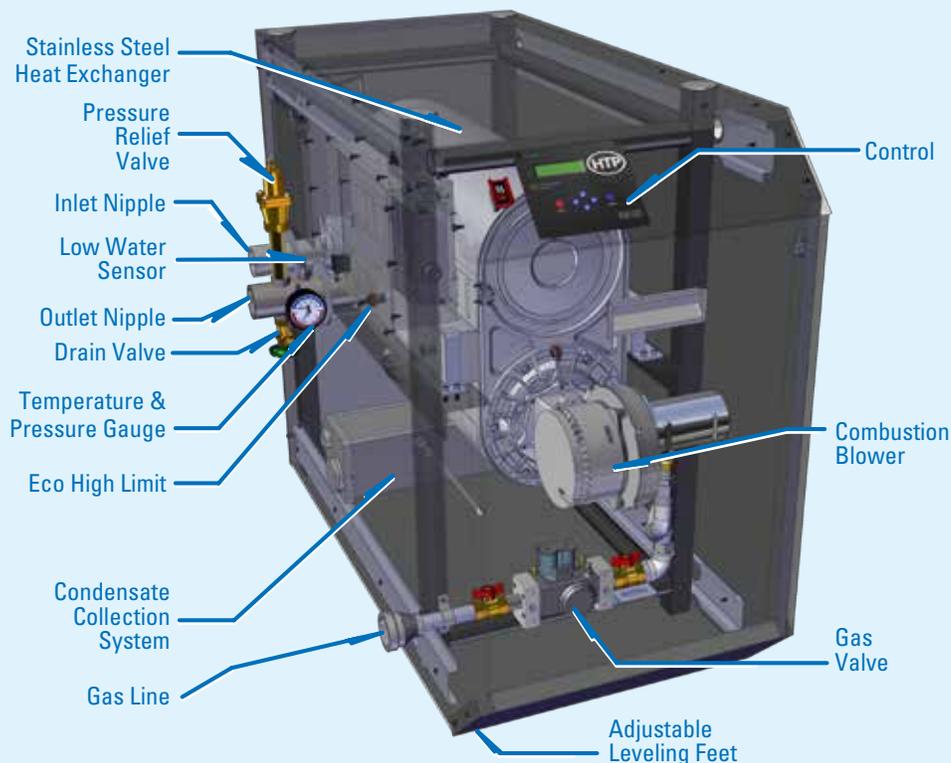
- 94% Thermal Efficiency
- Modulating Burner with 5 to 1 turn down
- Whisper Quiet Operation
- Low NOx Operation
- High Grade Inconel Burner
- Reliable Spark Ignition
- Gas Valve (Tested to UL, FM, CSA Standards)

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 with LED status indicators
- 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)

Elite

Heating Boiler®

5:1
Turndown
Ratio

LOW MASS

Up to 96% Efficient

Energy Star rated: eligible for tax credits & utility company rebates (excludes EL-301 & EL-399)

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



316L stainless steel heat exchanger

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

htproducts.com/elite

Elite Heating Boiler®

Dimensions & Specifications



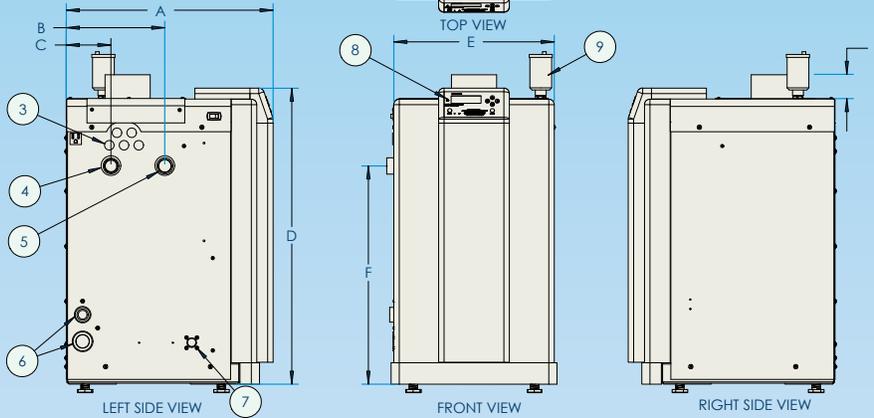
Elite Model	Btuh / Input Range	AFUE
EL-80	16,000 - 80,000	96
EL-110	22,000 - 110,000	95
EL-150	30,000 - 150,000	95
EL-220	44,000 - 220,000	95
EL-299	60,000 - 299,000	93.0
EL-301	60,000 - 301,000	96.1*
EL-399	80,000 - 399,000	95.4*

* Thermal Efficiency (Not AFUE)

*"N" DENOTES NATURAL GAS "L" DENOTES PROPANE
ALL DIMENSIONS ARE APPROXIMATE
AND ARE SUBJECT TO CHANGE

- 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

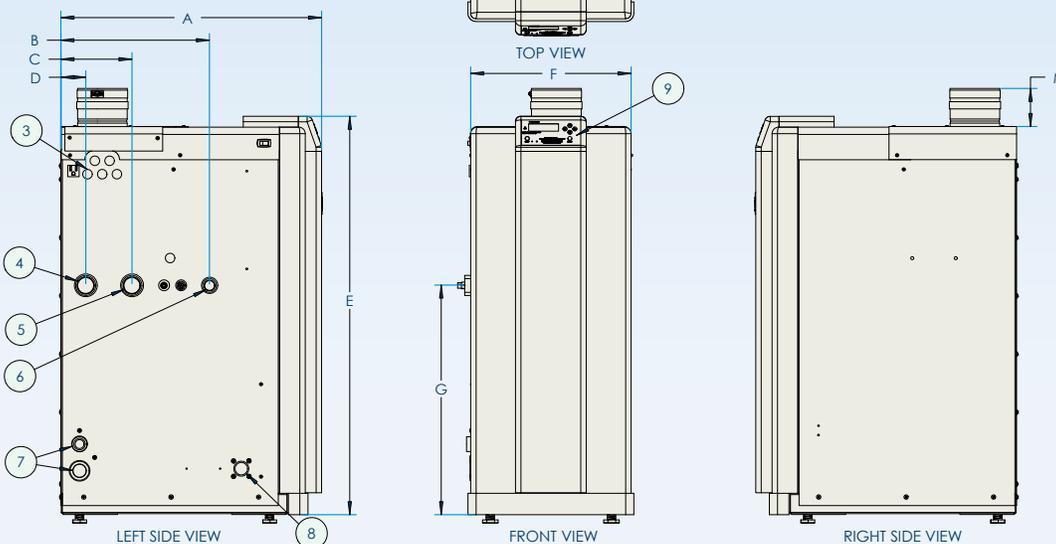


MODEL*	A	B	C	D	E	F	G	H	J	K	L	SHIPPING WEIGHT
EL-80	18.50	9.00	2.50	27.25	14.50	20.00	11.75	7.38	5.75	10.00	2.18	108
EL-110	18.50	9.00	2.50	27.25	14.50	20.00	11.75	7.38	5.75	10.00	2.18	113
EL-150	19.50	10.50	2.50	27.25	14.50	20.00	11.75	7.38	4.25	8.50	2.18	126
EL-220	26.50	17.50	6.00	27.25	14.50	20.00	11.75	7.38	4.25	8.50	2.18	164

MODEL	BTU/INPUT LOW FIRE	DOE HEATING	IBR	SUPPLY/RETURN	EXHAUST/AIR INLET	GAS CONNECTION
EL-80	16,000-80,000	14,600-73,000	63,000	1"	3"	3/4"
EL-110	22,000-110,000	20,200-101,000	88,000	1"	3"	3/4"
EL-150	30,000-150,000	27,400-137,000	119,000	1"	3"	3/4"
EL-220	44,000-220,000	40,600-203,000	177,000	1"	3"	1"

- 1 EXHAUST VENT CONNECTION
- 2 COMBUSTION AIR INLET CONNECTION
- 3 ELECTRICAL CONNECTIONS
- 4 SYSTEM RETURN

- 5 SYSTEM SUPPLY
- 6 RELIEF VALVE
- 7 CONDENSATE CONNECTION
- 8 GAS LINE CONNECTION
- 9 DISPLAY/CONTROL PANEL



MODEL*	A	B	C	D	E	F	G	H	J	K	L	M	SHIPPING WEIGHT
EL-299	23.75	13.50	6.38	2.25	36.50	14.50	21.00	11.00	7.88	3.63	8.50	3.00	211
EL-301	23.75	13.50	6.38	2.25	36.50	14.50	21.00	11.00	7.88	3.63	8.50	3.00	211
EL-399	30.75	20.50	9.75	2.75	36.50	14.50	21.00	11.00	7.88	3.63	8.50	3.00	256

MODEL*	BTU/INPUT LOW FIRE	DOE HEATING	IBR	SUPPLY/RETURN	EXHAUST/AIR INLET	GAS CONNECTION
EL-299	60,000 - 299,000	55,000 - 275,000	239,000	1-1/4"	4"	1"
EL-301	60,000 - 301,000	55,000 - 275,000	239,000	1-1/4"	4"	1"
EL-399	80,000 - 399,000	76,200 - 381,000	331,000	1-1/2"	4"	1"



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

Elite

Premier

COMING SOON

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: Total System Control

No primary/secondary
piping required

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

Floor standing or wall mount

12 year limited warranty

316L stainless steel heat exchanger

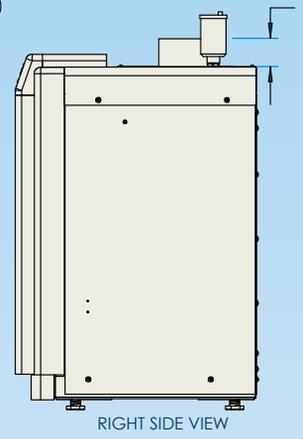
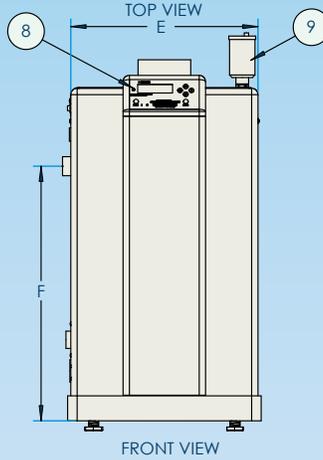
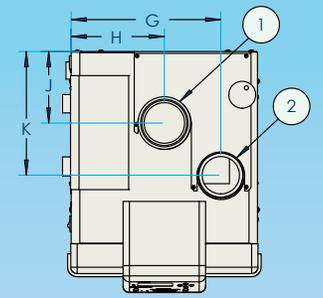
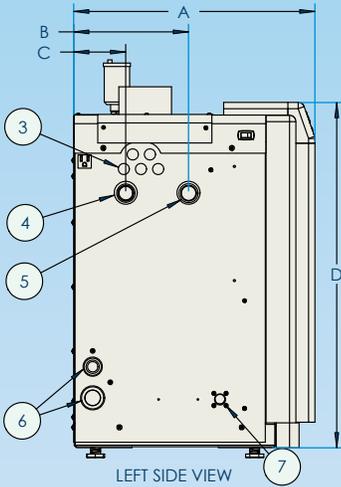
Elite Applications: Radiant Floor • Fan Coil • Base Board • Snow Melt • DHW (w/ Indirect Tank or VWH) • Pool Heater (w/ Indirect Tank) • DHW (VWH) • ASME

htproducts.com/elitepremier

Elite Premier

- 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



Elite Model	Btuh / Input Range	AFUE
EP-80	8,000 - 80,000	96
EP-110	11,000 - 110,000	95
EP-150	15,000 - 150,000	95
EP-220	22,000 - 220,000	95
EP-299	30,000 - 299,000	93.0
EP-301	30,000 - 301,000	96.1*
EP-399	40,000 - 399,000	95.4*

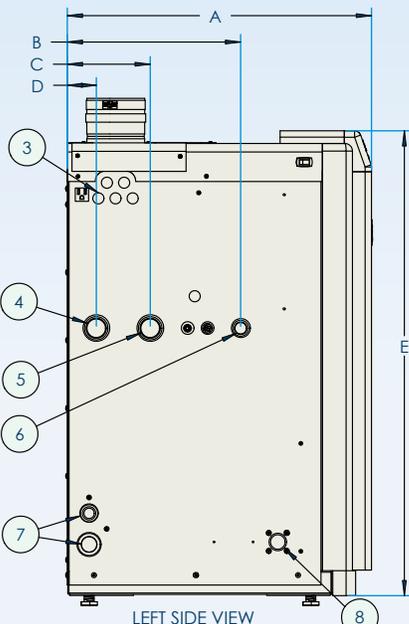
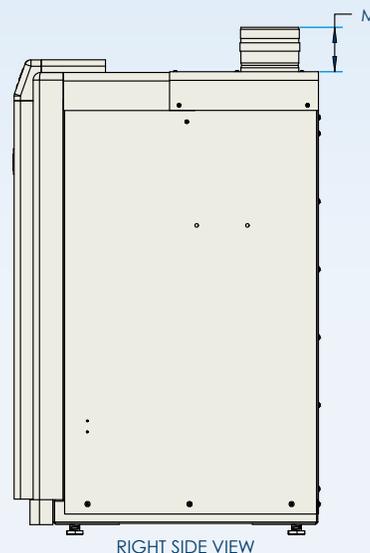
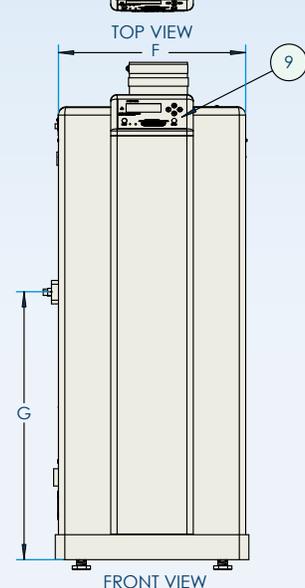
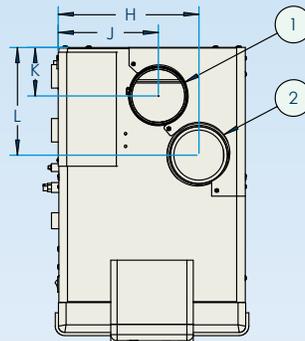
* Thermal Efficiency (Not AFUE)

