

PVI Industries

Commercial Water Heaters and Hot Water Storage Tanks



Product Line Catalog

PVI.com



About PVI

Since 1961, PVI Industries has manufactured highly reliable, medium to large ASME water heaters for commercial, institutional and industrial installations including schools, dormitories, hotels, restaurants, hospitals, apartments, correctional facilities and military barracks. With more than 130,000 installations worldwide, PVI has become one of the leading suppliers of engineer-specified plumbing and heating equipment for new construction and building retrofits.

Wide Product Range for Many Energy Sources

PVI heaters can be configured for any common energy source including natural or LP gas, oil, boiler water, solar, steam, electricity and waste heat. Water heaters range from instantaneous (on demand water heating) to storage type heaters with pressure vessels from 150 to 3000 gallons. Many products are “engineered-to-order” to exactly match the requirements of the application. Water heaters and storage tanks are manufactured from AquaPLEX® duplex stainless steel combining innovative duplex alloy material with advanced design and fabrication technology to produce heaters that are impervious to corrosion in potable hot water and require no tank lining or anode rod protection.

Built to Last with Industry-Best Warranty

PVI water heaters are backed by the industry’s strongest warranty and service policy package. Products include no-cost first-year service policies, extended service policies, multi-year heat exchanger warranties, and 15- or 25-year tank and heat exchanger corrosion warranties.



AquaPLEX Advanced Technology



The AquaPLEX Advantage

Corrosion is the leading cause of premature water heater failure — and AquaPLEX eliminates it at the source. By combining a duplex stainless steel alloy with advanced vessel design and fabrication techniques, AquaPLEX delivers exceptional strength and long-term resilience.

Our engineered blend of austenitic and ferritic stainless steels provides superior resistance to aqueous corrosion and chloride stress corrosion cracking, outperforming 316L and 304L in demanding potable water environments. Because AquaPLEX maintains its integrity in all water conditions and at any operating temperature, it requires no glass linings, coatings, or anode rods, removing non-permanent protections and the maintenance that comes with them.

AquaPLEX Benefits

Requires No Linings

Fully pickle-passivated duplex stainless steel naturally resists aqueous corrosion — no linings or extra protection required.

Eliminates Anode Maintenance

Operate without anode rods or impressed current systems, reducing service time and ongoing maintenance costs.

Provides Superior Corrosion Protection

Outperforms 316L and 304L stainless steel in potable water thanks to its higher resistance to chloride stress corrosion cracking.

Stores High-Temperature Water

Handles water above 200°F, year after year, without degradation or performance loss.

A Proven Solution for Renewable Storage

Delivers the durability required for long-term thermal storage where tank integrity is critical, such as in solar or heat pump applications.

Dynamic Water Heating for a Right-Sized System

With today's shift in water heating systems towards lower flow fixtures, higher system temperatures and increased input-to-storage ratios, PVI's Dynamic Water Heating combines the advantages of both instantaneous and storage water heaters to deliver a "right-sized" system that provides:



Lower Operational Costs

By utilizing BTU input to generate hot water, PVI dynamic water heaters rely on storage only as a supplemental hot water source, which results in lower standby heat losses. Unlike instantaneous water tube heaters, which can require multiple units to meet over-drive demands, Dynamic water heaters can meet such requirements with a single unit by increasing the flow rate to 25 gpm for short periods.



Longer Service Life

PVI dynamic water heaters are constructed from AquaPLEX duplex stainless steel alloy, which is highly resistant to corrosion and requires no tank lining or anodes. While glass-lined tanks are prone to cracking and premature failure, Dynamic water heaters' AquaPLEX construction helps ensure your system and equipment last longer.



Compact Footprint

Dynamic water heaters are small enough to fit through standard a 36-inch doorway, making them ideal for retrofit and new construction projects. Small storage tanks ranging from 25 to 200-gallons also help to buffer against demand spikes. Installation is easier than traditional storage water heaters and the units occupy less floor space. Dynamic water heaters are available from 199 to 2000 MBH.



Legionella Mitigation

Our water heaters help mitigate Legionella risks in domestic hot water by providing a 140°F setpoint to neutralize harmful bacteria. All stored water is turned over four times an hour to replenish fresh water and continuously introduce water with free chlorine for disinfection. Dynamic water heaters have less internal surface area to water volume than tube water instantaneous heaters, which helps to preserve free chlorine for additional Legionella protection.



Superior Temperature Control

Dynamic water heaters control outlet water temperature within a narrow range due to the buffering effect of available stored water. Moderate modulation of 4-to-1 and higher provides additional temperature control by adjusting the burner's BTU input in relation to the hot water temperature. No minimum flow rate is required, ensuring hot water is always available.



OptiSize®

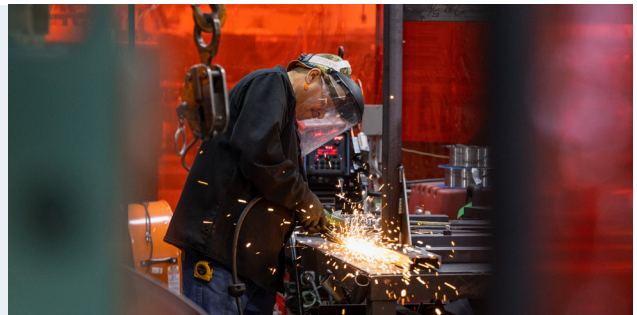
OptiSize will help you quickly calculate the size of your next project to give you the optimal ratio of BTU input to storage. pvi.com/optisize

Customized and Configurable Solutions



No One Size Fits All

Many of PVI's products are configurable to match most project-specific needs, from small to large applications of water heaters and storage tanks.



Engineered to Order

Exactly match the industry or job-specific requirements of the application with our water heaters and storage tanks engineered to order.



