

FULL PRODUCT LINE POCKET GUIDE RESIDENTIAL & COMMERCIAL



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The story is all in the details. Every water heater that carries the A. O. Smith name has a reputation to live up to, one that we've earned through 140 years of innovation. As an industry leader, we constantly look for new materials and develop new technologies that can improve energy efficiency. So, when you choose an A. O. Smith water heater, whether it's gas, electric or hybrid you can be confident that you are getting the best water heating solution regardless of the application—for today and for years to come. Innovation has a name...A. O. Smith.



All A. O. Smith residential water heaters meet the Federal Energy Efficiency Standards effective June 4, 2018, according to the National Appliance Energy Conservation Act (NAECA) of 1992, and meet the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IES 90.1. They also comply with the current edition of ICC Codes and the HUD Standards. Gas models meet American National Standards Institute Standards (ANSI Z21.10.1 - CSA 4.1) governing storage-type water heaters. Electric models are UL listed according to safety specifications outlined in Underwriters Laboratories, Inc. Standards for Safety (UL 174).

There's nothing standard about commercial grade.



When it comes to providing durable and reliable hot water, the A. O. Smith ProLine family of products removes the line between what goes in a commercial water heater and a residential unit. We draw from our expertise in commercial water heating, house-made components, and rigorous quality and endurance testing to ensure that your customer's water heater is built to overperform no matter where it's installed.

WHY PROFESSIONALS CHOOSE A. O. SMITH



EARN POINTS BY PURCHASING A. O. SMITH WATER HEATERS

It's free and easy to participate. Enroll online at contractorrewards.com. Eligible products will have a yellow reward code label worth valuable points. Two ways to enter the codes:

- 1. Download the smartphone app and scan the code.
- 2. Enter the code at contractorrewards.com.
- 3. Redeem your points on thousands of reward items.

WITH OVER 1,000,000 MERCHANDISE ITEMS, YOUR REWARD CHOICES ARE ENDLESS.

A. O. SMITH PROVIDES 6 KEY THINGS

TO HELP GROW YOUR BUSINESS & BECOME MORE PROFITABLE



- 1. Contractor Locator: A new online locator that drives thousands of consumers from our website right to our loyal contractors. Your company listing is free and generated for you when you participate in our Contractor Rewards™ program.* Visit hotwater.com/contractorlocator for more information.
- Contractor Rewards Program: Our program rewards our loyal contractors for buying our products. Buy more and get rewarded with prizes and higher status on our Contractor Locator.
- Contractor Advertising Tools: Our Advertising Resource Center allows contractors to develop an easy, affordable and custom advertising campaign to promote their business. Go to hotwatermarketing.com
- 4. Breadth of Product Line: Residential or commercial, we have the most complete line from standard models to the most innovative high efficiency water heaters available.
- **5. Product Sales Tools:** We provide contractors access to the sales tools needed to close more sales.
- **6. Brand Support:** Marketing investment in our brand drives consumers to recognize our name, visit our website, locate local contractors and request products.
- *To be listed on the Contractor Locator you must meet the minimum threshold of codes entered at contractorrewards.com

An in-depth look at the commercial-grade features available in our residential ProLine family

PREMIUM FEATURES:

ProLine®

ProLine® Master

ProLine® XE

Electric Water Heaters







	OPERATING COST INSTALLATION SPACE REQUIRED WARRANTY (YEARS)	\$\$\$ • to • •	\$\${ •••	\$ 10
	Blue Diamond® Glass Lining	•	•	•
Commercial-Grade Components	DynaClean™ Automatic Sediment-Cleaning System	•	•	•
mo	Heat Trap Nipples	•	•	•
rade C	Enhanced Flow Brass Drain Valve	•	•	•
ial-G	CoreGard™ Anode Rod Protection	•	•	•
nmerc	Advanced Anode Protection		•	•
Cor	Stainless Steel Upper Element	•	•	
	Dual Stainless Steel Element		•	
love	Extended Warranty Kit Available	•	•	•*
ners	Electronic User Interface		•*	•
neowi	iCOMM® Remote Connectivity		•*	•
at hor	ENERGY STAR® Qualified			•
Benefits that homeowners love	Industry-Leading Efficiency			•
Bene	Best-In-Class Material and Technology			•

^{*}Some Models Not Eligible

PREMIUM FEATURES: ProLine®

ProLine® Master

ProLine® XE

Gas Water Heaters

OPERATING COST



\$\$\$



\$\$\$



Ś

INSTALLATION SPACE REQUIRED	■ to ■■		
WARRANTY (YEARS)	6	8	10
Blue Diamond® Glass Lining	•	•	•
DynaClean TM Automatic Sediment-Cleaning System	•	•	•
Electronic Gas Valve	•	•	•
Heat Trap Nipples	•	•	•
Enhanced Flow Brass Drain Valve	•	•	•
CoreGard™ Anode Rod Protection	•	•	•
Advanced Anode Protection		•	•
Extended Warranty Kit Available	•	•	•*
ENERGY STAR® Qualified			•*
Electronic User Interfac	е		•
High Efficiency Performance			•
Best-In-Class Material and Technology			•
Industry-Leading Efficiency			•

more Install Options

*Some Models Not Eligible

Flexible Venting for

An in-depth look at the commercial-grade features available in our residential ProLine family

PREMIUM FEATURES:

ProLine® XE

Tankless

Water Heaters

Model Family

OPERATING COST SINSTALLATION

SPACE REQUIRED
WARRANTY (YEARS) 6-10

Proline XE With X3®



Proline XE Non-Condensing

Proline XE Non-Condensing

	Technology	ULN	Concentric Vent
Condensing	•	•	•
Non-Condensing	J	•	•
Indoor Models	•	•	•
Outdoor Models	•	•	
BTUs	160K-190K	140K-199K	140K-199K
X3® Scale Preven Technology	tion		
Concentric Ventir	ng		•
Ultra-Low Nox	•	•	
Energy Star® Qualified	• *		
Model Family	Proline XE Condensing	Proline XE Condensing with Recirc Pump	Proline XE Combi Boiler
Condensing	•	•	•
Indoor Models	•	•	•
Outdoor Models	•	•	
BTUs	120K-199K	199K	110K-199K
Recirculation Pump – DHW		•	
Recirculation Pur HydronicHeating			•
Ultra-Low Nox	•	•	•
Energy Star® Qualified	•*	•*	•
*Some Models Not E	ligible		

TOUGHER



COMPONENTS.

LONGER



PERFORMANCE.

THERE'S NOTHING STANDARD ABOUT OUR COMMERICAL GRADE PROLINE®.

Learn more at hotwater.com



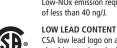
Blue Diamond® Glass Coating

A. O. Smith residential gas and electric water heaters have the toughest protection against corrosion to maximize tank life.

A. O. Smith's Blue Diamond® Glass Coating 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



ENERGY STAR®

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



CSA low lead logo on a plumbing product signifies certification to California's AB1953 and Vermont's legislation Act 193 that limits the lead content in plumbing fixtures that come in contact with drinking water to a maximum of 0.25% lead.



Heat Trap Nipples

Factory-installed for faster installation on most A. O. Smith residential models.



Self-Cleaning Systems on A. O. Smith Residential Models

Automatic self-cleaning action greatly reduces lime and sediment buildup, maximizes hot water output. Made from long-lasting Pex cross-linked polymer.

Our ProLine® XE models come standard with maximum sediment-fighting power and utilize our top-of-the-line Turbo Coil design.



Enhanced-Flow Brass Drain Valve

Our residential water heaters have a solid brass, tamper resistant, enhanced-flow, ball type drain

- 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.



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

RESIDENTIAL GAS-

VERTEX™ HIGH EFFICIENCY POWER VENT















ENERGY STAR® QUALIFIED Condensing Design

- Helical internal heat exchanger keeps hot combustion gases in the tank longer to extract more heat into the water
- High efficiency operation with 0.88 UEF (94% Thermal Efficiency) which saves money on operating costs compared to a standard efficiency gas water heater

Power Vent Design for Installation Versatility

 Power vent using PVC, CPVC, ABS or Polypropylene either thru-the-wall or thru-theroof

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

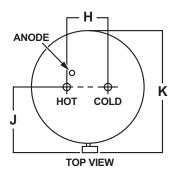
Code Compliance

- Meets IBC 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

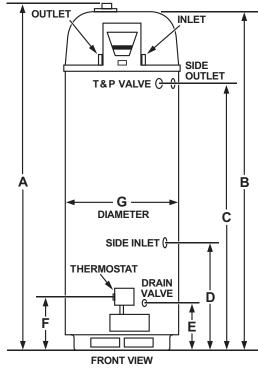
6-Year Limited Tank and Parts Warranty

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

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



* INSTALL IN ACCORDANCE WITH LOCAL CODES



First Recovery @ Rated Model Nominal 90°F Rise **BTU Input** Hour **Thermal** Storage UEF Number Capacity Rating Efficiency Gallon Per Hour Volume Per Hour (Gallons) GPHE-50 50 48 124 0.88 94% 95 76,000

Model		Dimensions in Inches									Approx.
Number	Α	В	С	D	E	F	G	Н	J	K	Shipping Weight (lbs)
GPHE-50	71-1/8	68-5/8	52	21	9-1/8	12	22	8	15-3/4	27	225

Available in natural gas only.

Standard model certified for sea level to 5,300 ft. elevation. Order SMR K30 for elevations to 10,100 ft.

Optional Condensate Neutralizer Kit available (Part Number 100112380).

RESIDENTIAL GAS-

VERTEX™ HIGH EFFICIENCY POWER DIRECT VENT





GDHE-75











ENERGY STAR® QUALIFIED Condensing Design

- Helical internal heat exchanger keeps hot combustion gases in the tank longer to extract more heat into the water
- High efficiency operation with up to 0.88 UEF (96% Thermal Efficiency) which saves money on operating costs compared to a standard efficiency gas water heater

Advanced Electronic Control

- Optional Powered Anode available
- Exclusive A. O. Smith designed touch display control system
- · Precise temperature control
- · Built-in diagnostics and operational information

Power Direct Vent Design

- Power Direct vent using PVC, CPVC or Polypropylene either thru-the-wall or thru-theroof
- Optional concentric vent and low profile termination kits are available

Ultra-Low NOx

 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

Side-Mounted Hot and Cold Recirculating Taps

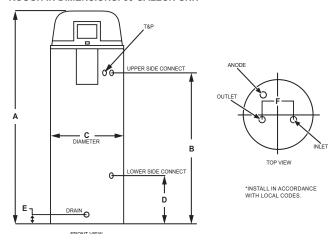
 Hot and cold "side taps" allow Vertex Power Direct Vent to be used for combination space/ water heating applications

Code Compliance

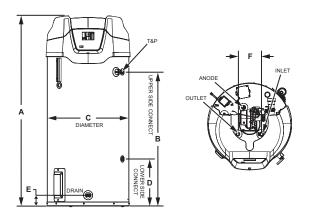
- Meets IBC and ICC National Codes
- Meets the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IES 90.1

6-Year Limited Tank and Parts Warranty

ROUGH IN DIMENSIONS: 50 GALLON UNIT



ROUGH IN DIMENSIONS: 75 GALLON UNIT



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
GDHE-50	50	49	100	0.88	96%	129	100,000
GDHE-75	75	74	130	0.86	96%	129	100,000

	Model	Vent		Dimensions in Inches						
	Number	Size	Α	В	С	D	E	F	Shipping Weight (lbs)	
Ì	GDHE-50	2 or 3	66-3/4	49-1/4	22	15-3/4	3	8	255	
	GDHE-75	2 or 3	65-1/4	45-5/8	27-3/4	16	3-3/4	8	382	

Available in Propane (LP) gas. Specify when ordering propane (LP) gas.

Available with a Powered Anode. Specify when ordering.

Models certified for sea level to 10,100 ft. elevation.

Optional Condensate Neutralizer Kit available (part number 100112380).

RESIDENTIAL GAS -

POLARIS® HIGH EFFICIENCY









ENERGY STAR® QUALIFIED Stainless Steel Construction

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

Condensing Design

- Helical internal heat exchanger keeps hot combustion gases in the tank longer to extract more heat into the water
- High efficiency operation with up to 0.90 UEF (96% Thermal Efficiency) which saves money on operating costs compared to a standard efficiency gas water heater

Power Direct Vent Design

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

Whisper Quiet Operation

• Ultra guiet blower and burner minimize noise

Advanced Electronic Control

- Exclusive A. O. Smith designed touch display control system
- · Precise temperature control
- Built-in diagnostics and operational information

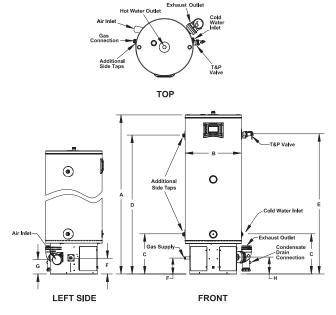
Ultra-Low NOx

 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

Code Compliance

- Meets IBC 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 10-Year Parts Warranty



Model Number	Vent Connection	Nominal Capacity	Storage		UEF	Thermal Efficiency	Recovery @ 90° Rise Gallon Per Hour
GSP-100	2 or 3	34	33	179	0.90	96%	129
GSP-130	2 or 3	34	N/A	N/A	N/A	96%	165
GSP-150	2 or 3	34	N/A	N/A	N/A	94%	190
GTP-130	2 or 3	50	N/A	N/A	N/A	95%	165
GTP-150	2 or 3	50	N/A	N/A	N/A	95%	190
GTP-175	3	50	N/A	N/A	N/A	96%	222
GTP-199	3	50	N/A	N/A	N/A	96%	253

Model	BTU/h Input	Dimens Inc			1" Water Connections		Gas Supply*	Approx. Shipping
Number	Gallon Per Hour	Α	В	С			F	Weight (lbs)
GSP-100	100,000	48-1/2	22	15-3/4	40-1/2	41	6-3/8	150
GSP-130	130,000	48-1/2	22	15-3/4	40-1/2	41	6-3/8	150
GSP-150	150,000	48-1/2	22	15-3/4	40-1/2	41	6-3/8	150
GTP-130	130,000	62-3/8	22	15-3/4	54-1/2	55	6-3/8	176
GTP-150	150,000	63-3/4	22	15-3/4	55-3/4	56-1/4	6-3/8	180
GTP-175	175,000	63-3/4	22	15-3/4	55-3/4	56-1/4	6-3/8	180
GTP-199	199,000	63-3/4	22	15-3/4	55-3/4	56-1/4	6-3/8	180

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

RESIDENTIAL GAS

PROLINE® XE NON-CONDENSING POWER VENT







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

Built-in Heat Traps on the Water Inlet and Outlet Reduce the Amount of Heat Lost Through Piping

User-Friendly

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

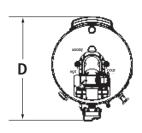
Enhanced-Flow Brass Drain Valve Available in Natural Gas and Propane Code Compliance

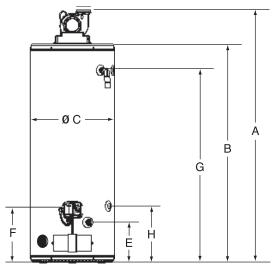
- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation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

Design-Listed by 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





Model Number	Series	Nominal Capacity	Rated Storage Volume	UEF	First Hour Rating (Gallons)	Recovery @ 90°F Rise Gallon Per Hour	Input BTU/h
GPVL-40	200	40	38	0.67	72	45	40,000
GPVT-40	200	40	38	0.70	87	56	50,000
GPVL-50	200	50	49	0.72	79	45	40,000
GPVT-50	200	50	48	0.72	97	56	50,000
GPVX-50L	200	50	50	0.73	119	69	62,000
†GPVX-75L	310	75	72	0.69	116	80	76,000

Model			Di	mension	ıs in	Inches			Approx.
Number	А	В	С	D	Е	F	G	Н	Shipping Weight (lbs)
GPVL-40	59	49-5/8	22	29-1/8	11	13-1/4	42-1/2	N/A	174
GPVT-40	68-1/2	59-1/4	20	27-1/8	11	13-1/4	53-1/8	15-1/4	176
GPVL-50	60-1/8	50-3/4	24	31-1/8	11	13-1/4	43-3/4	N/A	198
GPVT-50	68-1/8	58-3/4	22	29-1/8	11	13-1/4	51-3/4	15-1/4	192
GPVX-50L	61-1/8	52	24	31-1/8	11	13-1/4	44-1/2	15-1/4	212
GPVX-75L	70-5/8	61-1/4	26	33-1/8	11	13-1/4	53	15-1/4	277

Available in propane (LP) gas. Specify when ordering propane (LP) gas.

Side connections are standard on GPVX models.

Side connections available on GPVT models. Add "L" to the model number (example: GPVT-40L).

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

RESIDENTIAL GAS -

PROLINE® XE 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

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

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

Enhanced-Flow Brass Drain Valve

CSA Certified and ASME Rated T&P Relief Valve

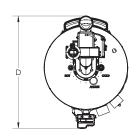
Code Compliance

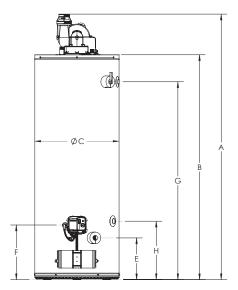
- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation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

Design-Listed by 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





Model Number	Series	Nominal Capacity	Rated Storage Volume	UEF	First Hour Rating (Gallons)	Recovery @ 90°F Rise Gallon Per Hour	Input BTU/h
GPDL-40	200	40	38	0.68	74	45	40,000
GPDT-50	200	50	48	0.72	81	50	45,000
GPDX-50L	200	50	48	0.73	118	73	62,000**
† GPDX-75L	210	75	72	0.68	129	82	76,000

			Dir	nension	s in I	nches			Approx.
Model Number	A	В	С	D	E	F	G	Н	Shipping Weight (lb)
GPDL-40	58-1/4	49-5/8	22	29-7/8	11	13-1/4	42-1/2	15-1/4	174
GPDT-50	67-1/2	58-3/4	22	29-7/8	11	13-1/4	51-3/4	15-1/4	192
GPDX-50L	69	60-1/4	22	29-7/8	11	13-1/4	52-3/4	15-1/4	200
GPDX-75L	70-5/8	61-1/2	26	33-7/8	11	13-1/4	53	15-1/4	277

^{**}Propane model has input of 58,000 BTU/hr.

