



Advanced Heating
& Hot Water Systems

THE Versa Series

Highly Efficient, Combination,
Domestic Hot Water and
Space Heating Appliances



Up To
96%
Efficient



Intertek



VERSA-HYDRO

VERSA-FLAME

Save Energy, Save Money, Save Space and Save On Installation

Combination Heaters

Combination Heaters, are very popular today because they can save space and money. A Combination heater is a compact and efficient unit that provides all the space heating (such as in-floor radiant heating, baseboard heating and fan assistance air handler heating), and all the domestic hot water a home needs while saving on operating and installation costs. Why install a boiler, water heater, and buffer tank, when you can install just one combination unit and save on installation, space and money.

The Versa Series: Combination Appliances from HTP represents the latest innovations in heating technology. These modulating condensing gas appliances operates at efficiency rates up to 96%, contributing not only to the environment's well-being, but to the consumer's as well. The all-in-one design of the Versa Series appliances results in considerable space and cost savings, setting a new standard for environmental responsibility, energy conservation, and consumer convenience.

THE
**Versa
Hydro**



The Versa-Hydro is the choice for installations that call for plentiful domestic hot water over space heating needs. With ample domestic hot water storage (available in 55, 80 & 119 gallon sizes) the Versa-Hydro delivers massive amounts of water, reaching up to 335 gallons during the first hour rating @ 100°F rise. The space heating module (up to 135,000 Btuh with a max temp of 160°F) creates heat from the brazed plate heat exchanger, drawing energy from the stored heat in the tank to efficiently heat the home.

THE
**Versa
Flame**

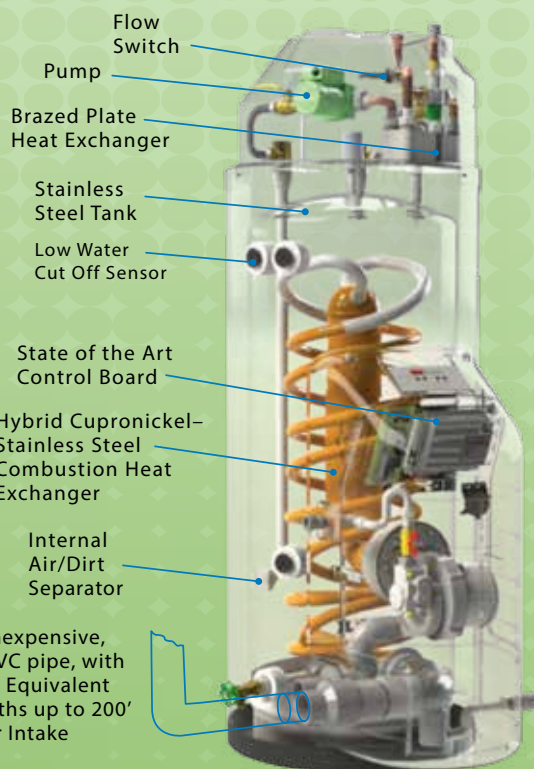


The Versa-Flame is the choice for installations that prioritize space heating, delivering as much as 199,000 Btuh (up to 180°F). The low pressure drop of the Versa-Flame heat exchanger reduces cycling. 55 gallons of hydronic mass allows the Versa-Flame to seamlessly replace traditional high mass boilers. The tankless water heater draws energy stored in the tank boosting domestic hot water production. The Versa-Flame delivers up to 4.8 GPM of endless hot water with a first hour rating of 300 gallons @ a 77°F rise.