MODEL*	A	B	C	D	E	F	G	H	J	K	L	SHIPPING WEIGHT
EP-80	18.50	9.00	2.50	27.25	14.50	20.00	11.75	7.38	5.75	10.00	2.18	108
EP-110	18.50	9.00	2.50	27.25	14.50	20.00	11.75	7.38	5.75	10.00	2.18	113
EP-150	19.50	10.50	2.50	27.25	14.50	20.00	11.75	7.38	4.25	8.50	2.18	126
EP-220	26.50	17.50	6.00	27.25	14.50	20.00	11.75	7.38	4.25	8.50	2.18	164



- 1 EXHAUST VENT CONNECTION
- 2 COMBUSTION AIR INLET CONNECTION
- 3 ELECTRICAL CONNECTIONS
- 4 SYSTEM RETURN

- 5 SYSTEM SUPPLY
- 6 RELIEF VALVE
- 7 CONDENSATE CONNECTION
- 8 GAS LINE CONNECTION
- 9 DISPLAY/CONTROL PANEL



MODEL*	A	B	C	D	E	F	G	H	J	K	L	M	SHIPPING WEIGHT
EP-299	23.75	13.50	6.38	2.25	36.50	14.50	21.00	11.00	7.88	3.63	8.50	3.00	211
EP-301	23.75	13.50	6.38	2.25	36.50	14.50	21.00	11.00	7.88	3.63	8.50	3.00	211
EP-399	30.75	20.50	9.75	2.75	36.50	14.50	21.00	11.00	7.88	3.63	8.50	3.00	256

*"N" DENOTES NATURAL GAS "LP" DENOTES PROPANE
ALL DIMENSIONS ARE APPROXIMATE
AND ARE SUBJECT TO CHANGE



Elite FT

High Efficiency Fire Tube Medium Mass Boiler

7 sizes:

55,000, 80,000,
110,000, 155,000,
199,000, 285,000
& 399,000 Btuh

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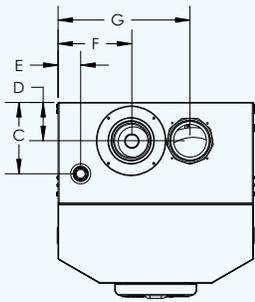
up to **97% Efficient**
5:1 Turndown Ratio



- Combustion turndown up to 5:1
- Energy Star rated: up to 97% AFUE operating efficiency
- Low NOx emission
- Stainless steel fire tube heat exchanger
- Outdoor reset lowers operating set point automatically
- Unbeatable combined vent length of 200 ft. in 3" PVC pipe
- 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

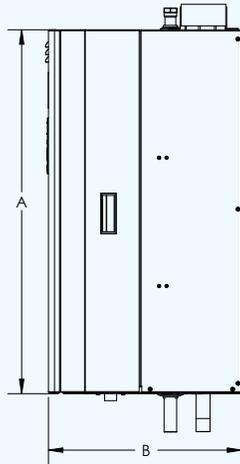
Elite FT Applications: Radiant Floor • Fan Coil • Base Board • Snow Melt • DHW (w/ Indirect Tank) • Pool Heater (w/ Indirect Tank) • Retro Fit • ASME

Dimensions and Specifications

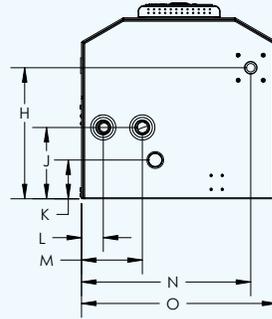


Models: EFT-55, EFT-80, EFT-110

Top View



Side View



Bottom View

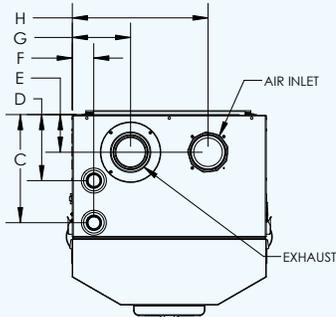
STANDARD FEATURES

- Up to 97% AFUE
- Modulating Burner
 - 5:1 Turndown Ratio
- Venting Options
 - Concentric
 - 3" Pipe: Balanced or Unbalanced
- Limited 12 Year Warranty
- Wall Mounted
- Total System Control
- The Elite FT is ASME Certified

INCLUDED IN THE BOX

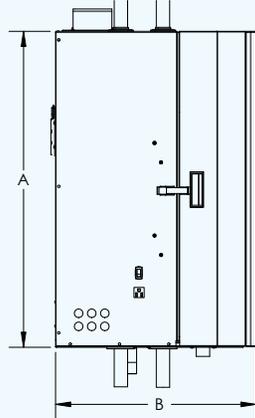
- Temperature and Pressure Gauge
- Pressure Relief Valve 30 PSI (80 psi for EFT-285 & EFT-399 Models)
- Indirect Sensor & Outdoor Sensor
- Intake PVC w/ Screens
- Exhaust PVC Coupling w/ Screens
- Installation Manual
- Warranty
- Condensation Removal System
- Wall Mount

Model	Max. MBH	Min. MBH	AFUE	Heating Capacity MBH	A	B	C	D	E	F	G	H	J	K	L	M	N	O
EFT-55	55	13	97	51	32 1/2"	17 3/8"	61 1/4"	3 1/2"	21 1/4"	6 1/2"	11 3/4"	12 1/2"	6 1/4"	3 1/2"	2"	5 1/2"	15"	17 1/2"
EFT-80	80	17	96	79														
EFT-110	110	22	96	102														

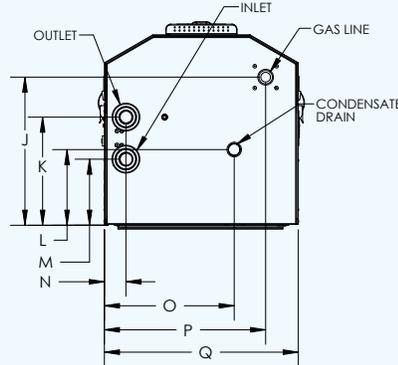


Models: EFT-155, EFT-199, EFT-285 & EFT-399

Top View



Side View



Bottom View

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

Model	Max. MBH	Min. MBH	AFUE	Heating Capacity MBH	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q
EFT-155	155	31	96	142	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-199	199	40	95	183																
EFT-285	285	57	95	262																
EFT-399	399	80	93.2*	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"

* Thermal Efficiency (Not AFUE)

Model	BTU	Shipping Weight	Gas Conn.	Water Conn.	Air Inlet	Vent Size
EFT-55	55,000	125 lbs.	3/4"	1"	3"	3"
EFT-80	80,000	128 lbs.				
EFT-110	110,000	130 lbs.				
EFT-155	155,000	195 lbs.		1 1/4"	4"	4"
EFT-199	199,000	198 lbs.				
EFT-285	285,000	203 lbs.				
EFT-399	399,000	298 lbs.	1 1/2"	4"	4"	



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
95% AFUE

Equipped with
Highly Innovative
Gas Leak Detector

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

Supply and Return Connections
on Both the Top and Bottom

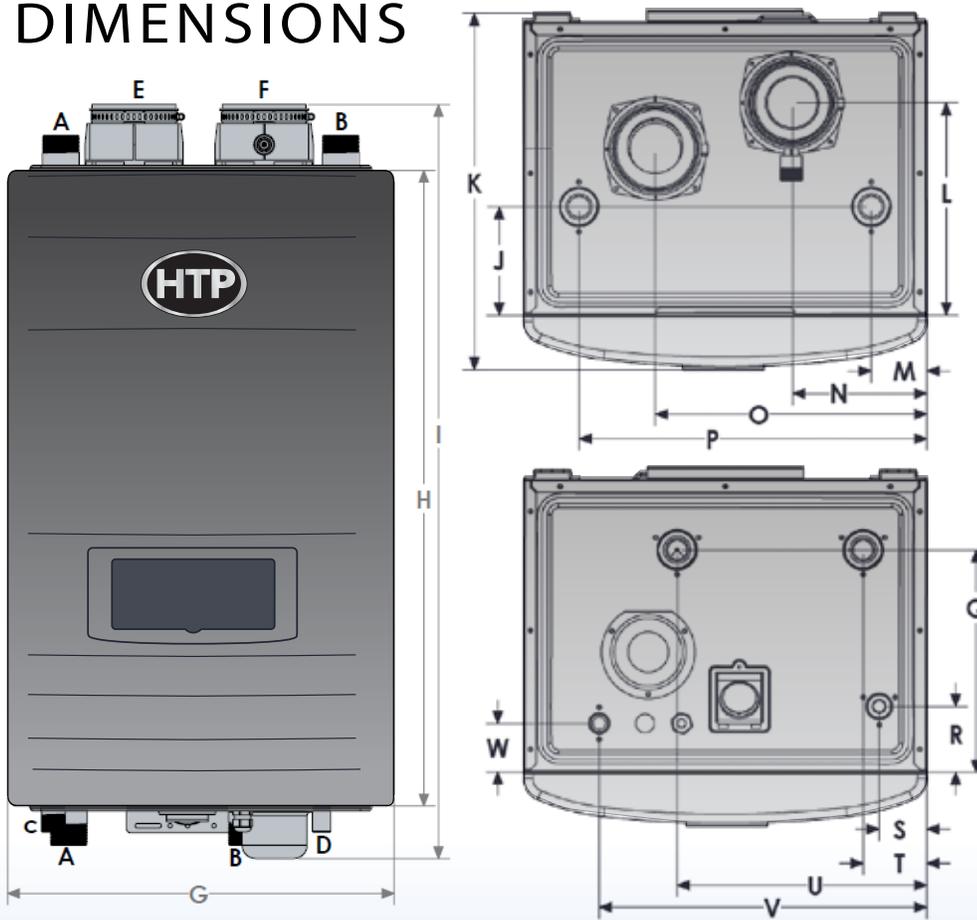
No Primary/ Secondary
Piping Needed



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

DIMENSIONS



- INCLUDED IN THE BOX**
- 2 Vent Screens (3")
 - 30 PSI Pressure Relief Valve
 - 1 1/4" x 1 1/4" x 3/4" Tee (steel) & 3/4" Street Elbow (steel)
 - Anchors & Wall Mounting Bracket
 - Quick Reference Guide, User & Installation Manuals
 - Condensate Hose
 - Spare Parts Kit
 - 3" CPVC Pipe (6" Length)
 - Outdoor Sensor with Screws & Anchors

- 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
 - PC Connection Kit
 - Condensate Neutralizer

	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
UFT-80W UFT-100W	17.5	28.75	34	2.15	15.5	9.14	2.38	5.82	11.66	14.94	9.56	2.83	2.05	2.74	10.73	14.07	2.09
UFT-120W UFT-140W	17.5	28.75	34	2.15	15.5	9.14	2.38	5.82	11.66	14.94	9.56	2.83	2.05	2.74	10.73	14.07	2.09
UFT-175W UFT-199W	COMING SOON																

Model		UFT-80W	UFT-100W	UFT-120W	UFT-140W	UFT-175W	UFT-199W
Input Rate		8,000~80,000 Btu/hr	10,000~100,000 Btu/hr	12,000~120,000 Btu/hr	14,000~140,000 Btu/hr	17,500~175,000 Btu/hr	20,000~199,000 Btu/hr
Dimensions (W - H - D)		W 17.25" - H 29.0" - D 15.5"				W 19.68" - H 31.89" - D 17"	
Installation Type		Indoor / Wall hung					
Vent Type		Forced Draft Direct-vent					
Combined Vent Length & Venting Materials		2"(50ft) , 3"(100ft) / PVC, CPVC, PP					
Ignition		Direct Electronic Ignition					
Gas Supply Pressure	Natural Gas	3.5" WC to 14" WC					
	Propane Gas	3.5" WC to 14" WC					
Power Supply	Main Supply	120V 60Hz					
	Max Power	160W					
Water Pressure		Min 15 ~ Max 30 PSI					
Connection Sizes	Supply/Return	1-1/4" NPT					
	Gas Inlet	3/4" NPT					
Warranty		Limited 12 Year Residential Warranty					

Pioneer

**A Trailblazing Appliance that Installs Like a Mid-Efficiency Boiler
with 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



PIONEER DIMENSIONS AND SPECIFICATIONS										
MODEL #	MODULATION RANGE	AIR INTAKE/ EXHAUST VENT SIZE	SUPPLY/ RETURN SIZE	AIR VENT	GAS CONN.	SHIPPING WT. (lbs.)	GAL.			
PHR100-55	35,000- 100,000	2"	1-1/4" NPT	1/8" NPT	3/4"	260	55			
PHR130-55	35,000- 130,000	2"								
PHR160-55	40,000- 160,000	3"								
PHR199-55	40,000- 199,000	3"								
A	B	C	D	E	F	G	H	J	K	L
23"	53"	6-1/2"	8"	22"	7-1/2"	8"	6"	34"	45"	1-1/4"

All standard Pioneers are built to fire on Natural gas. LP conversion kits are included with the product..