Available in propane (LP) gas. Specify when ordering propane (LP) gas.

Side connections are standard on GPDX-50L and GPDX-75L.
Side connections available on GPDL-40 and GPDT-50. Add "L" to the model number (example: GDPT-50L).

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

RESIDENTIAL GAS-

PROLINE® XE NON-CONDENSING FLUE DAMPER











Automatic Flue Damper

 Increases efficiency as it automatically opens and closes to reduce heat loss in the standby mode

Flectronic Gas Control

Diagnostics

Electronic Ignition

Dynaclean™ Diffuser Dip Tube

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

CoreGard™ Anode Rod

Enhanced-Flow Brass Drain Valve

Blue Diamond® Glass Coating

CSA Certified And ASME RATED T&P Relief Valve

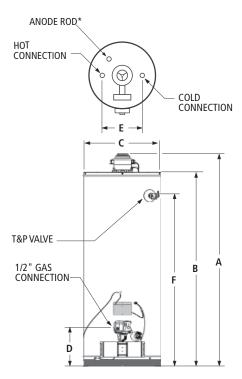
Code Compliance

- 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 water heaters

6-Year Limited Tank and Parts Warranty



^{*} Location for optional top-mounted T&P Valve if ordered from factory.

Maximum Hydrostatic Working Pressure: 150 PSI.

Model Number	Nominal Capacity	Storage	First Hour Rating (Gallons)	UEF	BTU Input Gallon Per Hour Natural*	Recovery @ 90°F Rise Gallon Per Hour	Approx. Shipping Weight (lbs)			
Tall Mode	Tall Models									
GCF-40	40	38	70	0.64	40,000	42	152			
GCF-50	50	48	84	0.69	40,000	42	167			
Short Mod	dels									
GCFL-40	40	38	65	0.66	40,000	42	149			
*GCFL-50	50	49	78	0.69	40,000	42	175			

Model			Di	mensio	ns in Inc	hes		
Number	Foam Thickness	А	В	С	D	Е	F	Draft Hood Outlet
Tall Mode	ls							
GCF-40	2	64-1/4	58-1/4	20	13	8	51-3/4	3 or 4
GCF-50	2	63-1/2	57-1/4	22	13	8	50-1/4	3 or 4
Short Mod	dels							
GCFL-40	2	54	47-3/4	22	13	8	41	3 or 4
*GCFL-50	2	55-3/4	49-1/2	24	13-1/4	8	42-1/2	3 or 4

Requires 120 VAC power supply.

Water connection is 3/4" on all models.

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

^{*}GCFL-50 available in natural gas only. All other models available in propane (LP) gas.

RESIDENTIAL GAS-

PROLINE® XE NON-CONDENSING ULTRA-LOW NOX FLUE DAMPER











Automatic Flue Damper

 Automatic flue damper increases efficiency to provide maximum household annual operating cost savings

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 10ng/J

Electronic Gas Control

DynaClean™ Diffuser Dip Tube

CoreGard[™] Anode Rod

Blue Diamond® Glass Coating

Enhanced-Flow Brass Drain Valve

Requires 120V Power; 19.5 Ft Cord Included

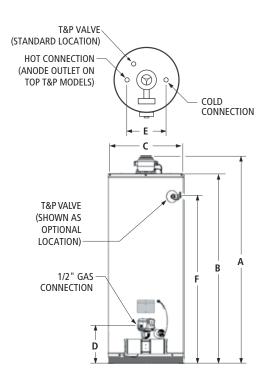
Code Compliance

- Meets UBC, CEC, and HUD (excluding mobile homes) 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 and 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 water heaters

6-Year Limited Tank and Parts Warranty



Maximum Hydrostatic Working Pressure: 150 PSI.

Model Number	Nominal Capacity	Rated Storage Volume	UEF	First Hour Rating (Gallons)	Recovery @ 90F Rise (Gallon/ Hour)	BTU Input Natural Gas	Approx. Shipping Weight
GUF-40	40	38	0.65	68	42	40,000	152
GUF-50	50	48	0.70	83	42	40,000	167

		Dimensions in Inches										
Model Number	А	В	С	D	E	F	Draft Hood Outlet					
GUF-40	64-1/4	58-1/4	20	13	8	51-3/4	3 or 4					
GUF-50	63-1/2	57-1/4	22	13	8	50-1/4	3 or 4					

Requires 120VAC power supply located within 19ft of the heater.

Water connection is 3/4" on all models.

Standard top T&P, specify when ordering side T&P.

All models are certified from sea level to 7,800ft elevation.

RESIDENTIAL GAS -

PROLINE® XE 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

Ouiet 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

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

Enhanced-Flow Brass Drain Valve

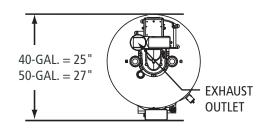
Code Compliance

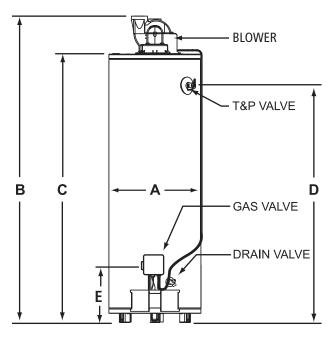
- · Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and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





Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Recovery @ 90°F Rise Gallon Per Hour	BTU Input Gallon Per Hour
GPNH-40	40	38	76	0.70	42.6	42,000
GPNH-50	50	48	71	0.65	42.6	42,000

Model		Dime	nsions in I	nches		Approx.
Number	Α	В	С	D	E	Shipping Weight (lbs)
GPNH-40	20	66-7/8	58-5/8	51-1/2	12-1/4	170
GPNH-50	22	65-7/8	57-7/16	51	12-1/4	207

No option available for top T&P valve.

RESIDENTIAL GAS —— PROLINE® MASTER ATMOSPHERIC VENT











Intelligent Control Logic*

- The internal microprocessor provides enhanced operating parameters and tighter differentials for precise sensing and faster heating response to optimize performance
- Uses a thermopile to generate the power needed to operate the electronic gas control without requiring an external power source
- The electronic gas control incorporates an LED status indicator that monitors system operation and service diagnostics

DynaClean™ Diffuser Dip Tube

CoreGard[™] Anode Rod

 ProLine® Master products have 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

 Blue Diamond[®] Glass Coating blend is formulated in the same lab that creates the protection for our industry-leading commercial product line

Code Compliance

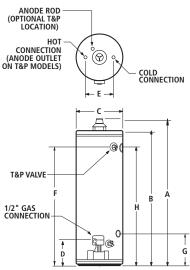
- Meets UBC, CEC and HUD National Codes.
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation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

^{*}Not available on 60,000 BTU input models (HWRT-50 and HWRX-55)



Maximum Hydrostatic Working Pressure: 150 PSI

Model Number	Nominal Capacity	Storage	First Hour Rating Gallon	UEF	BTU Input Natural Gas	BTU Input Propane Gas	Recovery 90°F Rise Gallon Per Hour
Tall Models							
HWR-40	40	38	80	0.64	40,000	36,000	42
HWG-50	50	48	81	0.62	40,000	37,000	41
HWR-50	50	48	84	0.62	40,000	37,000	43
HWRT-50	50	48	89	0.61	50,000	45,000	54
HWRX-55*	55	55	83	0.62	60,000	54,000	65
Short Mode	els						
HWRL-40	40	38	67	0.59	40,000	36,000	41
HWRL-50	50	50	81	0.62	40,000	40,000	43

		Dim	ensions in Inc	hoc					
Model	Difficusions III flicties								
Number	Α	В	С	D	E				
Tall Models									
HWR-40	61-3/4	58-1/4	20	12-1/4	8				
HWG-50	60-3/4	57-1/4	21	12-1/4	8				
HWR-50	60-3/4	57-1/4	22	12-1/4	8				
HWRT-50	60-3/4	57-1/4	22	12-1/4	8				
HWRX-55*	59-3/4	55-1/4	24	13-1/2	8				
Short Models	3								
HWRL-40	51-1/2	48	22	12	8				
HWRL-50	53-1/4	49-3/4	24	12	8				

		Dimension	s in Inchas		
Model Number	F	*G	*H	Draft Hood Outlet	Approx. Shipping Weight (lbs)
Tall Models					
HWR-40	52	N/A	N/A	3 or 4	138
HWG-50	50 1/2	N/A	N/A	3 or 4	148
HWR-50	50-1/2	N/A	N/A	3 or 4	165
HWRT-50	50-1/2	14-1/4	50-1/2	4	165
HWRX-55*	48	14-1/4	48	4	185
Short Models					
HWRL-40	41-1/4	N/A	N/A	3 or 4	135
HWRL-50	41-3/8	N/A	N/A	3 or 4	177

^{*}For optional side-mounted recirculating taps, add "L" to the suffix in the model number. Water connection is $\frac{3}{4}$ " on all models.

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

Specify when ordering propane (LP) gas.

RESIDENTIAL GAS

PROLINE® MASTER ULTRA-LOW NOx











The Electronic Gas Control Incorporates an LED Status Indicator that Monitors System Operation and Service Diagnostics

High Uniform Energy Factors (UEFs)

 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

 ProLine® Master products have increased anode protection with either longer or multiple anodes, depending on model

Push-Button Piezo Ignitor

Heat Trap Nipples

Blue Diamond® Glass Coating

 Blue Diamond® Glass Coating blend is formulated in the same lab that creates the protection for our industry-leading commercial product line

Enhanced-Flow Brass Drain Valve

Code Compliance

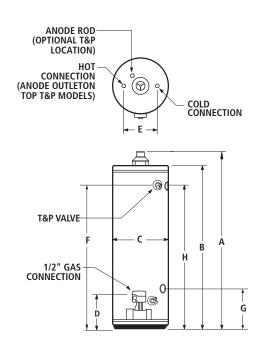
- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation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



Maximum Hydrostatic Working Pressure: 150 PSI

	Nominal Capacity	Storage	First Hour Rating Gallon	UEF	BTU Input Natural Gas	Recovery @ 90°F Rise Gallon Per Hour	Approx. Shipping Weight (lbs)	
Tall Models								
HUC-40	40	38	83	0.64	40,000	41	125	
HUR-40	40	38	83	0.64	40,000	41	125	
HUC-50	50	48	84	0.61	40,000	42	148	
HUR-50	50	48	84	0.64	40,000	42	148	
HURT-50L*	50	48	91	0.60	50,000	51	177	
Short Mode	els							
HURL-40	40	38	72	0.57	40,000	41	138	

Model Number	Dimensions in Inches										
	А	В	С	D	E	F	G*	Н*	Draft Hood Outlet		
Tall Models	Tall Models										
HUC-40	62	58-1/4	18	12	8	52	N/A	N/A	3 or 4		
HUR-40	62	58-1/4	20	12	8	52	N/A	N/A	3 or 4		
HUC-50	60-3/4	57-1/4	20	12	8	50-1/2	N/A	N/A	3 or 4		
HUR-50	60-3/4	57-1/4	22	12	8	50-1/2	N/A	N/A	3 or 4		
HURT-50L*	61	57-1/2	22	11 1/4	8	50-1/2	12-1/4	50-1/2	4		
Short Mode	els										
HURL-40	51-1/2	47-3/4	22	12	8	41-1/4	N/A	N/A	3 or 4		

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

All models approved for 10,1000 ft. elevation.

^{*}Side loop connections are standard on model (HURT-50L).

RESIDENTIAL GAS -

PROLINE® HIGH CAPACITY ATMOSPHERIC VENT







 Capacity/input combinations up to 98 gallons/75,100 BTU's to produce recoveries up to 81 gallons per hour

The Electronic Gas Control Incorporates an LED Status Indicator that Monitors System Operation and Service Diagnostics

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/J

DynaClean™ Diffuser Dip Tube

CoreGard[™] Anode Rod

Push-Button Piezo Ignitor

Blue Diamond® Glass Coating

Enhanced-Flow Brass Drain Valve

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

CSA Certified and ASME Rated T&P Relief Valve

Maximum Hydrostatic Working Pressure: 150 psi

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

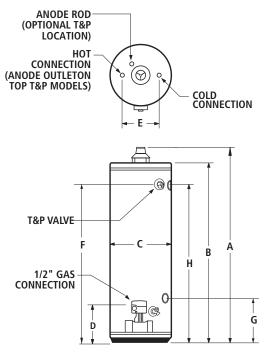
6-Year Limited Tank and Parts Warranty











Maximum Hydrostatic Working Pressure: 150 PSI

Model Number	Nominal Capacity	Rated Storage Volume	UEF	First Hour Rating (Gallons)	Recovery @ 90°F Rise Gallon Per Hour	BTU Input Natural Gas
FCG-75	74	71	0.60	125	81	75,100
FCG-100	98	95	0.58	170	81	75,100

Model	Model Dimensions in Inches								
Number	Α	В	С	D	Е	Shipping Weight (lbs)			
FCG-75	61	58-1/2	26-1/2	15-3/16	16	270			
FCG-100	68-1/2	66-1/2	27-3/4	15-3/16	16	340			

Model	Dimensions in Inches							
Number	F	G	Draft Hood Outlet					
FCG-75	50-1/4	15-1/2	50-1/4	4				
FCG-100	57-3/8	N/A	N/A	4				

Water connections are 1" male NPT on FCG-75 and 1-1/4" on FCG-100.

For 10-year tank and 10-year parts limited warranty, change "F" to "P" in model number (example: PCG-75).

For optional side-mounted recirculating taps, add "L" to the suffix of the model number (example: FCG-75L).

Specify when ordering propane (LP) gas.

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

RESIDENTIAL GAS

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

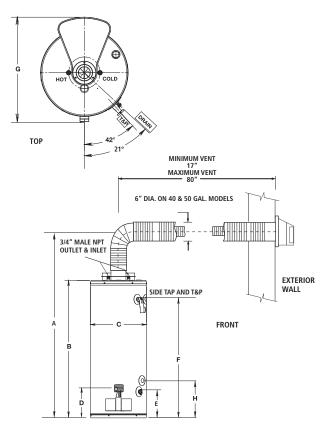
Code Compliance

- 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



Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Input BTU Per Hour	Recovery 90°F Rise Gallon Per Hour	Vent Outlet
GDV-40	40	39	64	0.60	38,000	41	Co-Axial
GDV-50	50	48	77	0.66	40,000	43	Co-Axial
GDVT-50	50	48	83	0.65	47,000	51	Co-Axial

Model	del Dimensions in Inches								
Number	Α	В	С	D	E	Shipping Weight (lbs)			
GDV-40	64	49-3/4	22	13-1/4	15-1/4	42-1/2	29	15-1/4	178
GDV-50	73	59	22	13-1/4	15-1/4	51-3/4	29	15-1/4	200
GDVT-50	74	60	22	13-1/4	15-1/4	52-3/4	29	15-1/4	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.

RESIDENTIAL GAS

PROLINE® ATMOSPHERIC VENT











Intelligent Control Logic*

- The internal microprocessor provides enhanced operating parameters and tighter differentials for precise sensing and faster heating response to optimize performance
- Uses a thermopile to generate the power needed to operate the electronic gas control without requiring an external power source
- The electronic gas control incorporates an LED status indicator that monitors system operation and service diagnostics
 - *Not available on 60,000 BTU input models (GCRX-50 and GCRX-55)

DynaClean™ Diffuser Dip Tube

CoreGard[™] Anode Rod

Push-Button Piezo Ignitor

Enhanced-Flow Brass Drain Valve

Heat Trap Nipple

Blue Diamond® Glass Coating

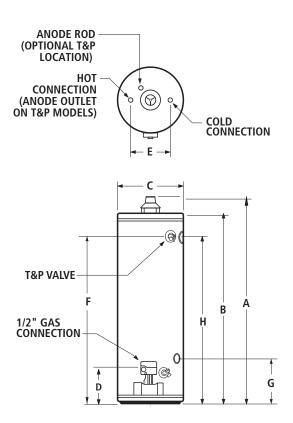
Code Compliance

- 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



Maximum Hydrostatic Working Pressure: 150 PSI

RESIDENTIAL GAS

PROLINE® ATMOSPHERIC VENT (CONTINUED)

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
Tall Models							
†GCB-30R	30	29	62	0.60	32,000	29,000	32
GCR-30R	30	29	62	0.60	32,000	29,000	31
‡GCRH-40	40	38	65	0.61	35,500	N/A	38
†GCB-40	40	38	78	0.65	40,000	36,000	42
GCR-40*	40	38	80	0.64	40,000	36,000	42
GCG-50*	50	48	81	0.62	40,000	37,000	41
GCR-50*	50	48	84	0.62	40,000	37,000	43
GCRT-50*	50	48	89	0.61	50,000	45,000	54
†GCRX-50*	50	49	99	0.61	60,000	54,000	65
GCRX-55*	55	55	83	0.62	60,000	54,000	65
Short Models	5						
†GCBL-30R	30	29	65	0.60	32,000	29,000	32
GCRL-30R	30	29	55	0.60	32,000	29,000	32
†GCBL-40	40	38	68	0.57	40,000	36,000	41
GCRL-40	40	38	67	0.59	40,000	36,000	41
GCRL-50	50	50	81	0.62	40,000	40,000	43

Water connection is 3/4" on all models.

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

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

[†] Models ship with supplied insulation blanket

Specify when ordering propane (LP) gas.

