



BUILDER'S GUIDE

ACSmith®

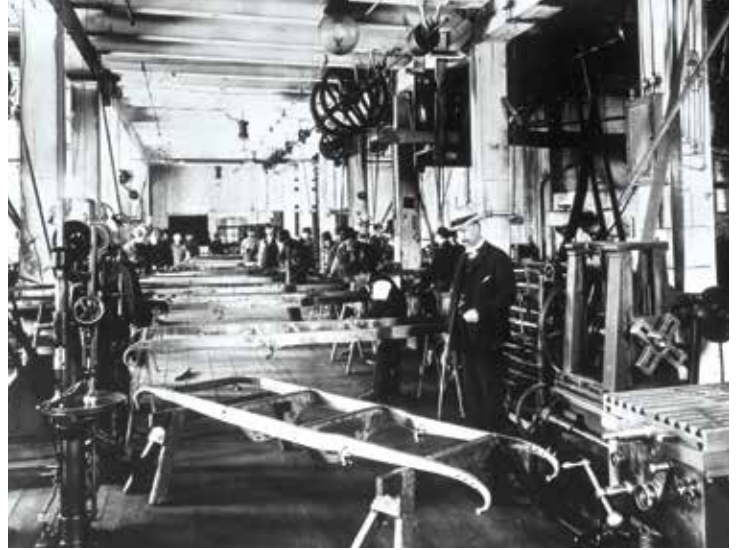
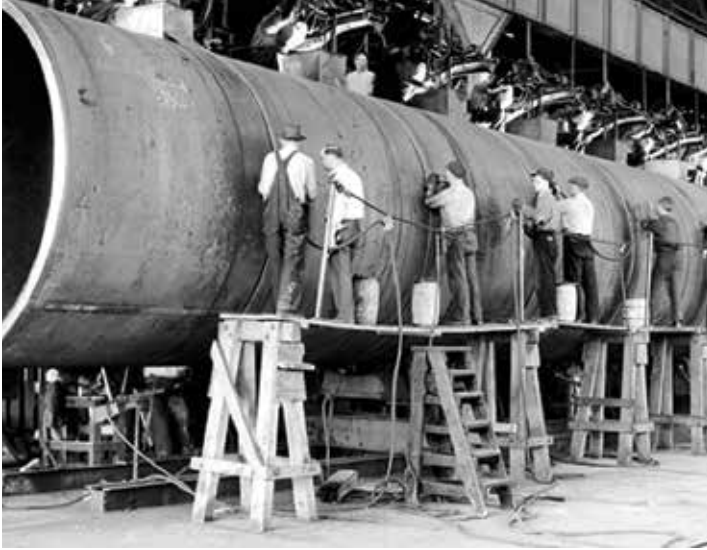


WHY PARTNER WITH A.O. SMITH?

Partnering with A. O. Smith and our family of brands allows builders to select a water heater product spec and then find that product locally, from multiple wholesalers and contractors. No matter where you are, or how unique your application, you can find the product from us to meet your needs and achieve your water heater goals.



COMPANY HIGHLIGHTS



- A. O. Smith celebrates more than **140-years** of innovation, integrity and customer satisfaction
- Multi-generational company with **world's largest** water heater manufacturing facility in Ashland City, Tenn.
- Company operations directly contributes more than **3,500 jobs in the U.S.**



ABOUT US



COMPLETE PRODUCT OFFERING

Residential or commercial, standard or high efficiency, with tankless and even hybrid models, A. O. Smith's full line of products gives builders the best opportunity to select units that provide added value and help achieve a lower HERS Index Rating.

BEST COMPONENTS IN THE INDUSTRY

APCOM, a division of A. O. Smith Water Heaters, is the industry's largest manufacturer of thermostats, electric heating elements, gas manifolds and burners, pipe nipples and other water heater components. This vertical integration allows us to provide the best water heaters in the business by ensuring that we use the best components available.

SALES SUPPORT

Competitive pricing—Our goal is to create long-lasting relationships with our builder partners

Speedy and local support through our tech support team, nationwide distribution and sales rep network

Job Site Inspections and local code compliance advice



To find a complete list of builder tools and resources, visit hotwater.com/builders.

RESIDENTIAL WATER HEATER SELECTION GUIDE

SIMPLE TANK TYPE SIZING

1 Determine whether your family is low demand or high demand. You should consider your family to be high demand if...

- There are more than two full baths in the home.
- There are (or will be) teenagers living in the home. It's a fact: teenagers use more hot water for showering and washing clothes.
- You have an oversize whirlpool bath or other large tub. As a rule of thumb, the water heater tank capacity should be 100% of the bathtub capacity (example: 75-gallon tub/75-gallon water heater).

2 Locate your family size and determine the first hour rating requirement for your family. If you decide your family is high demand, consider moving up to the next first hour rating level.

3 Consult the heater options on the following pages for an A. O. Smith residential water heater with a first hour rating that meets your requirements.



To select the right A. O. Smith water heater, consider the size of your family and other factors that contribute to your First Hour Rating (FHR) Requirement. This chart provides suggested A. O. Smith residential water heater selection guidelines for several family sizes.

FAMILY SIZE	FIRST HOUR RATING REQUIREMENTS
2 PEOPLE	45-55 GALLONS
3 PEOPLE	55-65 GALLONS
4 PEOPLE	65-75 GALLONS
5 PEOPLE	75-85 GALLONS
6 PEOPLE	85-100 GALLONS
7 OR MORE PEOPLE	100 OR MORE GALLONS

SIMPLE TANKLESS SIZING

TANKLESS MODELS GROUND WATER TEMPERATURE FACTOR

The temperature of incoming ground water (cold water inlet temperature) varies greatly throughout the U.S. and also fluctuates with the changing of the seasons. The temperature of water as it enters the water heater will determine the amount of “temperature rise” required to achieve the desired hot water outlet temperature (120°F is recommended).

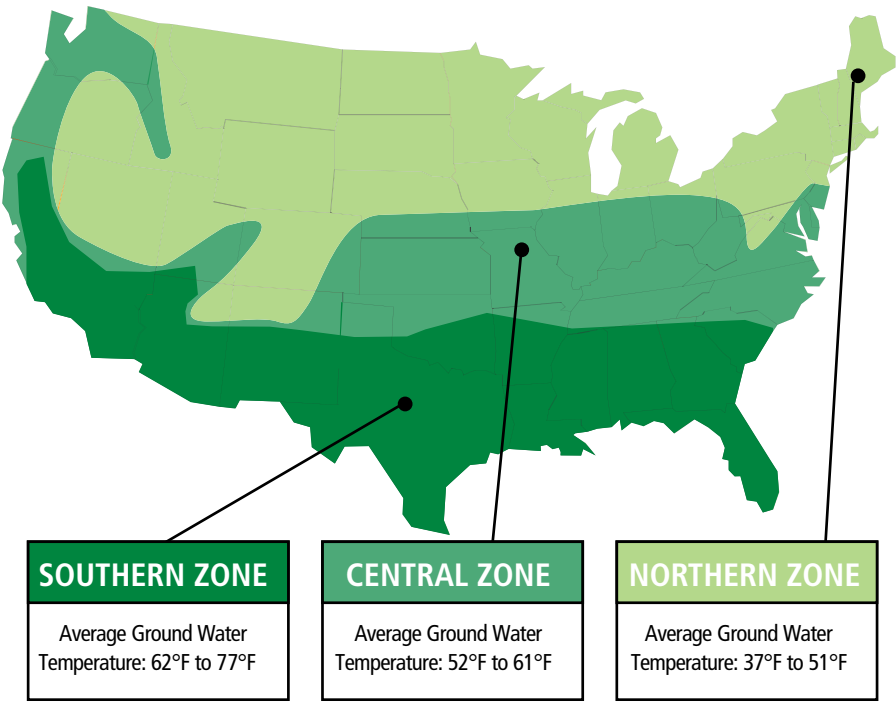
The best way to measure incoming ground water temperature is to use a thermometer to measure cold water temperature during the coldest season of the year. To simplify the process, use this map to determine whether your installation location is in the Southern Zone, Central Zone or Northern Zone.

PEAK HOT WATER DEMAND

The next step is to determine how many gallons per minute of hot water will be required during the busiest usage period (peak demand). Consider all appliances and fixtures that use hot water, including lavatory faucets, kitchen faucets, washing machines, dishwashers, showers and bathtubs. Be sure to determine how many appliances and fixtures will be used at the same time (peak demand).



AVERAGE GROUND WATER TEMPERATURE



Remember, these are general recommendations. Your A. O. Smith Water Heater Specialist can review your family's needs in even greater detail to make sure the model you choose will always provide enough hot water to meet the demand.

TANKLESS FLOW RATES

Temp Rise	110U Series	310U Series	510U Series	140H Series	240H Series	340H Series	540H/P Series
30°	6.6	8.0	10.0	6.6	6.6	8	10
40°	5.7	7.8	8.1	5.6	6.6	8	9.5
50°	4.6	6.2	6.5	4.5	6.1	6.8	7.6
60°	3.8	5.2	5.4	3.7	5.1	5.7	6.3
70°	3.3	4.4	4.7	3.2	4.3	4.9	5.4
80°	2.9	3.9	4.1	2.8	3.8	4.3	4.7
90°	2.5	3.5	3.6	2.5	3.4	3.8	4.2
100°	2.3	3.1	3.3	2.2	3.0	3.4	3.8



HERS INDEX

The Residential Energy Service Network (RESNET) recognizes the Home Energy Rating System (HERS) Index as the national system to determine a home’s energy performance. The system evaluates a home’s energy efficiency and issues a score that rates its overall performance. The lower a home’s HERS Index score, the more energy efficient it is.