With You All the Way

PVI's reps, production team, and product managers work with you every step to deliver a custom, configurable solution that meets your needs.



Learn more through your local sales representative:

pvi.com/buyPVI

Conquest® 100

Condensing Gas Water Heater

Conquest is a compact, condensing, semi-instantaneous, firetube water heater that combines an advanced fuel-saving design with extended product life. It features a submerged combustion chamber and a heat exchanger with a dimpled array of firetubes fabricated entirely from durable, corrosion-resistant AquaPLEX® duplex stainless steel alloy. Built from the best material, Conquest provides superior payback with 3-5 times the warranty of competitors.

Features and Benefits

- 199, 250, 300 MBH
- AquaPLEX storage tank (94.7 or 98.2 gallons)
- 97% thermal efficiency from 40°F to 140°F
- 95% thermal efficiency from 70°F to 140°F
- Seamless modulation reduces cycling and improves efficiency up to 99% during low load
- Small footprint (28" x 75 3/4")
- Direct vent design with 4-inch air and vent connections; capable of venting with PVC, CPVC, and Polypropylene
- Less than 20 ppm NOx
- Touch-screen operating control with plain text status and fault diagnostics
- 15-year tank and heat exchanger warranty (8 years full, 7 years prorated)



Specifications

Model	Input Btuh	Recovery GPH (thermal efficiency)		Gas Connection NPT	Vent Diameter (ETL listed for longervents with larger diameter)	Operating Weight (lbs.)	Volume (gal)
		70°F to 140°F ①	40°F to 140°F ②				
20 L 100A-GCL	199,900	326 (95%)	233 (97%)	3/4	3" @ 100 equivalent ft	1470	98.2
25 L 100A-GCL	250,000	408 (95%)	291 (97%)				94.7
30 L 100A-GCL	300,000	490 (95%)	349 (97%)				

Electrical Service
120VAC, 1Ø, 60 Hz. 5 amps
Exhaust Venting
Use a Category IV PVC, CPVC or ETL, UL, ULC or CSA listed stainless steel or Centrotherm InnoFlue SW Polypropylene vent. Minimum vent length 5 eq. feet. Do not size vent based only upon connection diameter at the appliance. Refer to installation manual for sizing.
Inlet Combustion Air Duct
Up to 100 eq. feet using 3-inch PVC or galvanized vent pipe. Longer lengths are ETL listed through larger diameter pipe. Refer to installation manual.

Gas Pressure - Natural
Minimum inlet flow pressure 3.5" W.C. Maximum static pressure 14" W.C. For LP gas, refer to installation manual.
Minimum Clearance from Combustibles
Zero clearance for sides and rear, 24" from front. 15" from top. Can be installed directly on a combustible floor.
Recommended Service Clearances
18" from all sides. Check local and national codes for additional requirements.
Emissions
All models < 20 ppm NOx.

① Recoveries and thermal efficiency derived from DOE 10 CFR 431 testing requirements (ANSI Z21.10.3 @ 70°F to 140°F).

② Recoveries and thermal efficiency based upon 40°F entering water temperature.

Empty weight for all models is 635 lbs. Shipping weight is 750 lbs.

Conquest® 400-1200

Condensing Gas Water Heater

Conquest is a compact, condensing, semi-instantaneous, firetube water heater that combines an advanced fuel-saving design with extended product life. It features a submerged combustion chamber and a heat exchanger with a dimpled array of firetubes fabricated entirely from durable, corrosion-resistant AquaPLEX® duplex stainless steel alloy. Built from the best material, Conquest provides superior payback with 3-5 times the warranty of competitors.

Features and Benefits

- 400-1200 MBH
- Up to 98% thermal efficiency at low fire, tested from 40°F to 140°F and from 70°F to 140°F
- Seamless modulation reduces cycling and improves efficiency up to 99% during low load
- Less than 20 ppm NOx
- Touch-screen operating control with plain text status and fault diagnostics, BACnet embedded
- 15-year tank and heat exchanger corrosion warranty (8 years full, 7 years pro-rated)

Specifications



Model ▼	Input (BTU)	Recovery (GPH) (Thermal Efficiency)		Vent Diameter (ETL listed for longer vents with larger dia.)**	Operating Weight (lbs)	Empty Weight (lbs)	Shipping Weight (lbs)	Volume (gal)
		70°F to 140°F ①	40°F to 140°F ②					
CQT400	399,000	674 (99%)	472 (99%)	6" @ 200 eq. ft.	1,662	828	1,028	115.6
CQT500	500,000	840 (98%)	588 (98%)		1,744	910	1,110	114.7
CQT600	600,000	1,009 (98%)	707 (98%)		1,825	991	1,191	109.6
CQT700	700,000	1,178 (98%)	824 (98%)	6" @ 250 eq. ft.	1,907	1,073	1,273	104.5
CQT800	800,000	1,347 (98%)	943 (98%)		1,988	1,154	1,354	99.4
CQT900	900,000	1,516 (98%)	1,061 (98%)					
CQT1000	999,000	1,684 (98%)	1,179 (98%)	6" @ 150 eq. ft.				
CQT1100	1,100,000	1,854 (98%)	1,298 (98%)					
CQT1200	1,200,000	2,025 (98%)	1,418 (98%)					

Standard Electrical Service

120VAC, 1Ø, 60 Hz. All models < 12 amps.

Venting

Use a Category IV PVC, CPVC or ETL, UL, ULC or CSA listed stainless steel or Centrotherm InnoFlue SW Polypropylene vent. Minimum vent length is 5 eq. feet. Maximum vent length varies by model number and vent diameter.

Inlet Combustion Air Duct

Use PVC or galvanized pipe. 150 eq. ft. using 6" pipe. Longer lengths are ETL listed with larger diameters, refer to installation manual.