[‡] LP models not available on GCRH-40

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

Model		Dim	ensions in Inc	ches	
Number	А	В	С	D	E
Tall Models					
†GCB-30R	60 1/2	57	16	12-1/4	8
GCR-30R	60 1/2	57	18	12-1/4	8
‡GCRH-40	61-3/4	58-1/4	20	12-1/4	8
†GCB-40	61-3/4	58-1/4	18	12-1/4	8
GCR-40*	61-3/4	58-1/4	20	12-1/4	8
GCG-50*	60-3/4	57-1/4	21	12-1/4	8
GCR-50*	60-3/4	57-1/4	22	12-1/4	8
GCRT-50*	60-3/4	57-1/4	22	12-1/4	8
†GCRX-50*	65-1/2	61	22	13-1/2	8
GCRX-55*	59-3/4	55-1/4	24	13-1/2	8
Short Models	•				
†GCBL-30R	50 1/4	46 3/4	18	12	8
GCRL-30R	50 1/4	46 3/4	20	12	8
†GCBL-40	51-1/2	48	20	12	8
GCRL-40	51-1/2	48	22	12	8
GCRL-50	53-1/4	49-3/4	24	13-1/4	8

Model					Approx.
Number	F	*G	*H	Draft Hood Outlet	Shipping Weight (lbs)
Tall Models					
†GCB-30R	51-3/4	N/A	N/A	3 or 4	123
GCR-30R	51-3/4	N/A	N/A	3 or 4	132
‡GCRH-40	52	N/A	N/A	3 or 4	138
†GCB-40	52	N/A	N/A	3 or 4	130
GCR-40*	52	14-1/4	51-3/4	3 or 4	138
GCG-50*	50 1/2	14-1/4	50-1/2	3 or 4	148
GCR-50*	50-1/2	14-1/4	50-1/2	3 or 4	165
GCRT-50*	50-1/2	14-1/4	50-1/2	4	165
†GCRX-50*	54-1/4	14-1/4	54-1/4	4	182
GCRX-55*	48	14-1/4	48	4	185
Short Models					
†GCBL-30R	40	N/A	N/A	3 or 4	114
GCRL-30R	40	N/A	N/A	3 or 4	108
†GCBL-40	41-1/4	N/A	N/A	3 or 4	134
GCRL-40	41-1/4	N/A	N/A	3 or 4	135
GCRL-50	41-3/8	N/A	N/A	3 or 4	177

Water connection is 3/4" on all models.

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

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

† Models ship with supplied insulation blanket

Specify when ordering propane (LP) gas.

‡ LP models not available on GCRH-40

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

RESIDENTIAL GAS-

PROLINE® ENERGY SAVER ATMOSPHERIC VENT MOBILE HOME











Complies with HUD Standards for Manufactured Housing Installation

Gas Control Convertible for Natural and Propane Gas

• For flexibility to meet the varying needs of manufactured housing installations

Side-Mounted 3/4" Cold Water Inlet

- For flexibility to meet the varying needs of manufactured housing installations
- Top-mounted 3/4" hot water outlet

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

CoreGard[™] Anode Rod

Blue Diamond® Glass Coating

Enhanced-Flow Brass Drain Valve

Code Compliance

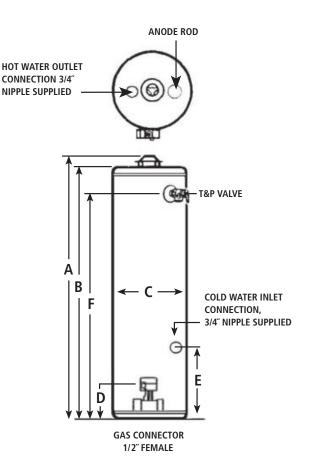
- Meets UBC, CEC and HUD National Codes.
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation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

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

CSA Certified and ASME Rated T&P Relief Valve

6-Year Limited Tank and 6-Year Limited Tank Parts Warranty



Recovery BTU Input BTU Input First Rated @ 90°F Per Hour Model Nominal Per Hour Hour UEF Rise Storage Number Capacity Rating Natural **Propane** Volume Gallon (Gallons) Gas Gas Per Hour 0.61 FMHR-30 30 29 63 35,500 32,000 36 FMHR-40 40 38 59 0.58 35,500 32,000 36

			Dime	nsions	in Inche	!S		Annrov
Model Number	А	В	С	D	Е	F	Draft Hood Outlet	Approx. Shipping Weight (lbs)
FMHR-30	61-1/2	58	18	13	14-1/4	52	3 or 4	129
FMHR-40	61-3/4	58-1/4	20	13	14-1/4	51-3/4	3 or 4	153

All models ship from factory for use with natural gas. A complete propane (LP) burner is supplied for converting to propane gas.

No option available for top T&P.

Certified from sea level to 10,100 ft. elevation.

RESIDENTIAL GAS -

PROLINE® ENERGY SAVER DIRECT VENT MOBILE HOME









Complies With HUD Standards For Manufactured Housing Installation

Gas Control Convertible for Natural and Propane Gas

 For flexibility to meet the varying needs of manufactured housing installations

Direct Vent Models Package with Bottom Intake Air Vent

 To draw all combustion make-up air from outside the structure

Optional Ducted Air Inlet Kit for Direct Vent Models

- For use when water heater is installed over a basement
- Provision for horizontal air inlet ducting

Side-Mounted 3/4" Cold Water Inlet

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[™] Anode Rod

Enhanced-Flow Brass Drain Valve

Blue Diamond® Glass Coating

Code Compliance

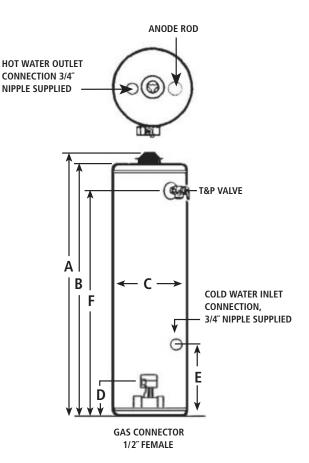
- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation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

CSA Certified and ASME Rated T&P Relief Valve

6-Year Limited Tank and 6-Year Limited Parts Warranty



Model Number	Nominal Capacity	Rated Storage Volume	Ratina	UEF	Btu Input Per Hour Natural Gas	Btu Input Per Hour Propane	Recovery @ 90°F Rise Gallon Per Hour	Vent Outlet
FMDV-30	30	29	60	0.61	30,000	29,000	31	3
FMDV-40	40	38	57	0.59	32,000	29,000	33	3
FMDV-50	50	47	67	0.56	40,000	37,000	39	3

Model	Model Dimensions in Inches									
Number	А	В	С	D	D E		Shipping Weight (lbs)			
FMDV-30	61	58	18	13	14-1/4	52-1/2	129			
FMDV-40	61-3/4	58-3/4	20	13	14-1/4	52-1/4	153			
FMDV-50	60	57	22	13	14-1/4	50	168			

All models ship from the factory for use with natural gas, a complete propane burner is supplied for converting to propane gas.

No option available for top T&P.

Water connections-3/4" on all models.

All models are certified for installation from sea level to 5,400 ft. elevation.

RESIDENTIAL GAS -

PROLINE® ULTRA-LOW NOx











The Electronic Gas Control Incorporates an LED Status Indicator that Monitors System Operation and Service Diagnostics

High UEFs

 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

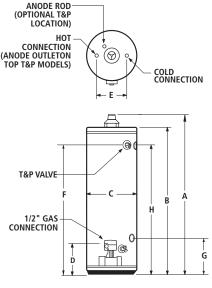
- Meets UBC, CEC and HUD National Codes
 - Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
 - Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation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

CSA Certified And ASME Rated T&P Valve

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



Maximum Hydrostatic Working Pressure: 150 PSI

Model Number	Nominal Capacity	Storage	First Hour Rating (Gallons)	UEF	BTU Input Natural Gas	Recovery @ 90°F Rise Gallon Per Hour	Approx. Shipping Weight (lbs)
Tall Models	5						
GUC-30	30	29	62	0.59	33,000	34	126
GUC-40	40	38	83	0.64	40,000	41	125
GUR-40	40	38	83	0.64	40,000	41	125
GUC-50	50	48	84	0.61	40,000	42	148
GUR-50	50	48	84	0.64	40,000	42	148
GURT-50L*	50	48	91	0.60	50,000	51	177
Short Mode	els						
GURL-40	40	38	72	0.57	40,000	41	138

				Dime	nsi	ons in In	ches				
Model Number	А	В	С	D	Е	F	G*	Н*	Draft Hood Outlet		
Tall Models											
GUC-30	61-3/4	58	16	12	8	51-3/4	N/A	N/A	3 or 4		
GUC-40	62	58-1/4	18	12	8	52	N/A	N/A	3 or 4		
GUR-40	62	58-1/4	20	12	8	52	N/A	N/A	3 or 4		
GUC-50	60-3/4	57-1/4	20	12	8	50-1/2	N/A	N/A	3 or 4		
GUR-50	60-3/4	57-1/4	22	12	8	50-1/2	N/A	N/A	3 or 4		
GURT-50L*	61	57-1/2	22	12-1/4	8	50-1/2	12-1/4	50-1/2	4		
Short Mod	els										
GURL-40	51-1/2	47-3/4	22	12	8	41-1/4	N/A	N/A	3 or 4		

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

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

^{*}Side loop connections are standard on model (GURT-50L).

^{*}All models approved for installation from sea level to 10,100 ft. elevation.

RESIDENTIAL GAS

PROLINE® ULTRA-LOW NOX DIRECT VENT





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

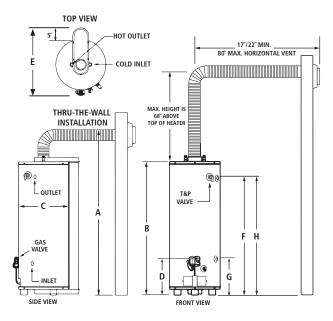
6-Year Limited Tank and Parts Warranty











Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Recovery 90°F Rise Gallon Per Hour	BTU Input Per Hour
GDNL-40L	40	39	64	0.59	39	36,000
GDNT-50L	50	48	76	0.65	41	38,000

	Concentric	Dir	Approx.			
Model Number	Vent Connection	А	В	С	D	Shipping Weight (lbs)
GDNL-40L	3 or 5	65-1/4	50-1/2	22	13-1/2	179
GDNT-50L	3 or 5	73-1/2	58-1/2	22	13-1/2	193

Model Number	Dimensions in Inches								
	E	F	G	Н					
GDNL-40L	30	43-7/8	15	45					
GDNT-50L	30	52-1/4	15	53					

No option available for top T&P valve.

All models have $\frac{3}{4}$ " top water connections and comes standard with side loop fittings. All models certified from sea level to 7,700 ft. elevation.

RESIDENTIAL GAS-

PROLINE® ULTRA-LOW NOX HIGH CAPACITY











Fully Automatic Controls with Safety Shutoff

Heavy Gauge Steel Jacket

Blue Diamond® Glass Coating

Foam Insulation

Ultra-Low NOx Emissions

 Complies with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements of 14 ng/J or 20 ppm

Easy-To-Install

- · Completely factory-assembled
- Only gas, water and vent connections need to be made
- All connections are located in front and top of heaters for ease-of-installation and service

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

Maximum Working Pressure

150 psi

Maximum Gas Inlet Pressure

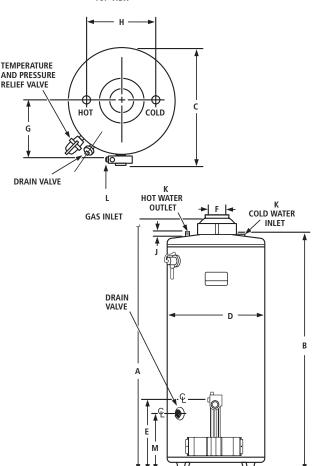
• 14" W C

Code Compliance

 The Ultra-Low NOx atmospheric vent residential gas water heater meets the thermal efficiency and standby loss requirements of the U. S.
 Department of Energy and Current Edition ASHRAE/IES 90.1

6-Year Limited Tank and Parts Warranty

TOP VIEW



Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Recovery @ 90°F Rise Gallon Per Hour	BTU Input Per Hour
† GCN-75	74	71	102	0.64	81	75,100
GCN-100	98	95	120	0.58	82	75,100

Model		Approx.				
Number	Α	В	С	E	Shipping Weight	
†GCN-75	62-1/16	58	29-1/2	25-1/4	15-7/8	285 lbs
GCN-100	70-1/2	66-1/2	30-15/16	27-3/4	15-3/16	350 lbs

^{*}Recover rating based on 81% thermal efficiency.

^{**}Recover rating based on 80% thermal efficiency.

 $^{{\}rm tThe}$ GCN-75 comes standard with side loop fittings for use with hydronic heating applications.

RESIDENTIAL ELECTRIC -

VOLTEX® AL SMART HYBRID ELECTRIC HEAT PUMP













Leak Protection Technology

- Smart anode adapts to local water conditions to protect and extend the life of the water heater
- User is notified when the anode is consumed and needs to be replaced
- Smart sensor alerts user in the event a leak does occur for added peace of mind
- Compatible with accessory automatic water shutoff valve for enhanced protection

Exceptional Energy Efficiency

- Improved efficiency up to 3.88 Uniform Energy Factor (UEF) can reduce the cost of water heating by up to 75%*
- ENERGY STAR® certified for many state and local utility rebates

iCOMM™ SMART CONNECTIVITY

- Monitor and control your water heater through the free A. O. Smith app
- Connect through a local Wi-Fi network or directly to the water heater through Bluetooth
- If applicable download the Time of Use schedule of your local electric utility to prioritize heating when the rates are most affordable
- Receive alerts and notifications

Flexible Design

- Top and front water connections for easy installation
- Zero clearance required on sides and back to fit in tighter spaces
- Integrated ducting adapters for installations in confined spaces

Quiet Operation

Whisper-quiet operation at 45 dBA

Electronic Controls

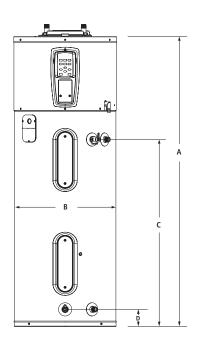
- User-friendly electronic interface allows easy control of temperature, operating mode and diagnostics
- Select from Heat Pump, Hybrid or Electric modes to match hot water demand. Vacation mode can reduce energy use while you are away.
- Long-lasting 4500W backup elements can supplement the heat pump depending on operating mode, environmental conditions and hot water demand

Code Compliance

- NEEA Tier 4
- California Title 24 JA13 Qualified
- CTA-2045 (AC)
- OpenADR 2.0b VEN
- Meets IBC and HUD Codes

10-Year Limited Warranty

^{*}Comparing 80-gallon Voltex AL heat pump against pre-2015 similarly-sized standard electric using DOE EF to UEF conversion rates. Savings may vary.



Model Number	Nominal Capacity	Rated Storage Volume	UEF	First Hour Rating (Gallons)	Approx. Shipping Weight (lbs)	Warranty Term
HPTS-50	50	46	3.80	65	196	10
HPTS-66	66	67	3.70	82	284	10
HPTS-80	80	82	3.88	95	302	10

Model	Dimensions in Inches						
Number	А	В	С	D			
HPTS-50	63	22	40-1/2	3-3/4			
HPTS-66	61-1/2	26-1/2	38-1/4	4			
HPTS-80	69	26-1/2	46-1/2	4			

Requires 208/240 VAC 50/60Hz single phase power and 30 amp breaker. Top T&P option not available on this model.

RESIDENTIAL ELECTRIC

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) Rating conserves energy and meets ENERGY STAR® qualifications

Dual Voltage Capable

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

Choice of Operating Modes

- Select from Efficiency, Hybrid or Electric modes to match heating requirements to environmental conditions and hot water demand. Hybrid mode automatically adjusts between compressor and element, depending upon heat requirements.
- Vacation mode reduces operating costs and provides freeze protection during extended absence.

Backup Electric Elements

 Long-lasting 4500W backup heating elements help heat water according to environmental conditions, demand, and the chosen operating mode.

Dry Fire Protection

 Control system checks to ensure the tank is full of water during start up to prevent dry firing the heating elements.

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.

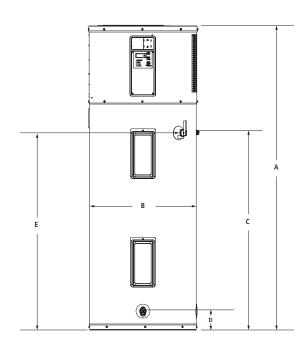
Other Features

- 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
- Accessory Inlet/Outlet Duct Kit (Part number 100234320)

Code Compliance

- Meets IBC and HUD National Codes excluding mobile homes
- 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 Warranty



Model Number	Nominal Capacity	Rated Storage Volume	UEF	First Hour Rating (Gallons)	Approx. Shipping Weight(lbs)	Warranty Term
HPTU-50N	50	46	3.45	66	196	10
HPTU-66N	66	67	3.45	79	289	10
HPTU-80N	80	82	3.45	86	307	10

Model		Dimensions in Inches							
Number	Α	A B C D							
HPTU-50N	63	22	40-5/8	3-3/4	40-1/2				
HPTU-66N	61	27	38	4	38				
HPTU-80N	69	27	46	4	46				

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

RESIDENTIAL ELECTRIC

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) Rating conserves energy and meets ENERGY STAR® qualifications

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Electronic User Interface

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 - Advanced diagnostics convey error messages for service purposes. The last four error messages are saved in the control system memory.

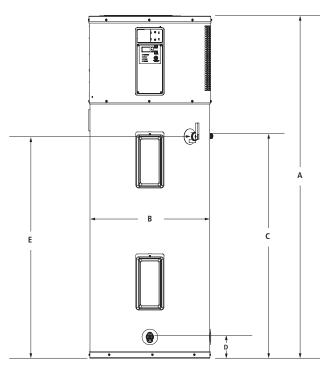
Other Features

- 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
- Accessory Inlet/Outlet Duct Kit (Part number 100234320)

Code Compliance

- Meets IBC and HUD National Codes excluding mobile homes
- 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 Warranty



Model Number	Nominal Capacity	Rated Storage Volume	UEF	First Hour Rating (Gallons)	Approx. Shipping Weight (lbs)	Warranty Term
FPTU-50	50	46	3.35	66	196	6
FPTU-66	66	67	3.42	79	289	6
FPTU-80	80	82	3.45	84	307	6

Model	Dimensions in Inches							
Number	Α	В	B C D E					
FPTU-50	63	22	40-5/8	3-3/4	40-1/2			
FPTU-66	61	27	38	4	38			
FPTU-80	69	27	46	4	46			

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

RESIDENTIAL ELECTRIC -

PROLINE® MASTER SMART ELECTRIC











Electronic Controls with WIFI Connectivity

- Standard and vacation operating modes
- · Seven-segment display
- · Diagnostic feedback
- Element "Dry-Fire" protection

Remote Control Through the A. O. Smith app

- Change water temperature and operating mode remotely
- Schedule hot water demand for optimized performance

Leak Detection Sensor

• Sounds an audible alarm when water is detected

Automatic Shut-off Valve

 Closes valve on incoming cold water inlet when leak is detected

Enhanced Heating Elements

- Dual 5500 watt elements for the fastest recovery and reliable operation
- Stainless steel elements last longer than standard copper elements

High Energy Factors

 Eco-friendly non-CFC foam insulation, heat traps and other features combine to yield a high Uniform Energy Factor (UEF) that maximizes savings on operating costs

Coregard™ Anode Rod

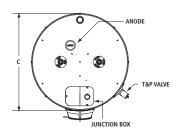
 Our anode rods have a stainless steel core that extends the life of the anode rod allowing superior tank protection far longer than standard anode rods

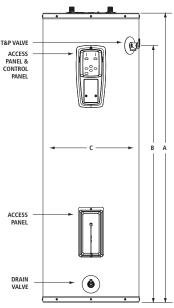
Code Compliance

- 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 Standard effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended

8-Year Limited Tank and Parts Warranty

- 4 year warranty extension available
- 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	Approx. Shipping Weight (lbs)
Tall Model	S					
HETF-40	40	36	63	0.93	25	106
HETF-50	50	45	74	0.92	25	109
HETF-55	55	55	75	0.94	25	145
Short Mod	els					
HESF-40	40	37	64	0.92	25	95
HESF-50	50	46	67	0.92	25	117

Model	Element Wa	ttage 240V	Dimensions in Inches			
Number	Standard	Maximum	Α	В	С	
Tall Model	S					
HETF-40	5500	5500	60-1/4	53-1/4	20	
HETF-50	5500	5500	59	51-1/4	20-1/2	
HETF-55	5500	5500	56-1/2	48-1/2	24	
Short Mod	els					
HESF-40	5500	5500	49-3/4	40-3/4	20-1/2	
HESF-50	5500	5500	49-3/4	40-1/4	23	

3/4" water connections on 8" center.