THE
**Versa
Flame**

A CLOSER
LOOK

at HTP's
Advanced
Hydronic
Heating
Appliance



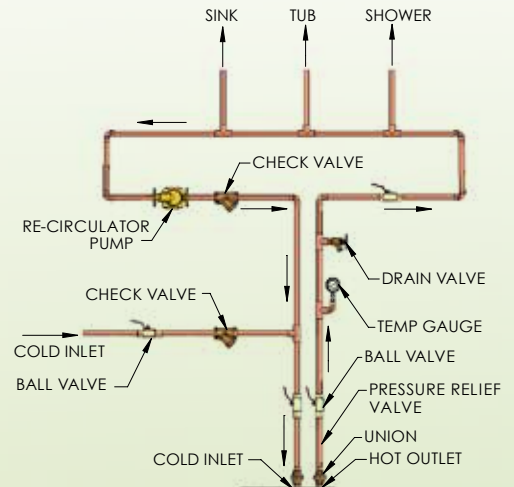
**High Efficiency Heat
& Endless Hot Water**



Versa-Flame

Endless Hot Water:

- First Hour Rating (GPH): up to 300 GPH @ a 77° Rise
- At a 77 °F rise, deliver domestic hot water instantaneously up to 4.8 gallons per minute to multiple outlets
- Low maintenance design
- Fills a tub faster than any tankless appliance



**VERS-FLAME
RE-CIRCULATING
LINE**

Versa-Flame VS Competition

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

Versa-Flame Model	Tank Size	Btu / Input Range	Shipping Weight	Gal. per minute @ 77° rise	1st Hour Rating @ 77° Rise	Height/ Diameter
PHR-130-55C	55 gal.	35,000-130,000	310 lbs.	3.2	210 GPH	64.5"/ 23"
PHR-160-55C	55 gal.	40,000-160,000	310 lbs.	3.85	250 GPH	64.5"/ 23"
PHR-199-55C	55 gal.	40,000-199,000	310 lbs.	4.8	300 GPH	64.5"/ 23"

High Efficiency, High Mass Space Heating:

- Modulation provides up to 5 : 1 turndown ratio
- Thermal mass in the 55 Gallon stainless steel tank provides a buffer against cycling during low load conditions
- Single loop installation: The heat exchanger, constantly surrounded by water, is protected against "flashing" due to low flow conditions
- Up to 96% thermal efficiency
- Retro Fit: Ample thermal mass, minimizing the change to piping, no secondary piping needed
- Room air intake, PVC and CPVC venting with combined vent lengths up to 200' in 3" pipe
- 12 year limited Warranty



Versa-Flame Applications: • Radiant floor • Fan coil • Baseboard • Combined heating & DHW • Snow Melt • Buffer tank • Retro fit




Comparison

THE Versa Series



Which Combi?	
Versa-Flame	Versa-Hydro
Space Heating: up to 180°	Space Heating: up to 160°
1st Hr. Rating @ 77° Rise up to 300 gal.	1st Hr. Rating @ 100° Rise up to 335 gal.



Product	Versa-Flame 	Versa-Hydro 
Summary	Endless hot water and space heating with high volume of thermal mass and the ability to deliver a large volume of domestic hot water: up to 4.8 gal per minute @ 77° rise and space heating: up to 180°F	High efficiency water heater with a space heating component, providing a large dump load capability for domestic hot water, with a 1st hr. rating at a 100° rise up to 335 gal. and space heating up to 130,000 Btuh at 160°F
Efficiency	Up to 96% Thermal Efficiency	Up to 96% Thermal Efficiency
Turndown Ratio	Up to 5:1 Turndown	Up to 5:1 Turndown
Range	Available in a 55 gallon size with 3 Btu outputs: 130,000 Btuh, 160,000 Btuh, and 199,000 Btuh	Available in 55, 80 & 119 gallons sizes with 2 Btu outputs options: 130,000 Btuh and 199,000 Btuh
Serviceability	Removable top cover for access to domestic hot water pack with removable front cover for access to combustion system and control board	2 removable front covers provide access to the space heat pack and the control board and combustion system
Design	The Versa-Flame combines your space heating, domestic hot water and a built in buffer tank into the same size footprint as a hot water tank	The Versa-Hydro fits the equivalent of a 135,000 Btuh boiler, an indirect water heater, and a buffer tank into one small footprint
Construction	Hybrid stainless steel / cupronickel heat exchanger - Stainless steel tank - Closed loop heating system	
Venting	Room air intake, PVC, CPVC Pipe, Direct vent, Flexible Polypro Pipe (HTP Approved), Concentric	
Control Features	3-digit control display; capable of cascading up to 8 heaters; includes outdoors reset capability	Two-line 20-character LCD control panel; includes outdoor reset capability - TOTAL SYSTEM CONTROL 
Tax Credit Eligibility	May be applicable for Federal, State and/or local rebates	
Warranty	12 year limited residential use warranty	12 year limited residential use warranty