Gas Pressure - Natural

Minimum inlet flow pressure 3.5" W.C. Maximum static pressure 14.0" W.C. For LP gas, refer to installation manual.

Minimum Clearance from Combustibles

Zero clearance from sides and rear, 24" from front, 15" from top. Can be installed directly on a combustible floor.

Recommended Service Clearances

18" from all sides. Check local and national codes for additional clearance requirements.

Emissions

All models < 20 ppm NOx

① Recoveries and thermal efficiency derived from DOE 10 CFR 431 testing requirements (ANSI Z21.10.3 @ 70°F to 140°F).

② Recoveries and thermal efficiency based upon 40°F entering water temperature.

Empty weight for all models is 1154 lbs. Shipping weight is 81354 lbs.

Condensing Gas Water Heater

Centurion is a compact, direct-fired domestic hot water heater with state-of-the-art combustion controls technology and superior reliability. Its advanced Edge Controller incorporates dynamic feed-forward sensing for precise modulation of its high turndown air/fuel delivery system. It is also the first water heater to offer O₂ Trim, which allows the unit to self-adjust and maintain optimal air/fuel ratios for peak efficiency, low emissions and maximum uptime reliability. Centurion features an Integrated Water Heater Management (WHM) platform that allows facility managers to easily sequence up to 16 units to optimize system efficiency at all load conditions and virtually eliminate standby and cycling losses.

Features and Benefits

- 1600 and 2000 MBH
- Precise temperature control $\pm 4^{\circ}\text{F}$ via dynamic feed-forward sensing
- Up to 99% thermal efficiency
- Patented modulating high turndown air/fuel delivery system; up to 20:1 turndown; low NOx burner <20ppm
- Durable, corrosion-resistant AquaPLEX duplex stainless-steel fire tube heat exchanger
- Advanced Edge Controller with O₂ Trim self-adjust and maintains optimal air-fuel ratios for peak efficiency, low emissions and maximum reliability
- Integrated Water Heater Management (WHM) multi-unit sequencing (up to 16 units)
- Integrated BACnet IP, BACnet MS/TP, Modbus IP and Modbus RTU communication
- Zero side clearance with up to 65% less footprint than competing models
- Dedicated hot water re-circulation connection
- 15-year warranty (8 years full, 7 years prorated)

Specifications

Adjustable Temperature Control	50°F to 190°F
Ambient Temperature	0°F to 130°F
Accuracy	$\pm 4^{\circ}\text{F}$
Input	2,000 MBH
Certified Efficiency (DOE 10 CFR Part 431)	94% (CEN 1600); 96% (CEN 2000)
Turndown Ratio	16:1 (CEN 1600); 20:1 (CEN 2000)
Flue/Air Intake Connections	8" Inch
Flue Material (per local code)	PVC, CPVC, Polypropylene or AL29-4C
Water Inlet, Outlet, and Recirc. Conn.	3" Flanged
Gas Connection - Natural Gas/Propane	2" NPT Male/ 1-1/2" NPT Male
Gas Pressure Requirements - Natural Gas/Propane	14" WC Max/12" WC Max
Maximum Continuous Water Flow	130 GPM

Condensate Trap Connection	3/4 inch NPT Female
Maximum Condensate Flow	16 GPH
Pressure Rating	160 PSIG @ 210°F
NOx Emissions	< 20 ppm NOx. (SCAQMD)
Standard Listing and Approvals	UL, cUL, ASME, (HLW)
Gas Train Options	FM Compliant or Factory Installed DBB (IRI)
Electrical Requirements	208VAC / 3Phase / 60Hz / 20A (10 FLA) 460VAC / 3Phase / 60Hz / 15A
Water Pressure Drop @ 50 gpm	2.1 psi
Sound Rating	72 dbA
Water Volume	64.0 gallons
Weight, Installed	1,650 lbs. (dry), 2,203 lbs. (wet)
Weight Shipping	1,850 lbs.



Condensing Gas Water Heater

A breakthrough in smart design, PVI's Brigade is a powerful commercial water heater that delivers reliable hot water for demanding applications in a small footprint. Brigade's high efficiency, durability and compact footprint will help owners and facility managers ensure their buildings have a long-lasting system that saves on space and operating costs. Ideal for a variety of applications including restaurants, K-12 schools, small office buildings, travel centers, grocery stores and convenience stores with gasoline.

Features and Benefits

- 199 MBH
- Ultra-compact design (15" wide x 26" deep x 76" tall) with all connections at the top for ease of installation
- 0" clearance from sides and rear, and 8" from top, 3" from front of unit (in closet installations)
- 25 gallons temperature buffer
- Up to 99% thermal efficiency
- AquaPLEX® duplex stainless-steel construction with performance-enhanced, high efficiency, patent-pending firetubes
- Industry leading 6-year full vessel warranty
- 233 gallons per hour from 40°F to 140°F
- High turndown (7:1) with spark ignition



Specifications

Model ▼	Input (BTU)	Recovery (GPH) (Thermal Efficiency)		Gas Connection (NPT)*	Vent Diameter*	Operating Weight (lbs)
		70°F to 140°F ①	40°F to 140°F ②			
20 L 25-RGC	199,000	329 (96%)	233 (97.5%)	1/2	3" @ 100 eq. ft.	555

① Recoveries and thermal efficiency based upon DOE 10 CFR 431 testing per ANSI Z21.10.3 @ 70°F to 140°F.

② Recoveries and thermal efficiency based upon 40°F entering water temperature.

Dimensions are in inches unless otherwise indicated. For standard and optional equipment, refer to form PV 8693.

Empty weight is 348 pounds and shipping weight is 440 pounds.

Gas Pressure - Natural

Minimum inlet flow pressure 3.5" W.C. Maximum static pressure 14.0" W.C.