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

Pioneer Model

Thermal Efficiency

PHR-100-55	95%
PHR-130-55	94%
PHR-160-55	95%
PHR-199-55	95%



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

Versa-Hydro

Space Heating & Domestic Hot Water Combined

COMBI
HEATING



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: ultra high 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

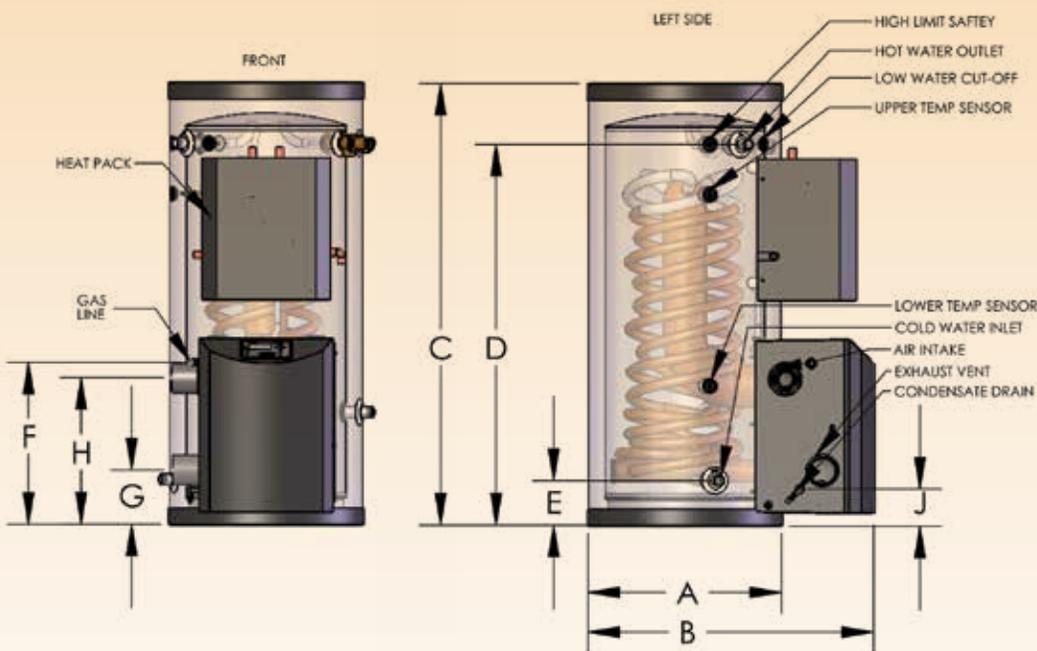
VERSA-HYDRO WATER HEATER SPECIFICATIONS

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



Versa-Hydro™



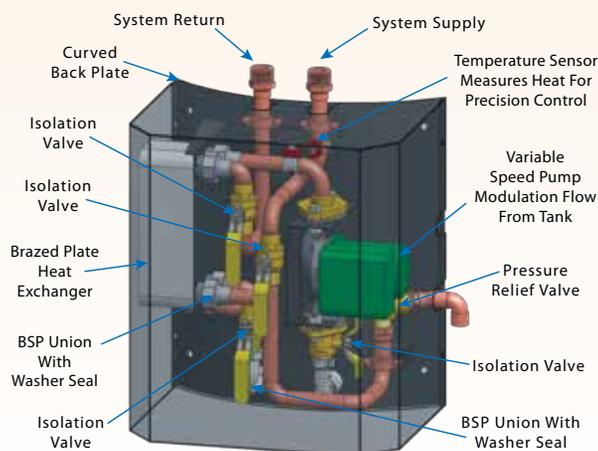
Compare Total Costs

No Primary/ Secondary Loop

No Near Boiler Piping

No Boiler/Indirect Electrical or Hydronic Heating Connections

No Isolation Valves



Versa-Flame

High Efficiency Combination Space Heating & Endless Hot Water

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Endless Hot Water:

- With a first hour rating of 300 gallons per hour, fill tub faster than any tankless appliance
- At a 77°F rise, deliver domestic hot water instantaneously about 5 gallons per minute to multiple outlets
- 55 gallon thermal mass to draw heat from
- Built in dirt & air separator

High Efficiency, High Mass Space Heating:

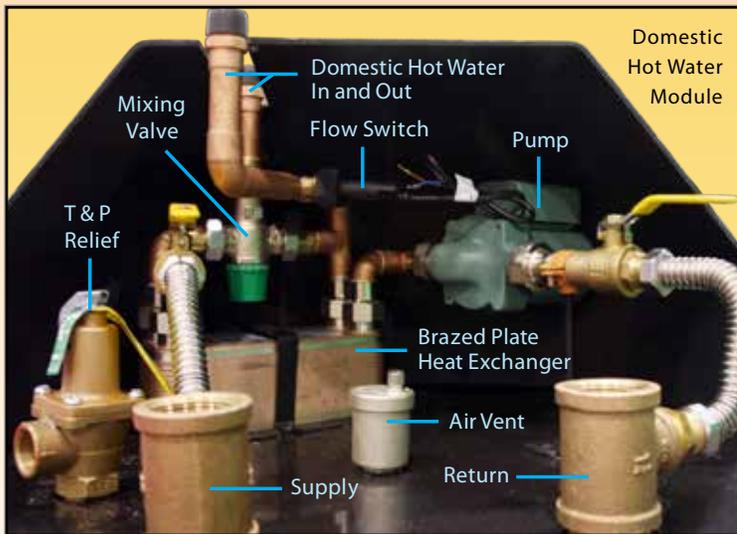
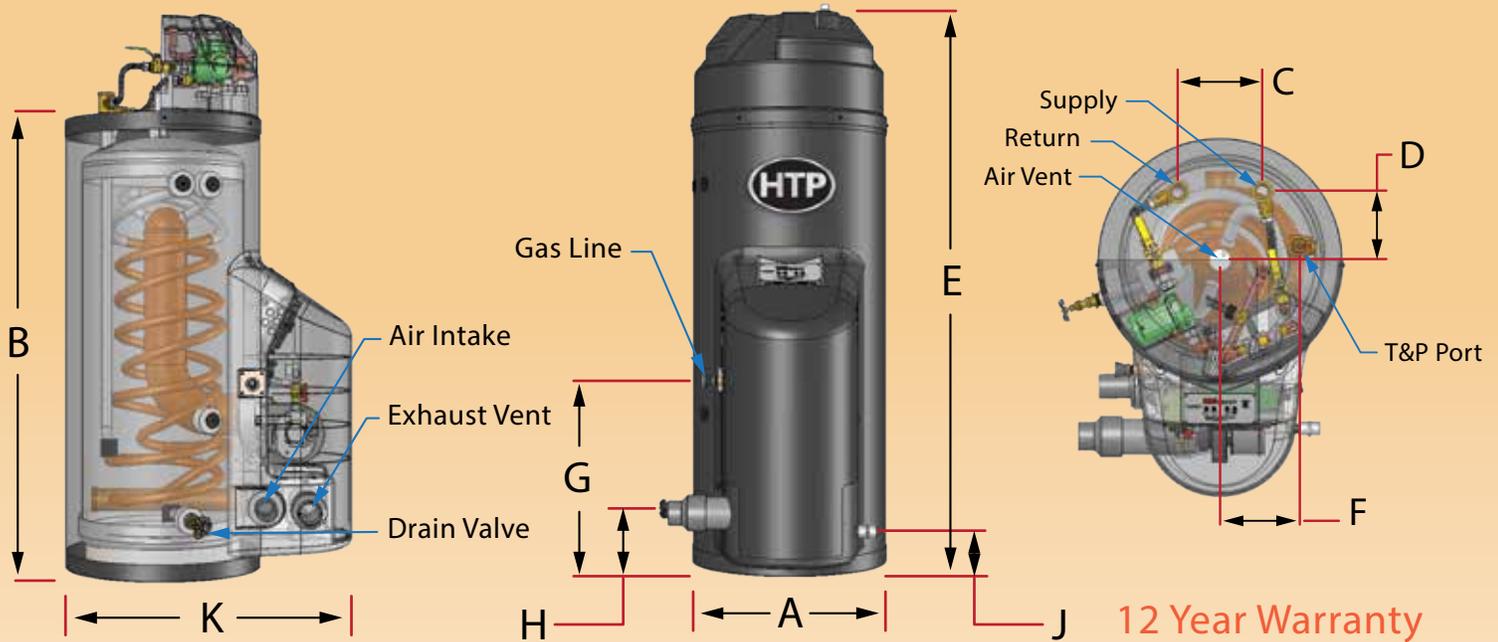
- Up to **95% efficient**
- Modulation provides up to **5:1 turndown ratio**
- Stainless steel tank
- No primary secondary piping required
- Low Pressure drop
- 12 year limited warranty



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

htproducts.com/versaflame

Dimensions & Specifications



Versa-Flame Dimensions									
A	B	C	D	E	F	G	H	J	K
23"	53"	8"	6.5"	64.5"	7.5"	22"	8"	6"	34"

Versa-Flame Specifications			
Supply-Return Sizes	Air Vent	Gas Conn	Vent Size
1.25" NPT	1/8"	3/4" NPT	2" (130) 3" (160, 199)

The Versa-Flame Out Performs Standard Tankless Combi Units!

DHW Source	199,000 BTUs @ 77° F Rise
Versa-Flame	Up to 57 Gallons For 10 Min. Draw
Tankless (is less)	Up to 42 Gallons For 10 Min. Draw

Versa-Flame VS Competition		
Combi Appliance	Versa-Flame	Competition
Single Loop Design <small>(eliminates need for primary secondary circulation)</small>	YES	NO
High Mass	55 Gallons	NO
Low Pressure Drop	YES	NO

Versa-Flame Model	BTU / Input Range	Tank Size	Approx. Shipping Weight	Gallons per minute @ 77° rise	First Hour Rating @ 77° rise	Height/ Diameter	Thermal Efficiency
PHR-130-55C	35,000- 130,000	55 Gallons	310 lbs.	3.2	210 GPH	64.5"/23"	94%
PHR-160-55C	40,000- 160,000	55 Gallons	310 lbs.	3.85	250 GPH	64.5"/23"	95%
PHR-199-55C	40,000- 199,000	55 Gallons	310 lbs.	4.8	300 GPH	64.5"/23"	95%

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

EFT Combi

Space Heating & Endless Hot Water

COMBI
HEATING



High Efficiency Floor Standing

Durable high grade stainless steel fire tube heat exchanger

Endless hot water, advanced temperature control

Advanced modulating gas condensing boiler up to 93.2% AFUE

Available in LP and Natural Gas

Equipped with highly innovative gas leak detector

Eco-friendly and low NOx combustion system

Stainless steel indirect storage tank (15 Gallon) which eliminates temperature fluctuation

5:1 Turndown Ratio

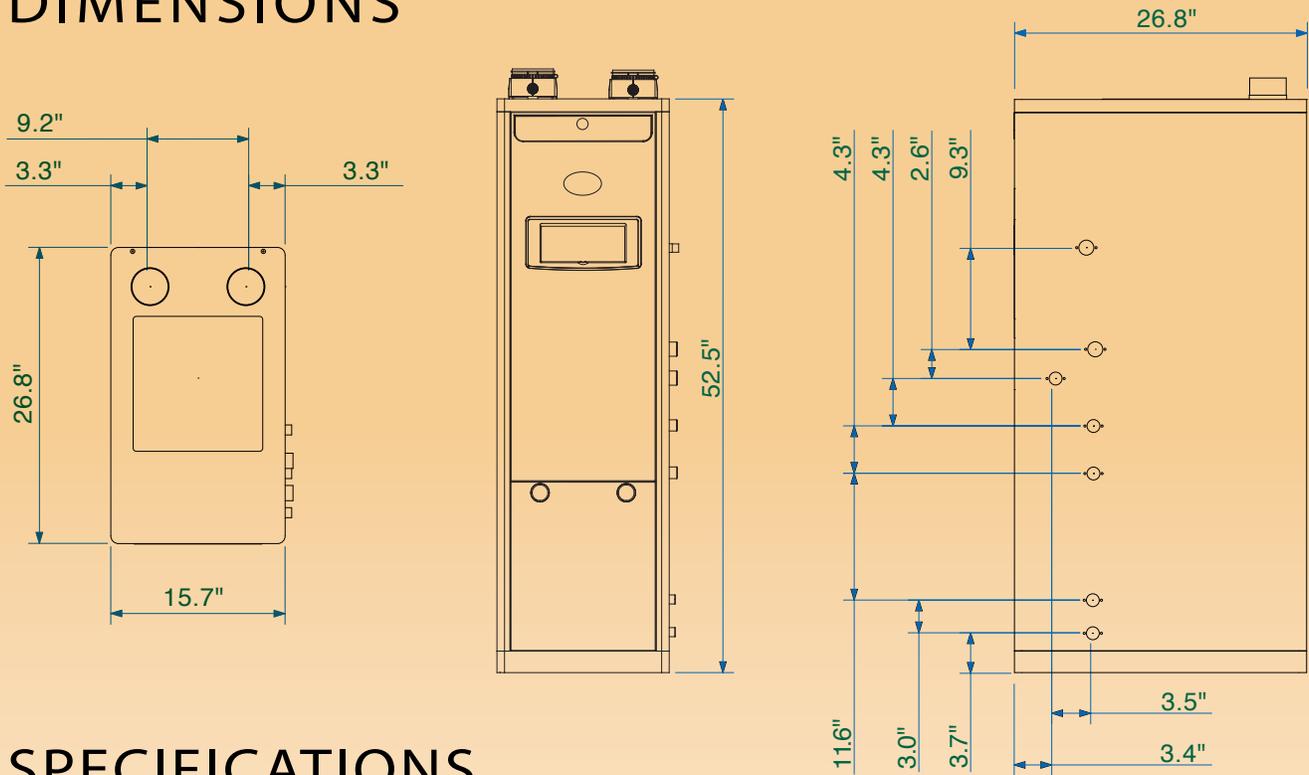
Revolutionary Design



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

htproducts.com/eftcombi

DIMENSIONS



SPECIFICATIONS

Model		EFTC -140F
Input Rate	Natural Gas, Propane Gas	28,000 ~ 140,000 Btu/hr
Dimensions		W 15.7" X H 52.5" X D 26.7"
Installation Type		Indoor / Floor Standing
Venting Type		Forced Draft Direct-Vent
Venting: Combined Vent Length / Materials		2"(50ft), 3"(100ft) / CPVC, PVC, PP
Ignition		Electronic Ignition
Gas Supply Pressure	Natural Gas	3.5" WC ~ 14" WC
	Propane Gas	3.5" WC ~ 14" WC
Power Supply	Main Supply	AC 120V / 60Hz
	Maximum Power Consumption	160W
Flow Rate (DHW)	35°(19°) Temp Rise	7.1 GPM
	45°(25°) Temp Rise	5.5 GPM
	77°(43°) Temp Rise	3.2 GPM
Water Pressure	Space Heating	15 PSI
	Domestic Hot Water	150 PSI
Connection Sizes	Cold Water Inlet/ Hot Water Outlet	3/4" NPT
	Space Heating Supply/Return	1" NPT
	Gas Inlet	1/2" NPT (1/2" x 3/4" Bell Coupling Provided to Upsize Gas Line)
Warranty		Limited 10 Year Residential Warranty