Hers Index

$$\frac{PE_{frac} \times 100 \times (E_{heating} + E_{cooling} + E_{wh} + E_{la})_{rated\ home}}{(E_{heating} + E_{cooling} + E_{wh} + E_{la})_{reference\ home}}$$



HOMEBUYERS WANT TO UNDERSTAND THEIR HOME’S ENERGY EFFICIENCY TO:

- 1 Increase savings on energy bills
- 2 Improve home comfort
- 3 Reduce carbon footprint

HOW TO GET AN HERS INDEX SCORE

A certified RESNET HERS Rater calculates a home’s HERS Index Score after conducting a home inspection and series of diagnostic tests. Once all of the diagnostic tests have been completed, the rater will use RESNET’s Accredited Rating Software to calculate the home’s rating.

SOME OF THE ITEMS THE HERS RATER WILL EVALUATE ARE:

- Exterior walls
- Floors in unconditioned spaces like garages or cellars
- Ceilings and roofs
- Attics, foundations and crawlspaces
- Water heating systems
- Windows, doors, vents and ductwork
- HVAC systems and thermostats
- Air leakage



To learn more about the HERS Index, visit resnet.us



UTILITY INCENTIVES

Partnering with A. O. Smith and our family of brands allows you to select a water heater product spec and then find that product locally, from multiple wholesalers and contractors. No matter where you are, or how unique your application, you can find the product from us to meet your needs and achieve your water heater goals.

Residential or commercial, standard or high efficiency, with tankless and even electric heat pump models, A. O. Smith's full line of products gives you the best opportunity to select units that provide added value and help achieve a lower HERS Index Rating. Include A. O. Smith ENERGY STAR® certified tankless gas or electric heat pump water heaters to build more efficient homes. These models can help you earn between 3 and 6 HERS index score points across all climate zones and home configurations.



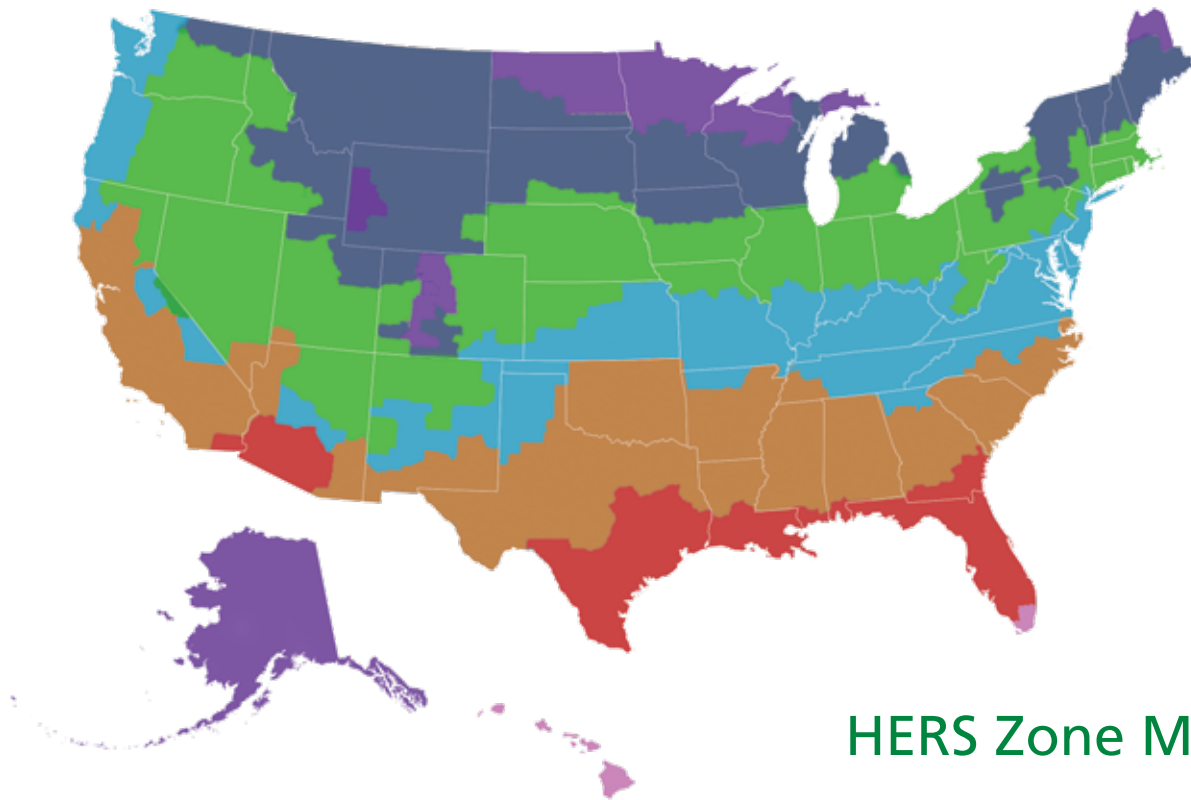
Did you know? Utilities in more than 30 States offer builder incentives to reduce the equipment cost of ENERGY STAR® water heaters, visit the URL provided to see a list of incentives that we have compiled for you <https://www.hotwater.com/lit/media/misc/Utility-Incentives-for-new-Construction-AOS.pdf>

Let us show you specifically what we can do to help upgrade your subdivisions with ENERGY STAR® certified water heating equipment, build more efficient homes, and help your new home buyers save on energy!



Contact Us today at builders@hotwater.com

HOW DO A. O. SMITH PRODUCTS HELP YOUR HERS RATING



HERS Zone Map

Model Number	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7
Heat Pump							
HPTU-50N	6	6	5	5	6	4	5
HPTU-66N	6	6	4	5	6	4	5
HPTU-80N	6	6	4	5	6	4	5
90%+ Efficiency							
GDHE-50	2	2	3	3	4	3	3
GDHE-75	3	3	3	3	4	3	3
GPHE-50	2	2	3	3	3	3	3
Tankless							
ATI-540H	5	5	4	5	5	4	5
ATI-540P	5	5	4	5	5	4	5
ATI-510C	4	4	3	3	3	2	3
ATI-510U	4	4	3	3	3	2	3
Powered Vent							
GPDx-50L	1	2	2	2	2	2	2
GPDT-50	1	1	2	2	2	2	2
GPDx-75L	2	2	1	2	1	1	1
GPVx-75L	2	2	1	2	1	1	1
GPVL-40	2	2	2	2	2	1	2
GPVL-50	2	2	2	2	2	1	2

Results provided third party by EnergyLogic assuming a 2 story home with no H2O improvements.



For more detail visit www.hotwater.com/builders

FEATURES AND BENEFITS

PREMIUM FEATURES. COMMERCIAL-GRADE COMPONENTS.



BLUE DIAMOND® GLASS COATING

Provides superior corrosion resistance compared to industry-standard glasslining.



ENHANCED-FLOW BRASS DRAIN VALVE

- Our residential water heaters have a solid brass, tamper resistant, enhanced-flow, ball type, drain valve.
- Uses a standard female hose fitting that allows for fast and easy draining during maintenance.
- Designed for easy operation, this valve includes an integral screwdriver slot that features a 1/4 turn (open/close) radius, which not only permits full straight-through water flow but also a quick and positive shut off.



SELF-CLEANING DIP TUBES

Helps reduce lime and sediment buildup and maximizes hot water output. Made from long-lasting PEX cross-linked polymer.



HEAT TRAP NIPPLES

Helps mitigate standby heat loss. Factory-installed for faster installation.



COREGARD™ ANODE ROD

Our anode rods have a stainless steel core that extends the life of the anode rod allowing superior tank protection far longer than standard anode rods.



ENERGY STAR®

A. O. Smith offers a variety of models that are ENERGY STAR® qualified. Learn more at www.energystar.gov.



SELF-POWERED ELECTRONIC GAS VALVE

A. O. Smith gas water heaters are equipped with a self-powered electronic gas valve with intelligent control logic. The gas valve has an internal microprocessor that provides enhanced operating parameters and tighter differentials for precise sensing and faster heating response to optimize performance. The self-powered electronic gas valve uses a thermopile to generate the power needed to operate the electronic gas control without requiring an external power source. It also incorporates an LED Status Indicator that monitors system operation and service diagnostics.



T&P RELIEF VALVE

CSA Certified and ASME Rated.



GREEN CHOICE GAS BURNER

Patented eco-friendly burner design reduces NOx emissions up to 33% and complies with low NOx emissions of less than 40 ng/J.

Enhanced Ultra-Low NOx burner complies with SCAQMD Rule 1121 and other air quality management districts with requirements for NOx emissions of less than 10 ng/J.

RESIDENTIAL GAS WATER HEATERS

PREMIUM FEATURES. COMMERCIAL-GRADE COMPONENTS.