Minimum Clearance from Combustibles

Zero (0") clearance from sides and rear, and 8" from top. 3" from front of unit for closet installation. Can be installed directly on a combustible floor.

Recommended Service Clearances

18" from all sides, top and front. Check local and national codes for additional clearance requirements.

Emissions

< 20 ppm NOx

Standard Electrical Service

120VAC, 1Ø, 60 Hz, 5 amps.

Venting

Use a Category IV PVC, CPVC or ETL, UL, ULC or CSA listed stainless steel or Centrotherm InnoFlue SW Polypropylene vent, minimum vent length 5 eq. feet. Do not size vent based only upon connection diameter at the appliance. Refer to installation manual for sizing requirements.

Inlet Combustion Air Duct

Up to 100 eq. ft. using 3" PVC or galvanized vent pipe. Longer lengths are ETL listed through larger diameter pipe. Refer to installation manual.

ASME Electric Storage Water Heater

Durawatt is an emission-free, energy-efficient electric water heater with storage, ideal for electrification and decarbonization projects. It can function as a stand-alone plant, complement gas-fired heaters for a versatile energy mix, or support heat pump-based systems by providing backup, recirculation, and storage. Featuring a AquaPLEX tank made of corrosion-resistant duplex stainless steel, Durawatt offers superior durability, making it a reliable choice that meets local codes and regulations effectively. Its design with individual heating elements makes maintenance simpler and more cost-efficient.

Features and Benefits

- 98% thermal efficiency
- 9kW to 234kW input (customizable up to 360kW)*
- 150 to 2000-gallon AquaPLEX storage tank (customizable up to 3000 gl.)
- Heating elements (40W or 80W density) energized in up to 10 stages
- Industry-leading warranty
- Supply voltages of 208/1, 240/1, 208/3, 240/3, 380/3, 480/3 (standard) or 600/3



Specifications

Model	kW Input	BTU Input	Recovery Rate (GPH)		Amps			
			40°-120°F	40°-140°F	240V, 3ø	380V, 3ø	480V, 3ø	600V, 3ø
45	9	31,000	47	37	24	16	13	11
90	18	62,000	93	74	46	29	24	19
140	27	93,000	140	112	67	43	35	28
180	36	123,000	185	148	89	57	46	37
230	45	154,000	231	185	111	70	57	45
270	54	185,000	278	222	132	84	67	54
320	63	215,000	323	258	154	98	78	63
370	72	246,000	369	295	176	111	89	71
410	81	277,000	416	332	197	125	100	80
460	90	308,000	462	370	219	139	111	89
510	99	338,000	507	406	241	152	122	97
550	108	369,000	554	443	262	166	132	106
650	126	430,000	645	516	306	193	154	123
740	144	492,000	738	590	349	221	176	141

Table represents our most common configurations. Inputs up to 360kW are available. For higher kW input, alternate voltages and alternate kW steps, contact your PVI representative.

For specifications on larger kW models, go to pvi.com/durawatt.

Tank Size (gallons)	Height (H) in	Width (W) in	Depth (D) in	Tank Size (gallons)	H in	W in	D in	Tank Size (gallons)	H in	W in	D in
150	63	34-37	36-39	500	78	56	56	1250	96	75	56
200	73			600	90			1500	108		
250	85			750	83	67	56	1750	132		
300	75	46	53	900	95			2000	144		
400	87			1000	107						

Table represents our most common tank configurations. For larger tanks (up to 3000 gallons) or horizontal tanks, contact your PVI representative.

Durawatt Mini

Compact, Wall-Mounted Electric Water Heater

Durawatt Mini is a compact yet powerful electric water heater engineered for a wide range of applications. Whether serving as a building recirculation heater, a sidearm unit for system backup, a booster heater, or a standalone solution, Durawatt Mini delivers dependable performance across diverse scenarios.

Constructed with AquaPLEX duplex stainless steel, Durawatt Mini eliminates the need for anode rods and is highly resistant not only to aqueous corrosion in potable water at any temperature, but also chloride stress corrosion cracking. It excels in high-temperature environments, making it ideal for integration with other energy-efficient systems such as heat pumps, solar thermal and other technologies. Designed for durability and ease of maintenance, the Durawatt Mini offers a long-lasting, reliable water heating solution tailored for sustainable building systems.



Primary, Booster or Recirculation – All in One

Durawatt Mini and its unique design and features can serve as the primary water heater for domestic hot water applications or provide support for other PVI water heating equipment by supplying backup heating, booster heating, or dedicated recirculation heating to maximize the water heating system's ability to deliver domestic hot water efficiently and reliably.

Features and Benefits

- 12–54 kW input range for flexible sizing
- 480V, 3-phase standard construction
- Incoloy sheathed heating elements for durability
- AquaPLEX duplex stainless steel for unmatched corrosion resistance – eliminates tank lining and anode rods, and resists chloride stress cracking and aqueous corrosion
- Industry-leading durability compared to 316L or 304L stainless steel

Model	PLAR12	PLAR18	PLAR24	PLAR30	PLAR36	PLAR45	PLAR54
kW Input	12	18	24	30	36	45	54
Electrical Supply	480 V, 3-phase, 60 Hz						
Current (Amps)	16	24	31	38	45	56	66
Hot Water Output 40-120F (gph)	61	91	123	153	184	230	276
Hot Water Output 40-140F (gph)	49	74	98	123	147	184	221
MAWP (psi)	150						
Maximum Flow (gpm)	70						
Water Inlet & Outlet	1 ½"						
Shipping Weight (lbs)	142	142	147	147	147	152	152
Wet Weight (lbs)	209	209	214	214	214	219	219

Power VTX®

Condensing Storage Water Heater

Power VTX is a condensing, 95.5% thermal efficient storage water heater featuring a submerged combustion chamber, enhanced fire tubes and a storage tank fabricated entirely from AquaPLEX® duplex stainless steel for increased life expectancy and reliability. Seamless pulse width modulation reduces cycling and improves efficiency up to 99% during low load conditions. With a tank and heat exchanger made entirely from AquaPLEX duplex stainless steel alloy, the Power VTX is an extremely powerful and reliable water heater.