Only available for 240V or 208V applications. 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.

RESIDENTIAL ELECTRIC

PROLINE® MASTER SMART ELECTRIC GRID-CAPABLE











Electronic Controls with WIFI Connectivity

- Standard and vacation operating modes
- · Seven-segment display
- · Diagnostic feedback
- · Element "Dry-Fire" protection

Remote Control Through the A. O. Smith app

- Change water temperature and operating mode remotely
- Schedule hot water demand for optimized performance

Leak Detection Sensor

· Sounds an audible alarm when water is detected

Automatic Shut-off Valve

 Closes valve on incoming cold water inlet when leak is detected

Enhanced Heating Elements

- Dual 5500 watt elements for the fastest recovery and reliable operation
- Stainless steel elements last longer than standard copper elements

High Energy Factors

 Eco-friendly non-CFC foam insulation, heat traps and other features combine to yield a high Uniform Energy Factor (UEF) that maximizes savings on operating costs

Coregard™ Anode Rod

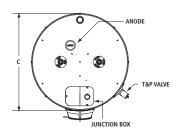
 Our anode rods have a stainless steel core that extends the life of the anode rod allowing superior tank protection far longer than standard anode rods

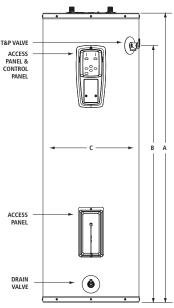
Code Compliance

- 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 Standard effective April 16, 2015, in accordance with the Energy Policy and Conservation Act (EPCA), as amended
- · Meets state of WA and OR requirements

8-Year Limited Tank and Parts Warranty

- 4 year warranty extension available
- 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	Approx. Shipping Weight (lbs)
Tall Models	S					
HETFA-40	40	36	63	0.93	25	106
HETFA-50	50	45	74	0.92	25	109
HETFA-55	55	55	75	0.94	25	145
Short Mod	els					
HESFA-40	40	37	64	0.92	25	95
HESFA-50	50	46	67	0.92	25	117

Model	Element Wa	ttage 240V	Dimensions in Inches			
Number	Standard	Maximum	Α	В	С	
Tall Models	5					
HETFA-40	5500	5500	60-1/4	53-1/4	20	
HETFA-50	5500	5500	59	51-1/4	20-1/2	
HETFA-55	5500	5500	56-1/2	48-1/2	24	
Short Models						
HESFA-40	5500	5500	49-3/4	40-3/4	20-1/2	
HESFA-50	5500	5500	49-3/4	40-1/4	23	

3/4" water connections on 8" center.

Only available for 240V or 208V applications. 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.

RESIDENTIAL ELECTRIC

PROLINE® MASTER STANDARD









Commercial-Grade Heating Elements

- Dual 4500 watt elements for the fastest recovery and reliable operation
- Long-lasting dual stainless steel elements last longer than standard copper elements

High Uniform Energy Factors (UEFs) DynaClean™ Diffuser Dip Tube

CoreGard[™] Anode Rod

 ProLine® Master products have increased anode protection with either longer or multiple anodes, depending on model

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

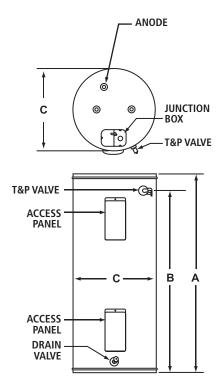
Approved for Manufactured Housing

 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



Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Recovery @ 90°F Rise Gallon Per Hour
Tall Models					
HNT-40	40	36	53	0.92	21
HNT-50	50	46	62	0.92	21
HNT-55	55	55	72	0.93	21
Short Mode	ls				
HNS-40	40	37	55	0.92	21
HNS-40W	40	37	41	0.88	18
HNS-50	50	46	57	0.92	21

Model	Eleme	nt Wattag	e 240V	Dimer	nsions ir	Approx.		
	Standard	Minimum	Maximum	А	В	С	Shipping Weight (lbs)	
Tall Models								
HNT-40	4500	3500	6000	61-1/4	53-1/4	18	118	
HNT-50	4500	@ 3000	6000	59	51-1/4	20-1/2	125	
HNT-55	4500	2500	6000	56-1/2	48-1/2	24	145	
Short Model	s							
HNS-40	4500	@ 4500	6000	49-3/4	40-3/4	20-1/2	109	
HNS-40W	-	1000	4000	49-3/4	40-3/4	20-1/2	109	
HNS-50	4500	2500	6000	49-3/4	40-3/8	23	161	

Male 3/4" water connections on 8" center.

Models requiring a lower wattage than what is listed in the minimum wattage column and showing the @ symbol, will change to a "W" suffix model number.

"W" suffix models are available down to 1kW.

(example: HNS-40 using 4,000 watt elements or less will become "HNS-40W").

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

RESIDENTIAL GAS-

PROLINE® GRID-CAPABLE ELECTRIC WATER HEATERS











Electronic Controls

- Standard and vacation operating modes
- · Six-segment display
- · Diagnostic feedback
- Element "Dry-Fire" protection

Utility Grid-Capable

- Equipped with Demand Response (CTA-2045 EcoPort^{CM}) communication port
- Allows for participation in Utility Demand Response programs (Module needed from local utility)
- Meets state of Washington and Oregon requirements

High Energy Factors

 Eco-friendly non-CFC foam insulation, heat traps and other features combine to yield a high Energy Factor that maximizes savings on operating costs

Coregard™ Anode Rod

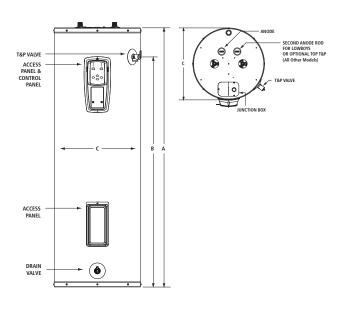
 Our anode rods have a stainless steel core that extends the life of the anode rod allowing superior tank protection far longer than standard anode rods

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

6-Year Limited Tank and Parts Warranty

- 6 and 10 year warranty models
- For complete information, consult written warranty or go to hotwater.com



Model	Nominal Rated Storage		First Hour Rating	UEF	Element Wattage 240V			
Number	mber Capacity Volume (Gallons)	02.	Standard	Maximum				
Tall Models								
EETU-40†	40	36	55	0.93	4500	5500		
EETU-50†	50	46	62	0.92	4500	5500		
EETU-40†	55	55	75	0.94	4500	5500		
Short Models								
EESU-40†	40	37	53	0.92	4500	5500		
EESU-50†	50	46	67	0.92	4500	5500		
Lowboy Top Connect Models								
EELU-40†	38	35	52	0.92	4500	5500		
EELU-50†	51	48	54	0.92	4500	5500		
EELBU-50†	48	44	55	0.92	4500	5500		

Model	Recovery @	Dime	ensions in In	ches	Approx.
Number	90°F Rise Gallon Per Hour	A B		С	Shipping Weight (lbs)
Tall Models					
EETU-40†	21	60-1/4	53-1/4	20	106
EETU-50†	21	59	51-1/4	20-1/2	109
EETU-40†	21	56-1/2	48-1/2	24	145
Short Models					
EESU-40†	21	49-3/4	40-3/4	20-1/2	95
EESU-50†	21	49-1/4	40-1/4	23	117
Lowboy Top (Connect Models				
EELU-40†	21	31-1/2	24	26	118
EELU-50†	21	36	26-1/4	26-1/2	154
EELBU-50†	21	34	24-1/4	26-1/2	154

3/4" water connections on 8" center.

Only available for 240V applications.

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

Top T&P is not available on the 10 year Lowboy models and the EELU-50.

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.

†For 10-year tank and parts warranty, change first "E" to "P" in the model number.

RESIDENTIAL ELECTRIC

PROLINE® STANDARD









Enhanced Heating Elements

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

High Uniform Energy Factors (UEFs)

DynaClean™ Diffuser Dip Tube

CoreGard[™] Anode Rod

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

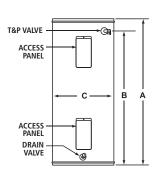
Approved for Manufactured Housing

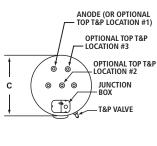
 All residential electric water heaters are compliant with HUD standards for mobile homes/ manufactured housing

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





Model	Nominal	Rated Storage	First Hour	UEF	Eleme	nt Wattag	Wattage 240V	
Number	Capacity	Volume	Rating (Gallons)		Standard	Minimum	Maximum	
Tall Models								
ENT-30†	30	27	48	0.89	4500	1000	6000	
ENT-40†	40	36	53	0.92	4500	3500	6000	
ENT-50†	50	46	62	0.92	4500	@ 3000	6000	
ENT-55†	55	55	72	0.93	4500	2500	6000	
Short Models								
ENSB-30*	30	27	50	0.90	4500	1000	6000	
ENS-30†	30	27	47	0.89	4500	1000	6000	
ENS-40†	40	37	55	0.92	4500	@ 4500	6000	
ENS-40W†	40	37	41	0.88	-	1000	4000	
ENS-50†	50	46	57	0.92	4500	2500	6000	
Lowboy Top C	onnect M	odels						
ENLB-30*†	28	26	43	0.89	4500	1000	6000	
ENL-30†	28	26	44	0.90	4500	1000	6000	
ENL-36†	36	33	51	0.92	4500	@ 4500	6000	
ENL-40†	38	35	50	0.89	4500	1000	6000	
ENLB-40*†	38	35	51	0.92	4500	@ 4500	6000	
ENLB-40W*†	38	35	38	0.90	-	1000	4000	
ENLB-50*†	48	44	60	0.93	4500	@ 4000	6000	
ENLB-50W*†	48	44	40	0.91	-	1000	3500	
ENL-50†	51	48	51	0.92	4500	4000	6000	

Model	Recovery @	Dime	ensions in In	ches	Approx.
Number	90°F Rise Gallon Per Hour	Α	В	С	Shipping Weight (lbs)
Tall Models					
ENT-30†	21	46-1/2	39-1/2	19	95
ENT-40†	21	61-1/4	53-1/4	18	118
ENT-50†	21	59	51-1/4	20-1/2	125
ENT-55†	21	56-1/2	48-1/2	24	145
Short Models					
ENSB-30*	21	39	30-1/2	20	95
ENS-30†	21	39-3/4	30-1/2	22	94
ENS-40†	21	49-3/4	40-3/4	20-1/2	109
ENS-40W†	18	49-3/4	40-3/4	20-1/2	109
ENS-50†	21	49-1/4	40-3/8	23	161
Lowboy Top (Connect Models				
ENLB-30*†	21	30	21-3/4	20	90
ENL-30†	21	31 1/4	21-3/4	24	115
ENL-36†	21	32	24	24	118
ENL-40†	21	33 1/2	24	26	118
ENLB-40*†	21	32	24	23	118
ENLB-40W*†	18	32	24	23	118
ENLB-50*†	21	34	25	26-1/2	172
ENLB-50W*†	16	34	25	26-1/2	172
ENL-50†	21	36	25	26-1/2	172

Male 3/4" water connections on 8" center. *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-30). Models requiring a lower wattage than what is listed in the minimum wattage column and showing the @ symbol, will change to a "W" suffix model number. "W" suffix models are available down to ¹kW. (example: ENS-40 using 4,000 watt elements or less will become "ENS-40W"). Top T&P is not available on the 10 year lowboy models. Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

RESIDENTIAL ELECTRIC -

MOBILE HOME









Approved for Manufactured Housing

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

Side Water Connections

For ease of installation in mobile home applications

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

Long-Lasting Heating Elements

 Screw-in, direct immersion, 3500W/240V or 3000W/120V heating elements for maximum efficiency

Blue Diamond® Glass Coating

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

CSA Certified and ASME Rated T&P Relief Valve

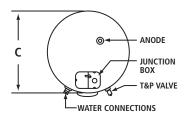
Code Compliance

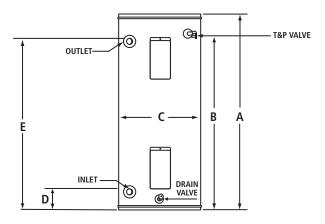
- Meets UBC, CEC and HUD National Codes
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1
- Complies with the Federal Energy Conservation Standards effective April 16, 2015, in accordance with the Energy Policy and Conservation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





Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Recovery @ 90°F Rise Gallon Per Hour	Voltage
EMHT-30	30	27	50	0.90	14	120
EMHT-30	30	27	50	0.90	16	240
EMHT-30	30	27	50	0.90	21	240
EMHS-40W	40	36	40	0.91	14	120
EMHS-40W	40	36	40	0.91	16	240
EMHS-40	40	36	54	0.95	21	240
EMHL-30*	28	26	47	0.90	14	120
EMHL-30*	28	26	47	0.90	16	240
EMHL-30*	28	26	47	0.90	21	240

Mandal	Wat	tage	Dimensions i	Approx.	
Model Number	Upper Element	Lower Element	Height to Top of Heater	Diameter	Shipping Weight (lbs)
EMHT-30	3000	3000	46-3/4	19	98
EMHT-30	3500	3500	46-3/4	19	98
EMHT-30	4500	4500	46-3/4	19	98
EMHS-40W	3000	3000	50	22	109
EMHS-40W	3500	3500	50	22	109
EMHS-40	4500	4500	50	22	109
EMHL-30*	3000	3000	30	22	96
EMHL-30*	3500	3500	30	22	96
EMHL-30*	4500	4500	30	22	96

^{*}Models ship with supplied insulation blanket.

Models may have limited element options due to element size or other restrictions.

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

^{3/4&}quot; water connections. Available with side T&P only.

PROLINE® SPECIALTY ELECTRIC





LOWBOY



TABLE TOP



COMPACT



POINT-OF-USE

Approved For Manufactured Housing

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

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 crosslinked 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

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

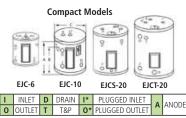
Design-Listed By Underwriters Laboratories

- 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

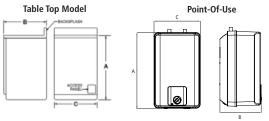








ENJ-30, ENJB-30 ENJ-40, ENJB-40



Model	Nominal	Rated Storage	First Hour Rating	UEF	Element	Wattage	
Number	Capacity	Volume	(Gallons)	OLI	Standard	Maximum	
Compact M	odels				120V	240V	
EJC-6	6	6	N/A	N/A	1650	3000	
EJC-10	10	9	N/A	N/A	1650	6000	
EJCS-20	19	17	N/A	N/A	2500	6000	
EJCT-20	19.9	18	N/A	N/A	2500	6000	
Lowboy Sid	e-Connect	Model			240V		
ENJB-30*	28	26	47	0.90	4500	6000	
ENJ-30	28	26	43	0.91	4500	6000	
ENJB-40*	38	35	57	0.94	4500	6000	
ENJB-40W*	38	35	38	0.91	-	4000	
ENJ-40	38	35	54	0.93	4500	6000	
ENJ-40W	38	35	38	0.91	-	4000	
Table Top M	lodel				24	OV	
ENTT-38	38	35	55	0.90	4500	5500	
Point-Of-Use-Models					12	OV	
EPU-2.5	2.5	2.6	N/A	N/A	1440 @ 120V		
EPU-4	4	3.8	N/A	N/A	1440 @	2 120V	
EPU-6	6	5.9	N/A	N/A	1440 @	2 120V	

Model	Recovery @ 90°F Rise Gallons	Dime	nsions in Ir	nches	Approx. Shipping
Number	Per Hour	Α	В	С	Weight (lbs)
Compact M	odels				
EJC-6	8	15-1/4	10-3/4	14-1/4	35
EJC-10	8	18-1/4	12-1/4	16	41
EJCS-20	11	24-3/4	18-5/8	18	68
EJCT-20	11	31-5/8	25-3/4	16	68
Lowboy Sid	e-Connect Model				
ENJB-30*	21	30	21-3/4	22	101
ENJ-30	21	31-1/4	21-3/4	24	115
ENJB-40*	21	31-3/4	24	24	118
ENJB-40W*	18	31-3/4	24	24	118
ENJ-40	21	33-1/2	24	26	118
ENJ-40W	18	33-1/2	24	26	118
Table Top M	lodel				
ENTT-38	21	36	24	25	150
Point-Of-Us	e-Models				
EPU-2.5	7	18-1/2	13-1/4	12 1/4	17
EPU-4	7	23 1/4	13-1/4	12 1/4	20
EPU-6	7	24 1/4	16	15	24

^{*}Models ship with a supplied insulation blanket.