PREMIUM FEATURES:



OPERATING COST	\$\$\$	\$\$	\$
INSTALLATION SPACE REQUIRED	■ to ■ ■	■ ■	■ ■ ■
WARRANTY (YEARS)	6	8	6-10
Blue Diamond® Glass Coating	•	•	•
DynaClean™ Automatic Sediment-Cleaning System	•	•	•
Self-Powered Electronic Gas Valve	•	•	•
Heat Trap Nipples	•	•	•
Enhanced Flow Brass Drain Valve	•	•	•
CoreGard™ Advanced Anode Rod Protection	•	•	•
ENERGY STAR® Qualified			•
Electronic User Interface			•
Over 90% Condensing Efficiency			•
Best In Class Material and Technology			•
Industry Leading Efficiency			•
Multiple Venting Options			•

Hot Water Output, Cost of Operation, & Installation Space Required estimated based on typical applications/installations.
For a more custom analysis of unique installations, visit hotwater.com and use our product selector tool.



VERTEX™ HIGH EFFICIENCY POWER DIRECT VENT



Condensing Design

- Operates at 96% thermal efficiency, which saves money on operating costs compared to a standard 80% efficient gas water heater
- Equipped with condensate drain tee

Helical Internal Heat Exchanger

- Spiral heat exchanger keeps hot combustion gases in the tank longer to lengthen the heat transfer cycle and improve efficiency

Advanced Electronic Control

- Large LCD touchscreen display
- Precise temperature control
- Advanced diagnostics

Power Direct Vent Design

- Combined vertical and horizontal runs terminating through an outside wall. Vents using PVC, CPVC or ABS pipe.
 - 2" pipe, vents up to 45 equivalent feet
 - 3" pipe, vents up to 128 equivalent feet

Side-Mounted Hot and Cold Recirculating Taps

- Allows Vertex to be installed as part of combination space heating/water heating applications

Code Compliance

- Complies with SCAQMD Rule 1146.2 and other air quality management districts with similar requirements for Ultra-Low NOx emissions requirements of 14 ng/J or 20 PPM
- Meets UBC, CEC and ICC National Codes
- Meets the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IES 90.1

Design-Listed by CSA International

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to ANSI Z21.10.1-CSA 4.1 standards governing storage tank-type water heaters

6-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com

PROLINE® XE
BEST

Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Thermal Efficiency	BTU Input Per Hour	Vent Size	Dimensions in Inches		Approx. Shipping Weight (lbs)
								Height to Top of Heater	Diameter	
GDHE-50	50	49	100	0.88	96%	100,000	2 or 3	66-3/4	22	255
GDHE-75	75	74	130	0.86	96%	100,000	2 or 3	64-3/4	27-3/4	382

Available in propane (LP) gas. Specify when ordering propane (LP) gas.
Models certified for sea level to 10,100 ft. elevation.
Optional Condensate Neutralizer Kit available (part number 100112380).

VERTEX™ HIGH EFFICIENCY POWER VENT

PROLINE® XE

BEST



Power Vent Design for Installation Versatility

- Helical internal heat exchanger achieves 90% thermal efficiency, which saves money on operating costs compared to a standard 80% efficient gas water heater
- Combined horizontal and vertical vent runs terminating through an outside wall, using Schedule 40 PVC pipe as follows:
 - 2" pipe allows vent runs up to 25 equivalent feet
 - 3" pipe allows vent runs up to 65 equivalent feet
 - 4" pipe allows vent runs up to 128 equivalent feet

Side-Mounted Taps for Recirculating Systems

- Hot and cold "side taps" allow Vertex Power Vent to be used for combination space/water heating applications

Intelli-vent™ Gas Control with Silicon Nitride Hot Surface Ignitor

- Premium-grade hot surface ignitor eliminates standing pilot
- Electronic circuitry provides superior system diagnostics capabilities plus extremely precise temperature control

Blue Diamond® Glass Coating with Two Heavy Duty Anode Rods

- Provides superior corrosion resistance compared to the industry-standard glass lining

Green Choice® Gas Burner

- Patented eco-friendly burner design reduces NOx emissions by up to 33% and complies with Low-NOx emission requirements of less than 40 ng/J

Dynaclean™ Diffuser Dip Tube

CSA Certified and ASME Rated T&P Relief Valve

Maximum Hydrostatic Working Pressure: 150 psi

Code Compliance

- Meets UBC, CEC and ICC National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1

6-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



*Intelli-Vent™ is a registered trademark of Emerson Electric Company

Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Thermal Efficiency	Recovery @ 90°F Rise Gallon Per Hour	BTU Input Per Hour	Dimensions in Inches		Approx. Shipping Weight (lbs)
								Height to Top of Heater	Diameter	
GPHE-50	50	48	119	0.88	90%	92	76,000	70-5/8	21	210

Available in natural gas only.

Standard model certified for sea level to 5,300 ft. elevation.

Optional Condensate Neutralizer Kit available (part number 100112380).

POLARIS® HIGH EFFICIENCY



Condensing Design

- Operates at up to 96% thermal efficiency which saves money on operating costs compared to a standard 80% efficient gas water heater
- Helical internal heat exchanger keeps hot combustion gases in the tank longer to extract more heat into the water
- Modulating burner maintains high efficiency operation at lower input rates

Stainless Steel Construction

- Tank and helical heat exchanger are constructed from 444 stainless steel for excellent corrosion resistance without the need for an anode

Quiet Operation

- Quiet blower and burner minimize noise

Power Direct Vent Design

- Direct vent using PVC, CPVC or ABS either thru-the-wall or thru-the-roof
- Optional concentric vent kit

Advanced Electronic Control

- Large LCD display provides precise temperature control and advanced diagnostics

Code Compliance

- Complies with SCAQMD Rule 1146.2 and other air quality management districts with similar requirements for Ultra-Low NOx emissions requirements of 14 ng/J or 20 PPM
- Meets UBC, CEC, and ICC National Codes
- Meets the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IES 90.1

10-Year Limited Tank and 1-Year Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



GSP 100

Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Thermal Efficiency	Recovery @ 90° Rise Gallon Per Hour	BTU/h Input Gallon Per Hour	Vent Size	Dimensions in Inches			Approx. Shipping Weight (lbs)
									Height to Top of Heater	Height to T&P	Diameter	
GSP 100	34	33	179	0.90	96%	129	100,000	2 or 3	48-1/2	41	22	150
GSP 130	34	N/A	N/A	N/A	96%	165	130,000	2 or 3	48-1/2	41	22	150
GSP 150	34	N/A	N/A	N/A	94%	190	150,000	2 or 3	48-1/2	41	22	150
GTP 130	50	N/A	N/A	N/A	95%	165	130,000	2 or 3	62-3/8	55	22	176
GTP 150	50	N/A	N/A	N/A	95%	190	150,000	2 or 3	63-3/4	56-1/4	22	180
GTP 175	50	N/A	N/A	N/A	96%	222	175,000	3	63-3/4	56-1/4	22	180
GTP 199	50	N/A	N/A	N/A	96%	253	199,000	3	63-3/4	56-1/4	22	180

Available in Propane (LP) gas. Specify when ordering Propane (LP) gas.
Models certified for sea level to 7,700 ft. elevation.

PROLINE® XE HIGH EFFICIENCY NON-CONDENSING FLUE DAMPER

PROLINE® XE

BEST



ENERGY STAR® Qualified

- All models meet the ENERGY STAR® requirement and may also qualify for local utility
- and rebate programs

Green Choice® Gas Burner

- Patented eco-friendly burner design reduces NOx emissions up to 33% and complies
- with Low-NOx emission requirements of 40 ng/l

DynaClean™ Diffuser Dip Tube

CoreGard™ Anode Rod

Requires 120V Power

- Power cord with standard 3-prong male connector provided
- Electrical requirements; 110/120 VAC power source, less than 5 amp draw

Blue Diamond® Glass Coating

Enhanced-Flow Brass Drain Valve

Code Compliance

- Meets IBC, CEC, and HUD (excluding mobile homes) National Codes
- Meets the efficiency requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1

Design-Certified by CSA Group

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to ANSI Z21.10.1 – CSA 4.1 standards governing storage tank-type water heaters

6-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	BTU Input Gallon Per Hour Natural*	Recovery @ 90°F Rise Gallon Per Hour	Dimensions in Inches				Approx. Shipping Weight (lbs)
							Height to Top of Draft Hood	Height to Top of Tank	Diameter	Draft Hood Outlet	
Tall Models											
GCF-40	40	38	70	0.64	40,000	42	64-1/4	58-1/4	20	3" or 4"	152
GCF-50	50	48	84	0.69	40,000	42	63-1/2	57-1/4	22	3" or 4"	167
Short Models											
GCFL-40	40	38	65	0.66	40,000	42	54	47-3/4	22	3" or 4"	149
*GCFL-50	50	49	78	0.69	40,000	42	55-3/4	49-1/2	24	3" or 4"	175

Available in natural gas only.

Water connection is 3/4" on all models.

All models are certified from sea level to 10,100 ft. elevation.

Requires 120 VAC power supply.