Features and Benefits

- Available in 500, 750, 1000 MBH
- Up to 95.8% thermal efficiency at full rate from 70-140°F
- No tank linings, no anodes of any type
- Better than 316 and 304 stainless in potable water
- Touch-screen operating control with plain text diagnostics
- 15-year tank and heat exchanger warranty (8 years full, 7 years prorated)

Specifications

Model	Input Btuh	Maximum Recovery GPH (thermal efficiency)		Minimum Vent Diameter Maximum Equivalent Length (ETL listed for longer vents with larger diameter)	Shipping Weight (lbs.)	Operating Weight (lbs.)
		70°F to 140°F ①	40°F to 140°F ②			
50 L 225A-PVX	500,000	819 (95.8%)	582 (97%)	6" @ 200 ft	1520	3086
75 L 225A-PVX	750,000	1228 (95.6%)	873 (97%)		1610	3126
100 L 225A-PVX	1,000,000	1636 (95.5%)	1163 (97%)		1700	3157

① Recoveries and thermal efficiency derived from DOE 10 CFR 431 testing requirements (ANSI Z21.10.3 @ 70-140°F).

② Recoveries and thermal efficiency based upon 40°F entering water temperature.

Standard Electric
120V, 1ø, 60 hz. (all models < 11 amps)
Gas Pressure (natural gas)
3.5" w.c. minimum flow pressure 14" w.c. maximum static pressure
Minimum Clearances
4 inches from sides and rear. 24 inches from the front 16 inches from top. Can be installed on combustible floor

Recommended Clearances
18 inches from all sides, 24 inches from the front and 16 inches from the top. Refer to local and national codes for additional clearance requirements.
Emissions
<12 ppm NOx, SCAQMD listed



Turbopower® 96

Condensing Storage Water Heater

Turbopower 96 is a free-standing storage water heater utilizing a 2-pass fire tube heat exchanger and a secondary economizer to achieve thermal efficiency as high as 97.5% at full firing rate. The primary heat exchanger is removable to allow the exchanger and tank to be fully accessed if needed. Tank and heat exchanger are built from AquaPLEX®, incorporating unmatched corrosion technology, a proven combustion system and the latest in touch-screen, remotely accessible operating controls.

Features and Benefits

- Available in 500, 750, 1000, 1300, 1600 MBH
- 250 to 1500 gallon tanks
- Up to 97.5% thermal efficiency at full rate from 40-140°F
- Touch-screen operating control with plain text diagnostics
- 25-year tank warranty (15 years full, 10 years prorated)
- 10-year heat exchanger warranty (5 years full, 5 years prorated)
- <20 ppm, NOx certified



Specifications

Rough-in Dimensions															
	500 BTU Input (1000s)			750 BTU Input (1000s)			1000 BTU Input (1000s)			1300 BTU Input (1000s)			1600 BTU Input (1000s)		
Tank Size	"W" Width	"D" Depth	"H" Height	"W" Width	"D" Depth	"H" Height	"W" Width	"D" Depth	"H" Height	"W" Width	"D" Depth	"H" Height	"W" Width	"D" Depth	"H" Height
250	64	86.5	67.5	64	93.5	67.5	64	93.5	67.5	64	120	67.5	64	120	67.5
300	64	86.5	80	64	93.5	80	64	93.5	80	64	120	80	64	120	80
400	64	86.5	91.5	64	93.5	91.5	64	93.5	91.5	64	120	91.5	64	120	91.5
500	64	97	82	64	98	82	64	98	82	64	119	82	64	119	82
600	64	97	94	64	98	94	64	98	94	64	119	94	64	119	94
750	71.5	107.5	86	71.5	108.5	86	71.5	108.5	86	71.5	129.5	86	71.5	129.5	86
900	71.5	107.5	98	71.5	108.5	98	71.5	108.5	98	71.5	129.5	98	71.5	129.5	98
1000	81	118	87	81	119	87	81	119	87	81	127.5	87	81	127.5	87
1250	81	118	99	81	119	99	81	119	99	81	127.5	99	81	127.5	99
1500	81	118	111	81	119	111	81	119	111	81	127.5	111	81	127.5	111

Input and Recovery			
Input Btu/h	GPH Recovery Rate (thermal efficiency)		Available Vertical SUPERTANK®
	70 to 140°F ①	40 to 140°F	
500,000	826 (96%)	587 (97.5%)	250 to 1500 gallons
750,000	1239 (96%)	881 (97.5%)	250 to 1500 gallons
1,000,000	1652 (96%)	1175 (97.5%)	250 to 1500 gallons
1,300,000	2148 (96%)	1527 (97.5%)	250 to 1500 gallons
1,600,000	2644 (96%)	1880 (97.5%)	250 to 1500 gallons

① Per DOE 10 CFR 431 testing requirements (ANSI Z21.10.3 @ 70°F to 140°F)

Non-Condensing Gas or Oil Water Heater

Turbopower is a fire tube, semi-instantaneous or storage water heater featuring a two-pass, submerged heat exchanger that bolts to the tank and is completely removable; providing unequalled field accessibility and maintainability of both the exchanger and the tank. Optional electronic operating control alloys for Modbus connectivity to BAS. Made of AquaPLEX® duplex stainless steel.