Versa-Hydro

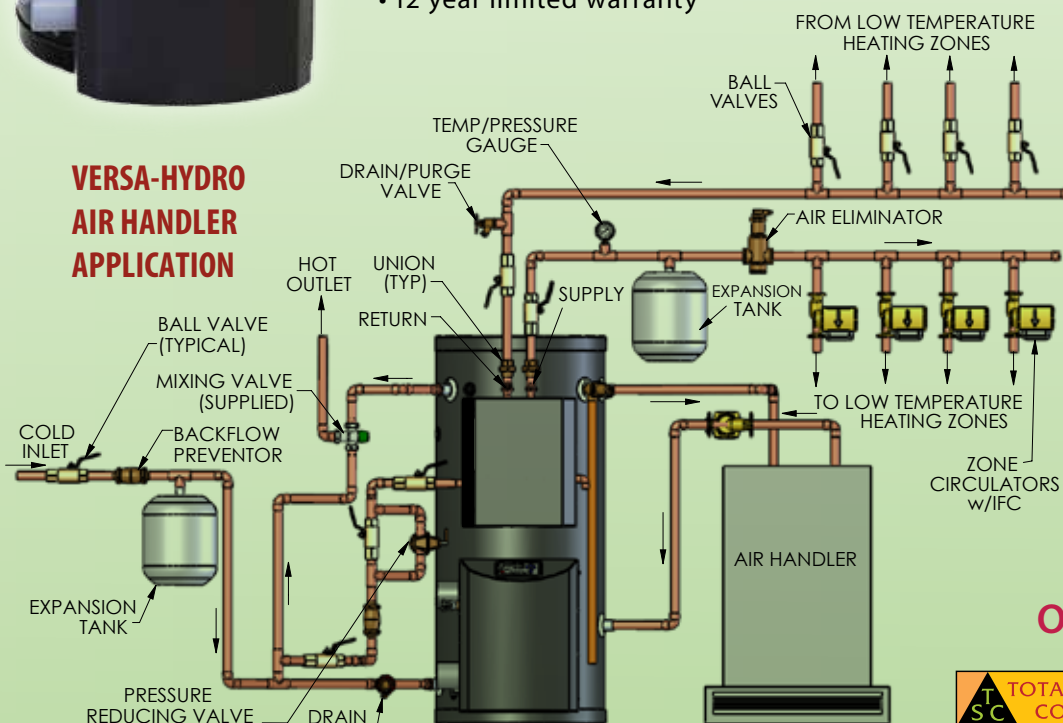
Space Heating & Domestic Hot Water Combined



Versa-Hydro Model	GAL.	Btuh	SPACE HEATING MODULE Btuh	MAX. SPACE HEATER TEMP.	1st Hr. Rating@ 100° F. Rise	Recovery @ 100° F. Rise
PHE130-55 / PHE199-55	55	130,000	100,000	160°	205 gal.	148 GPH
		199,000	135,000		295 gal.	229 GPH
PHE130-80 / PHE199-80	80	130,000	100,000	160°	227 gal.	150 GPH
		199,000	135,000		314 gal.	229 GPH
PHE130-119 / PHE199-119	119	130,000	100,000	160°	257 gal.	152 GPH
		199,000	135,000		335 gal.	230 GPH