PROLINE® XE HIGH EFFICIENCY NON-CONDENSING POWER DIRECT VENT



Power Direct Vent Design

- Combined horizontal and vertical vent runs up to 180 equivalent feet with 4" diameter venting (ABS, PVC, CPVC and polypropylene)
- Two-pipe sealed combustion system uses outside air, eliminating problems caused by insufficient indoor ventilation
- Reduced NOx emissions comply with air quality management district regulations

Hot-surface Ignitor

- More robust and reliable than standing pilot, and reduces energy consumption

Dynaclean™ Diffuser Dip Tube

User-Friendly

- State-of-the-art electronic gas control provides more precise temperature control
- LED control light displays operation status and diagnostics information
- Built-in heat traps on the water inlet and outlet reduce the amount of heat lost through piping

Enhanced-Flow Brass Drain Valve

CSA Certified and ASME Rated T&P Relief Valve

Design-Listed by CSA International

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to ANSI Z21.10.1-CSA 4.1 standards or ANSI Z21.10.3 CSA 4.3 standards governing storage tank-type water heaters governing storage tank-type water heaters

Available in Natural Gas and Propane

6-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



Model Number	Series	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	NG Input Per Hour Propane	Recovery @ 90°F Rise Gallon Per Hour	Dimensions in Inches			Approx. Shipping Weight (lb)
								Height to Top of Blower	Height to Top of Tank	Diameter	
GPD L 40	200	40	38	74	0.68	40,000	45	58-1/4	49-5/8	22	174
GPDT 50	200	50	48	81	0.72	45,000	50	67-1/2	58-3/4	22	192
GPDX 50L	200	50	48	118	0.73	62,000*	73	69	60-1/4	22	200
† GPDX 75L	210	75	72	129	0.68	76,000	82	70-5/8	61-1/2	26	277

*Propane model has input of 58,000 BTU/hr.
Natural gas models cited are series 200/210. Propane models are series 201/211.
Side connections are standard on GPDX models.
For side connect models, add "L" to the model number (example: GDPT-50L).
Side connections available on GPD L and GPDT models.
All models are certified from sea level to 10,100 ft. elevation.
† GPVX-75 is not ENERGY STAR® Qualified.



PROLINE® XE HIGH EFFICIENCY NON-CONDENSING POWER VENT

PROLINE® XE
BEST



Versatile Power Vent Design

- All models feature an exclusive 3-position rotatable blower outlet which adds flexibility
- Combined horizontal and vertical vent runs up to 180 equivalent feet with 4" diameter venting (ABS, PVC, CPVC and polypropylene)
- All models are equipped with a protected sensor that detects the presence of flammable vapors and automatically disables the burner to prevent ignition
- Air intake snorkel elevates the inlet location of combustion air to prevent flammable vapors from entering the sealed combustion chamber

Hot-surface Ignitor

- More robust and reliable than standing pilot, and reduces energy consumption

ENERGY STAR® Qualified

- All models (except GPVX 75L) meet the ENERGY STAR® requirement and may also qualify for local utility and rebate programs
- Built-in heat traps on the water inlet and outlet reduce the amount of heat lost through piping
- 2-inch, thick, "Environmentally-Friendly" foam insulation reduces the amount of heat loss and contributes to overall energy efficiency

User-Friendly

- State-of-the-art electronic gas control provides more precise temperature control
- LED control light displays operation status and diagnostics information

Enhanced-Flow Brass Drain Valve

Available in Natural Gas and Propane

Design-Listed by CSA International

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to ANSI Z21.10.1-CSA 4.1 or ANSI Z21.10.3-CSA 4.3 standards governing storage tank-type water heaters

6-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



Model Number	Series	Nominal Capacity	Rated Storage Volume	UEF	Recovery @ 90°F Rise Gallon Per Hour	BTU Input Gallon Per Hour	First Hour Rating (Gallons)	Dimensions in Inches			Approx. Shipping Weight (lb)
								Height to Top of Blower	Height to Top of Tank	Diameter	
GPVL-40	200	40	38	0.67	45	40,000	72	59	49-5/8	22	174
GPVT-40	200	40	38	0.70	56	50,000	93	68-1/2	59-1/4	20	176
GPVL-50	200	50	49	0.72	45	40,000	93	60-1/8	50-3/4	24	198
GPVT-50	200	50	48	0.72	56	50,000	96	68-1/8	58-3/4	22	192
GPVX-50L	200	50	50	0.73	69	62,000	108	61-1/8	52	24	212
†GPVX-75L	210	75	72	0.69	80	76,000	N/A	70-5/8	61-1/4	26	277

Natural gas models cited are series 200/210. Propane models 201/211.

Side connections are standard on GPVX models.

For side connect models, add "L" to the model number (example: GPVT-40L).

All models rated for installation at altitudes up to 10,100 ft.

† GPVX-75L is not ENERGY STAR® Qualified.

PROLINE® XE HIGH EFFICIENCY NON-CONDENSING ULTRA-LOW NOx POWER VENT



Power Venting Made Simple

- Thru-the-wall or thru-the-roof power venting using either 2" or 3" PVC, ABS or CPVC vent pipe

Intelli-Vent™ Gas Control

- Advanced electronics for more precise control of water temperature and easy to understand system diagnostics

Combination Thermostat/ECO

- Utilizes an intermittent ignition gas valve (no standing pilot) with thermistor temperature sensor and built-in high temperature cut off

Quiet and Efficient Blower

- Factory-installed 6-foot power cord with standard 3-prong male connector provided. Electrical requirements; 110/120 VAC power source, less than 5 amp draw.

Dynaclean™ Diffuser Dip Tube

- Reduces lime and sediment buildup and maximizes hot water output. Made from long-lasting PEX cross-linked polymer.

Coregard™ Anode Rod

Durable, Ultra-Low NOx Burner Construction

Enhanced-Flow Brass Drain Valve

Code Compliance

- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation Act, (EPCA), as amended

Design-Certified by CSA-International

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to ANSI Z21.10.1-CSA 4.1 standards governing storage tank-type gas water heaters

6-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com

Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Recovery @ 90°F Rise Gallon Per Hour	BTU Input Gallon Per Hour	Dimensions in Inches			Draft Hood	Approx. Shipping Weight (lbs)
							Height to Top of Blower	Height to Top of Tank	Diameter		
GPNH-40	40	38	76	0.70	42.6	42,000	20	66-7/8	58-5/8	2 or 3	170
GPNH-50	50	48	71	0.65	42.6	42,000	22	66-7/8	57-7/16	2 or 3	207

No option available for top T&P valve.

RESIDENTIAL TANKLESS WATER HEATERS

PREMIUM FEATURES. COMMERCIAL-GRADE COMPONENTS.

PREMIUM FEATURES:



OPERATING COST

\$

INSTALLATION SPACE REQUIRED



WARRANTY (YEARS)

6-10

Model Family	Proline XE Non-Condensing ULN	Proline XE Non-Condensing Concentric Vent	Proline XE Condensing	Proline XE Condensing with Recirc Pump	Proline XE Combi Boiler
Condensing			•	•	•
Non-Condensing	•	•			
Indoor Models	•	•	•	•	•
Outdoor Models	•		•	•	
BTUs	120k-199k	110k-199k	140k-199k	140k-199k	140k-199k
Recirculation Pump - DHW				•	
Recirculation Pump - Hydronic Heating					•
Concentric Venting		•			
Ultra Low Nox	•		•	•	•
ENERGY STAR® Qualified			•	•	•

Hot Water Output, Cost of Operation, & Installation Space Required estimated based on typical applications/installations.
For a more custom analysis of unique installations, visit hotwater.com and use our product selector tool.



PROLINE® XE TANKLESS COMBI BOILER



Indoor Installation Only

Ultra-Low NOx Emissions

- Complies with SCAQMD Rule 1146.2 NOx Emission Requirements Of 14 ng/J or 20 PPM

Modulating burner with 10:1 turndown ratio

- Continuously adjusts the firing rate to match demand for maximum comfort and system efficiency

Electronic User Interface

- User-friendly electronic interface allows easy control of temperature, system setting and operating mode
- Advanced diagnostics convey error messages for service purposes

Power Direct Vent Design

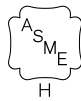
- Two-pipe sealed combustion system uses outside air, eliminating problems caused by insufficient indoor ventilation

Domestic Hot Water flow rate up to 4.8 gpm at 77°F temperature rise

50 PSI max pressure (boiler); 150 PSI max pressure (DHW)

Warranty

- 10-year limited warranty on heat exchanger in residential applications
- 5-year warranty on all parts
- Refer to hotwater.com for further warranty details



ANSI Z21.13 • CSA 4.9

Model Number*	Gas Consumption Input		Minimum in. W.C.†	Maximum in. W.C.	AFUE%	Heating Capacity BTU/H	Net AHRI Rating BTU/H	GPM at 77°F Rise	Water Connections		Gas Connection	Approx. Shipping Weight (lbs)
	Minimum BTU/H	Maximum BTU/H							Space Heating	DHW		
ACB-110S-N	11,000	110,000	4.0	14.0	95.0	102,000	89,000	2.6	1" NPT	3/4" NPT	1/2" NPT	139
ACB-150S-N	15,000	150,000	4.0	14.0	95.0	139,000	121,000	3.6	1" NPT	3/4" NPT	1/2" NPT	142
ACB-199S-N	19,999	199,999	4.0	14.0	95.0	185,000	161,000	4.8	1" NPT	3/4" NPT	1/2" NPT	159

*S Models can operate up to 4,500'. For high altitude (3,000' - 9,600'), change S to H. For liquid propane (LP), change N to P.

†For LP, minimum supply pressure is 8.0 in. W.C.

Indoor installation only.