Features and Benefits

- 199 to 4000 MBH
- 150 to 3000 gallons storage
- 83% thermal efficiency
- Gas or oil
- Available with certified low NOx emissions (selected models)
- No tank lining and no anodes required
- 25-year tank warranty (15 years full, 10 years prorated)
- 10-year heat exchanger warranty (5 years full, 5 years prorated)



Specifications

Input and Recovery Characteristics - Hot Water Generators							Storage Dependent Dimensions (in)									
Input MBH	Recovery Rate (gallons per hour)			Minimum Inlet Flow Gas Pressure in W.C.	GPH #2 Fuel Oil	Available Vertical SUPERTANK®	Gal. Storage	"A" Height	"B" Width							
	40 - 120°F	40 - 140°F	40 - 160°F													
199	250	200	167	4.5	1.4	150 to 1250 gal.	150	65	34							
399	500	400	333	4.5	2.8	150 to 3000 gal.	175	71	34							
600	750	600	500	6	4.3	150 to 3000 gal.	215	78	34							
800	1000	800	667	6	5.7	150 to 3000 gal.	225	83	34							
1000	1250	1000	833	6	7.2	250 to 3000 gal.	250	63	46							
1200	1500	1200	1000	6.5	8.6	400 to 3000 gal.	400	87	46							
1600	2000	1600	1333	9	11.4	400 to 3000 gal.	600	86	56							
2000	2500	2000	1666	10.5	14.3	400 to 3000 gal.	900	95	67							
							1250	94	75							
							1500	106	75							
Input Dependent Dimensions (in)																
Input MBH	"H" Total Front Extension with tank width...					"K" Total Rear Extension with tank width...					"J" Burner Extension	"V" Vent Connection	Blower Motor		Total Amps 120V	Gas Inlet NPT
	34	46	56	67	75	34	46	56	67	75			hp	amps		
199	27	28	27	27	27						16	4	1/3	8	10	1/2
399	27	28	27	27	27						16	5	1/3	8	10	3/4
600	41	31	30	30	30						16	6	1/3	8	10	1
800	41	31	30	30	30						16	8	1/3	8	10	1-1/4
1000	n/a	48	38	30	30	n/a					16	8	1/2	10	12	1-1/4
1200	n/a	48	38	30	30	n/a					16	8	1/2	10	12	2
1600	n/a	63	53	50	45	n/a	18	16	8	8	27	10	1-1/2	20	22	2
2000	n/a	63	53	50	45	n/a	18	16	8	8	27	10	1-1/2	20	22	2-1/2

Inputs vary by fuel type and tank size. Higher inputs are available, contact your PVI representative. Larger tanks are available, contact your PVI representative. PVI reserves the right to change the design and specification without notice.

Power Combustion Storage Water Heater, Gas or Oil

Maxim is a fully packaged gas- or oil-fired vertical firetube water heater that provides reliable domestic hot water even under the most difficult water conditions. It's designed as a free-standing storage heater requiring no field piping between a boiler and tank. The storage tank is constructed and stamped in accordance with the ASME code for 150 psi maximum working pressure. The tank and the firetubes are fabricated entirely from AquaPLEX® duplex stainless steel alloy.

Features and Benefits

- 199, 270, 399, 540, 720, 800, 1000, 1200 MBH
- 125 and 250 gallon tanks
- 81% thermal efficiency
- Available with certified Low NOx emissions
- 15-year warranty (8 years full, 7 years prorated)

Specifications



125 Gallon Series														
Input MBH	Recovery Rate (gallons per hour)		Minimum Inlet Flow Gas Pressure inches W.C.	Approx. Gallons Storage	Dimensions (inches)					Blower Motor hp	Blower Motor hp	Blower Motor amps	Blower Motor amps	Approx. Shipping Weight (lbs.)
	70 to 140°F ①	40 to 140°F ②			A	B	C	E	J*					
199	276	200	4.5	125	34-1/2	5	1/2	75	11	1/5	1/3	1.3	8	1020
270	376	270	4.5	125	34-1/2	6	3/4	75	11	1/5	1/3	1.3	8	1070
399	555	400	4.5	125	34-1/2	7	3/4	75	11	1/5	1/3	1.3	8	1120
720	1001	720	4.5	125	34-1/2	10	1-1/4	82	18	1/3	1/2	8	10	1370
800	1113	800	4.5	125	34-1/2	10	1-1/4	82	18	1/3	n/a	8	n/a	1390

250 Gallon Series														
Input MBH	Recovery Rate (gallons per hour)		Minimum Inlet Flow Gas Pressure inches W.C.	Approx. Gallons Storage	Dimensions (inches)					Blower Motor hp	Blower Motor hp	Blower Motor amps	Blower Motor amps	Approx. Shipping Weight (lbs.)
	40 to 120°F ①	40 to 140°F ②			A	B	C	E	J*					
270	376	270	4.5	250	45	6	3/4	75	11	1/5	1/3	1.3	8	1470
399	555	400	4.5	250	45	7	3/4	75	11	1/5	1/3	1.3	8	1520
540	751	540	4.5	250	45	8	1	82	18	1/3	1/2	8	10	1600
720	1001	720	4.5	250	45	10	1-1/4	82	18	1/3	1/2	8	10	1710
800	1113	800	4.5	250	45	10	1-1/4	82	18	1/3	n/a	8	n/a	1810
1000	1391	1000	4.5	250	45	10	2	82	18	1/2	1/2	10	10	1870
1200	1669	1200	6	250	45	12	2	82	18	1/2	1/2	10	10	2000

① Recovery rate based on DOE 10 CFR 431 (ANSI Z21.10.3 @ 70°F to 140°F)

② Recovery based on 83% thermal efficiency with 40°F entering cold water

Oil inlet is 1/2" for all models. For reduced NOx heaters, consult your PVI representative. Inputs vary by fuel type and tank size. Models with inputs 199 to 399 MBH are available with less than 55 ppm NOx. *For combination gas/oil heaters (J dimension), consult PVI representative. PVI reserves the right to change the design and specification without notice.