- Modulating DHW burner operates up to **5:1 turndown** ratio, the space heating module operates at a **10:1 turndown** ratio
- **Ultra high 96% thermal efficiency**
- An extremely durable cupronickel and stainless steel heat exchanger boasts excellent heat transfer properties and resists corrosion
- **Incredible system flexibility: Built-in auxiliary taps provide connection to air handlers or storage tanks**
- 12 year limited warranty
- *Saves space and installation time by combining the equivalent of a 135,000 Btuh boiler, an indirect water heater, and a buffer tank into one small footprint*
- The tank has minimal heat loss, due to thick, water blown, foam insulation
- *Virtually maintenance free operation*
- 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

VERSA-HYDRO AIR HANDLER APPLICATION



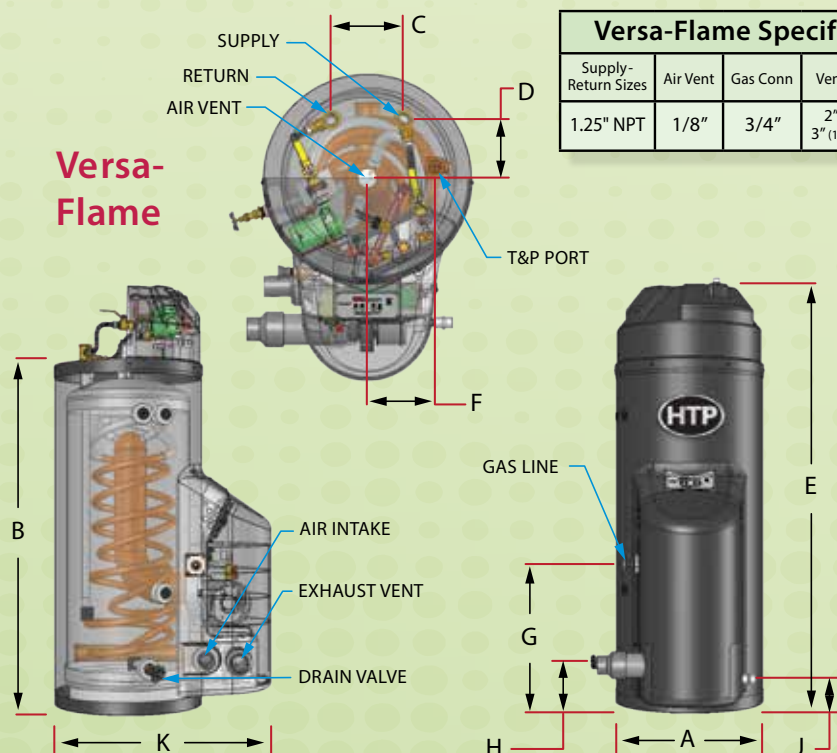
Solar Option



Versa-Hydro Applications: • Radiant floor • Fan coil • Baseboard (160°) • Combined heating & DHW • Solar version • Co-gen. heat recovery • Retro fit • Buffer tank

Specifications

Versa-Flame



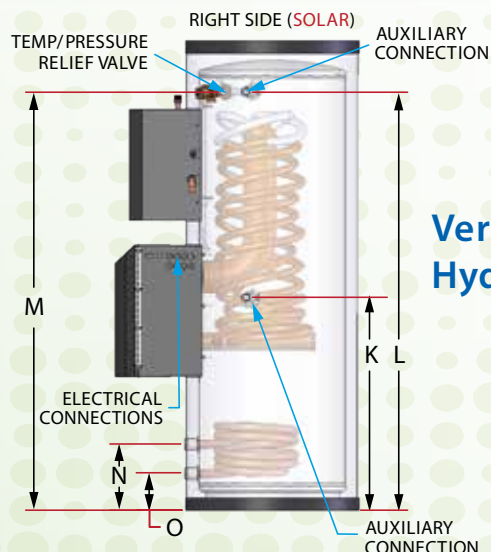
Versa-Flame Specifications

Supply-Return Sizes	Air Vent	Gas Conn	Vent Size	Shipping Weight
1.25" NPT	1/8"	3/4"	2" (130) 3" (160, 199)	310 lbs