PROLINE® XE
— BEST —

PROLINE® XE CONDENSING WITH RECIRCULATION PUMP

PROLINE® XE
BEST



OUTDOOR
MODEL

INDOOR MODEL



ANSI Z21.10.3

CSA 4.3

Integrated Recirculation Pump

- 1/2" pipe - 200'
- 3/4" pipe - 500'

Pump Controls

- Included with heater
- Two timer settings
- Adjustable differential settings

ENERGY STAR® Qualified

Ultra-Low NOx Emissions

- Complies with SCAQMD 1146.2 NOx emission requirements of 14 ng/J or 20 PPM

Indoor Models

- Include integrated temperature and pump controls with advanced diagnostics that simplify installation and troubleshooting
- Factory-installed power cord

Outdoor Models

- Includes a wall mount temperature remote controller and advanced diagnostics to simplify troubleshooting

Common Vent Indoor Models

Easy-Link 540P with Three Other 540H to Increase Flow Rate

Safety Features

- Air-Fuel Ratio (AFR) Sensor
- Exhaust & Water Temperature Safety Control
- Overheat Cut-Off Fuse

Internal Freeze Protection

Warranty

- 15-year limited warranty on heat exchanger in residential applications
- 6-year limited warranty on heat exchanger in commercial applications
- 5-year warranty on all parts

Model Number*	Type	Gas Consumption Input		Inlet Gas Pressure***		Indoor Model UEF	Outdoor Model UEF	Connections		Sizing Chart (Number of Showers)		Clearances (in.)				Approx Shipping Weight (lbs)
		Minimum** (BTU/H)	Maximum (BTU/H)	Minimum (in. W.C.)	Maximum (in. W.C.)			Water	Gas	Cold Climate†	Warm Climate‡	Top	Bottom	Side	Front	
ATI-540P-N	Natural	15,000	199,000	4.0	10.5	0.93	0.95	3/4" NPT	3/4" NPT	3	4.5	12	12	3	4	71

* For outdoor models, change "ATI" to "ATO". For propane models, change "N" to "P"

** For propane models, minimum is 13,000

*** For propane models, minimum inlet gas pressure is 8.0 in. W.C. and maximum inlet gas pressure is 14.0 in. W.C.

† Cold climate represents 70°F temperature rise

‡ Warm climate represents 50°F temperature rise

PROLINE® XE CONDENSING HIGH EFFICIENCY

PROLINE® XE
BEST



140 OUTDOOR MODEL 140 INDOOR MODEL



240 OUTDOOR MODEL 240 INDOOR MODEL



ANSI Z21.10.3 CSA 4.3

ENERGY STAR® Qualified

Condensing Technology Provides Up to 0.95 UEF

Ultra-Low NOx Emissions

- Complies with SCAQMD Rule 1146.2 NOx Emission Requirements Of 14 ng/J or 20 PPM

Heat Exchanger

- Primary heat exchanger of the ATI/ATO-540 is constructed of a commercial-grade copper that is more resilient to erosion
- Copper is 25x better at heat transfer than stainless steel thus stabilizing outgoing water temperature quicker and reducing pressure drop across the heat exchanger
- Secondary heat exchanger is made of marine-grade 316L stainless steel to protect against corrosion

Maximum Flow Rates up to 10.0 GPM

Indoor Models

- Include integrated temperature controls with advanced diagnostics to simplify installation and troubleshooting
- Include factory-installed power cord

Outdoor Models

- Include a wall mount temperature remote controller and advanced diagnostics to simplify troubleshooting

Safety Features

- Air-Fuel Ratio (AFR) Sensor
- Exhaust & Water Temperature Safety Control
- Overheat Cut-off Fuse

Internal Freeze Protection System

Power Vent or Power Direct Vent Design

Warranty

- 15-year limited warranty on heat exchanger in residential applications
- 6-year limited warranty on heat exchanger in commercial applications
- 5-year limited warranty on all parts

Model Number*	Type	Gas Consumption Input		Inlet Gas Pressure***		Indoor Model UEF	Outdoor Model UEF	Connections		Sizing Chart (Number of Showers)		Clearances (in.)				Approx Shipping Weight (lbs)
		Minimum** (BTU/H)	Maximum (BTU/H)	Minimum (in. W.C.)	Maximum (in. W.C.)			Water	Gas	Cold Climate†	Warm Climate‡	Top	Bottom	Side	Front	
ATI-140H-N	Natural	15,000	120,000	4.0	10.5	0.90	0.91	3/4" NPT	1/2" NPT	1.5	2.5	12	12	3	4	54
ATI-240H-N	Natural	15,000	160,000	4.0	10.5	0.94	0.95	3/4" NPT	3/4" NPT	3.5	3.5	12	12	3	4	71
ATI-340H-N	Natural	15,000	180,000	4.0	10.5	0.95	0.94	3/4" NPT	3/4" NPT	4	4	12	12	3	4	71
ATI-540H-N	Natural	15,000	199,000	4.0	10.5	0.93	0.95	3/4" NPT	3/4" NPT	4.5	4.5	12	12	3	4	71

*For outdoor models, change "ATI" to "ATO". For propane models, change "N" to "P"

**For propane models, minimum is 13,000

***For propane models, minimum inlet gas pressure is 8.0 in. W.C. and maximum inlet gas pressure is 14.0 in. W.C.

† Cold climate represents 70°F temperature rise

‡ Warm climate represents 50°F temperature rise

PROLINE® XE NON-CONDENSING ULTRA-LOW NOx

PROLINE® XE
— BEST —



OUTDOOR
MODEL

INDOOR MODEL



510U Models



ANSI Z21.10.3

Ultra-Low NOx Emissions

- Complies with SCAQMD Rule 1146.2 NOx emission requirements of 14 ng/J or 20 PPM

Field Convertible from Natural Gas to Propane

Maximum Flow Rates Up To 10.0 GPM

Copper Primary Heat Exchanger

- Primary heat exchange of the ATI/ATO-510U is constructed of a commercial-grade copper that is more resilient to erosion
- Copper is 25x better at heat transfer than stainless steel thus stabilizing outgoing water temperatures quicker and reducing pressure drop across the heat exchanger indoor and outdoor models available

Indoor Models

- Include integrated temperature controls with advanced diagnostics to simplify installation and troubleshooting
- Include factory-installed power cord

Outdoor Models

- Include wall mount remote control with advanced diagnostics to simplify installation and troubleshooting

ATI-510U / ATO-510U Can Be Used in Both Residential and Commercial Applications

- Easy-Link Up To 4 Units
- Multi-Link Up to 20 Units

Safety Features

- Air-fuel ratio (AFR) Sensor
- Exhaust & Water Temperature Safety Control
- Overheat cut-off fuse

Internal Freeze Protection

Power Vent or Power Direct Vent Design

Warranty

- 15-year limited warranty on heat exchanger in residential applications
- 6-year limited warranty on heat exchanger in commercial applications
- 5-year limited warranty on all parts

Model Number*	Type	Gas Consumption Input		Inlet Gas Pressure**		UEF	Connections		Sizing Chart (Number of Showers)		Clearances (in.)				Approx Shipping Weight (lbs)
		Minimum (BTU/H)	Maximum (BTU/H)	Minimum (in. W.C.)	Maximum (in. W.C.)		Water	Gas	Cold Climate†	Warm Climate‡	Top	Bottom	Side	Front	
ATI-110U-200	Natural	15,000	140,000	4.0	10.5	0.81	3/4" NPT	3/4" NPT	1.5	2.5	12	12	3	4	39
ATI-310U-200	Natural	15,000	190,000	4.0	10.5	0.81	3/4" NPT	3/4" NPT	2.5	3.5	12	12	3	4	39
ATI-510U-200	Natural	15,000	199,000	4.0	10.5	0.81	3/4" NPT	3/4" NPT	2.5	3.5	12	12	3	4	40

*For outdoor models, change "ATI" to "ATO". Units are field convertible from natural gas to propane with supplied conversion kit.

**For propane models, minimum inlet gas pressure is 8.0 in. W.C. and maximum inlet gas pressure is 14.0 in. W.C.

† Cold climate represents 70°F temperature rise

‡ Warm climate represents 50°F temperature rise

PROLINE® XE NON-CONDENSING CONCENTRIC VENT



510c Models
only



ANSI Z21.10.3

Concentric Vent Design

- Power direct vent
- Vertical or horizontal venting up to 43'

Field Convertible from Natural Gas to Propane

Ultra-Low NOx Emissions

- Complies with SCAQMD Rule 1146.2 NOx emission requirements of 14 ng/J or 20 PPM

Maximum Flow Rates up to 10.0 GPM

Primary Heat Exchanger

- Primary heat exchanger of the ATI-510C is constructed of a commercial-grade copper that is more resilient to erosion
- Copper is 25x better at heat transfer than stainless steel thus stabilizing outgoing water temperatures quicker and reducing pressure drop across the heat exchanger

Indoor Models Only

- Include integrated temperature controls and advanced diagnostics to simplify troubleshooting
- Include factory-installed power cords

ATI-510C Can be Used in Both Residential and Commercial Applications

- Easy-Link up to 4 units
- Multi-Link up to 20 units

Safety Features

- Air-Fuel Ratio (AFT) sensor
- Exhaust and water temperature safety control
- Overheat cut-off fuse

Internal Freeze Protection

Warranty

- 15-year limited warranty on heat exchanger in residential applications
- 6-year limited warranty on heat exchanger in commercial applications
- 5-year limited warranty on all parts

Model Number*	Gas Consumption Input		Inlet Gas Pressure**		UEF	Connections		Sizing Chart (Number of Showers)		Clearances (in.)				Approx Shipping Weight (lbs)
	Minimum (BTU/H)	Maximum (BTU/H)	Minimum (in. W.C.)	Maximum (in. W.C.)		Water	Gas	Cold Climate†	Warm Climate‡	Top	Bottom	Side	Front	
ATI-110C-N	15,000	140,000	4.0	10.5	0.81	3/4" NPT	3/4" NPT	1.5	2.5	12	12	3	4	55
ATI-310C-N	15,000	190,000	4.0	10.5	0.81	3/4" NPT	3/4" NPT	2.5	3.5	12	12	3	4	55
ATI-510C-N	15,000	199,000	4.0	10.5	0.81	3/4" NPT	3/4" NPT	2.5	3.5	12	12	3	4	55

*Indoor models only. Units are field convertible from natural gas to propane with supplied conversion kit.