EFT Combi

Space Heating & Endless Hot Water

High Efficiency

Wall Mount

Stainless Steel, Fire Tube
Heat Exchanger

5 to 1 Turndown Ratio

Advanced Modulating Gas
Condensing Boiler; up to
95% AFUE

Built-in 2 Gallon Indirect
Stainless Steel Tank

Equipped with
Highly Innovative
Gas Leak Detector

3.2 GPM Flow Rate
@ 77° Rise

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



Revolutionary Design

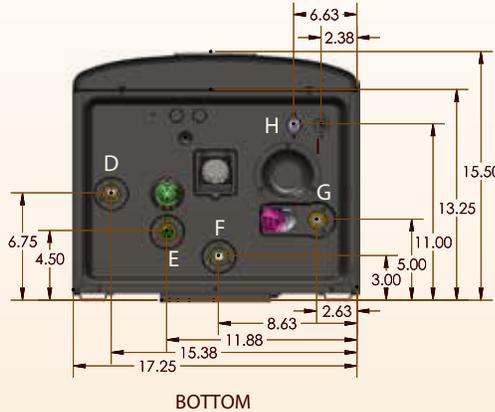
Save Energy • Save Money • Save Space • Save On Installation

COMBI
HEATING

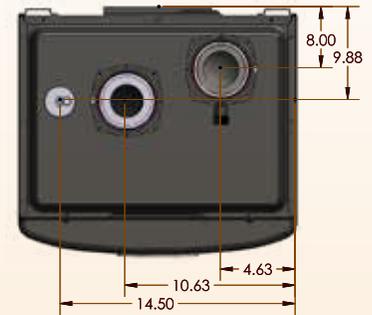
DIMENSIONS



	DESCRIPTION	DIAMETER
A	Automatic Air Vent	-
B	Intake Pipe Connection	3"
C	Exhaust Pipe Connection	3"
D	CH Supply Adapter	1" NPT
E	CH Return Adapter	1" NPT
F	DHW Outlet Adapter	3/4" NPT
G	DHW Inlet Adapter	3/4" NPT
H	Gas connection Adapter	1/2" NPT (1/2" X3/4" Bell Coupling Provided to Upsize Gas Line)
I	Condensate Adapter	-



BOTTOM



TOP

SPECIFICATIONS

Model		EFTC-140W
Input Rate	Natural Gas or Propane Gas	28,000 ~ 140,000 Btu/hr
Dimensions (W X H X D)		W 17.25" X H 29" X D 15.5"
Installation Type		Indoor / Wall - Hung
Venting Type		Forced Draft Direct-Vent
Venting: Combined Vent Length / Materials		2"(50ft), 3"(100ft) / PVC, CPVC & PP
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
	45°F(25°C) Temp Rise	5.5 gal/m
	77°F(43°C) Temp Rise	3.2 gal/m
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
	Space Heating Supply/Return	1" NPT
	Gas Inlet	1/2" NPT (1/2" x 3/4" Bell Coupling Provided to Upsize Gas Line)
Warranty		Limited 10 Year Residential Warranty

Phoenix LIGHT DUTY

Highly Efficient - Stainless Steel Tank

Highly Efficient Operation

- Up to 97% thermal efficiency

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
- No anode rods needed
- Lightweight

Highly Efficient Combustion Heat Exchanger

- patent pending cupronickel heat exchanger design boasts excellent heat transfer properties and resists corrosion

Condensate System

- Patent pending condensate system with removable built-in neutralizing PH 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 power vent options

Ease of Installation

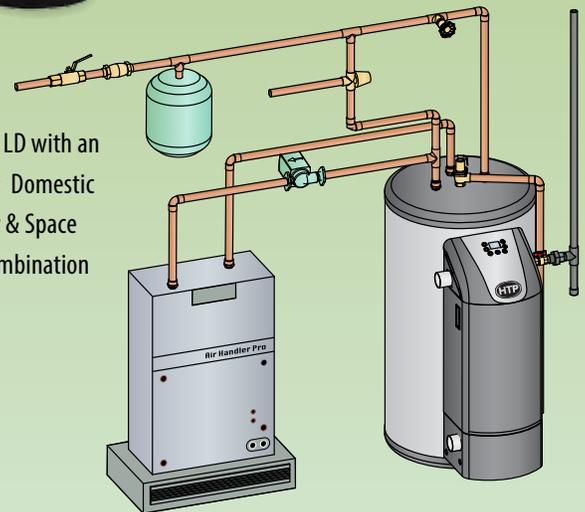
- Top ports on inlet and outlet (patent pending integral inlet mixing device)
- Top connect auxiliary port for recirculation line or air handler piping increases overall efficiency

Advanced Electronic Control

- Easy to read LCD (icon and text) display



The Phoenix LD:
Combustion System

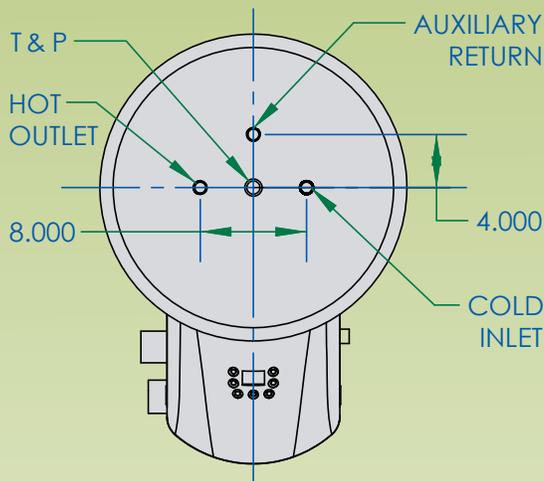
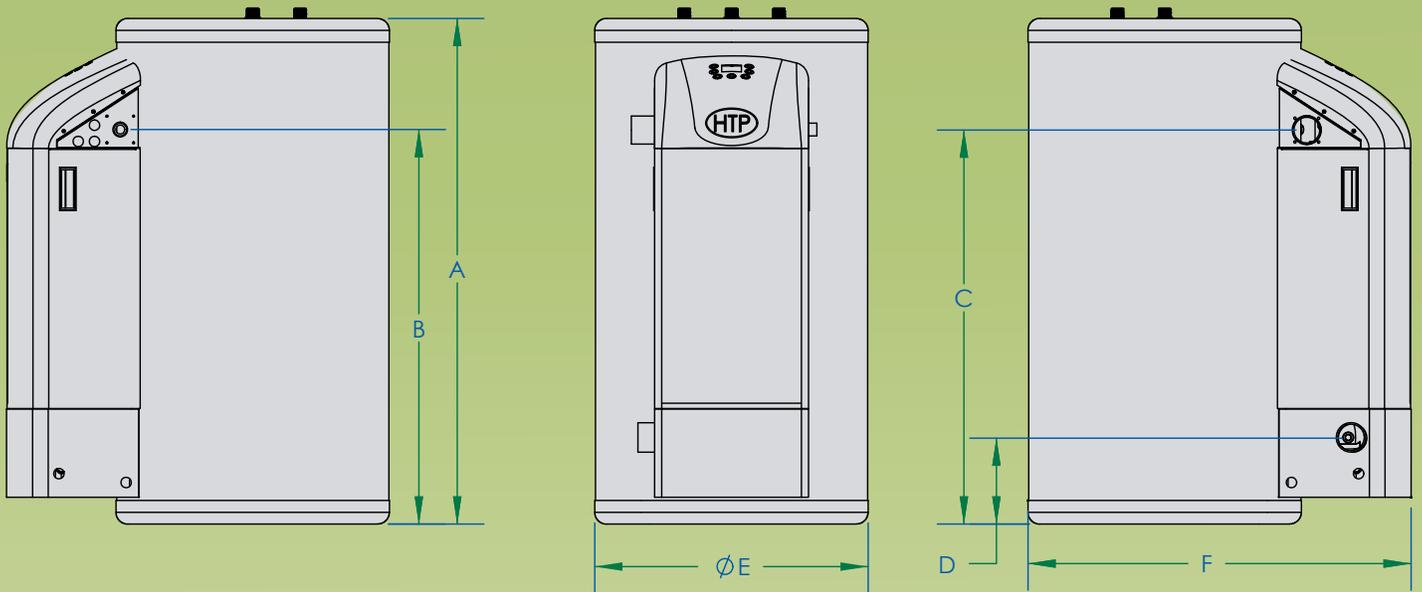


The Phoenix LD with an
Air Handler: Domestic
Hot Water & Space
Heating Combination

Model	Btuh	Vent Size	Gas Line	Gallon Capacity	Inlet, Outlet & Aux	Relief Valve	Thermal Efficiency	Recovery GPH At 90° F Rise	First Hour Rating
PH76-50	25,000 - 76,000	2"	1/2"	50	3/4" NPT	3/4" FNPT	97%	98	133 Gal.
PH76-60	25,000 - 76,000			60			97%		140 Gal.
PH76-80	25,000 - 76,000			80			95%		154 Gal.

GAS FIRED DHW

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
- PC Connection Cable w/ Software



MODEL	A	B	C	D	E	F	SHIPPING WEIGHT	THERMAL EFFICIENCY	MAX. TEMP LIMIT
PH76-50	46.75"	36.25"	33.25"	7.25"	23"	32.25"	155 LBS	97%	160°F
PH76-60	54.75"	36.25"	33.25"	7.25"	23"	32.25"	170 LBS	97%	
PH76-80	72.75"	36.25"	33.25"	7.25"	23"	32.25"	195 LBS	95%	

MODEL	BTUH	VENT SIZE	GAS LINE	GALLON CAPACITY	INLET/OUTLET SIZE	RELIEF VALVE	AUX CONN.	RECOVERY GPH AT 90° F RISE	FIRST HOUR RATING
PH76-50	25,000 - 76,000	2"	1/2"	50	3/4" NPT	3/4" FNPT	3/4" NPT	98	133 GAL.
PH76-60	25,000 - 76,000			60					140 GAL.
PH76-80	25,000 - 76,000			80					154 GAL.

The Phoenix

316 L 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.

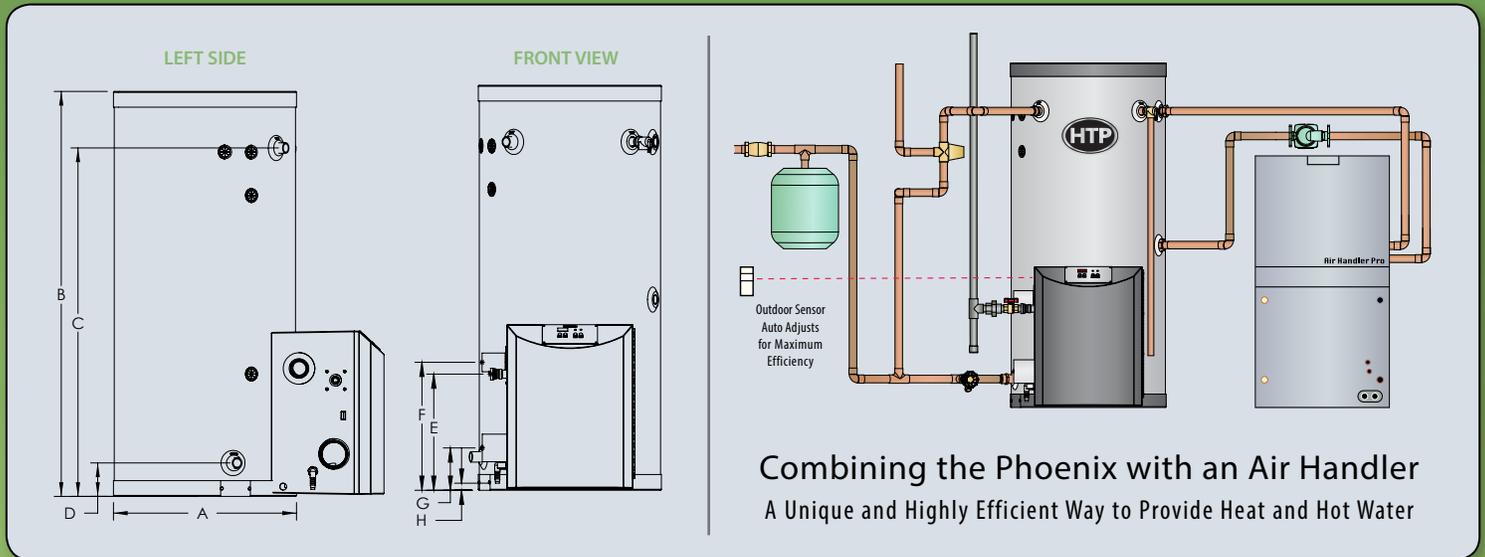
Up To 96% Efficient



PHOENIX WATER HEATER AND SANITIZER BOOSTER SPECIFICATIONS					
MODEL	BTU's (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



Combining the Phoenix with an Air Handler
A Unique and Highly Efficient Way to Provide Heat and Hot Water

HTP'S Unique Design

Our **laser welded, stainless steel** tank is the best in the industry and will out last 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 **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	BTU's	AIR INTAKE/ EXHAUST VENT	INLET/ OUTLET	AUXILIARY CONN.	GAS LINE CONN.	SYSTEM RELIEF PIPE	SHIPPING WEIGHT	MAX. TEMP LIMIT	THERMAL EFFICIENCY
PH100-55	100,000	2"	1" NPT	1" FNPT	3/4"	3/4"	175 LBS	160 F	95%
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%
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%
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 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:** (199K models have a 5:1 turndown ratio) modulates down to 10% of input capacity optimizes energy and reduces cycling, increasing efficiency
- Recirculation port on the top section provides additional efficiency
- Controls can be adjusted to increase efficiency by staging each combustion system*
- **Low NOx** combustion system meets the most stringent standards
- Power vent or direct power vent options