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-Hydro

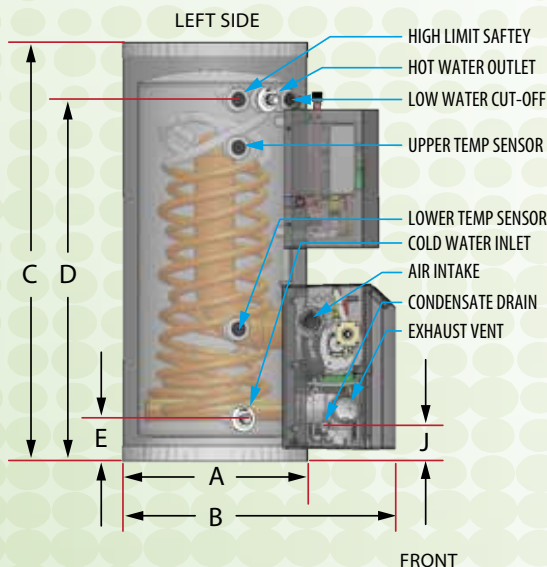


VERSA-HYDRO WATER HEATER SPECIFICATIONS

MODEL #*	Btuh	SPACE HEATING MODULE Btuh	AIR INTAKE/ EXHAUST VENT SIZE	WATER INLET/ OUTLET SIZE	AUX. CONN.	GAS LINE CONN.	SYSTEM RELIEF PIPE SIZE	SHIPPING WEIGHT
PHE130-55 / PHE199-55	130,000	100,000	2"	1" NPT	1"	3/4"	3/4"	205 lbs
	199,000	135,000	3"					
PHE130-80 / PHE199-80	130,000	100,000	2"	1" NPT	1"	3/4"	3/4"	265 lbs
	199,000	135,000	3"					
PHE130-119 / PHE199-119	130,000	100,000	2"	1" NPT	1"	3/4"	3/4"	435 lbs
	199,000	135,000	3"					

VERSA-HYDRO SOLAR WATER HEATER SPECIFICATIONS

MODEL #*	Btuh	SPACE HEATING MODULE Btuh	AIR INTAKE/ EXHAUST VENT SIZE	WATER INLET/ OUTLET SIZE	AUX. CONN.	GAS LINE CONN.	SYSTEM RELIEF PIPE SIZE	SHIPPING WEIGHT
PHE130-80S / PHE199-80S	130,000	100,000	2"	1" NPT	1"	3/4"	3/4"	245 lbs
	199,000	135,000	3"					
PHE130-119S / PHE199-119S	130,000	100,000	2"	1" NPT	1"	3/4"	3/4"	415 lbs
	199,000	135,000	3"					



VERSA-HYDRO WATER HEATER DIMENSIONS

MODEL #*	GALLONS	A	B	C	D	E	F	G	H	J	K	L	M
PHE130-55 / PHE199-55	55	23"	34"	53"	45"	5"	17½"	6½"	16"	4"	13"	45"	45"
PHE130-80 / PHE199-80	80	23"	34"	72"	64½"	5½"	19½"	8½"	18"	6½"	13"	64½"	64½"
PHE130-119 / PHE199-119	119	27"	37"	74"	66"	7¼"	20½"	9½"	19"	7½"	14½"	66"	66"

VERSA-HYDRO SOLAR WATER HEATER DIMENSIONS

MODEL #*	GALLONS	A	B	C	D	E	F	G	H	J	K	L	M	N	O
PHE130-80S / PHE199-80S*	80	23"	34"	72"	65"	5¾"	37½"	27"	36"	24"	48¾"	64½"	64¾"	9¾"	5¼"
PHE130-119S / PHE199-119S*	119	27"	38¼"	74"	66"	7¼"	38¼"	27¼"	36¾"	24"	49¼"	64½"	66¼"	11½"	7"

*NHX (No Heat Exchanger) Version of the Versa-Hydro is available.

* 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.