**For propane models, minimum inlet gas pressure is 8.0 in. W.C. and maximum inlet gas pressure is 14.0 in. W.C.

† Cold climate represents 70°F temperature rise

‡ Warm climate represents 50°F temperature rise



RESIDENTIAL ELECTRIC WATER HEATERS

PREMIUM FEATURES. COMMERCIAL-GRADE COMPONENTS.

PREMIUM FEATURES:



OPERATING COST	\$\$\$	\$\$	\$
INSTALLATION SPACE REQUIRED	■ to ■ ■	■ ■	■ ■ ■
WARRANTY (YEARS)	6	8	6-10
Blue Diamond® Glass Coating	•	•	•
DynaClean™ Automatic Sediment-Cleaning System	•	•	•
Heat Trap Nipples	•	•	•
Enhanced Flow Brass Drain Valve	•	•	•
CoreGard™ Advanced Anode Rod Protection	•	•	•
ENERGY STAR® Qualified*			•
Electronic User Interface*			•
Industry Leading Efficiency*			•

*Select Heat Pump Water Heater models only.
Hot Water Output, Cost of Operation, & Installation Space Required estimated based on typical applications/installations.
For a more custom analysis of unique installations, visit hotwater.com and use our product selector tool.



VOLTEX® HYBRID ELECTRIC HEAT PUMP



Increased Energy Efficiency

- Reduce water heating costs up to 73% compared to a standard electric water heater.
- Up to a 3.45 Uniform Energy Factor (UEF) conserves energy and meets ENERGY STAR® qualifications

Electronic User Interface

- User-friendly electronic interface allows easy control of temperature setting, operating mode, and communicates diagnostics
- Advanced diagnostics convey error messages for service purposes. The last four error messages are saved in the control system memory.
- Smart grid connectivity options available to meet California Title 24-JA13 and utility demand response programs.

Choice of Operating Modes

- Select from Efficiency, Hybrid, or Electric modes to match heating requirements to environmental conditions and hot water demand
- Hybrid mode offers the best combination of efficiency and hot water delivery by primarily using the heat pump and only using the backup elements when needed
- Vacation mode reduces operating costs and provides freeze protection during extended absence. Programmable up to 99 days to have hot water available when you return.

Backup Electric Elements

- Long-lasting backup heating elements provide faster recovery during periods of high hot water use

Dry Fire Protection

- Control system ensures the tank is full of water during start up to prevent damage

Dual Voltage Capable

- 208/240 VAC 60Hz capable for use in almost any residential installation

Other Features

- Ideal for basements or garage installations; the compressor transfers heat to the water while dehumidifying and cooling the ambient air
- Washable air filter is easily removed for routine cleaning
- Optional air duct adapter kit (part 100234320) is available for confined space installations

10-Year Limited Warranty

- For complete information, consult written warranty or go to hotwater.com



Model Number	Nominal Capacity	Rated Storage Volume	UEF	First Hour Rating (Gallons)	Dimensions in Inches			Approx. Shipping Weight (lbs)
					Height to Top of Tank	Height to T&P	Diameter	
HPTU-50N	50	46	3.45	66	63	40-5/8	22	196
HPTU-66N	66	67	3.45	79	61	38	27	289
HPTU-80N	80	82	3.45	86	69	46	27	307

Requires 30 amp breaker.

Top T&P option not available on this model.



VOLTEX® HYBRID ELECTRIC HEAT PUMP



Increased Energy Efficiency

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- Control system ensures the tank is full of water during start up to prevent damage

Dual Voltage Capable

- 208/240 VAC 60Hz capable for use in almost any residential installation

Other Features

- Ideal for basements or garage installations; the compressor transfers heat to the water while dehumidifying and cooling the ambient air
- Washable air filter is easily removed for routine cleaning
- Optional air duct adapter kit (part 100234320) is available for confined space installations

6-Year Limited Warranty

- For complete information, consult written warranty or go to hotwater.com

Model Number	Nominal Capacity	Rated Storage Volume	UEF	First Hour Rating (Gallons)	Dimensions in Inches			Approx. Shipping Weight (lbs)
					Height to Top of Tank	Height to T&P	Diameter	
FPTU-50	50	46	3.42	66	63	40-5/8	22	196
FPTU-66	66	67	3.35	79	61	38	27	289
FPTU-80	80	82	3.45	84	69	46	27	307

Requires 30 amp breaker.
Top T&P option not available on this model.

PROLINE® MASTER ATMOSPHERIC VENT



Intelligent Control Logic*

- *Not available on 60,000 BTU input models (GCRX-50 and GCRX-55)

Dynaclean™ Diffuser Dip Tube

Coregard™ Anode Rod

- Increased anode protection with either longer or multiple anodes depending on model

Push-Button Piezo Ignitor

Enhanced-Flow Brass Drain Valve

Heat Trap Nipple

Blue Diamond® Glass Coating

Code Compliance

- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended

Design-Certified By CSA International

- Certified at 300 psi test pressure and 150 psi working pressure. Listed according to ANSI Z21.10.1-CSA 4.1 standards governing storage tank-type gas water heaters.

8-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



Model Number	Nominal Gallon Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	BTU Input Natural Gas	BTU Input Propane Gas	Recovery 90°F Rise Gallon Per Hour	Dimensions in Inches				Approx. Shipping Weight (lbs)
								Height to Top of Draft Hood	Height to Top of Tank	Diameter	Draft Hood	
Tall Models												
HWR 40	40	38	80	0.66	40,000	36,000	42	61-3/4	58-1/4	20	3 or 4	138
HWG 50	50	48	81	0.62	40,000	37,000	41	60-3/4	57-1/4	21	3 or 4	148
HWR 50	50	48	84	0.62	40,000	37,000	43	60-3/4	57-1/4	22	3 or 4	165
HWRT 50*	50	48	89	0.61	50,000	45,000	54	60-3/4	57-1/4	22	4	165
HWRX 55*	55	55	83	0.62	60,000	54,000	65	59-3/4	55-1/4	24	4	185
Short Models												
HWRL 40	40	38	67	0.59	40,000	36,000	41	51-1/2	48	22	3 or 4	135
HWRL 50	50	50	81	0.62	40,000	40,000	43	53-1/4	49-3/4	24	3 or 4	177

Water connection is 3/4" on all models.

All models approved for installation from sea level to 10,100 ft. elevation.

Specify when ordering propane (LP) gas.

*For optional side-mounted recirculating taps, add "L" to the suffix in the model number.

PROLINE® MASTER
— BETTER —

PROLINE® MASTER ULTRA-LOW NOx



Intelligent Control Logic

High Uniform Energy Factor (UEF)

- Eco-Friendly non-CFC foam insulation, external heat traps and specially designed combustion chamber combine to produce a high UEF for maximum savings on operating costs

Green Choice® Gas Burner

- Enhanced Ultra-Low NOx burner complies with SCAQMD Rule 1121 and other air quality management districts with similar requirements for NOx emissions of less than 10 ng/l

Dynaclean™ Diffuser Dip Tube

Coregard™ Anode Rod

- Increased anode protection with either longer or multiple anodes depending on model

Push-Button Piezo Ignitor

Heat Trap Nipples

Blue Diamond® Glass Coating

Enhanced-Flow Brass Drain Valve

Code Compliance

- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended

CSA Certified by CSA International

Design-Certified by CSA International

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to ANSI Z21.10.1-CSA 4.1 standards governing storage tank-type gas water heaters

8-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com

Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	BTU Input Natural Gas	Recovery @ 90°F Rise Gallon Per Hour	Dimensions in Inches				Approx. Shipping Weight (lbs)
							Height to Top of Draft Hood	Height to Top of Tank	Diameter	Draft Hood	
Tall Models											
HUC-40	40	38	72	0.55	40,000	41	62	58-1/4	18	3 or 4	125
HUR-40	40	38	81	0.64	40,000	41	62	58-1/4	20	3 or 4	125
HUC-50	50	48	84	0.61	40,000	42	60-3/4	57-1/4	20	3 or 4	148
HUR-50	50	48	84	0.64	40,000	42	60-3/4	57-1/4	22	3 or 4	148
HURT-50L*	50	48	91	0.60	50,000	51	61	57-1/2	22	4	177
Short Models											
HURL-40	40	38	72	0.57	40,000	41	51-1/2	47-3/4	22	3 or 4	138

All models may be ordered from the factory with top T&P.

Side loop connections are standard on model (HURT-50L).

Most models approved for installation from sea level to 7,700 ft. elevation (except on HURT-50L which is approved to 5,400 ft.).