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

Specifications

STANDARD FEATURES

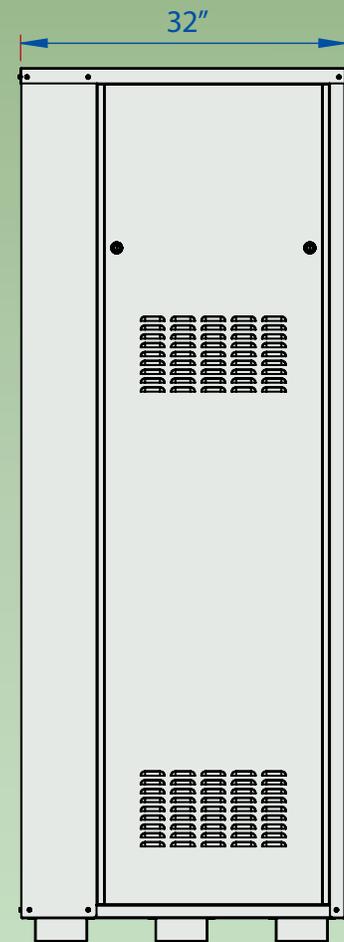
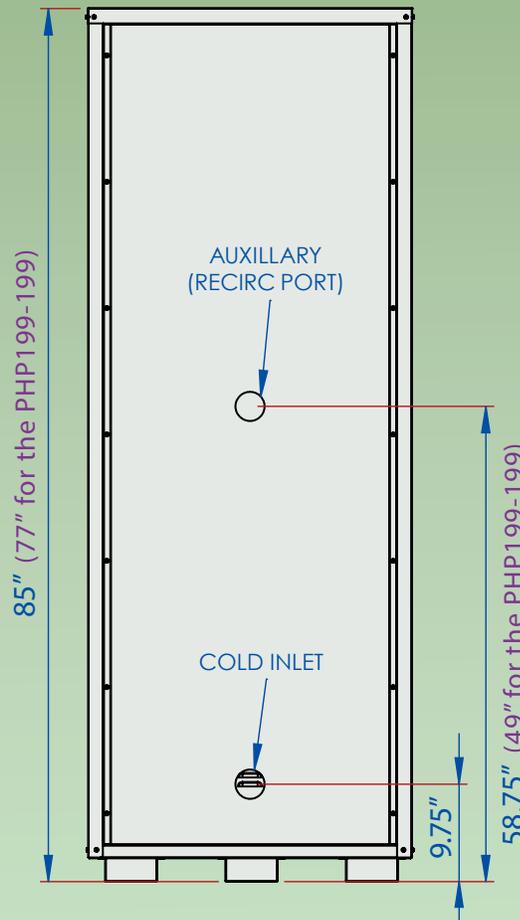
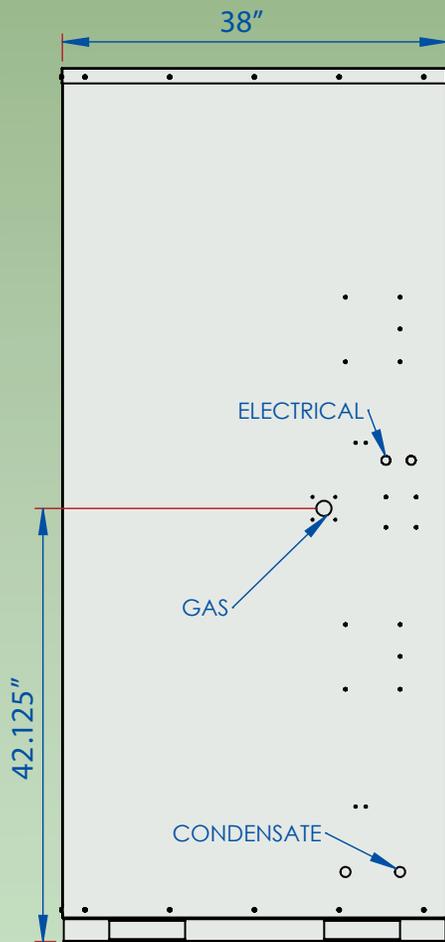
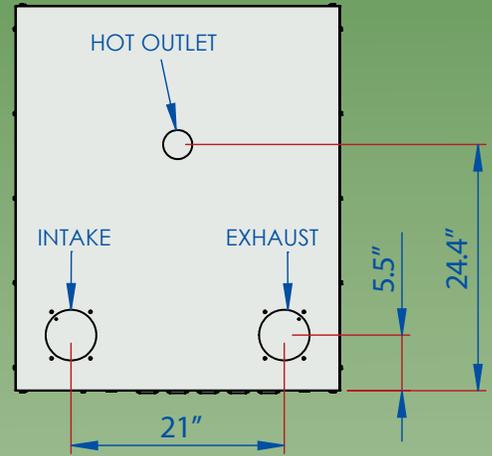
- Up to 95% Thermal Efficiency
- 2 Modulating Burners - Up to 10:1 Turndown Ratio (PHP199-199: 1 Burner; 199K models: 5:1 Turndown Ratio)
- Vents in PVC, CPVC, Stainless Steel, ULC S636
- Spark ignition
- Dual flame monitoring (Spark & Flame probe)
- Flame stabilization monitoring
- Integrated Control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

WHAT'S IN THE BOX

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

OPTIONAL EQUIPMENT

- 3" PVC Concentric Vent Kit (for the PHP199-199 Models)
- 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	1½" NPT	1" NPT	1" NPT	475 LBS	232	315	1	95%
PHP199-119D	40k – 199k Btuh	4"						555 LBS	232	315	2	–
PHP260-119	35k – 260k Btuh							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%

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

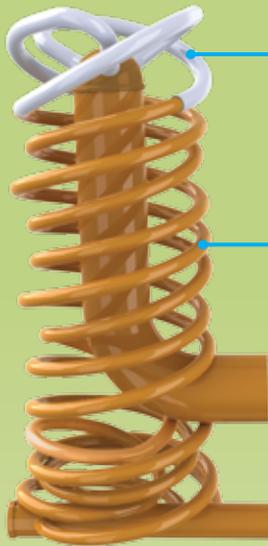
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HTP's Unique Heat Exchanger

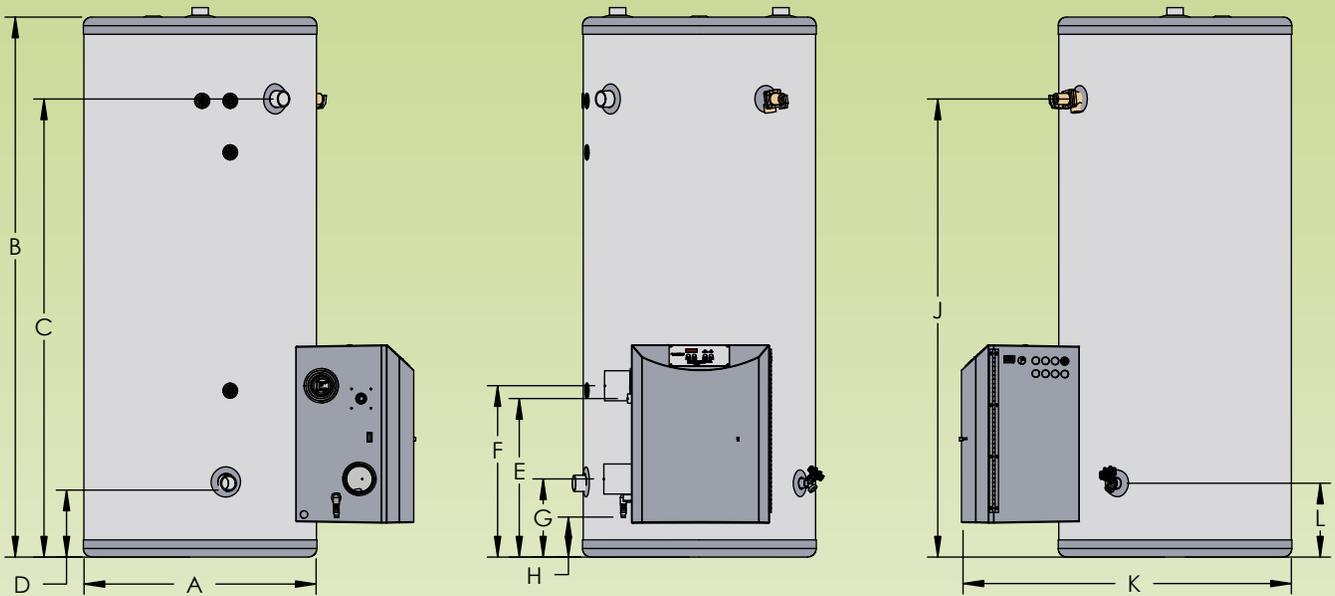
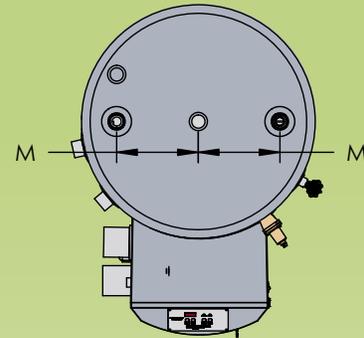
Durable Construction • High Performance • Excellent Heat Transfer Capabilities • Self Cleaning



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
PHM130-80/199-80	80	27"	55"	46"	7-1/4"	17"	18-1/4"	8"	3"	46"	38-1/4"	7-1/4"	9-1/2"
PHM130-100/199-100	100	27"	63"	54"	7-1/4"	17"	18-1/4"	8"	3"	54"	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	FIRST HOUR RATING	GAS LINE CONN.	SYSTEM RELIEF PIPE SIZE	SHIPPING WEIGHT	MAX. TEMPERATURE LIMIT	
PHM130-80	35,000 - 130,000	2"	1-1/2" NPT	227 GAL	3/4"	3/4"	235 LBS.	160°	
PHM199-80	40,000 - 199,000	3"	1-1/2" NPT	314 GAL	3/4"	3/4"	235 LBS.	160°	
PHM130-100	35,000 - 130,000	2"	1-1/2" NPT	238 GAL	3/4"	3/4"	405 LBS.	160°	
PHM199-100	40,000 - 199,000	3"	1-1/2" NPT	329 GAL	3/4"	3/4"	405 LBS.	160°	

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

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 BTU / hr	GPH @ 100° Rise	Thermal Efficiency
Mod Con 500 VWH	100,000-500,000	470,000	564	98%
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

Hot Water Supply Boiler

Best In Class Up To 95.9% AFUE



- 5 to 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 Boilers
- 5 year limited warranty

Model	BTU / Input Range	AFUE	GPH @ 100° Rise
EL-220 VWH	44,000-220,000	95.2	259
EL-299 VWH	60,000-299,000	93.0	344
EL-301 VWH	60,000-301,000	95.0*	344
EL-399 VWH	80,000-399,000	95.0*	457

* Thermal Efficiency (Not AFUE)



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

VOLUME WATER HEATER

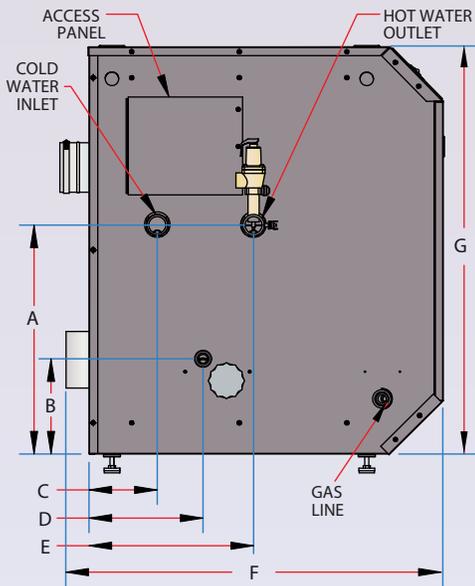
Dimensions

Mod Con VWH WHAT'S IN THE BOX

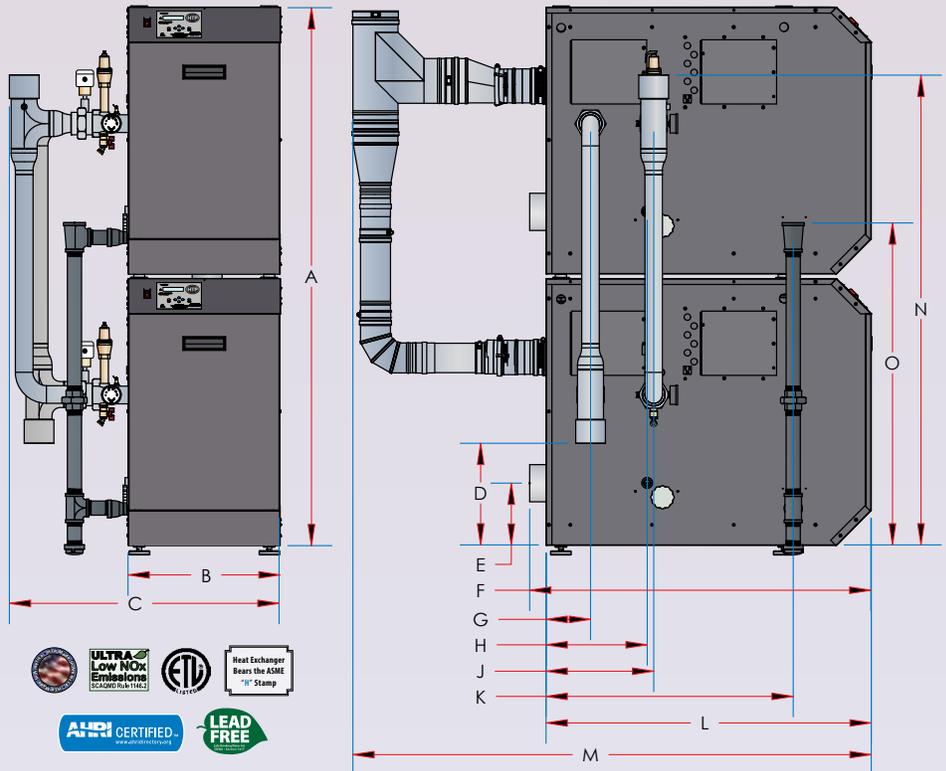
- Pressure and Temperature Gauge
- Pressure Relief Valve
- Intake PVC Tee with Screens
- Exhaust PVC Coupling with Screens
- Supply and Return Thermistors
- Flow Switch and Fitting
- Wiring Harness
- System/Pipe Sensor
- Installation Manual
- Warranty
- CSD-1 Form
- H-3 Data Sheet