When ordering models ENJ-40 or ENJB-40 the model number will change for wattages of 4kW to 1kW. The new model number will include a "W" suffix (example: ENJB-40W) Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

RESIDENTIAL -

PUMP TANKS

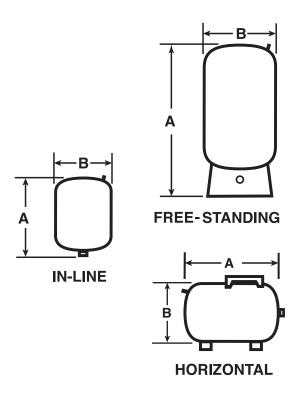






Multiple Head Construction Adds Structural Strength and More Capacity within the Same Diameters

- Interior powder coating is permanently bonded to the tank shell for ultimate protection on the water side of the tank
- Butyl rubber parabolic diaphragm
- Positive lock retention system controls compression in the diaphragm connection, eliminating air loss or water leaks in tank
- Electrostatically applied powder-coated exterior for maximum sunlight (UV) resistance with zinc phosphate undercoat for highest corrosion resistance
- · Corrosion-resistant metal air valve
- · Rust Guard No-weld steel base
- 5-year limited warranty



		Dimensions in Inches			nches	
Model Number	Volume (Gallons)	Connecting NPT Size	Overall Height -A	To Center of Water Inlet	Diameter-B	Weight (lbs.)
PMI (Inline) and PM (I	Free-Standin	g) Series			
PMI-2	2.0	3/4 (M)	10-3/16	-	8-1/4	5
PMI-5	4.6	3/4 (M)	14-3/4	-	11	9
PMI-7	7.3	3/4 (M)	21-1/16	-	11	14
PMI-14	13.9	1 (M)	21-1/16	2	15-3/8	24
PM-14	13.9	1 (F)	24-15/16	2	15-3/8	24
PM-20	19.9	1 (F)	32-3/8	2	15-3/8	34
PM-26	25.9	1 (F)	39-9/16	2	15-3/8	43
PM-32	31.8	1 (F)	47-1/4	2	15-3/8	52
PM-45	45.2	1-1/4 (F)	36-9/16	2-1/2	22	65
PM-65	65.1	1-1/4 (F)	48-5/8	2-1/2	22	90
PM-85	84.9	1-1/4 (F)	60-11/16	2-1/2	22	114
PM-86	83.5	1-1/4 (F)	46	2-1/2	26	116
PM-119	115.9	1-1/4 (F)	61-5/16	2-1/2	26	161
Horizontal	Series		Length-A		Diameter-B	
PMH-7	7.3	3/4 (M)	12-7/8	-	11	16
PMH-14	13.9	1 (M)	18-1/4	-	15-3/8	25
PMH-20	19.9	1 (M)	18-1/4	-	15-3/8	36

NOTE: M-Male connection F-Female connection All models 38 psi pre-charge

RESIDENTIAL

EXPANSION TANKS





Butyl Rubber Parabolic Diaphragm

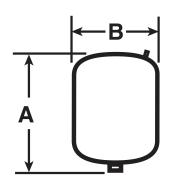
Positive Lock Retention System Controls Compression in the Diaphragm Connection, Eliminating Air Loss or Water Leaks in Tank

Projection Welded Air Valve

5-Year Limited Warranty on PMC Expansion Tanks

1-Year Limited Warranty on Hydronic Expansion Tanks





Model Number	Maximum (psig) Working Pressure	Tank Volume	Maximum Accepted Volume (Gallons)					
Number	Working Fressure	(Gallons)	20 psi	40 psi	60 psi			
PMC-Series (Potable Expansion Tanks - 5-Year Limited Warranty)								
PMC-10	150	9.25	7.80	6.55	5.25			
PMET-Series	(Hydronic Expansion	Tanks - 1-Ye	ear Limited V	Varranty)				
PMET-2	100	1.96	1.53	N/A	N/A			
PMET-5	100	4.55	3.75	N/A	N/A			
PMET-7	100	7.30	4.60	N/A	N/A			
PMET-14	100	14.6	10.5	N/A	N/A			

Model	Connection	Dimensions i	Weight					
Number	NPT Size	Overall Height - A	Diameter - B	(lbs)				
PMC-Series (Potable Expansion Tanks - 5-Year Limited Warranty)								
PMC-10 3/4		15-1/2	15-3/8	18				
PMET-Series	PMET-Series (Hydronic Expansion Tanks - 1-Year Limited Warranty)							
PMET-2	1/2	10-3/16	8-1/4	5				
PMET-5	1/2	14-3/4	11	9				
PMET-7	1/2	21-1/16	11	14				
PMET-14	1/2	23-1/2	15-3/8	25				

All PMC models 38 psi pre-charge. All PMET models 12 psi pre-charge.

RESIDENTIAL TANKLESS

PROLINE® XE WITH X3® SCALE PREVENTION TECHNOLOGY





INDOOR MODEL



OUTDOOR MODEL









Select models



ANSI Z21.10.3 • CSA 4.3

X3 Scale Prevention Technology (Patent Pending)

- · No annual descaling required
- No scale buildup means the heater maintains like-new performance longer

ENERGY STAR® Qualified* Durable Heat Exchanger

- Primary heat exchanger is constructed of a commercial-grade copper that is more resilient to corrosion. Copper is 25x better at heat transfer than Stainless Steel, thus stabilizing outgoing water temperatures quicker
- Secondary heat exchanger is made of 316L Stainless Steel to protect against corrosion

Qualified As Lead Free Under The Safe Drinking Water Act Safety Features

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

Internal Freeze Protection System Recirc Capable

 Tankless water heaters with X3 Technology are approved to work with an external recirculation pump and cross-over valve. See training manual for full details.

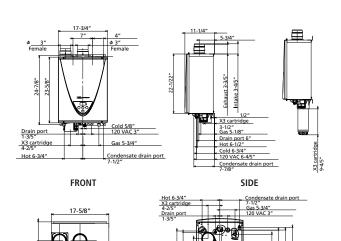
Power Direct Vent Design

- Category III or IV venting can be used
- Exhaust, 3" PVC up to 70'; 4" PVC up to 100'
- Provides flexible venting with PVC, CPVC, polypropylene, or ABS Pipe for Intake and Exhaust (solid core only)

Accessories

- Pipe Cover
- Neutralizer Kit
- X3 Freeze Protection Kit
- Concentric Termination
- Recess Box

- No hardwater exclusions in the industry's first "peace of mind" limited warranty
- 15-year limited warranty on heat exchanger in residential applications
- 5-year limited warranty on all parts in residential applications
- 1-year limited warranty on heat exchanger and parts in commercial applications
- For complete information, consult written warranty or go to hotwater.com



Drain port

воттом

6-1/4'
TOP

Gas 5-1/8"
Cold 6-3/4"
120 VAC 6-4/5"
Condensate drain port

Model		Gas Consun	nption Input	Supply Ga	s Pressure	
Number	Туре	Minimum BTU/H	Maximum BTU/H	Minimum in. W.C.	Maximum in. W.C.	UEF
Indoor Models						
ATI-240HX3-N	Natural	15,000	160,000	4.0	10.5	0.94
ATI-240HX3-P	Propane	13,000	160,000	8.0	14.0	0.94
ATI-340HX3-N+	Natural	15,000	180,000	4.0	10.5	0.95
ATI-340HX3-P+	Propane	13,000	180,000	8.0	14.0	0.95
ATI-540HX3-N	Natural	15,000	199,000	4.0	10.5	0.93
ATI-540HX3-P	Propane	13,000	199,000	8.0	14.0	0.93
Outdoor Models						
ATO-240HX3-N+	Natural	15,000	160,000	4.0	10.5	0.95
ATO-240HX3-P+	Propane	13,000	160,000	8.0	14.0	0.95
ATO-340HX3-N	Natural	15,000	180,000	4.0	10.5	0.94
ATO-340HX3-P	Propane	13,000	180,000	8.0	14.0	0.94
ATO-540HX3-N+	Natural	15,000	199,000	4.0	10.5	0.95
ATO-540HX3-P+	Propane	13,000	199,000	8.0	14.0	0.95

Maximum	Hot/Cold	Gas	[Dimensi	ons in l	nches	Approx. Shipping
	Connections		Height	Width	Depth	Height with Cartridge	
Indoor Mo	dels						` ′
6.6	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	72
6.6	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	72
8	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	72
8	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	72
10	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	73
10	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	73
Outdoor M	lodels						
6.6	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	71
6.6	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	71
8	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	71
8	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	71
10	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	73
10	3/4" NPT	3/4" NPT	23-5/8	17-3/4	11-1/4	35-9/16	73

¹⁵⁻¹⁵⁰ PSI Water Pressure. 40 PSI or above recommended for maximum flow.

^{*}Current numbers based on factory testing; 0.5 GPM for activation; 0.4 GPM required for continuous fire after initial ignition. Indoor models are certified from sea level to 10,100 ft. elevations. Outdoor models are certified from sea level to 6,000 ft. elevation.

⁺ENERGY STAR® Qualified

RESIDENTIAL TANKLESS

PROLINE® XE CONDENSING WITH RECIRCULATION PUMP





INDOOR MODEL



OUTDOOR MODEL









ANSI Z21.10.3 • CSA 4.3

*Select models

Integrated Recirculation Pump

- Simplify installation by eliminating added time and money spent sourcing and installing pump and controls
- Integrated front panel controls are easy to view and set
- 1/2" pipe 200'
- 3/4" pipe 500'

Pump Controls

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

ENERGY STAR® Oualified*

Ultra-Low NOx Emissions

 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

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 Up to 8 Heaters

 Easy-link with up to three 540H condensing tankless heaters to increase flow capacity

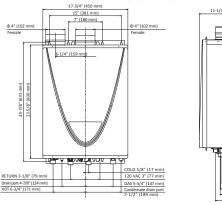
Safety Features

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

Internal Freeze Protection

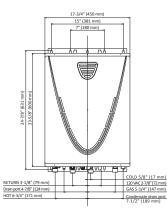
- 15-year limited warranty on heat exchanger in residential applications
- 5-year limited warranty on heat exchanger in commercial applications
- 5-year warranty on all parts

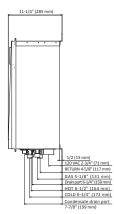
INDOOR MODEL





OUTDOOR MODEL





Model		Gas Consun	nption Input	Inlet Gas P	ressure***
Number*	Туре	Minimum** (BTU/H)	Maximum (BTU/H)	Minimum (in. W.C.)	Maximum (in. W.C.)
ATI-540P-N	Natural	15,000	199,000	4.0	10.5

Model	Indoor Model	Outdoor Model	Connections Sizing Chart (Number of Shower			
Number*	UEF	UEF+	Water	Gas	Cold Climate†	Warm Climate‡
ATI-540P-N	0.93	0.95	3/4" NPT	3/4" NPT	3	4.5

Model		Approx Shipping			
Number*	Тор	Bottom	Side	Front	Weight (lbs)
ATI-540P-N	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
- +ATO-540P-N and ATO-540P-P are ENERGY STAR® Qualified

RESIDENTIAL TANKLESS

PROLINE® XE CONDENSING HIGH EFFICIENCY





INDOOR MODEL



OUTDOOR MODEL









ANSI Z21.10.3

371 4.3

Condensing Technology Provides Up to 0.91 UEF

Ultra-Low NOx Emissions

 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

Copper Primary Heat Exchanger

 25x better heat transfer than stainless steel thus stabilizing outgoing water temperature quicker and reducing pressure drop across the heat exchanger

Secondary Heat Exchanger

Marine-Grade 316L stainless steel to protect against corrosion

Indoor Models

- Include a built-in temperature controller and advanced diagnostics to simplify troubleshooting
- Include factory-installed power cords

Outdoor Models

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

Electronic Ignition - No Pilot Light

Safety Features:

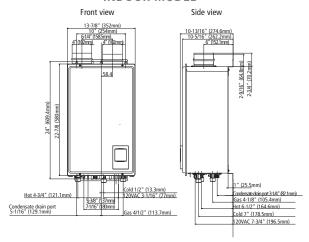
- · Air-Fuel Ratio (AFR) Sensor
- Exhaust & Water Temperature Safety Control
- Overheat Cut-Off Fuse

Internal Freeze Protection System

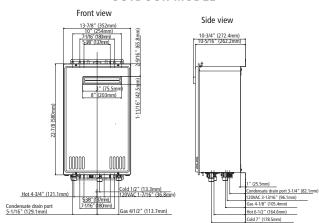
Power Vent or Power Direct Vent Design

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

INDOOR MODEL



OUTDOOR MODEL



Model _		Gas Consum	nption Input	Inlet Gas Pressure***		
Number*	Туре	Minimum** (BTU/H)	Maximum (BTU/H)	Minimum (in. W.C.)	Maximum (in. W.C.)	
ATI-140H-N	Natural	15,000	120,000	4.0	10.5	

Model	Indoor Model	Outdoor Model	Connections		Sizing (Number o	Chart f Showers)
Number*	UEF	UEF	Water	Gas	Cold Climatet	Warm Climate‡
ATI-140H-N	0.90	0.91	3/4" NPT	1/2" NPT	1.5	2.5

Model		Clearance	s (in.)		Approx Shipping
Number*	Тор	Bottom	Side	Front	Weight (lbs)
ATI-140H-N	12	12	3	4	54

^{*}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

RESIDENTIAL TANKLESS & COMMERCIAL

PROLINE® XE CONDENSING HIGH EFFICIENCY





INDOOR MODEL



OUTDOOR MODEL











ANSI Z21.10.3 CSA 4.3

*Select models

ENERGY STAR® Qualified*

Condensing Technology Provides Up to 0.95 UEF

Ultra-Low NOx Emissions

 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

Maximum Flow Rates up to 10.0 GPM

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 marinegrade 316L stainless steel to protect against corrosion

Indoor Models

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

Outdoor Models

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

Common Vent Indoor Models up to 8 Units

540H Can Be Used In Both Residential and Commercial Applications

- · Easy-link up to 4 heaters
- Multi-link up to 20 heaters

Safety Features

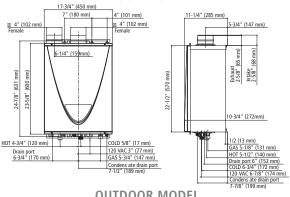
- · Air-Fuel Ratio (AFR) Sensor
- Exhaust & Water Temperature Safety Control
- Overheat Cut-off Fuse

Internal Freeze Protection System

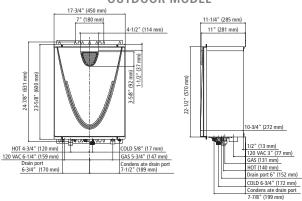
Power Vent or Power Direct Vent Design

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

INDOOR MODEL



OUTDOOR MODEL



Model		Gas Consum	ption Input	Inlet Gas I	Pressure***
Number*	Туре	Minimum** (BTU/H)	Maximum (BTU/H)	Minimum (in. W.C.)	Maximum (in. W.C.)
ATI-240H-N	Natural	15,000	160,000	4.0	10.5
ATI-340H-N Natural		15,000	180,000	4.0	10.5
ATI-540H-N	Natural	15,000	199,000	4.0	10.5

Model	Indoor Model	Outdoor Model	Connections		Sizing Chart (Number of Showers)		
Number*	UEF	UEF	Water	Gas	Cold Climate†	Warm Climate‡	
ATI-240H-N	0.94	0.95+	3/4" NPT	3/4" NPT	2.5	3.5	
ATI-340H-N	0.95+	0.94	3/4" NPT	3/4" NPT	2.5	4.0	
ATI-540H-N	0.93	0.95+	3/4" NPT	3/4" NPT	3	4.5	

Model		Approx			
Number*	Тор	Bottom	Side	Front	Shipping Weight (lbs)
ATI-240H-N	12	12	3	4	71
ATI-340H-N	12	12	3	4	71
ATI-540H-N	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

⁺ENERGY STAR® Oualified

RESIDENTIAL TANKLESS

PROLINE® XE NON-CONDENSING CONCENTRIC VENT













ANSI Z21.10.3



(510c models only)

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 and other air quality management districts with similar requirements for Ultra-Low NOx emissions 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 (AFR) Sensor
- Exhaust & Water Temperature Safety Control
- Overheat Cut-Off Fuse

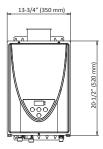
Internal Freeze Protection

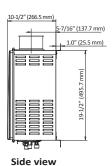
Warrantv

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

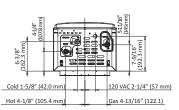


Top view





Front view



Bottom view

Model	Gas Consu	mption Input	Inlet Gas Pressure**		
Number*	Minimum (BTU/H)	Maximum (BTU/H)	Minimum (in. W.C.)	Maximum (in. W.C.)	
ATI-310C-N	15,000	190,000	4.0	10.5	
ATI-510C-N	15,000	199,000	4.0	10.5	

Model	UEF	Connections (Nu		Sizing (Number o	Chart f Showers)
Number*	UEF	Water	Gas	Cold Climate†	Warm Climate‡
ATI-310C-N	0.81	3/4" NPT	3/4" NPT	2.5	3.5
ATI-510C-N	0.81	3/4" NPT	3/4" NPT	2.5	3.5

Model	Model Clearances (in.)					
Number*	Тор	Bottom Side		Front	Shipping Weight (lbs)	
ATI-310C-N	12	12	3	4	55	
ATI-510C-N	12	12	3	4	55	

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

^{**}When converted for propane, 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 TANKLESS & COMMERCIAL

PROLINE® XE NON-CONDENSING ULTRA-LOW NOX





INDOOR MODEL



OUTDOOR MODEL











ANSI Z21.10.3

Ultra-Low NOx Emissions

 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

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

Outdoor Models

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

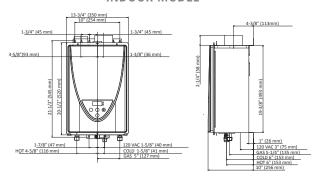
- Air-Fuel Ratio (AFR) Sensor
- Exhaust & Water Temperature Safety Control
- Overheat Cut-Off Fuse

Internal Freeze Protection

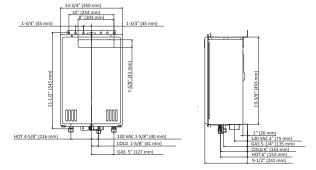
Power Vent or Power Direct Vent Design

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

INDOOR MODEL



OUTDOOR MODEL



Model		Gas Consun	nption Input	Inlet Gas Pressure**		
Number*	Туре	Minimum (BTU/H)	Maximum (BTU/H)	Minimum (in. W.C.)	Maximum (in. W.C.)	
ATI-110U-200	Natural	15,000	140,000	4.0	10.5	
ATI-310U-200	Natural	15,000	190,000	4.0	10.5	
ATI-510U-200	Natural	15,000	199,000	4.0	10.5	

Model	Indoor Model	Outdoor Model	Connections			Chart f Showers)
Number*	er* UEF UEF		Water	Gas	Cold Climate†	Warm Climate‡
ATI-110U-200	0.81	0.81	3/4" NPT	3/4" NPT	1.5	2.5
ATI-310U-200	0.81	0.82	3/4" NPT	3/4" NPT	2.5	3.5
ATI-510U-200	0.81	0.81	3/4" NPT	3/4" NPT	2.5	3.5

Model		Approx Shipping			
Number*	Тор	Bottom	Side	Front	Weight (lbs)
ATI-110U-200	12	12	3	4	39
ATI-310U-200	12	12	3	4	39
ATI-510U-200	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.