PROLINE® MASTER STANDARD ELECTRIC



Enhanced Heating Elements

- Dual 4500 watt elements for fast recovery and reliable operation
- Incoloy stainless steel upper and lower elements lasts longer than standard copper elements

Dynaclean™ Diffuser Dip Tube

Coregard™ Anode Rod

- Increased anode protection with either longer or multiple anodes depending on model

Long Lasting Stainless Steel Upper and Lower Elements

Blue Diamond® Glass Coating

Enhanced-Flow Brass Drain Valve

Code Compliance

- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended

Approved for Manufactured Housing

- All residential electric water heaters are compliant with HUD standards for mobile homes/ manufactured housing

Design-Listed by Underwriters Laboratories

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to UL 174 standards governing storage tank-type electric water heaters

8-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com

PROLINE® MASTER
BETTER

Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Recovery @ 90 F Rise Gallon Per Hour	Element Wattage 240V		Dimensions in Inches			Approx. Shipping Weight (lbs)
						Standard	Maximum	Height to Top of Tank	Height to T&P	Diameter	
Tall Models											
HNT-40	40	36	53	0.92	21	4500	6000	61-1/4	53-1/4	18	118
HNT-50	50	46	62	0.92	21	4500	6000	60-1/2	51-1/4	20-1/2	125
HNT-55	55	55	72	0.93	21	4500	6000	56-1/2	48-1/2	24	145
Short Models											
HNS-40	40	37	55	0.92	21	4500	6000	50	40-3/4	20-1/2	109
HNS-50	50	46	57	0.92	21	4500	6000	49-3/4	40-3/8	23	161

Male 3/4" water connections on 8" center.
Standard wattage, other options available.

PROLINE® ATMOSPHERIC VENT



Dynaclean™ Diffuser Dip Tube

Coregard™ Anode Rod

Push-Button Piezo Ignitor

Enhanced-Flow Brass Drain Valve

Heat Trap Nipple

Blue Diamond® Glass Coating

Code Compliance

- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended

Design-Certified By CSA International

- Certified at 300 psi test pressure and 150 psi working pressure. Listed according to ANSI Z21.10.1-CSA 4.1 standards governing storage tank-type gas water heaters

6-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



Model Number	Nominal Gallon Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	BTU Input Natural Gas	BTU Input Propane Gas	Recovery 90°F Rise Gallon Per Hour	Dimensions in Inches				Approx. Shipping Weight (lbs)
								Height to Top of Draft Hood	Height to Top of Tank	Diameter	Draft Hood	
Tall Models												
†GCB-30R	30	29	62	0.60	32,000	29,000	32	60 1/2	57	16	3 or 4	123
GCR-30R	30	29	62	0.60	32,000	29,000	31	60 1/2	57	18	3 or 4	132
‡GCRH-40	40	38	65	0.61	35,500	N/A	38	61-3/4	58-1/4	20	3 or 4	138
†GCB-40	40	38	78	0.65	40,000	36,000	42	61-3/4	58-1/4	18	3 or 4	130
GCR-40*	40	38	80	0.66	40,000	36,000	42	61-3/4	58-1/4	20	3 or 4	138
GCG-50*	50	48	81	0.62	40,000	37,000	41	60-3/4	57-1/4	21	3 or 4	148
GCR-50*	50	48	84	0.62	40,000	37,000	43	60-3/4	57-1/4	22	3 or 4	165
GCR-50*	50	48	89	0.61	50,000	45,000	54	60-3/4	57-1/4	22	4	165
†GCRX-50*	50	49	99	0.61	60,000	54,000	65	65-1/2	61	22	4	182
GCRX-55*	55	55	83	0.62	60,000	54,000	65	59-3/4	55-1/4	24	4	185
Short Models												
†GCB-30R	30	29	65	0.60	32,000	29,000	32	50 1/4	46 3/4	18	3 or 4	114
GCR-30R	30	29	55	0.60	32,000	29,000	32	50 1/4	46 3/4	20	3 or 4	108
†GCB-40	40	38	68	0.57	40,000	36,000	41	51-1/2	48	20	3 or 4	134
GCR-40	40	38	67	0.59	40,000	36,000	41	51-1/2	48	22	3 or 4	135
GCR-50	50	50	81	0.62	40,000	40,000	43	53-1/4	49-3/4	24	3 or 4	177

Water connection is 3/4" on all models.

*For optional side-mounted recirculating taps, add "L" to the suffix (example: GCR-40L).

† Models ship with supplied insulation blanket.

For 10-year tank and 10-year parts warranty, change "G" to "X" in model number (example: XCR-40).

‡ LP models not available on GCRH-40.

All models approved for installation from sea level to 10,100 ft. elevation.

PROLINE® ULTRA-LOW NOx



Intelligent Control Logic

- The electronic gas control incorporates an LED status indicator that monitors system operation and service diagnostics

High Uniform Energy Factors (UEF)

- Eco-Friendly non-CFC foam insulation, external heat traps and specially designed combustion chamber combine to produce a high UEF for maximum savings on operating costs

Green Choice® Gas Burner

- Enhanced Ultra-Low NOx burner complies with SCAQMD Rule 1121 and other air quality management districts with similar requirements for NOx emissions of less than 10 ng/J

Dynaclean™ Diffuser Dip Tube

Coregard™ Anode Rod

Push-Button Piezo Ignitor

Heat Trap Nipples

Blue Diamond® Glass Coating

Enhanced-Flow Brass Drain Valve

Code Compliance

- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended

CSA Certified by CSA International

Design-Certified by CSA International

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to ANSI Z21.10.1-CSA 4.1 standards governing storage tank-type gas water heaters

6-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	BTU Input Natural Gas	Recovery @ 90°F Rise Gallon Per Hour	Dimensions in Inches				Approx. Shipping Weight (lbs)
							Height to Top of Draft Hood	Height to Top of Tank	Diameter	Draft Hood	
Tall Models											
GUC-30	30	29	62	0.59	33,000	34	61-3/4	58	16	3 or 4	126
GUC-40	40	38	72	0.55	40,000	41	62	58-1/4	18	3 or 4	125
GUR-40	40	38	81	0.64	40,000	41	62	58-1/4	20	3 or 4	125
GUC-50	50	48	84	0.61	40,000	42	60-3/4	57-1/4	20	3 or 4	148
GUR-50	50	48	84	0.64	40,000	42	60-3/4	57-1/4	22	3 or 4	148
GURT-50L*	50	48	91	0.60	50,000	51	61	57-1/2	22	4	177
Short Models											
GURL-40	40	38	72	0.57	40,000	41	51-1/2	47-3/4	22	3 or 4	138

All models may be ordered from the factory with top T&P.

Side loop connections are standard on model (GURT-50L).

Most models approved for installation from sea level to 7,700 ft. elevation (except on GURT-50L which is approved to 5,400 ft.).

PROLINE® STANDARD ELECTRIC



Enhanced Heating Elements

- Dual 4500 watt elements for fast recovery and reliable operation
- Incoloy stainless steel lower element lasts longer than standard copper element

Dynaclean™ Diffuser Dip Tube

Coregard™ Anode Rod

Blue Diamond® Glass Coating

Enhanced-Flow Brass Drain Valve

Code Compliance

- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended

Approved for Manufactured Housing

- All residential electric water heaters are compliant with HUD standards for mobile homes/manufactured housing

Design-Listed by Underwriters Laboratories

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to UL 174 standards governing storage tank-type electric water heaters

6-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Recovery @ 90°F Rise Gallon Per Hour	Element Wattage 240V		Dimensions in Inches			Approx. Shipping Weight (lbs)
						Standard	Maximum	Height to Top of Tank	Height to T&P	Diameter	
Tall Models											
ENT-30†	30	27	48	0.89	21	4500	6000	46-1/2	39-1/2	19	95
ENT-40†	40	36	53	0.92	21	4500	6000	61-1/4	53-1/4	18	118
ENT-50†	50	46	62	0.92	21	4500	6000	60-1/2	51-1/4	20-1/2	125
ENT-55†	55	55	72	0.93	21	4500	6000	56-1/2	48-1/2	24	145
Short Models											
ENSB-30*	30	27	50	0.90	21	4500	6000	39	30-1/2	20	95
ENS-30†	30	27	47	0.89	21	4500	6000	39-3/4	30-1/2	22	94
ENS-40†	40	37	55	0.92	21	4500	6000	49-3/4	40-3/4	20-1/2	109
ENS-50†	50	46	57	0.92	21	4500	6000	49-1/4	40-3/8	23	161
Lowboy Top Connect Models											
ENLB-30*†	28	26	46	0.89	21	4500	6000	30	21-3/4	20	90
ENL-30†	28	26	46	0.90	21	4500	6000	30	21-3/4	22	115
ENL-36†	36	33	51	0.92	21	4500	6000	32	24	24	118
ENL-40†	38	35	49	0.89	21	4500	6000	33 1/2	24	26	118
ENLB-40*†	38	35	47	0.93	21	4500	6000	32	24	23	118
ENLB-50*†	48	44	60	0.93	21	4500	6000	34	25	26-1/2	172
ENL-50†	51	48	54	0.92	21	4500	6000	36	25	26-1/2	172

* Models ship with supplied insulation blanket. | † For 10-year tank and 10-year parts warranty, change "E" to "P" in the model number (example: ENT-30 becomes PNT).

3/4" water connections on 8" center. | ENL-20 is a single element configuration only.

Top T&P is not available on the 10 year lowboy models.

PROLINE® 80 GALLON ELECTRIC



Electronic Thermostat

- Provides precise temperature control with enhanced sensing for increased comfort and faster water heating response (Max set point 150°F)
- Element "Dry-Fire" protection safeguards the element from damage if the tank is not filled with water on startup
- Diagnostic (dual color) LED light flashes green for normal operation and red fault codes for easy service diagnostics

Energy Efficient

- Eco-friendly non-CFC foam insulation, heat traps and other features combine to yield a high Uniform Energy Factor to maximize savings

Dynaclean™ Diffuser Dip Tube

- Helps reduce lime and sediment buildup and maximizes hot water output. Made from long-lasting PEX cross-linked polymer.