MOD CON VWH DIMENSIONS							
MODEL*	A	B	C	D	E	F	G
MOD CON 500 VWH	20"	14.25"	6.25"	13.25"	14.5"	40"	36"
MOD CON 850 VWH	20"	20"	6.25"	16.25"	18.75"	68.75"	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 VWH 1000	72.5"	20.5"	36"	13.75"	8.38"	46"	6"	13.63"	14.5"	33.25"	43.75"	66.75"	63.25"	43.38"
ModCon DS VWH 1700	72.5"	20.5"	36"	13.75"	8.38"	64.5"	8.25"	20"	18.75"	43.5"	62.38"	88.5"	63.25"	59"

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

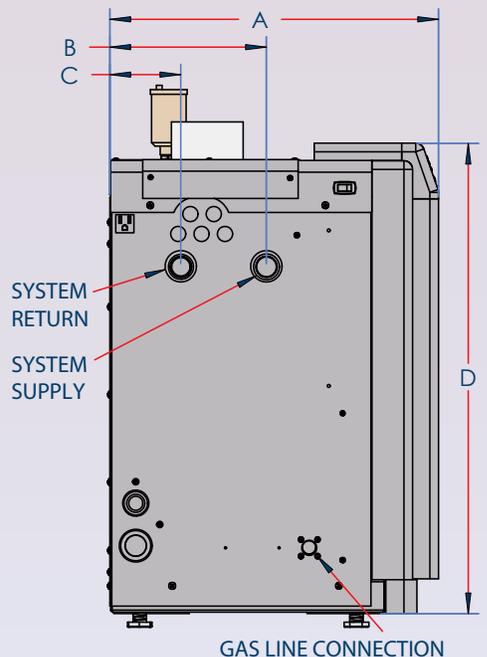
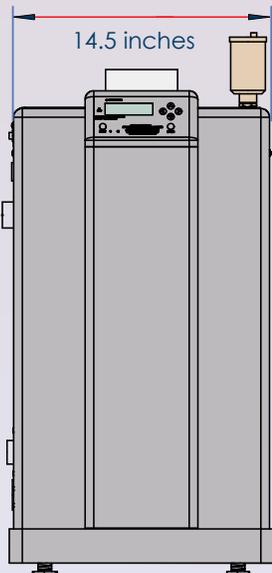
Elite VWH

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 VWH DIMENSIONS				
MODEL	A	B	C	D
EL-80 VWH	18-1/2"	9"	2-1/2"	27-1/4"
EL-110 VWH	18-1/2"	9"	2-1/2"	27-1/4"
EL-150 VWH	19-1/2"	10-1/2"	2-1/2"	27-1/4"
EL-220 VWH	26-1/2"	17-1/2"	6"	27-1/4"
EL-299 VWH	23-3/4"	6.38"	2-1/4"	36-1/2"
EL-301 VWH	23-3/4"	6.38"	2-1/4"	36-1/2"
EL-399 VWH	30-3/4"	9-3/4"	2-3/4"	36-1/2"



EVERLAST COMMERCIAL

Stainless Steel Electric Water Heater

NO ANODE RODS NEEDED

LIGHTWEIGHT

DUAL PORT LOCATIONS



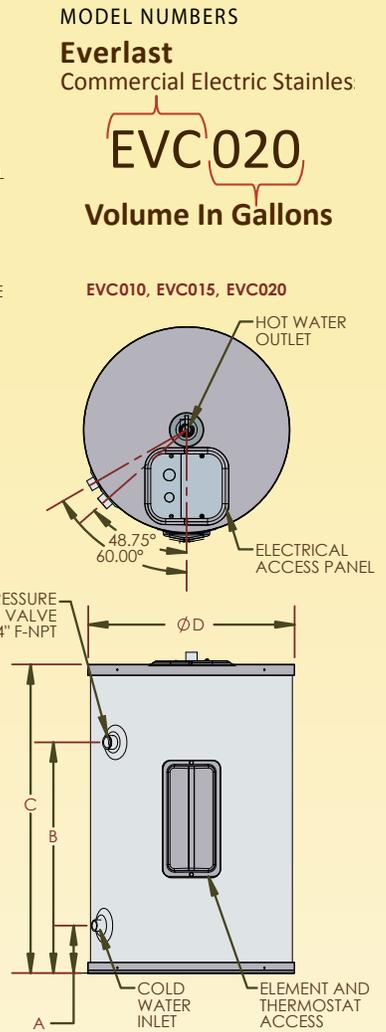
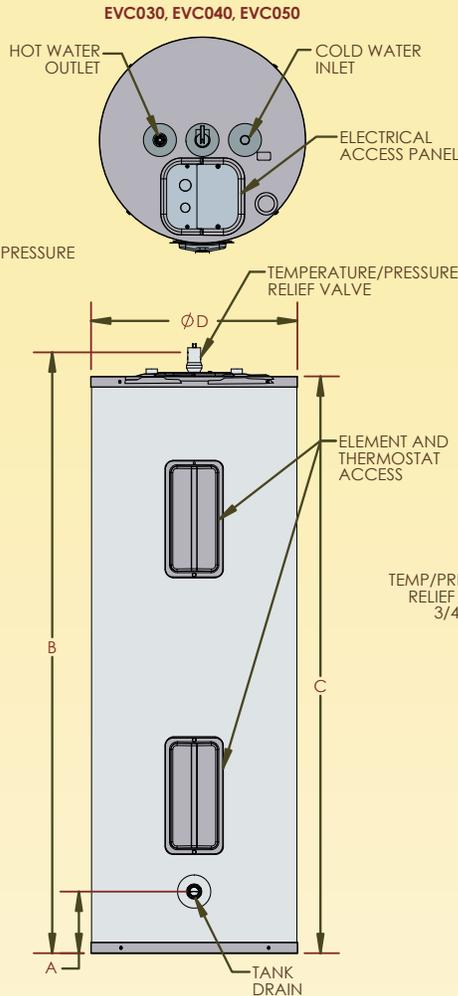
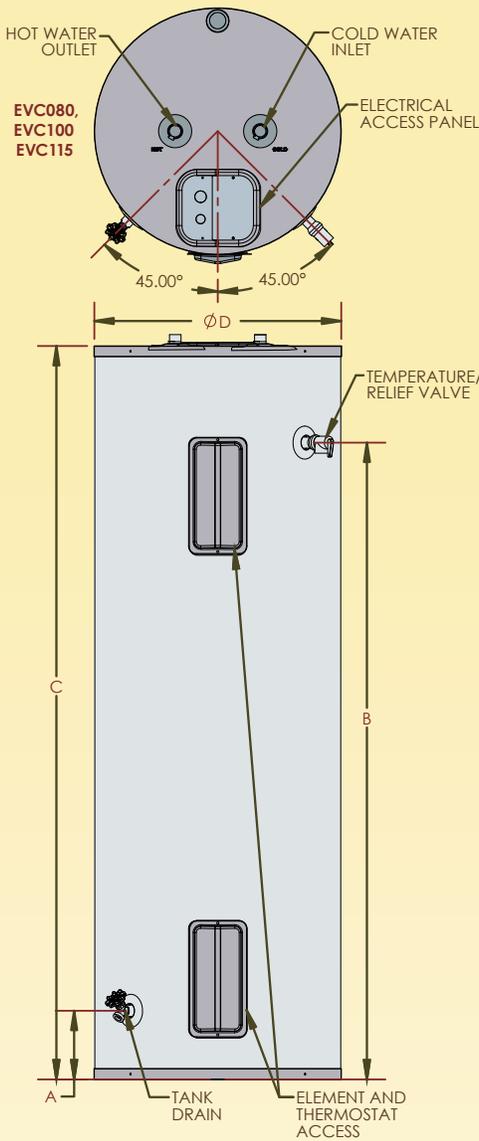
- Adjustable temperature 180°F
- Outlet connection on the top of the tank & on the side of the tank
- Laser welded 316L stainless steel tank
- Minimal heat loss: heavy duty insulation
- Stainless steel incoloy elements with low watt density provides longer element life
- Industry best 10 year warranty (with online registration)

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



BUILT TO LAST LONGER
INDUSTRY BEST 10 YEAR COMMERCIAL WARRANTY

Dimensions & Specifications



MODEL NUMBERS

Everlast
Commercial Electric Stainles

EVC020

Volume In Gallons

EVC010, EVC015, EVC020

Specifications and Dimensions							Water Temperature Ratings			
MODEL	GAL.	A	B	C	D	Shipping Weight Est.	Thermal Efficiency	Minimum Delivered Temp.	Maximum Delivered Temp.	High Temp. Limit
EVC010	10	4.5"	10.25"	17.5"	19.5"	42 lbs	-	120°F 48.8 C	179.9°F 82.1 C	200°F 93.3 C
EVC015	15	4.5"	16.25"	23.5"	19.5"	46 lbs	-			
EVC020	20	4.5"	21.75"	29"	19.5"	50 lbs	-			
EVC030	30	5.75"	44.25"	42.25"	19.5"	89 lbs	98%			
EVC040	40	5.75"	56.5"	54.25"	19.5"	104 lbs	98%			
EVC050	50	5.75"	68.75"	66.75"	19.5"	118 lbs	98%			
EVC080	80	6.5"	60"	69"	23.25"	151 lbs	98%			
EVC100	100	7.25"	52"	61"	27"	206 lbs	98%			
EVC115	115	7.25"	60.25"	70.5"	27"	224 lbs	98%			

Product does not ship with Elements.
Element kits are sold separately.

ELEMENT ORDERING INFORMATION

Rated Voltage
A = 120
B = 208

Input Rating
(100's of Watts)
C = 240
D = 277

Element Construction
N = Stainless Steel Screw-In

Phase/Operation
X = Single Phase - Staged
W = Single Phase - Simultaneous

Number of Elements

C2X030N



Gallons	# of Elements	Available Wattage	Voltage (and Element Part #)				Phase
			120	208	240	277	
10	1	1,500	A1X015N	B1X015N	C1X015N	D1X015N	1
		2,000	A1X020N	B1X020N	C1X020N	D1X020N	
		2,500	A1X025N	B1X025N	C1X025N	D1X025N	
		3,000	A1X030N	B1X030N	C1X030N	D1X030N	
		-	-	B1X035N	C1X035N	D1X035N	
15	1	3,500	-	B1X035N	C1X035N	D1X035N	1
		4,000	-	B1X040N	C1X040N	D1X040N	
		4,500	-	B1X045N	C1X045N	D1X045N	
20	1	5,000	-	B1X050N	C1X050N	D1X050N	1
		6,000	-	B2W060N	C2W060N	D2W060N	
		7,000	-	B2W070N	C2W070N	D2W070N	
		8,000	-	B2W080N	C2W080N	D2W080N	
		9,000	-	B2W090N	C2W090N	D2W090N	
30	2	10,000	-	B2W100N	C2W100N	D2W100N	1
		11,000	-	B2W110N	C2W110N	D2W110N	
		12,000	-	-	C2W120N	D2W120N	
		-	-	-	-	-	
		-	-	-	-	-	

Gallons	Wattage	Recovery at 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
30/40/50/80/100/115	6,000	27	48/55/62/83/97/107.5
30/40/50/80/100/115	9,000	41	62/69/76/97/104/121.5
30/40/50/80/100/115	10,000	46	67/74/81/102/116/126.5
30/40/50/80/100/115	12,000	55	76/83/90/111/125/135

EVERLAST

RESIDENTIAL & LIGHT COMMERCIAL Stainless Steel Electric Water Heater



LIMITED LIFETIME RESIDENTIAL WARRANTY
LIMITED 10 YEAR 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

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

Stainless steel incoloy elements with low watt density reduces chances of element burn out and provides longer service life versus conventional elements

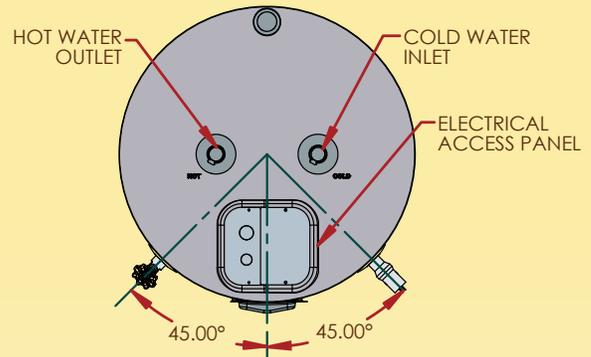
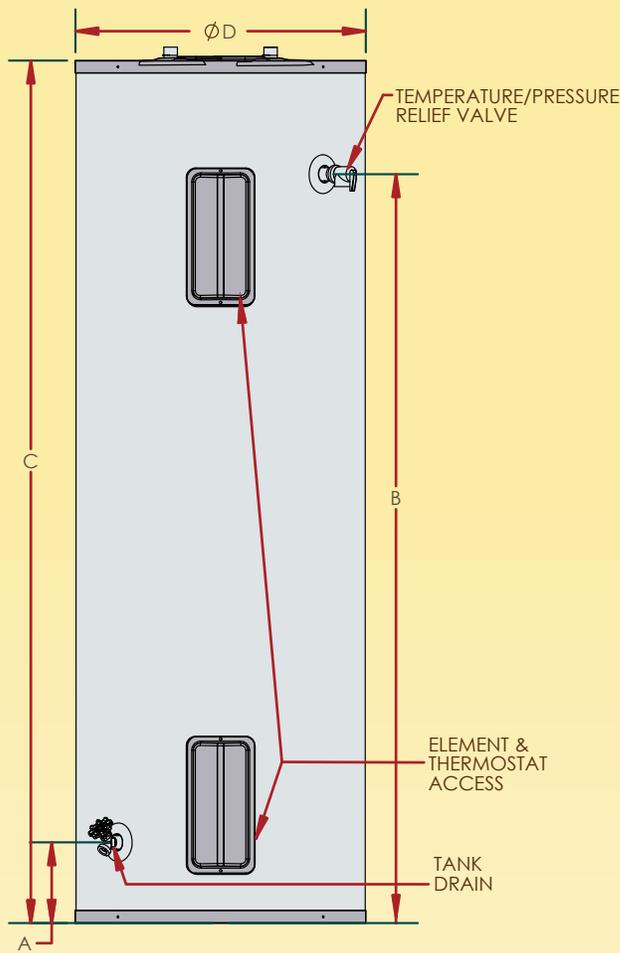
NO ANODE
RODS NEEDED
RESISTS
SCALE BUILD-UP
LIGHT-
WEIGHT