Cobrex® Instantaneous

Tankless Steam-fired Domestic Hot Water Generator

Cobrex is a factory-packaged, skid-mounted instantaneous steam water heater. The heat exchanger is a double-wall, copper-tube, counter-flow design. Dual thermostatic mixing valves maintain a tight temperature control over variable flows. These mixing valves modulate infinitely in response to hot water demand.

Cobrex is designed for buildings with hot water re-circulation and provides incredibly accurate temperature control. No steam control valve is needed for operation of the Cobrex water heater. The heater operates at or below 15psi and a pressure reducing valve is suggested upstream of the heater for higher pressures. It also offers superior corrosion protection as the heat exchanger is all copper and bronze construction on the boiler water and domestic water sides, and all piping and fittings are either brass, bronze or copper.

Features and Benefits

- Up to 6000 MBH
- With 15 psi inlet steam, units are available to produce 20, 30, 40, 50 and 60, 75 and 90 gpm of water from 40 to 140°F
- Single-pass, counterflow design
- No steam valve required at ≤ 15 psi steam
- $\pm 4^\circ\text{F}$ outlet water temperature control under all domestic water flow conditions
- Solenoid valve over-temperature protection
- Fully packaged and skid mounted
- Electronic communication with BAS optional

Specifications

Single Heat Exchanger Tankless Models			
Temperature Rise	Inlet Steam Pressure (psi)	Recovery Range (gpm)	Output Range (MBTU)
40°F - 120°F	5	30 - 75	1200 - 3000
	10		
	15		
40°F - 140°F	5	20 - 50	1000 - 2500
	10	20 - 60	1000 - 3000
	15	30 - 60	1500 - 3000
40°F - 160°F	5	30 - 40	1800 - 2400
	10	30 - 40	1800 - 2400
	15	30 - 50	1800 - 3000

(4 Product Configurations Available)



Dual Heat Exchanger Tankless Models			
Temperature Rise	Inlet Steam Pressure (psi)	Recovery Range (gpm)	Output Range (MBTU)
40°F - 120°F	5	90 - 120	3600 - 4800
	10		
	15		
40°F - 140°F	5	60 - 100	3000 - 5000
	10	75 - 120	3750 - 6000
	15	75 - 120	3750 - 6000
40°F - 160°F	5	50 - 75	3000 - 4500
	10	50 - 90	3000 - 5400
	15	60 - 90	3600 - 5400

(2 Product Configurations Available)

Cobrex® Storage

A Supertank® Water Heater

Cobrex Storage steam water heaters utilize a double-wall, copper-tube, counter-flow heat exchanger to provide moderate to large amounts of domestic hot water from steam. The heat exchanger is external to the tank and provides exceptionally little floor space to remove the exchanger, if necessary. The tank is made from AquaPLEX duplex stainless steel alloy. The heat exchanger and tank are connected with factory-assembled piping. Electronic operating control is Modbus connectable to a building automation system. No steam control valve is required to operate the system.

Features and Benefits

- 1200 to 7200 gph of water at a 100 degree rise with 15 psi steam
- 150 to 3000 gallon storage tanks
- Redundant heat exchanger designs
- Heat exchanger is 100% non-ferrous with copper tubes and brass tube sheets
- Vertical and horizontal tank orientations
- 25-year tank warranty
(15 years full, 10 years prorated)

Specifications

Model	Btuh Output (@ 15 psi steam)	GPH Recovery 40-140F	Configuration	Standard Storage Tanks
1200	840,000	1010	single exchanger	150 to 400
1800	1,530,000	1840	single exchanger	150 to 400
2700	3,000,000	3600	single exchanger	150 to 400
3600	3,500,000	4215	single exchanger	150 to 400
1200-2	1,680,000	2020	dual exchanger	150 to 400
1800-2	3,070,000	3680	dual exchanger	150 to 400
2700-2	6,000,000	7200	dual exchanger	150 to 400
3600-2	7,000,000	8425	dual exchanger	150 to 400



Shown with optional steam header

EZ Plate® Instantaneous

Packaged Instantaneous Domestic Hot Water Generator

EZ Plate Instantaneous is a factory-packaged, skid-mounted instantaneous water heater that uses high or low temperature boiler water as the energy source. The heat exchanger is double-wall, brazed plate and temperature control is provided entirely on the domestic water side through a thermostatic mixing valve. This valve modulates infinitely in response to hot water demand.

Features and Benefits

- Up to 6000 MBH output from 12ft² of floor space
- Units are available to produce 10, 15, 20, 30, 40, 50, 60, 75 and 90 gpm of water with domestic outlet temperatures of 120, 140 or 160°F
- Designed to operate with lower boiler water supply and return temperatures to optimize condensing boiler operation
- Brazed plate heat exchangers
- Skid-mounted with factory pre-assembled piping
- Electronic communication with BAS optional
- System works to provide domestic hot water supplied with boiler water temperatures between 130-180°F



Specifications

Boiler Water Side Boiler Water Supply 180°F			Domestic Water Side Boiler Water Supply 40-140°F		
Model	Boiler Water Flow gpm	Boiler Water Pressure Drop	Recovery gpm	Hourly BTU Output	Domestic Water Pressure Drop
EZ-10-DW	10	0.9	10	500,000	3
EZ-15-DW	15	0.8	15.5	775,000	5.75
EZ-20-DW	20	0.8	21	1,050,000	6
EZ-30-DW	30	1.1	30.3	1,500,000	4.3
EZ-40-DW	40	1.0	40.8	2,000,000	3.5
EZ-50-DW	50	1.2	50.2	2,500,000	5
EZ-60-DW	60	1.4	58.9	3,000,000	6.2
EZ-75-DW	75	1.4	74.3	3,750,000	7.8
EZ-90-DW	90	1.5	88.2	4,500,000	11.6
EZ-105-DW	105	1.4	97.5	4,875,000	11