^{**}When converted for propane, 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

COMMERCIAL TANKLESS -

NON-CONDENSING HEAVY-DUTY





ASME Models Available

5" Category III Stainless Steel Venting

Vertical or Horizontal Venting Installation

Power Vent or Convertible to Power Direct Vent

Electronic Ignition

Low NOx Emissions

Combined Indoor/Outdoor Models

Easy-Link up to 4 Units

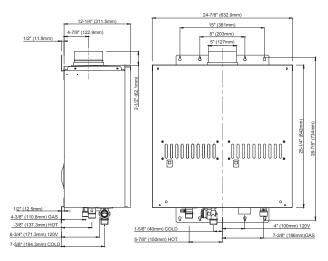
Multi-Link up to 10 Units

- · 6-year limited warranty on heat exchanger
- 5-year limited warranty on all parts









Madal		Gas Consur	nption Input	Inlet Gas	Pressure**
Model Number*	Туре	Minimum (BTU/H)	Maximum (BTU/H)	Minimum (in. W.C.)	Maximum (in. W.C.)
ATIO-910-N	Natural	15,000	380,000	5.0	10.5
ATIO-910-AN	Natural	15,000	380,000	5.0	10.5

Model	Thermal	Connections		Sizing (Number o	
Number*	Efficiency	Water	Gas	Cold Climate†	Warm Climate‡
ATIO-910-N	80%	1" NPT	1" NPT	5	7
ATIO-910-AN	80%	1" NPT	1" NPT	5	7

Model	Model Clearances (in.)					
Number*	Тор	Bottom	Side	Front	Shipping Weight (lbs)	
ATIO-910-N	12	12	2	24	113	
ATIO-910-AN	12	12	2	24	113	

^{*&}quot;-AN" means ASME rated. For propane models, change "N" to "P".

^{**}For propane models, minimum inlet gas pressure is $\bar{8}.0$ 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 TANKLESS

PROLINE® XE COMBI BOILER













ANSI Z21.13 • CSA 4.9

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

User Friendly Controls

 Programming the combi boiler takes less than two minutes and uses plain text rather than number codes

Quicker Domestic Hot Water Response

 Advanced control technology prevents the cold water sandwich often found with other combi boilers

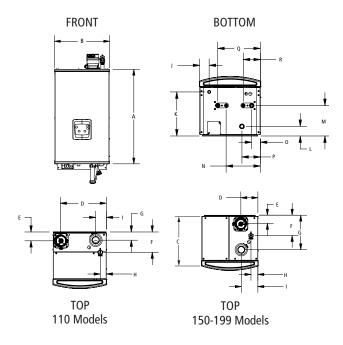
Power Direct Vent Design

 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 Maximum Working Pressure

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

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



Model	Gas Consun	nption Input		Heating	Net AHRI
Number*	Minimum BTU/H	Maximum BTU/H	AFUE%	Capacity BTU/H	Rating BTU/H**
ACB-110S-N	11,000	110,000	95.0	102,000	89,000
ACB-150S-N	15,000	150,000	95.0	139,000	121,000
ACB-199S-N	19,900	199,000	95.0	185,000	161,000

Minimum	Maximum	GPM at	Water Connections		Gas	Approx.
in. W.C.†	in. W.C.	77°F Rise	Space Heating	DHW	Connection	Shipping Weight (lbs)
4.0	14.0	2.6	1" NPT	3/4" NPT	1/2" NPT	139
4.0	14.0	3.6	1" NPT	3/4" NPT	1/2" NPT	142
4.0	14.0	4.8	1" NPT	3/4" NPT	1/2" NPT	159

Model	Dimensions					
Number*	Α	В	С			
ACB-110S-N	32-1/2"	17-1/4"	18"			
ACB-150S-N	32-1/2"	18-3/4"	18"			
ACB-199S-N	32-1/2"	18-3/4"	18"			

^{*}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.

The ratings have been determined under the provisions governing forced draft boilers.

^{**}The Net AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15. The manufacturer should be consulted before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

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

COMMERCIAL TANKLESS

RACK SYSTEM



Wall Mount



Freestanding



Back-to-Back

Multiple Design and Installation Configurations

- Wall mount, freestanding in-line, and freestanding back-to-back designs
- · Indoor and outdoor rack designs
- Uses the CT-199 high efficiency condensing tankless heaters.

Expandable

- Up to 1,194,000 BTU on a single rack system
- Able to link up to 20 heaters together with Multi-Link system

Redundancy

- Multiple combustion systems provide piece of mind
- Easily isolate a unit for maintenance which extends the life of the heaters

Lightweight

- · Anodized aluminum frame
- Utilizes the industry's lightest 199,000 BTU high efficiency condensing tankless heater

Easy Field Installation

 Reduce installation costs with three simple connections (cold water, hot water, and gas)

Ultra-Low NOx Emissions

 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.

- 6-year limited warranty on heat exchanger
- 5-year limited warranty on tankless parts
- 1-year limited warranty on rack parts

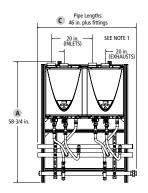
		Btu	h Input	Max	Flow (G	PM)
Model Number	Number of Heaters	Min	Max	@ 50°F Rise	@ 70°F Rise	@ 100°F Rise
Wall Mount						
ACI-CRS-22WM-N	2	15,000	398,000	15.2	10.8	7.6
ACI-CRS-22WM-P	2	13,000	398,000	15.2	10.8	7.6
ACI-CRS-23WM-N	2	15,000	398,000	15.2	10.8	7.6
ACI-CRS-23WM-P	2	13,000	398,000	15.2	10.8	7.6
ACI-CRS-33WM-N	3	15,000	597,000	22.8	16.2	11.4
ACI-CRS-33WM-P	3	13,000	597,000	22.8	16.2	11.4
ACI-CRS-44WM-N	4	15,000	796,000	30.4	21.6	15.2
ACI-CRS-44WM-P	4	15,000	796,000	30.3	21.6	15.2
Freestanding						
ACI-CRS-24IL-N	2	15,000	398,000	15.2	10.8	7.6
ACI-CRS-24IL-P	2	13,000	398,000	15.2	10.8	7.6
ACI-CRS-26IL-N	2	15,000	398,000	15.2	10.8	7.6
ACI-CRS-26IL-P	2	13,000	398,000	15.2	10.8	7.6
ACI-CRS-36IL-N	3	15,000	597,000	22.8	16.2	11.4
ACI-CRS-36IL-P	3	13,000	597,000	22.8	16.2	11.4
Back-to-Back						
ACI-CRS-24B2B-N	2	15,000	398,000	15.2	10.8	7.6
ACI-CRS-24B2B-P	2	13,000	398,000	15.2	10.8	7.6
ACI-CRS-34B2B-N	3	15,000	597,000	22.8	16.2	11.4
ACI-CRS-34B2B-P	3	13,000	597,000	22.8	16.2	11.4
ACI-CRS-36B2B-N	3	15,000	597,000	22.8	16.2	11.4
ACI-CRS-36B2B-P	3	13,000	597,000	22.8	16.2	11.4
ACI-CRS-44B2B-N	4	15,000	796,000	30.4	21.6	15.2
ACI-CRS-44B2B-P	4	13,000	796,000	30.4	21.6	15.2
ACI-CRS-46B2B-N	4	15,000	796,000	30.4	21.6	15.2
ACI-CRS-46B2B-P	4	13,000	796,000	30.4	21.6	15.2
ACI-CRS-56B2B-N	5	15,000	995,000	38	27	19
ACI-CRS-56B2B-P	5	13,000	995,000	38	27	19
ACI-CRS-66B2B-N	6	15,000	1,194,000	45.6	32.4	22.8
ACI-CRS-66B2B-P	6	13,000	1,194,000	45.6	32.4	22.8

^{*}For outdoor models, change ACI to ACO

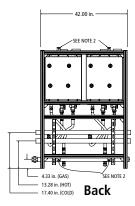
COMMERCIAL TANKLESS-

RACK SYSTEM (CONTINUED)

Wall Mount



Front



- NOTES:

 1. TOP-MOUNTED AIR SUPPLY INLEF/EXHAUST VENTS ARE USED WITH INDOOR MODELS ONLY.

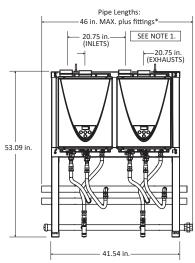
 2. MOUNTING BRACKETS ADJUST HORIZONTALLY ALONG CHANNEL SLOTS.

 3. INDOOR AND OUTDOOR RACK SYSTEMS HAVE IDENTI-CAN INJURSEMENTS EXCEPTION. INDOOR MODELS HAVE.
- CAL DIMENSIONS. EXCEPTION: INDOOR MODELS HAVE TOP-MOUNTED INTAKES AND EXHAUSTS. OUTDOOR MODELS DO NOT.



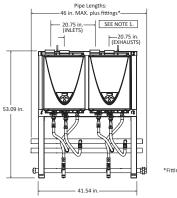
Bottom

Freestanding



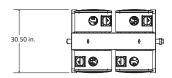
Front

Back-to-Back



*Fittings to be field supplied.

Front



Тор

NOTES:

1. TOP-MOUNTED AIR SUPPLY INLET/EXHAUST VENT ARE USED WITH INDOOR MODELS ONLY.

2. INDOOR AND OUTDOOR RACK SYSTEMS HAVE IDENTICAL DIMENSIONS. EXCEPTION: INDOOR MODELS HAVE TOP-MOUNTED INTAKES AND EXHAUSTS. OUTDOOR MODELS DO NOT.

		Dimensions (in))	Approx
Model Number	A Length	B Width	C Height	Shipping Weight (lbs)
Wall Mount	Length	vvidtii	Height	weight (ibs)
ACI-CRS-22WM-N	46	13.02	57	240
ACI-CRS-22WM-P	46	13.02	57	240
ACI-CRS-23WM-N	66	13.02	57	250
ACI-CRS-23WM-P	66	13.02	57	250
ACI-CRS-33WM-N	66	13.02	57	350
ACI-CRS-33WM-P	66	13.02	57	350
ACI-CRS-44WM-N	87.54	13.02	57	550
ACI-CRS-44WM-P	87.54	13.02	57	550
Freestanding				
ACI-CRS-24IL-N	46	20	53.09	330
ACI-CRS-24IL-P	46	20	53.09	330
ACI-CRS-26IL-N	66	20	53.09	396
ACI-CRS-26IL-P	66	20	53.09	396
ACI-CRS-36IL-N	66	20	53.09	448
ACI-CRS-36IL-P	66	20	53.09	448
Back-to-Back				
ACI-CRS-24B2B-N	46	30.5	53.09	330
ACI-CRS-24B2B-P	46	30.5	53.09	330
ACI-CRS-34B2B-N	46	30.5	53.09	404
ACI-CRS-34B2B-P	46	30.5	53.09	404
ACI-CRS-36B2B-N	66	30.5	53.09	447
ACI-CRS-36B2B-P	66	30.5	53.09	447
ACI-CRS-44B2B-N	46	30.5	53.09	481
ACI-CRS-44B2B-P	46	30.5	53.09	481
ACI-CRS-46B2B-N	66	30.5	53.09	519
ACI-CRS-46B2B-P	66	30.5	53.09	519
ACI-CRS-56B2B-N	66	30.5	53.09	597
ACI-CRS-56B2B-P	66	30.5	53.09	597
ACI-CRS-66B2B-N	66	30.5	53.09	674
ACI-CRS-66B2B-P	66	30.5	53.09	674

^{*}For outdoor models, change ACI to ACO

COMMERCIAL WATER SYSTEMS -

BUILDING MANAGEMENT SYSTEM BACnet & MODBUS INTERFACE

Connect Your A. O. Smith Water Heater to your Building Management System Using the New Millennium Control from ICC (Industrial Control Communications, Inc.)

- Works with Cyclone, DSE/DVE/DHE (Except BTX-80)
- Use the ICC Control to enable/disable the water heater
- Change Temperature Set points and differentials
- Two models with four different configurations to connect to BACnet and Modbus
- Ethernet and Serial RS-485 versions available
- 2 wire or 4 wire RS-485 Network
- Power can be supplied via the USB cable, as a 7-24 VDC input on the main terminal Block, or via IEEE 802.3af Power over Ethernet (PoE on ETH-1000 only)
- Configure protocols, network characteristics, and client/server object definitions
- Graphically interact with the internal database in real-time via USB connection
- Automatically discover and configure IP settings Ethernet gateways connected to the current subnet
- Update Firmware

Building Management System BACnet and Modbus Interface

BMS gateway for control of A. O. Smith Water Heaters

Connect your A. O. Smith water heater to your building management system using the new Millennium control from ICC* (Industrial Control Communications, Inc.)

 Works with Cyclone, BTH, BTHL, BTX-100 and BTXL-100, DHE/DVE, DSE and DVE



Kit Part #	Connection Type
100316044	Serial
100316045	Ethernet (IP)

One unit needed per water heater.

RESIDENTIAL

ELECTRIC TANKLESS





RESIDENTIAL



COMMERCIAL





Dry-Fire Protection

- · Prevents element failure due to dry fire
- Internal air bypass
 - · Temporary shutoff with excess air in chamber

Wide Variety of KW and Voltage Options for Every Application

- 12.2kW 32kW
- 208V and 240V options

Easy Install

- · Mounts easily to the wall
- · No venting required
- 3/4" NPT water connections
- No T&P valve required (check local codes)

Continuous Hot Water When Sized Appropriately

Scale-Reduction Technology

- Reduces failures and service requirements due to hard scale buildup
- Power-sharing technology reduces scale deposits on the element
- Dupont[™] Zytel[®] chambers naturally resist scaling buildup

Soft Start

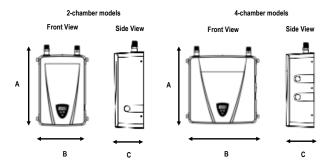
• Unit will not cause lights to dim with hard electricity draw

Code Compliance

- Meets current UBC and CEC National Codes
- Meets or exceeds current federal minimum energy standards, according to the National Appliance Energy Conservation Act (NAECA)
- Listed and tested to UL 499 Appliance and UL 834 Space Heating standards
- Control tested to achieve temperature limit control requirements of UL 353 and CSA C22.2

5-Year Limited Warranty

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



			_		Dimensions (in)		(in)	Approx.			
Model Number	(kW)	Voltage (V)	Amperage (A)	UEF	А	В	С	Shipping Weight (lbs)			
Residential 2-Chamber Models											
R2VA-140E	14	240	58	0.84	17-3/4	11-1/2	6-1/8	13			
R2VA-140X	14	208	67	0.84	17-3/4	11-1/2	6-1/8	13			
R2VA-160E	16	240	67	0.84	17-3/4	11-1/2	6-1/8	13			
Residential	4-Chambe	er Models									
R4LA-180E	18	240	75	0.92	18-1/8	17	6-1/8	20			
R4LA-220E	22	240	92	0.92	18-1/8	17	6-1/8	20			
R4LA-240E	24	240	100	0.92	18-1/8	17	6-1/8	20			
R4LA-280E	28	240	117	0.92	18-1/8	17	6-1/8	20			
R4LA-280X	28	208	135	0.92	18-1/8	17	6-1/8	20			
R4MA-320E	32	240	133	0.93	18-1/8	17	6-1/8	20			

					Dim	ensions	(in)	Approx.		
Model Number	Wattage (kW)	Voltage (V)	Amperage (A)	А	В	С	Shipping Weight (lbs)			
Commercial 2-Chamber										
C2VA-120E	12.2	240	51	0.84	17-3/4	11-1/2	6-1/8	13		
C2VA-140E	14	240	58	0.84	17-3/4	11-1/2	6-1/8	13		
C2VA-140X	14	208	67	0.84	17-3/4	11-1/2	6-1/8	13		
C2VA-160E	16	240	67	0.84	17-3/4	11-1/2	6-1/8	13		
Commercia	l 4-Cham	ber								
C4LA-180E	18	240	75	0.92	18-1/8	17	6-1/8	20		
C4LA-220E	22	240	92	0.92	18-1/8	17	6-1/8	20		
C4LA-280E	28	240	117	0.92	18-1/8	17	6-1/8	20		
C4LA-280X	28	208	135	0.92	18-1/8	17	6-1/8	20		
C4MA-320E	32	240	133	0.93	18-1/8	17	6-1/8	20		

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

Temperature Range: 90°- 140°F.

Recommended that all wire be rated 90°C or greater.

Factory set point is 120°F. This can easily be changed in the field as needed or desired.

Refer to National Electric Code Article 220 for calculating load contribution.

240V models can run on 208V with 25% reduced power output.

Refer to local code where applicable.

^{*} Maximum recommended wire size is #6 cu AWG.