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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	Gal.	A	B	C	D	Minimum Delivered Temp.	Maximum Delivered Temp.	High Temp. Limit
EVR040C2X045	40	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	5.75"	58.25"	66.75"	19.5"	120°F 48.8°C	180°F 82.1°C	200°F 93.3°C
EVR052C2X055								
EVC080C2X045	80	6.5"	60"	69"	23.25"	120°F 48.8°C	180°F 82.1°C	200°F 93.3°C
EVC080C2X055								
EVC100C2X045	100	7.25"	52"	61"	27"	120°F 48.8°C	180°F 82.1°C	200°F 93.3°C
EVC100C2X055								
EVC115C2X045	115	7.25"	60.25	70.5"	27"	120°F 48.8°C	180°F 82.1°C	200°F 93.3°C
EVC115C2X055								

Residential Models	Wattage	Voltage	Safety Listing	First Hour Rating	Recovery @ 90° F Rise	Energy Factor	Shipping Weight
EVR040C2X045	4500	240	UL174	59 Gallons	20 Gallons	.95	104 lbs
EVR040C2X055	5500			64 Gallons	25 Gallons		
EVR052C2X045	4500	240		66 Gallons	20 Gallons	.94	118 lbs
EVR052C2X055	5500			71 Gallons	25 Gallons		
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		

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

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

INDIRECT DHW

Ultra Storage Tanks	Dimensions		Floor to Drain	Floor to Inlet	Floor to Outlet	Weight (LBS)	Water Connection Sizes
	Height	Diameter					
SSU-30CB	39.5"	19.25"	4.5"	4.5"	33.75"	40	.75" NPT
SSU-45CB	52.5"	19.25"	4.5"	4.5"	45.75"	64	.75" NPT
SSU-60CB	52.5"	23.25"	4.5"	4.5"	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 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

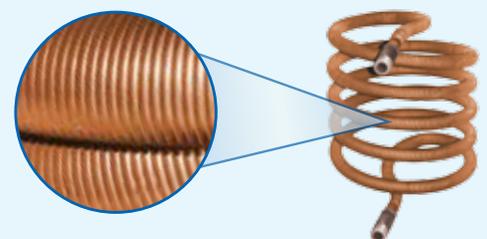
Commercial Indirect with 2 Heat Exchangers

Solar options available

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

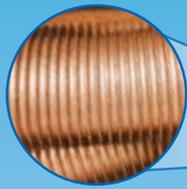


Finned Cupronickel Heat Exchanger Provides Maximum Efficiency - 11 Fins per inch

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

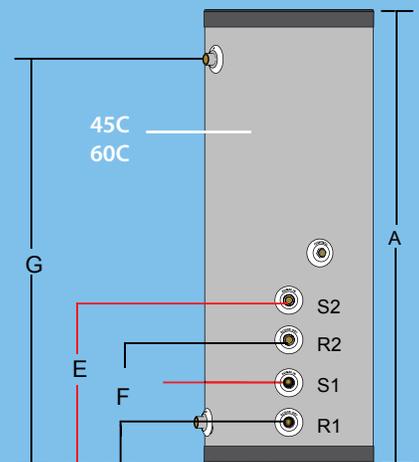
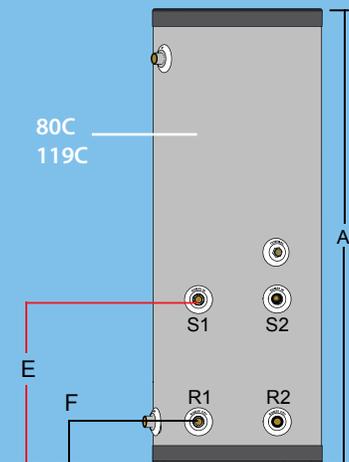
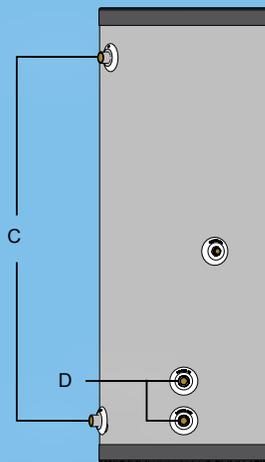
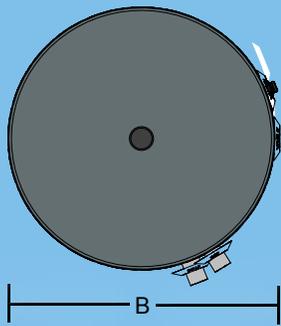
- Aquastat Control
- Thermostatic Mixing Valve
- Bronze Pump

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	126 LBS
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	175 LBS
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	242 LBS

SUPERstor PRO

All Stainless Steel • Indirect Water Heater



INDIRECT
DHW

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, heat the entire tank in 10-15 minutes (with appropriate sized boiler)

Low Energy Costs

When used in conjunction with a 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

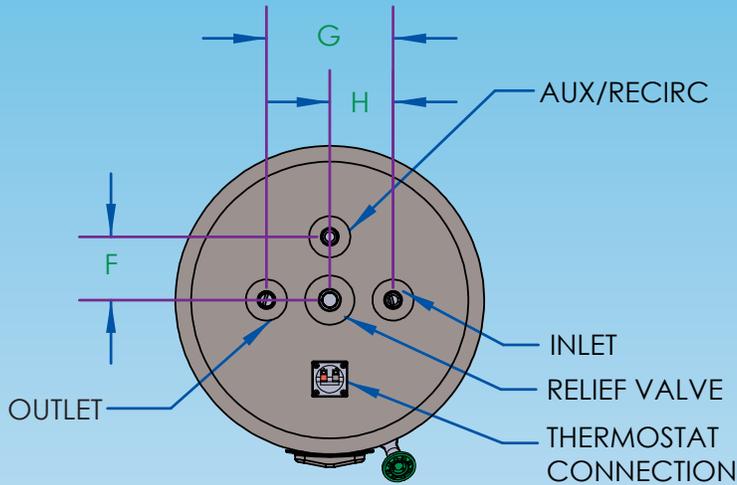
SuperStor # 1 Brand

HTP sells more indirects than anyone else in the country!

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.	95,700	8 GPM	1.7 Ft	95 lbs
SSP-40				257 Gal.	122,265	10 GPM	2.3 Ft	111 lbs
SSP-50				287 Gal.	148,830	10 GPM	2.3 Ft	127 lbs
SSP-60				303 Gal.	155,230	10 GPM	2.3 Ft	140 lbs
SSP-80	18 Sq. Ft.			347 Gal.	192,000	12 GPM	3 Ft	157.5 lbs
SSP-100				387 Gal.	194,000	14 GPM	3.75 Ft	231 lbs

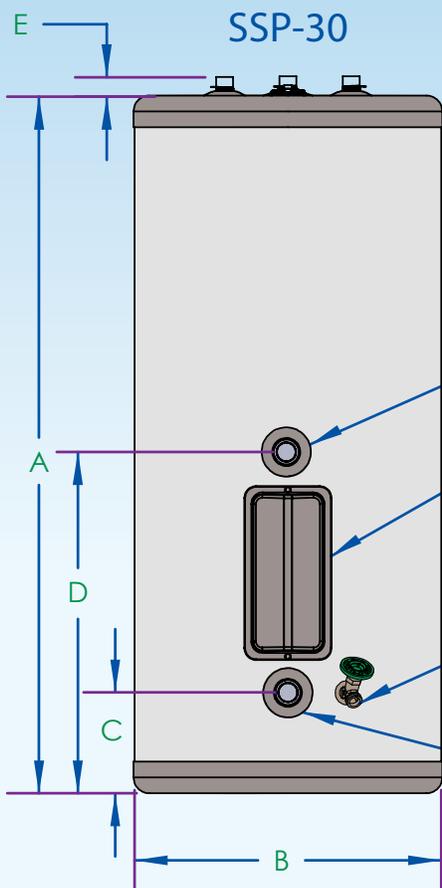
DOE test method based on 90°F temperature rise, 50°F/140°F w/boiler water at 180°F note: tank recovery from cold start will be between 10-13 minutes when sized with correct flow rate, boiler size and pressure drop ratings from list in above chart. Continuous flow rating calculation: first hour rating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

Model	A	B	C	D	E	F	G	H	Tank Size	Domestic Ports	Aux Port	Boiler In/Out
SSP-30	44"	19-3/8"	6-3/8"	21-1/2"	1-3/8"	4"	8"	4"	30 Gal.	3/4" MNPT	3/4" MNPT	1" FNPT
SSP-40	56-1/2"								40 Gal.			
SSP-50	68-3/4"								50 Gal.			
SSP-60	54-5/8"	23-1/2"							60 Gal.	1" MNPT		
SSP-80	71"								80 Gal.			
SSP-100	64-7/8"	27-1/2"	8-5/8"	20-3/4"	2"				100 Gal.	1 1/2" MNPT	1" MNPT	

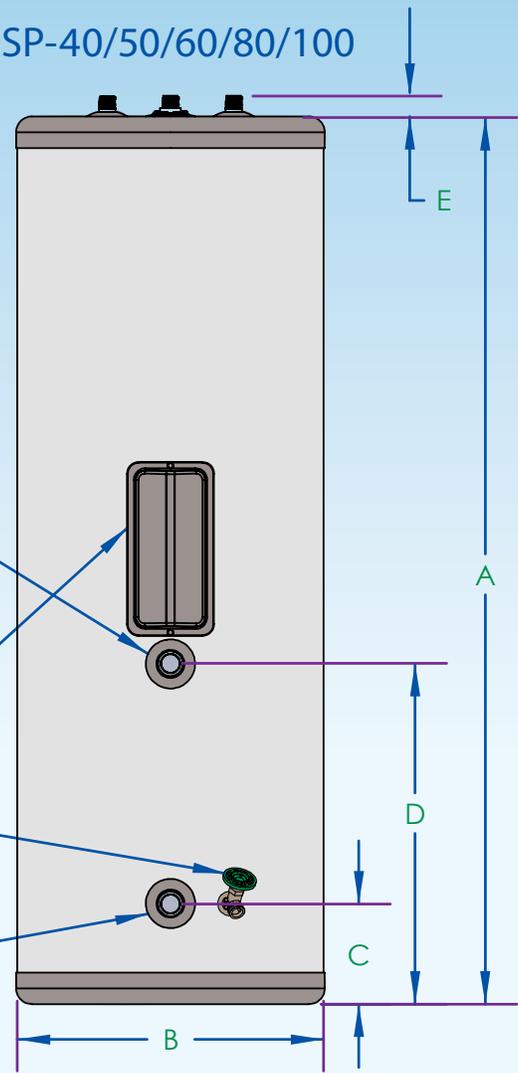


10 Year Limited Warranty

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



SSP-40/50/60/80/100



SUPERstor **CONTENDER**

WITH FLOW COAT TECHNOLOGY

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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

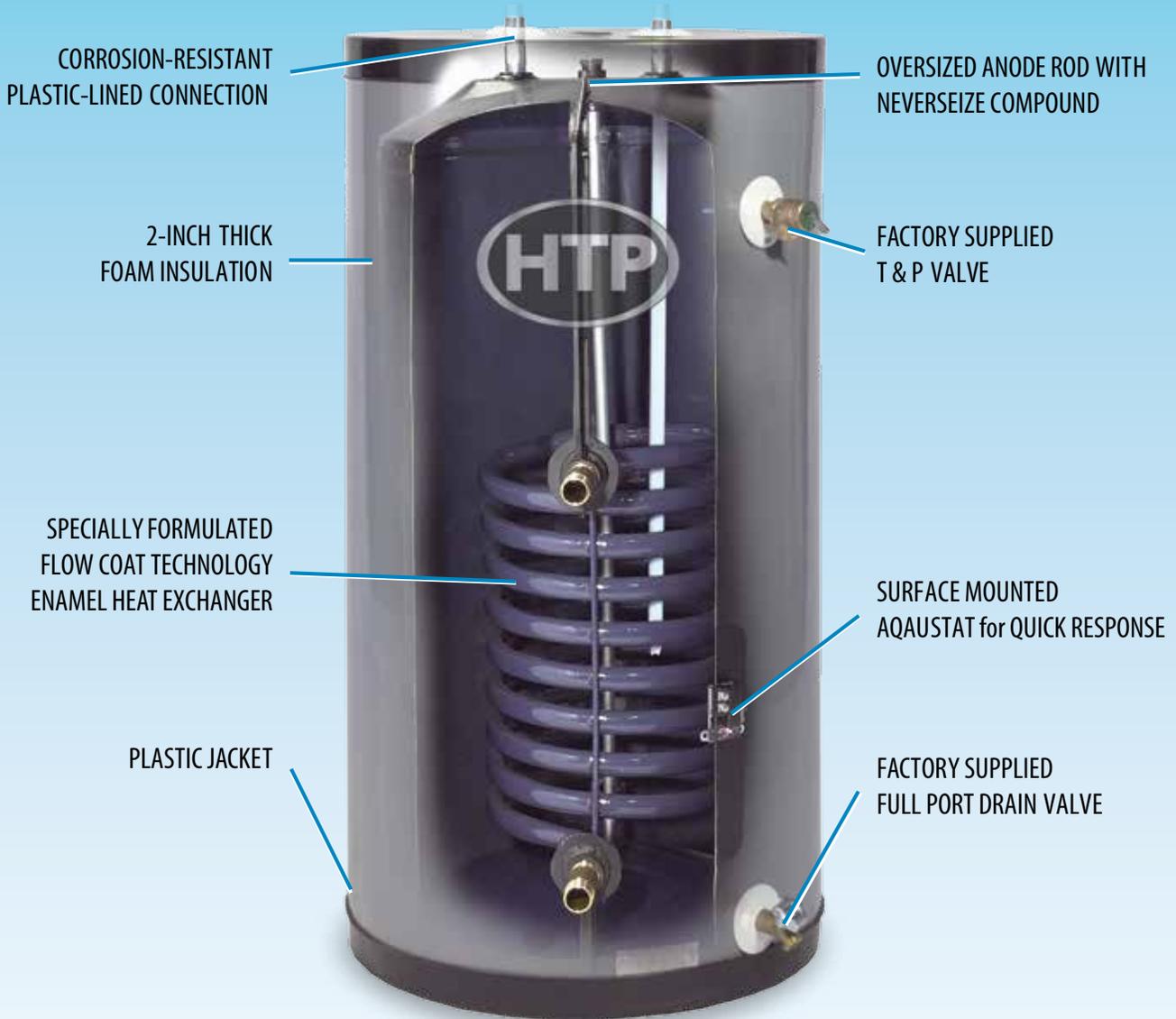
Slush coat glass lined, not sprayed

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.