Coregard™ Anode Rod

- Our anode rods have a stainless steel core that extends the life of the anode rod allowing superior tank protection far longer than standard anode rods

Blue Diamond® Glass Coating

Enhanced-Flow Brass Drain Valve

Code Compliance

- Meets UBC, CEC and HUD National Codes.
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended

CSA Certified And ASME Rated T&P Relief Valve

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to UL 174 standards governing storage tank-type electric water heaters

6 & 10-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Recovery @ 90°F Rise Gallon Per Hour	Element Wattage 240V		Dimensions in Inches			Approx. Shipping Weight (lbs)
						Standard	Maximum	Height to Top of Tank	Height to T&P	Diameter	
High Capacity 6-Year Warranty Model											
EGR-80	80	78	80	0.93	21	4500	5500	64-1/2	56	26	198
High Capacity 10-Year Warranty Model											
PGR-80	80	78	80	0.93	21	4500	5500	64-1/2	56	26	198

3/4" water connections on 8" center.

Only available for 240V or 208V applications.

208V is only available with 4,500 watt elements.

Equipped as dual element only, no single element configurations available.

Minimum wattage available is 4,500 watt elements.

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

PROLINE® DIRECT VENT



Direct Vent Design

- One-pipe, dual-channel closed system draws all make-up air from outside the home, eliminating problems caused by insufficient indoor ventilation and is FVIR compliant
- Horizontal air intake and venting on all models up to 80 inches from outside wall with no electrical power needed

Intelligent Control Logic

Green Choice® Gas Burner

- Patented eco-friendly burner design reduces NOx emissions by up to 33% and complies with Low-NOx emission requirements of less than 40 ng/J

Dynaclean™ Diffuser Dip Tube

Coregard™ Andode Rod

Push Button Piezo Ignitor

Heat Trap Nipples

Code Compliance

- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended

Design-Certified by CSA International

- Certified at 300 psi test pressure and 150 psi working pressure. Listed according to ANSI Z21.10.1-CSA 4.1 standards governing storage tank-type gas water heaters

6-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Input BTU Per Hour	Recovery 90°F Rise Gallon Per Hour	Dimensions in Inches				Approx. Shipping Weight (lbs)
							Height to Top of Draft Hood	Height to Top of Tank	Diameter	Vent Outlet	
GDV-40	40	39	64	0.60	38,000	41	64	49-3/4	22	Co-Axial	178
GDV-50	50	48	77	0.66	40,000	43	73	59	22	Co-Axial	200
GDVT-50	50	48	83	0.65	47,000	51	74	60	22	Co-Axial	215

Dual-channel system has 3" vent pipe inside 6" air intake pipe, for the 40 and 50-gallon models.

All models have 2" foam cavity.

Water connection is 3/4" male on all models.

40 and 50 gallon models are 8" on center.

*Allow 29-1/2" for front to back dimension for gas control and air intake pipe at the rear of the heater.

All models are available in propane (LP) gas (series 301).

All models are certified from sea level to 7,700 ft. elevation.

All models available with side connections. Add "L" to the model number, example GDV-40L.

PROLINE® ULTRA-LOW NOx DIRECT VENT



Flammable Vapor Resistant/Direct Vent Sealed Combustion System

Durable, Ultra-Low NOx Burner Construction

Non-CFC Foam Insulation

- The tank is surrounded by a thick coat of non-CFC polyurethane foam to trap heat inside the tank, saving energy

3/4" Top Water Connections and Side Space Heating Connections

1/2" Gas Connection

Coregard™ Anode Rod

Blue Diamond® Glass Coating

Enhanced-Flow Brass Drain Valve

Green Choice® Gas Burner

- Complies with SCAQMD Rule 1121 and other air quality management districts with similar requirements for NOx emissions of less than 10 ng/J

Code Compliance

- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended
- CSA Certified And ASME Rated T&P Valve

Design-Listed by CSA International

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to ANSI Z21.10-1- CSA 4.1 standards governing storage tank-type gas water heaters

CSA Certified and ASME Rated T&P Relief Valve

6-Year Limited Tank and Parts Warranty

- For complete information, consult written warranty or go to hotwater.com



Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	BTU Input Per Hour	Recovery 90°F Rise Gallon Per Hour	Dimensions in Inches				Approx. Shipping Weight (lbs)
							Height to Top of Draft Hood	Height to Top of Tank	Diameter	Concentric Vent Connection	
GDNL-40L	40	28	52	0.59	36,000	39	65-1/4	50-1/2	22	3 and 5	179
GDNT-50L	50	48	76	0.65	38,000	41	73-1/2	58-1/2	22	3 and 5	193

No option available for top T&P valve.

All models have 3/4" top water connections and come standard with side loop fittings.

All models are certified from sea level to 7,700 ft. elevations.

PROLINE® SPECIALTY



LOWBOY MODEL

COMPACT MODEL



TABLE TOP MODEL

POINT-OF-USE MODEL



Low Lead Content

Lowboy

- Side water connections for applications where hand-room is limited

Table Top

- Features a convenient flat porcelain surface at 36" height, providing extra "counter space" wherever installed. All plumbing and electrical connections are made through the back of the water heater. This heater is equipped with a PEX cross-linked polymer dip tube.

Point-of-Use

- Designed for low-demand, such as office lavatories or buildings with remote restrooms

Compact

- Side-mounted plumbing and electrical connections (optional top-mounted water connections for field conversion). Designed for installation under a counter, in a crawl space or in other tight spaces.

Approved For Manufactured Housing

- All residential electric water heaters are compliant with HUD standards for mobile homes/ manufactured housing

Enhanced-Flow Brass Drain Valve

Code Compliance

- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended

Design-Listed By Underwriters Laboratories

- Certified at 300 psi test pressure and 150 psi working pressure
- Listed according to UL 174 standards governing storage tank-type electric water heaters

6-Year Limited Tank And Parts Warranty

- For complete information, consult written warranty or go to hotwater.com

Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Element Wattage		Recovery @ 90°F Rise Gallons Per Hour	Dimensions in Inches			Approx. Shipping Weight (lbs)	
					Standard	Maximum		A	B	C		
Compact Models					120V	240V						
EJC-6	6	6	N/A	N/A	1650	3000	8	15-1/4	10-3/4	14-1/4	35	
EJC-10	10	9	N/A	N/A	1650	6000	8	18-1/4	12-1/4	16	41	
EJCS-20	19	17	N/A	N/A	2500	6000	11	24-3/4	18-5/8	18	68	
EJCT-20	19.9	18	N/A	N/A	2500	6000	11	31-5/8	25-3/4	16	68	
Lowboy Side-Connect Model					240V							
ENJB-30*	28	26	47	0.90	4500	6000	21	30	21-3/4	22	101	
ENJ-30	28	26	43	0.91	4500	6000	21	31-1/4	21-3/4	24	115	
ENJB-40*	38	35	57	0.94	4500	6000	21	31-3/4	24	24	118	
ENJ-40	38	35	54	0.93	4500	6000	21	33-1/2	24	26	118	
Table Top Model					240V							
ENTT-38	38	35	55	0.90	4500	5500	21	36	24	25	150	
Point-Of-Use-Models					120V							
EMT-2.5	2.5	2.6	N/A	N/A	1440 @ 120v		7	14-1/2	10-3/8	11-3/4	17	
EMT-4	4	3.8	N/A	N/A	1440 @ 120v		7	19-1/4	10-3/8	11-3/4	20	
EMT-6	6	5.9	N/A	N/A	1440 @ 120v		7	20	12-1/2	13-3/4	24	

*Models ship with insulation blanket.

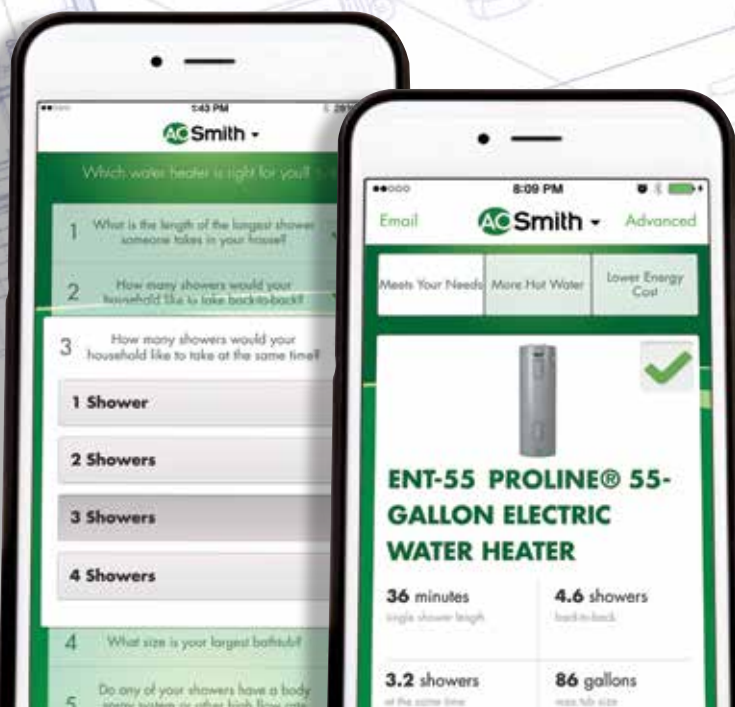
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