COMMERCIAL GAS -

CYCLONE® HE



ENERGY STAR® Qualified Power Vent Design for Installation Versatility

 Power vent using PVC, CPVC, ABS or Polypropylene either thru-the-wall or thru-theroof

Condensing Design

- Helical internal heat exchanger keeps hot combustion gases in the tank longer to extract more heat into the water
- High efficiency operation with 0.88 UEF (94% Thermal Efficiency) which saves money on operating costs compared to a standard efficiency gas water heater

High Output with Small Footprint

 22" diameter, combined with 90% efficiency, 50-gallon tank and 76,000 BTU input means Cyclone® HE can be installed in less space than a larger 75-gallon unit, with equal or better performance

Side-Mounted Hot and Cold Recirculating Taps

Two Heavy-Duty Anode Rods

3-Year Limited Tank and 1-Year Limited Parts Warranty

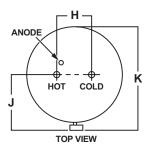
• For complete warranty information, consult written warranty or go to hotwater.com



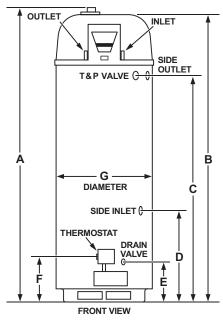








* INSTALL IN ACCORDANCE WITH LOCAL CODES



Model Number	Gallon Capacity	Recovery Capacity GPH @ 100°F Rise	BTU Input Per Hour	Approx. Shipping Weight (lbs)
BTX-80	50	83	76,000	225

Model	Dimensions in Inches						
Number	Α	В	С	D	Е		
BTX-80	71	68-5/8	52	21	9-1/8		

Model		Dim	ensions in In	ches	
Number	F	G	Н	J	K
BTX-80	12	22	8	15-3/4	27

Available in Natural Gas only.

Standard model certified from sea level to 5,300 ft. elevation. Order SMR S54 for elevations to 10,100 ft.

Optional Condensate Neutralization Kits available (Part Number 100112380).

COMMERCIAL GAS

CYCLONE® Xi















ENERGY STAR® QUALIFIED Condensing Design

- Helical internal heat exchanger keeps hot combustion gases in the tank longer to extract more heat into the water
- High efficiency operation with up to 0.88 UEF (96% Thermal Efficiency) which saves money on operating costs compared to a standard efficiency gas water heater

Advanced Electronic Control

- Optional Powered Anode available
- Exclusive A. O. Smith designed touch display control system
- · Precise temperature control
- · Built-in diagnostics and operational information

Power Direct Vent Design

- Power Direct vent using PVC, CPVC or Polypropylene either thru-the-wall or thru-theroof
- Optional concentric vent and low profile termination kits are available

Ultra-Low NOx

 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

Side-Mounted Hot and Cold Recirculating Taps

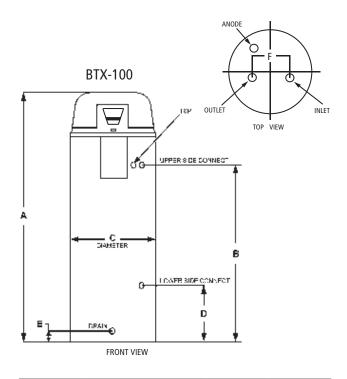
 Hot and cold "side taps" allow Vertex Power Direct Vent to be used for combination space/ water heating applications

Code Compliance

- Meets IBC 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

3-Year Limited Tank and Parts Warranty

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



Model Number	Gallon Capacity	Recovery Capacity GPH @ 100°F Rise	BTU Input Per Hour	Approx. Shipping Weight (lbs)
BTX-100	50	116	100,000	255

Model Number			Dimension	s in Inches		
	Α	В	С	D	Е	F
BTX-100	66-3/4	49-1/4	22	15-3/4	3	8

Standard model certified from sea level to 10,100 ft. elevation.

Available with a Powered Anode. Specify when ordering.

Optional Concentric Vent Kits (100109357) and Condensate Neutralization Kits (100112380).

Specify when ordering propane (LP) gas.

COMMERCIAL GAS -

CYCLONE® Xi













ENERGY STAR® QUALIFIED Condensing Design

- Helical internal heat exchanger keeps hot combustion gases in the tank longer to extract more heat into the water
- High efficiency operation with up to 0.88 UEF (96% Thermal Efficiency) which saves money on operating costs compared to a standard efficiency gas water heater

Advanced Electronic Control

- Optional Powered Anode available
- Exclusive A. O. Smith designed touch display control system
- · Precise temperature control
- · Built-in diagnostics and operational information

Power Direct Vent Design

- Power Direct vent using PVC, CPVC or Polypropylene either thru-the-wall or thru-theroof
- Optional concentric vent and low profile termination kits are available

Ultra-Low NOx

 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

Side-Mounted Hot and Cold Recirculating Taps

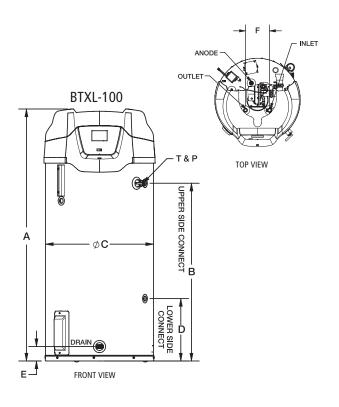
 Hot and cold "side taps" allow Vertex Power Direct Vent to be used for combination space/ water heating applications

Code Compliance

- · Meets IBC 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

3-Year Limited Tank and Parts Warranty

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



Model Number	Gallon Capacity	Recovery Capacity GPH @ 100°F Rise	BTU Input Per Hour	Approx. Shipping Weight (lbs)
BTXL-100	75	116	100,000	382

Model Number	Dimensions in Inches						
	А	В	С	D	E	F	
BTXL-100	65-1/4	45-5/8	27-3/4	16	3-3/4	8	

Standard model certified from sea level to 10,100 ft. elevation.

Available with a Powered Anode. Specify when ordering.

Optional Concentric Vent Kits (100111100) and Condensate Neutralization Kits (100112380).

Specify when ordering propane (LP) gas.

COMMERCIAL GAS -

CYCLONE® MXi—MODULATING













High Efficiency Modulating Pre-Mix **Powered Burner**

- Down-fired pre-mix burner provides optimum efficiency and guiet operation
- · Top-mounted burner position prevents condensation from affecting burner operation

Up to 98% Efficient

Intelligent Control System with Touch Screen Display

- · Exclusive A. O. Smith designed control system
- · Provides detailed water heater status information
- Precise temperature control adjustable from 90 to 180 degrees
- · Built-in diagnostics
- · Run history information
- · Cyclone water heaters include iCOMM remote connectivity: models 120-250 require optional Wi-Fi communications kit, models 300-500 come standard with Wi-Fi connectivity
- · Convenient iOS and Android Phone App

Submerged Combustion Chamber with Helical Heat Exchanger Coil

- · Positioned in center of tank, surrounded by water to virtually eliminate radiant heat loss from chamber
- · Direct spark ignition
- · Spiral heat exchanger keeps hot burner gases swirling, uses centrifugal force to maximize efficiency of heat transfer to water in tank
- · Spiral heat exchanger reduces lime scale from forming on water-side surfaces, which maintains energy efficiency over time

Power Anodes Standard on All Models

- Provides long-lasting tank protection in varying water conditions
- Powered anodes are non-sacrificial
- · Automatically adjusts output needed to properly protect the tank

3-Year Limited Tank and 1-Year Limited **Parts Warranty**

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

Model Number	Gallon Capacity	Recovery Capacity	Input BTU/HR	
BTH-120(A)	60 138		120,000	
BTH-150(A)	100	178	150,000	
BTH-199(A)	100	235	199,900	
BTH-250(A)	100	291	250,000	
BTH-300(A)	119	349	300,000	
BTH-400(A)	119	460	399,000	
BTH-500(A)	119	576	499,000	

Model Number	Approx. Shipping Weight (lbs) Std	Approx. Shipping Weight (lbs) ASME	
BTH-120(A)	460	490	
BTH-150(A)	523	553	
BTH-199(A)	523	553	
BTH-250(A)	523	553	
BTH-300(A)	855	855	
BTH-400(A)	855	855	
BTH-500(A)	855	855	

Optional Concentric Vent Kits 100111100 (BTH-120 through BTH-250 models).

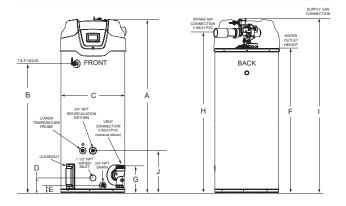
100113124 (BTH-300 through BTH-500 models). Electrical characteristics- 120V-60 Hz A.C., 5.0A.

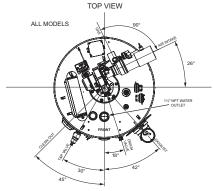
[&]quot;A" in the model number represents ASME construction. Models are certified from sea level to 10,100 ft. elevation.

COMMERCIAL GAS -

CYCLONE® MXi—MODULATING

(CONTINUED)





^{*} Center line of water outlet on top of the water heaters is approximately 7 inches from the front edge of the water heater

Model	Dimensions in Inches				
Number	Α	В	С	D	E
BTH-120(A)	3	27.75	6.3	35	53.5
BTH-150(A)	3	27.75	6.3	56.38	75.75
BTH-199(A)	3	27.75	6.3	56.38	75.75
BTH-250(A)	3	27.75	6.3	56.38	75.75

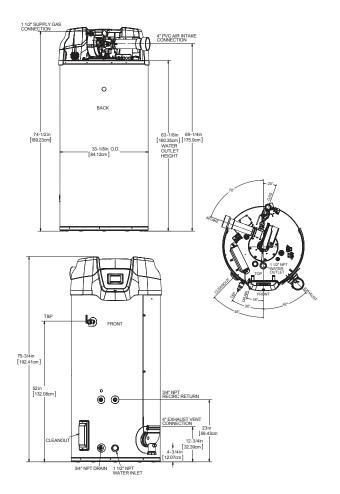
Model	Dimensions in Inches				
Number	F	G	Н	I	J
BTH-120(A)	55.5	11.25	42.25	48.5	18.25
BTH-150(A)	76	11.25	64	70	18.25
BTH-199(A)	76	11.25	64	70	18.25
BTH-250(A)	76	11.25	64	70	18.25

Optional Concentric Vent kit 100113124 (BTH-300 through BTH-500 models).

Electrical characteristics- 120V-60 Hz A.C., 5.0A.

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

[&]quot;A" in the model number represents ASME construction.



Model	Dimensions in Inches				
Number	Α	В	С	D	E
BTH-300(A)	4.75	33.12	4.75	52	75.75
BTH-400(A)	4.75	33.12	4.75	52	75.75
BTH-500(A)	4.75	33.12	4.75	52	75.75

Model	Dimensions in Inches				
Number	F	G	Н	1	J
BTH-300(A)	73.75	12.75	63.13	69.25	23
BTH-400(A)	73.75	12.75	63.13	69.25	23
BTH-500(A)	73.75	12.75	63.13	69.25	23

Optional Concentric Vent kit 100113124 (BTH-300 through BTH-500 models).

Electrical characteristics- 120V-60 Hz A.C., 5.0A.

"A" in the model number represents ASME construction.

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

CYCLONE® XL

















Extends Cyclone Condensing Products to 1,000,000 Btu/h

- High efficiency, condensing water heaters with modulating burner to 1,000,000 Btu/h
- Primary and secondary heat exchangers keep hot combustion gases in the tank longer to extract more heat into the water
- Models from 750,000 to 1,000,000 Btu/h deliver thermal efficiencies of 97%, saving money on operating costs
- PermaGlas® glass-lining provides superior protection against corrosion for the ASMEcertified tank and primary heat exchanger

Electronic Control & Display

- iCOMMTM connectivity platform provides diagnostic and operational information
- Integrated color touch display/control system is standard on all models
- Precise temperature control, adjustable from 90°
 F. to 180°
- Remote monitoring, diagnostic fault notifications, and control of the set point and differential via the free A.O. Smith mobile app

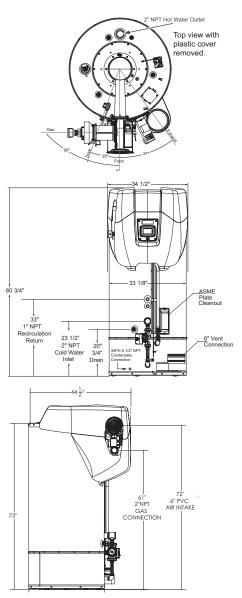
Primary and Seconday Heat Exchangers

- Glass-lined 304L stainless steel primary HX positioned in center of tank, surrounded by water, to virtually eliminate radiant heat loss from chamber
- Secondary HX (where condensing process occurs) constructed of type 316L stainless steel for additional corrosion resistence
- 2-step heat transfer process between primary and secondary HX maximizes heat transfer, creating thermal efficiency of 97%

Power Anodes Standard on All Models

- Provides long-lasting tank protection in varying water conditions
- Non-sacrificial powered anodes prevent lime scale from forming on water-side surfaces, which maintains energy efficiency over time
- Automatically adjusts output needed to properly protect the tank

5-Year Limited Tank and 1-year Limited Parts Warranty



Model Number	Gallon Capacity	Recovery Capacity	Input BTU/HR	Approx. Shipping Weight (lbs) ASME
BTHS-750A	120	882	750,000	1,300
BTHS-1000A	120	1,176	1,000,000	1,300

Electrical characteristics - 120V-60 Hz A.C., 5.0A

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

[&]quot;A" in model number represents ASME construction.

CYCLONE® LV (LARGE VOLUME)













(All models except BTHL-500)

Large Volume Tank + Condensing Design

- Large volume, integrated storage capacity to 250-gallons eliminates need for multiple water heaters or separate storage tank, saving space and install cost
- Helical internal heat exchanger keeps hot combustion gases in the tank longer to extract more heat into the water
- Models from 150,000 to 500,000 Btu/h deliver thermal efficiencies to 96%, saving money on operating costs
- PermaGlas[®] glass-lining process provides superior protection against corrosion for the large volume, ASME-certified storage tank

Electronic Control & Display

- iCOMMTM connectivity platform provides diagnostic and operational information
- Integrated color touch display/control system is standard on all models
- Precise temperature control, adjustable from 90°
 F. to 180° F
- Remote monitoring, diagnostic fault notifications, and control of the set point and differential via the free A. O. Smith mobile app

Submerged Combustion Chamber with Helical Heat Exchanger Coil

- Positioned in center of tank, surrounded by water to virtually eliminate radiant heat loss from chamber
- · Direct spark ignition
- Spiral heat exchanger keeps hot burner gases swirling, uses centrifugal force to maximize efficiency of heat transfer to water in tank
- Spiral heat exchanger reduces lime scale from forming on water-side surfaces, which maintains energy efficiency over time

Power Anodes Standard on All Models

- Provides long-lasting tank protection in varying water conditions
- · Powered anodes are non-sacrificial
- Automatically adjusts output needed to properly protect the tank

5-Year Limited Tank and 1-year Limited Parts Warranty

Model Number	Gallon Capacity	Recovery Capacity	Input BTU/HR	Approx. Shipping Weight (lbs) ASME
BTHL-150A	250	175	150,000	1125
BTHL-199A	250	230	199,900	1125
BTHL-250A	250	285	250,000	1125
BTHL-300A	220	342	300,000	1420
BTHL-400A	220	451	399,900	1420
BTHL-500A	220	557	499,900	1420

[&]quot;A" in model number represents ASME construction. Models are certified from sea level to 10,100 ft. elevation.

CYCLONE® LV (LARGE VOLUME)

BTHL 150A-250A

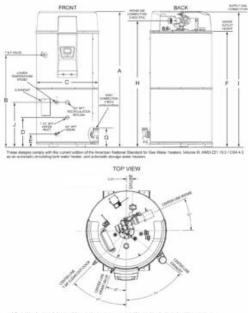


Figure 5. Rough-In Dimensions

Model	Dimensions								
Number	Α	В	С	D	Е				
BTHL-150A	91-1/2	62-5/8	42-1/8	20-1/2	8-1/2				
BTHL-199A	91-1/2	62-5/8	42-1/8	20-1/2	8-1/2				
BTHL-250A	91-1/2	62-5/8	42-1/8	20-1/2	8-1/2				

Model			Dimensions		
Number	F	G	Н	1	J
BTHL-150A	78-1/8	12	85	90-1/8	30-1/2
BTHL-199A	78-1/8	12	85	90-1/8	30-1/2
BTHL-250A	78-1/8	12	85	90-1/8	30-1/2

Optional Concentric Vent Kits available. 100111100 (BTHL-150A through BTHL-250A models).

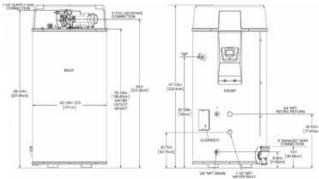
Optional Condensate Neutralization Kits available. 100112380 (BTHL-150A through BTHL-199A models), 100112381 (BTHL-250A through BTHL-500A models).

Electrical characteristics - 120V-60 Hz A.C., 5.0A

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

[&]quot;A" in model number represents ASME construction.

BTHL 300A-500A







Model			Dimensions		
Number	Α	В	С	D	E
BTHL-300A	91-1/2	62-5/8	42-1/8	20-3/4	8-1/2
BTHL-400A	91-1/2	62-5/8	42-1/8	20-3/4	8-1/2
BTHL-500A	91-1/2	62-5/8	42-1/8	20-3/4	8-1/2

Model			Dimensions		
Number	F	G	Н	1	J
BTHL-300A	78-1/8	12	84	89-3/4	30-1/2
BTHL-400A	78-1/8	12	84	89-3/4	30-1/2
BTHL-500A	78-1/8	12	84	89-3/4	30-1/2

Optional Concentric Vent Kits available. 100113124 (BTHL-300A through BTHL-500A models).

Optional Condensate Neutralization Kits available. 100112381 (BTHL-250A through BTHL-500A models).

Electrical characteristics - 120V-60 Hz A.C., 5.0A

"A" in model number represents ASME construction.