Hydra Smart RT Model

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 0.98 ENERGY FACTOR

High altitude compliant



Available in liquid propane & natural gas

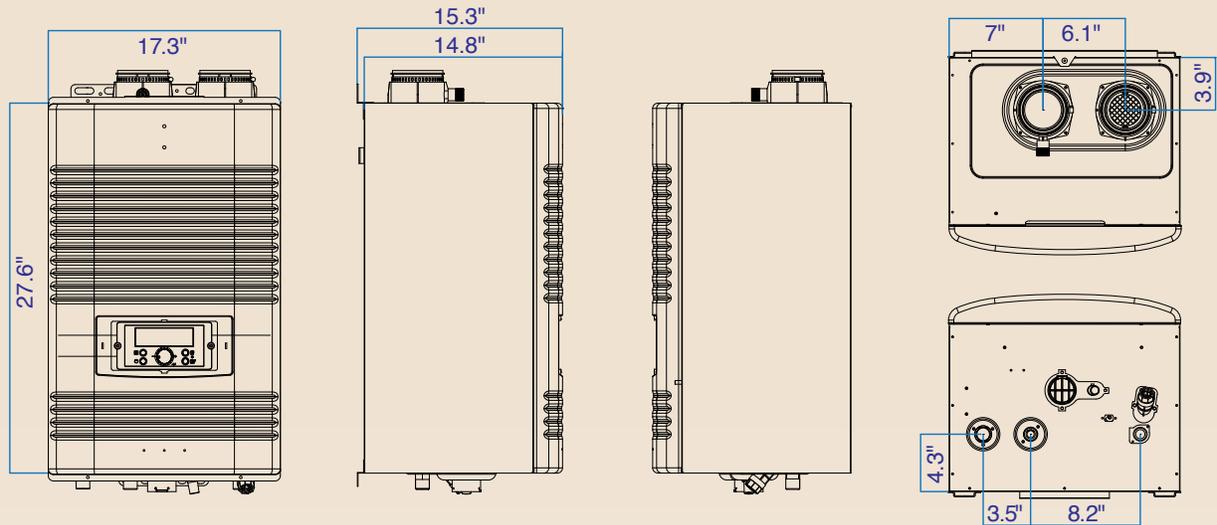
Highly innovative gas leak detector

Eco-friendly & low NOx combustion system



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DIMENSIONS



SPECIFICATIONS

MODEL		RT-199	
Gas Input Rate	Max	199,000 Btuh	
	Min	19,900 Btuh	
Energy Factor (recovery/thermal efficiency)		.98	
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	
	Supply Temp. Rating	95°F up to 140°F	
Installation		Indoor Wall Hung	
Flue System		Sealed Combustion Direct Vent	
Vent		2" (15 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 (3")	NG	3.5" WC ~ 14" WC	
	LP	3.5" WC ~ 14" WC	
Manifold Pressure (3")	Min	NG: -0.01" WC	LP: -0.11" WC
	Max	NG: -0.05" 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 Gallon	
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, Gas Leak Detector, Flue High Limit Switch 149°F, Water Temperature High Limit Switch 199°F, Freeze Protection Ceramic Heater (Turns on at 41°F, Turns off at 59°F)	

12 Year Residential & 5 Year Commercial Limited Warranty



Hydra Smart RTC Model

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

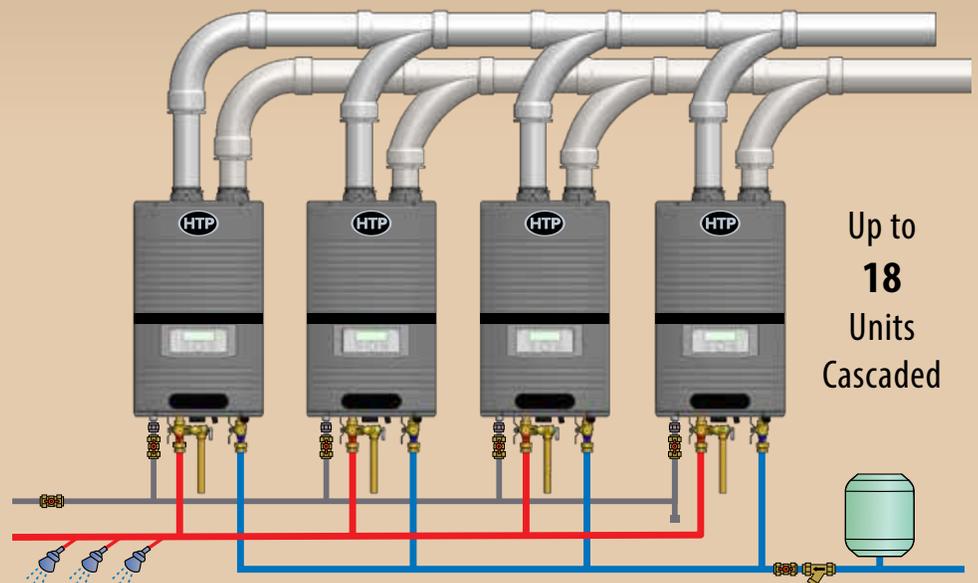
Equipped with highly innovative
gas leak detector

Eco-friendly and low
NOx combustion system

High altitude compliant:
up to 10,000 ft. above sea level

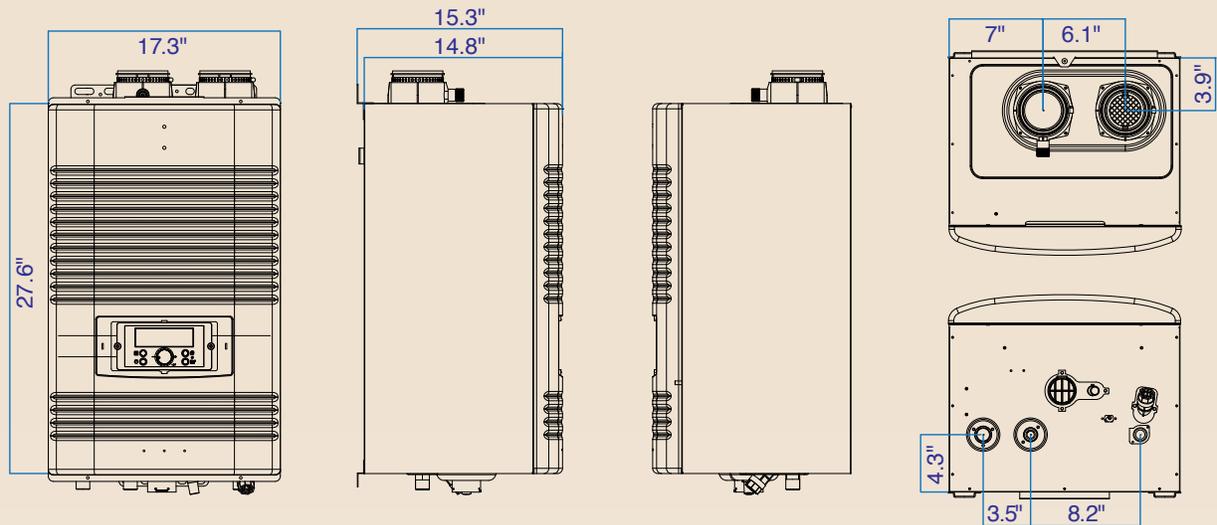
up to 0.98 ENERGY FACTOR

Commercial Applications



Up to
18
Units
Cascaded

DIMENSIONS



SPECIFICATIONS

MODEL		RTC-199	
Gas Input Rate	Max	199,000 Btuh	
	Min	19,900 Btuh	
Energy Factor (recovery/thermal efficiency)		.98	
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	
	Supply Temp. Rating	95°F up to 182°F	
Installation		Indoor Wall Hung	
Flue System		Sealed Combustion Direct Vent	
Vent		2" (15 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 (3")	NG	3.5" WC ~ 14" WC	
	LP	3.5" WC ~ 14" WC	
Manifold Pressure (3")	Min	NG: -0.01"WC	LP: -0.11"WC
	Max	NG: -0.05"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 Gallon	
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, Gas Leak Detector, Flue High Limit Switch 149°F, Water Temperature High Limit Switch 199°F, Freeze Protection Ceramic Heater (Turns on at 41°F, Turns off at 59°F)	

12 Year Residential & 5 Year Commercial Limited Warranty



LARGE VOLUME TANKS

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**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 coat 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"/27"	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.



Easy Flex PolyPro Vent System



1. Chimney Cap with Stainless Steel Pipe
2. Flex Coupling
3. Sealing Ring (Gasket)
4. Flexible Tube
5. Polypropylene 90° Elbow
6. 90° Elbow Support
7. Polypropylene to PVC Transition Fitting
8. Wall Cover Plate

- Flexible vent constructed of Polypropylene material provides excellent resistance to flue gas condensation in the exhaust vent of a gas fired condensing heating appliance

- Vent system is constructed from flame retardant plastic (Polypropylene rated for maximum temperature of 230F/110C)

- Light weight construction, easy to install

- Certified ULC636 venting system

- Protects chimney or B vent system from harmful corrosion from a condensing heating appliance

- Flexible Pipe: 45 degree maximum bending radius in vertical system allows installers installation flexibility to line virtually any chimney

- Installation kit provides all the parts needed to connect the flexible Polypropylene to the PVC exhaust vent from the HTP appliance

- Standard roll of the Flex vent system available in either 32 feet or 49 feet

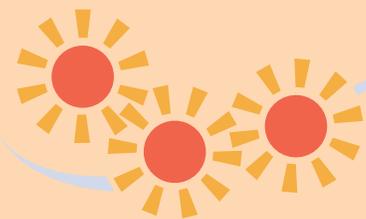
- Double wall construction

- Smooth inner wall so condensation drains

- Competitively priced versus transitional stainless steel vent system

- Vertical vent installation avoids many of the installation pitfalls associated with horizontal vent system installation:

- 1) Proper pitch for condensate drainage
- 2) Exterior exhaust plume
- 3) Snow drifting
- 4) Freezing vents



Solar Stainless Steel Water Heater with Gas Fired Back-Up

Solarskies 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

*SNHX (Solar No Heat Exchanger) Versions Available

- 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

- Up to 96% Thermal efficiency
- 5 to 1 turndown ratio
- Robust 316L stainless steel tank eliminates the need for anode rods
- 7 year limited warranty



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



- The modulating burner operates at 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
- 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

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

*SNHX (Solar No Heat Exchanger) Versions Available



Drain Back Tank

- Virtually maintenance free operation
- Highly efficient cupronickel heat exchanger & a robust **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.



Flat Plate Collectors



Flat Plate Collectors	
SS-40-FP-U	4' X 10' Flat plate collector / 120 4x10s collectors on a 53' trailer
SS-32-FP-U	4' X 8' Flat plate collector / 144 4x8s on a 53' trailer
SS-26-FP-U	4' X 6.5' Flat plate collector / 168 4x6.5s on a 53' trailer
Mounting Hardware for Flat Plate Panels	
FP-SM	Standard mount set per panel (often used with rear leg 1"x1" strut)
FP-FM	Flush mount set per panel
FP-RM	Rack mount set per panel
FP-ST	Rear leg strut 1" X 1" square tube per foot (use with standard mount kit)

Collector Thermal Performance Rating

SS-40-FP-U			
Thousands of Btus per panel per day			
Weather-Category (Ti-Ta)*	Clear Day 2000 Btu/ft ² -d	Mildly Cloudy 1500 Btu/ft ² -d	Cloudy Day 1000 Btu/ft ² -d
A (-9°F)	46.1	34.8	23.5
B (9°F)	44.0	32.7	21.4
C (36°F)	40.6	29.3	18.0
D (90°F)	34.2	23.0	11.8
E (144°F)	27.1	16.8	6.2

Metric (SI) Units / English (Inch-Pound Units) - Information on Models: FP-26-FP-U & FP-FP-U is available on our website: www.htpproducts.com

30 Evacuated Tube Collectors



Collector Thermal Performance Rating

Thousands of BtuH Per Panel Per Day			
Weather-Category (Ti-Ta)*	Clear Day 2000 Btu/ft ² -d	Mildly Cloudy 1500 Btu/ft ² -d	Cloudy Day 1000 Btu/ft ² -d
A (-9°F)	46.1	34.8	23.5
B (9°F)	44.0	32.7	21.4
C (36°F)	40.6	29.3	18.0
D (90°F)	34.2	23.0	11.8
E (144°F)	27.1	16.8	6.2



Tube collector		
HP-30SC	30 Evacuated Tube Solar Collector w/ Mounting Hardware	101" x 79"

A-Pool Heating (Warm Climate) B-Pool Heating (Cool Climate)
C-Water Heating (Warm Climate) D-Water Heating (Cool Climate)
E-Air Conditioning

*Ti = Inlet temperature to the collector

*Ta = The ambient air temperature

(For the methodology of this thermal performance rating see www.solar-rating.org/standards/ogdocuments/RM-1_2002.PDF)

Solar Stainless Steel Indirects

Best Warranty!

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.

SE tanks with electric backup				
Model	GAL.	Height/Diameter	Freight Weight	1st Draw 65° Rise
SSU-60SE	60	52.5"/23.25"	115 lbs	40 Gal.
SSU-80SE	80	72"/23.25"	146 lbs	60 Gal.
SSU-119SE	119	74"/27"	215 lbs	90 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 gallons)
- 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



HTP Pool Heater SSU-20PH

A limited Lifetime Protection Plan gives users peace of mind that their investment is backed by the industry's strongest warranty, the SolarSkies 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)



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



HTP, Inc. was established 1974 by Mr. Raymond D. 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 the company makes a wide assortment of heating products and system components, it is best-known for its best selling, SuperStor indirect-fired, stainless steel 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 with introducing 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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