EZ Plate® Storage

Packaged Domestic Hot Water Generator

EZ Plate Storage water heaters provide reliable domestic hot water from boiler water utilizing a double-wall, brazed plate, heat exchanger. Plate heat exchangers are ideal for use with condensing boiler water systems because they allow the production of hot domestic water from lower temperature boiler water. Boiler water needs to only be 10°F hotter than the desired domestic water temperature. The heat exchanger and the tank are connected with factory-assembled piping. The heat exchanger is external to the tank providing a smaller footprint than traditional u-tube storage water heaters. EZ Plate Storage also offers dual heat exchanger models stacked to maintain a small footprint. These models can provide double the capacity or be run independent of each other, providing 100% redundancy. The heater allows for isolation of each heat exchanger to provide cleaning and maintenance without any system downtime. The tank is made from AquaPLEX® duplex stainless steel.



Features and Benefits

- Up to 6000 MBH
- 150 / 175 / 215 / 250 / 300 / 400 / 500 / 600 / 750 / 900 / 1000 gallon storage tanks
- 100% redundant (dual) heat exchanger
- Double-wall brazed plate heat exchangers
- Domestic water temperature to 180°F
- Skid-mounted with factory pre-assembled piping
- Electronic operating control is Modbus connectable to a building automation system
- 25-year tank warranty (15 years full, 10 years prorated)

Specifications

Single-Heat Exchanger Models	
Model	GPH @ 40°F to 140°F with 150°F boiler water
600	353
900	530
1200	706
1800	1059
2400	1412
3000	1765
3600	2118
4500	2648
5400	3177
7200	3979

Dual-Heat Exchanger and Dual Pump Models	
Model	GPH @ 40°F to 140°F with 150°F boiler water
600-2	706
900-2	1060
1200-2	1412
1800-2	2118
2400-2	2824
3000-2	3530
3600-2	4236
4500-2	5396
5400-2	6354

QuickDraw® Steam Storage

High-Capacity Steam and Water-to-Water Heaters

QuickDraw Storage steam and water-to-water heaters feature a single or double-wall copper U-tube bundle designed to deliver moderate to high volumes of domestic hot water using steam or boiler water. The horizontal orientation of the heat exchanger allows for easy access and removal during maintenance or repair. An advanced corrosion protection eliminates the need for anode rods – an essential advantage when housing a large non-ferrous heat exchanger within the storage tank. QuickDraw® Storage steam and water-to-water heaters are available with an electronic operating control that supports Modbus connectivity for seamless integration with building automation systems.

Features and Benefits

- Flexible Sizing Options: Available in seven standard models ranging from 200 to 3,200 gallons per hour (GPH) to meet a wide variety of hot water demands.
- Ample Storage Capacity: Features storage tanks from 150 to 900 gallons, ideal for both moderate and high-demand applications.
- Advanced Control Options: Standard steam control is a self-contained, pilot-driven steam valve with solenoid actuator; optional electric or pneumatic two-position valves and modulating valves available. Boiler water control valves are offered in two or three-way arrangements.
- Superior Corrosion Protection: AquaPLEX duplex stainless steel tank resists corrosion in potable water and chloride stress cracking—no lining or anode rods needed.
- Long-Term Durability: Non-ferrous, removable tank connections ensure lasting performance without internal rust or degradation.
- Extended Warranty Coverage: Includes a 25-year AquaPLEX tank warranty, one-year parts warranty, first-year service policy, and an optional long-life service policy.



Dual Energy Water Heaters

Flex-Fuel water heaters allow you to combine two energy sources in a single tank. Energy sources include gas, oil, electricity, steam, boiler water, solar or waste heat from condensers, heat pump loops, condensate, etc. Energy sources can operate independently (one at a time by manual switch over) or simultaneously, depending upon application. Flex-Fuel offers the ability to tailor its tank size to the application in order to optimize waste heat recovery and solar energy systems. The heat exchangers are sized precisely to the installation requirements to increase efficiency in waste heat and solar applications.

Features and Benefits

- 199 to 3200 MBH
- 225 to 3000 gallon storage tanks
- Any combination of two energy sources in a single tank
- 25-year tank warranty (15 years full, 10 years prorated)



DigiTemp® 2 and DigiTemp 2S

Digital Tempering Mixing Valves

DigiTemp 2 is a next-generation digital water mixing valve solution, engineered for precise, reliable domestic hot water temperature control in commercial and institutional facilities. DigiTemp 2 provides enhanced connectivity, expanded system control, and remote visibility, helping facility teams improve safety, compliance, and operational efficiency across single buildings or entire campuses.

Designed for ease of commissioning and long-term reliability, DigiTemp 2 delivers ASSE 1017-compliant temperature control, integrated safety functions, and seamless BAS integration, with optional Nexa by Watts connectivity for advanced monitoring and analytics. Available as a standalone valve (DigiTemp 2) or a factory pre-piped packaged system (DigiTemp 2S), our digital water mixing valve platform adapts to a range of installation preferences while maintaining consistent performance and control.

DigiTemp 2 is ideal for domestic hot water systems in commercial and institutional facilities where temperature accuracy, safety, and system visibility are critical.

Features and Benefits

- ASSE 1017 compliant digital water mixing valve
- $\pm 2^{\circ}\text{F}$ temperature control accuracy
- Full-color touchscreen interface
- On-site configurable (no special tools required)
- Integrated check valves on hot and cold inlets
- Lead-free construction (NSF 61 & 372 compliant)
- Native BACnet MSTP and Modbus support
- Optional Nexa connectivity for remote monitoring and analytics
- Available as factory pre-piped packaged system for faster installation (DigiTemp 2S)



DigiTemp 2



DigiTemp 2S

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