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

POLARIS® HIGH EFFICIENCY





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

Condensing Design

- Helical internal heat exchanger keeps hot combustion gases in the tank longer to extract more heat into the water
- High efficiency operation with up to 0.90 UEF (96% Thermal Efficiency) which saves money on operating costs compared to a standard efficiency gas water heater

Power Direct Vent Design

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

Whisper Quiet Operation

• Ultra guiet blower and burner minimize noise

Advanced Electronic Control

- Exclusive A. O. Smith designed touch display control system
- Precise temperature control
- Built-in diagnostics and operational information

Ultra-Low NOx

 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 IBC 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

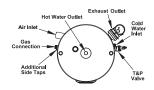
10-Year Limited Tank and 1-Year Parts Warranty

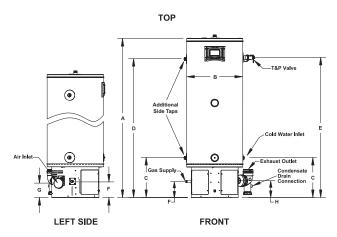












Model	Gallon	BTU/h Input Gallon	Thermal	Recovery @ 100° Rise	Dimei in In	nsions ches
Number	Capacity	Per Hour	Efficiency	Gallon Per Hour	Α	В
BSS 130	34	130,000	96%	149	48-1/2	22
BSS 150	34	150,000	94%	171	48-1/2	22
BTS 130	50	130,000	95%	149	62-3/8	22
BTS 150	50	150,000	95%	171	63-3/4	22
BTS 175	50	175,000	96%	200	63-3/4	22
BTS 199	50	199,000	96%	227	63-3/4	22

Model			1" Water Connections		Gas Supply*	Approx. Shipping
Number	Connection	С	D	E	F	Weight (lbs)
BSS 130	2 or 3	15-3/4	40-1/2	41	6-3/8	150
BSS 150	2 or 3	15-3/4	40-1/2	41	6-3/8	150
BTS 130	2 or 3	15-3/4	54-1/2	55	6-3/8	176
BTS 150	2 or 3	15-3/4	55-3/4	56-1/4	6-3/8	180
BTS 175	3	15-3/4	55-3/4	56-1/4	6-3/8	180
BTS 199	3	15-3/4	55-3/4	56-1/4	6-3/8	180

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

TX1 INTEGRATED TANKLESS ON TANK













Delivers 96% Thermal Efficiency Ultra-Low NOx Operation

 Complies with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements for ultra low-NOx emissions

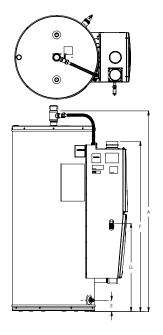
Uses CT-199 Commercial Tankless

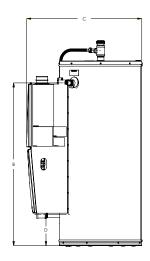
- Modulating burner
- Primary heat exchanger constructed of commercial grade copper
- Secondary heat exchanger constructed of 316 grade stainless steel
- Advanced electronic control with integrated diagnostics
- 185°F maximum temperature

119 Gallon Storage Tank

- 4.1 GPM pump
- Glass lined tank
- Multiple anodes to protect the tank
- Front water inlet and top water outlet

6 Year Limited Heat Exchanger and Tank, 5 Year Limited Parts Warranty





Model Number	Gallon Capacity	Input BTU/ HR	Thermal Efficiency %	Recovery @ 100° Rise GPH	Approx. Shipping Weight (lbs.)
ATX-199	119	199,000	96	232	520

	Model				Dimension	s		
Number	Α	В	С	D	E	F	G	
	ATX-199	72	58-11/16	41	11-13/16	4-5/16	61-3/8	30

Electrical characteristics-120V-60Hz A.C., 5.0 A

Propane gas models available
Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement

MASTER-FIT® BTR



The Eliminator™ Self-Cleaning System

- Designed to significantly reduce or eliminate sediment build-up inside the tank
- Reduced sediment build-up maintains rated thermal efficiency and reduces water heating costs
- · Self-cleaning system maximizes tank life

Factory-Installed Draft Diverter and Automatic Flue Damper (BTR-120-400 Models)

- BTR-500 Model features induced draft design and no damper
- Low-profile draft diverter helps for installation in tight spaces
- Automatic motorized flue damper helps minimize standby heat loss

Three Water Connection Options for Added Flexibility

- Hot and cold water connections can be made through front, top or rear of unit
- Eliminator™ system operates when cold water is connected through front

3-Year Limited Tank and 1-Year Warranty









Model Number	Gallon Capacity	Input BTU/HR Natural Gas	Recovery Capacity GPH @ 100°F Rise
BTR-120*	71	120,000	116
BTR-154	81	154,000	149
BTR-180	81	180,000	175
BTR-197	100	199,000	193
BTR-199	81	199,000	193
BTR-200 (A)	100	199,000	193
BTR-250* (A)	100	250,000	242
BTR-251* (A)	65	251,000	243
BTR-275* (A)	100	275,000	267
BTR-305 (A)	65	305,000	296
BTR-365 (A)	85	365,000	354
BTR-400 (A)	100	390,000	378
BTR-500 (A)	85	500,000	485

Specify when ordering propane (LP) gas.

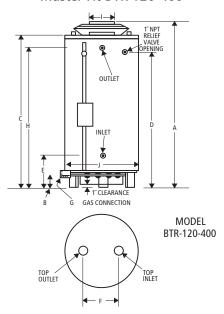
^{*}Model BTR 120 is shipped with 6" x 5" flue outlet adapter. Models BTR 250, 251 and 275 are shipped with a 8" x 6" flue outlet adapter.

Standard models certified from sea level to 2,000 ft. elevation. Order SMR S54 for elevations up to 8,000 ft.

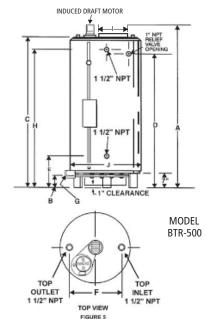
BTR-500 model features induced draft design and no damper.

MASTER-FIT® BTR (CONTINUED)

Master-Fit BTR 120-400



Master-Fit BTR 500



Model			Dimension	s in Inches		
Number	Α	В	С	D	Е	F
BTR-120*	69-3/4	4-1/4	59-1/2	50-7/8	19-11/16	19
BTR-154	67-1/2	4-1/2	62	53-5/8	20-1/2	21
BTR-180	67-1/2	4-1/2	62	53-5/8	20-1/2	21
BTR-197	75	4-1/2	70	61-5/8	20-1/2	21
BTR-199	67-1/2	4-1/2	62	53-5/8	20-1/2	21
BTR-200(A)	72	4-1/2	65-1/8	55-7/8	19-3/4	23
BTR-250*(A)	72	4-1/2	65-1/8	55-7/8	19-3/4	23
BTR-251*(A)	75	4-1/2	65-3/4	57-1/4	20	N/A
BTR-275*(A)	72	4-1/2	65-1/8	55-7/8	19-3/4	23
BTR-305 (A)	75	4-1/2	65-3/4	57-1/4	20	N/A
BTR-365 (A)	79-1/2	4-1/2	70-1/4	62-1/2	22-1/2	23
BTR-400 (A)	75-1/2	4-1/2	67-1/2	58-1/4	26-3/4	23
BTR-500 (A)	81-1/2	17-1/2	77-1/4	67-1/2	27	21

Model Number		Dimensions in Inches			Approx. Shipping Weight (lbs)	
Number	G	Н	I	J	Standard	ASME
BTR-120*	1/2	51-7/8	6	27-3/4	400	-
BTR-154	1/2	54-5/8	6	27-3/4	470	-
BTR-180	1/2	54-5/8	6	27-3/4	470	-
BTR-197		62-5/8	6	27-3/4	603	-
BTR-200(A)		56-3/8	6	30-1/4	630	725
BTR-250*(A)	1/2	56-3/8	8	30-1/4	630	725
BTR-251*(A)	1/2	58-3/4	8	27-3/4	750	862
BTR-275*(A)	1/2	56-3/8	8	30-1/4	630	725
BTR-305 (A)	1/2	58-3/4	8	27-3/4	750	862
BTR-365 (A)	3/4	63	8	27-3/4	725	833
BTR-400 (A)	3/4	59	8	30-1/4	760	874
BTR-500 (A)	1	67-1/2	8	27-3/4	812	857

Specify when ordering propane (LP) gas.

^{*}Model BTR 120 is shipped with $6" \times 5"$ flue outlet adapter. Models BTR 250, 251 and 275 are shipped with a $8" \times 6"$ flue outlet adapter.

Standard models certified from sea level to 2,000 ft. elevation. Order SMR S54 for elevations up to 8,000 ft.

BTR-500 model features induced draft design and no damper.

MASTER-FIT® ULTRA-LOW NOx



80% Thermal Efficiency means Lower Operating Costs

Fan Assisted Combustion

- The blower is built into the low NOx burner assembly
- Complies with California SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar NOx emission requirements of 14 ng/J or 20 ppm

Air-Flapper

 A stainless steel air flapper is used inside the premix system to replace externally mounted flue damper to minimize the standby heat loss and to minimize the overall heater height

Metal Venting

- Rated Category I Appliance. Uses standard double wall type "B" vent.
- Can be commonly vented with other Category I appliances
- Vent connects directly to the vent connector outlet
- An excellent choice for retrofit and upgrade installations

3-Year Limited Tank/1-Year Limited Parts Warranty











Model Number	Gallon Capacity	Input BTU/ HR	Recovery Capacity GPH @ 100°F Rise
BTL-120	BTL-120 81		115
BTL-154	81	154,000	148
BTL-180	81	180,000	173
BTL-198	81	199,000	191
BTL-199	100	199,000	191
BTL-250	100	250,000	240
BTL-275	100	275,000	264
BTL-310	86	310,000	298
BTL-366	86	366,000	352
BTL-400	86	390,000	375
BTL-250A	100	250,000	240
BTL-275A	100	275,000	264
BTL-310A	86	310,000	298
BTL-366A	86	366,000	352
BTL-400A	86	390,000	375

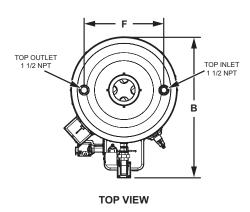
Electrical characteristics—120V-60 Hz A. C., 5.0A. (A) after model number designates ASME construction.

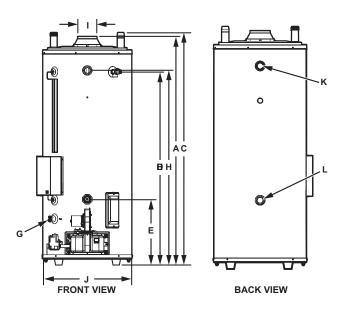
BTL 199 now available in Liquid Propane version

LEG KITS FOR UL SANITATION TO MEET NSF-5 (increases overall height by 4").

MASTER-FIT® ULTRA-LOW NOx

(CONTINUED)





Letter	BTL-120, 154, 180, 198	BTL-199, 250(A), 275(A)	BTL-310(A), 366(A), 400(A)				
	Dimensions in Inches						
Α	63-3/4	71-3/4	71-3/4				
В	37	37	37				
С	65	73	73				
D	52-3/4	60-3/4	60-3/4				
E	20-3/4	20-1/2	20-1/2				
F	21	21	21				
G		3/4 NPT					
Н	53	61	61				
I	6	6	6				
J	27-3/4	27-3/4	27-3/4				
K		1-1/2 NPT					
L		1-1/2 NPT					

Approx. Shipping Weight (lbs)	BTL-120, 154, 180, 198	BTL-199, 250(A), 275(A)	BTL-310(A), 366(A), 400(A)	
Standard	650	750	810	
ASME	N/A	800	860	

Electrical characteristics—120V-60 Hz A. C., 5.0A.
(A) after model number designates ASME construction.
LEG KITS FOR UL SANITATION TO MEET NSF-5 (increases overall height by 4").
BTL models not available in LP gas.

CONSERVATIONIST® BT













Glasslined Tank

- · Maximizes tank life
- · Fully Automatic Controls with Safety Shutoff
- Accurate, dependable control system requires no electric connections
- Fixed automatic gas shutoff device for added safety
- Not recommended for 180°F sanitizing

Heavy Gauge Steel Jacket

Finished with baked enamel over bonderized undercoat

Foam Insulation

- Saves fuel, helps reduce standby heat loss
- Low NOx

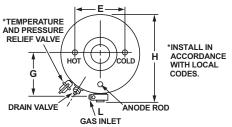
Complies with Texas and other Districts Requirements for NOx Emissions Less than 40 ng/j

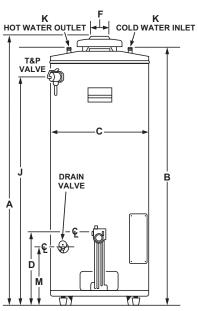
- · Saves fuel, helps reduce standby heat loss
- Low NOx

Easy-to-Install

- Completely factory-assembled
- Only gas, water and vent connections need be made
- All connections are located in front and top of heaters for ease of installation and service

3-Year Limited Tank / 1-Year Limited Parts Warranty





Model Number	Gallon Capacity	Input Rating BTU/HR	Recovery Capacity GPH @ 100°F Rise	Approx. Shipping Weight (lbs)
BT-80	74	75,100	73	275
BT-100	98	75,100	73	350

Model	Dimensions in Inches						
Number	Α	В	С	D	E	F	
BT-80	61-1/8	58-1/2	26-1/2	15-3/16	16	4	
BT-100	68-5/8	66-1/2	27-3/4	15-3/16	16	4	

Model	Dimensions in Inches					
Number	G	Н	J	K	L	M
BT-80	14-1/2	29-11/16	54-1/4	1	1/2	11-15/16
BT-100	15-3/4	30-15/16	54-1/4	1	1/2	11-15/16

NSF leg kit 100111360.

Specify when ordering (LP) gas.

CONSERVATIONIST® POWER VENT



Approval Rating and Certification

- All models comply with ANSI Z21.10.3/CSA 4.3 and ASHRAE/IES 90.1-2004
- Meets Texas and other low NOx areas requiring 40 ng/J
- All models are approved for use in combined appliance applications

CFC Free Foam Insulation

· Minimize radiant heat loss

Dip Tube

· Carries inlet water deep into the tank

Hot Surface Ignition

- Has a solid state ignition surface that does not flutter or blow out
- Provides increased reliability and efficiency over spark ignition systems
- · Eliminates the pilot and saves energy

User-Friendly

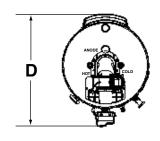
- State-of-art electronic gas control provides more precise temperature control
- LED control light displays operation status and diagnostics

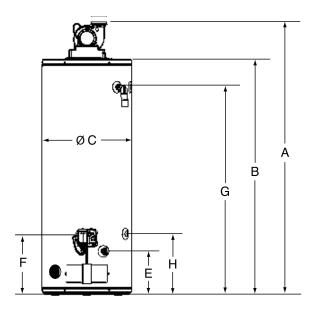
3-Year Limited Tank/1-Year Limited Parts Warranty











Model Number	Gallon Capacity	Btuh Input	Approx. Shipping Weight	
BTF-80	75	76,000	277 lbs	

Model Number	Dimensions in inches					
wodel Number	Α	В	С	D		
BTF-80	70-5/8	61-1/4	26	33-1/8		

Model Number	Dimensions in inches					
wodel Number	E	F	G	Н		
BTF-80	11	13-1/4	53	15-1/4		

Recovery capacity based on 81% thermal efficiency. Available in LP (Propane) gas. Can be installed up to 10,100 feet without alteration.

CONSERVATIONIST® POWER DIRECT VENT



DynaClean™ Diffuser Dip Tube

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

Blue Diamond® Glass Coating

 Provides superior corrosion resistance compared to the industry-standard glasslining

Hot Surface Ignition

- Has a solid state ignition surface that does not flutter or blow out
- Provides increased reliability and efficiency over spark ignition systems. Eliminates the pilot and saves energy

Standards

- Design-certified by CSA International, according to ANSI Z21.10.3-CSA 4.3 standards governing storage-type water heaters
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1

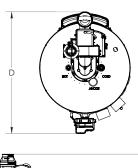
3-Year Limited Tank/1-Year Limited Parts Warranty

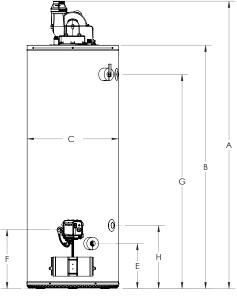












Model Number	Gallon Capacity	Btuh Input	Approx. Shipping Weight (lbs)	
BPD-80	75	72,000	277	

Model Number	Dimensions in Inches								
	Number	Α	В	С	D	Е	F	G	Н
	BPD-80	70-5/8	61-1/4	26	33-1/8	11	13-1/4	53	15-1/4

Specify when ordering propane (LP) gas. Can be installed up to 10,100 feet without alteration. Recovery capacity based on 81% thermal efficiency.

CONSERVATIONIST® ULTRA-LOW NOX









Code Compliance

 The Ultra-Low NOx atmospheric vent commercial gas water heater which meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and Current Edition ASHRAE/IES 90.1

Fully Automatic Controls with Safety Shutoff

- Accurate, dependable control system requires no electric connections
- Fixed automatic gas shutoff device for added safety
- · Not recommended for 180° F sanitizing

Heavy Gauge Steel Jacket

Finished with baked enamel over bonderized undercoat

Foam Insulation

· Saves fuel, helps reduce standby heat loss

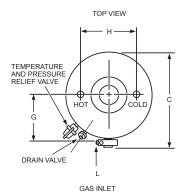
Ultra-Low NOx Emissions

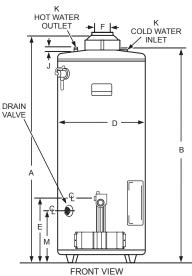
 Complies with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements of 14 ng/J or 20 ppm

Easy-to-Install

- Completely factory-assembled
- Only gas, water and vent connections need to be made
- All connections are located in front and top of heaters for ease-of-installation and service

3-Year Limited Tank and 1-Year Limited Parts Warranty





Model Number	Gallon Capacity	Input BTU/hr	Recovery Capacity GPH @ 100°F Rise	Approx. Shipping Weight (lbs)
BL-80 **	74	75,100	73	285
BL-100*	98	75,100	74	350

Dimensions in Inches							
Model Number	А	В	С	D	E		
BL-80 **	62-1/16	58	29-1/2	25-1/4	15-7/8		
BL-100*	70-1/2	66-1/2	30-15/16	27-3/4	15-3/16		

Dimensions in Inches							
Model Number	F	G	Н	J	К	L	М
BL-80 **	4	15-1/4	16	2	1	1/2	12-1/2
BL-100*	4	15-3/4	16	1-1/4	1-1/4	1/2	11-15/16

Natural gas only.
*Recovery rating based on 81% thermal efficiency
**Recovery rating based on 80% thermal efficiency

LOW NOx POWER BURNER







Venting Options

- BTP models designed for conventional atmospheric vertical venting
- Barometric draft regulating damper provided.
 Order Vent Kit Part #100125540
- BTPV models designed for horizontal atmospheric sidewall venting or direct venting
- For sidewall venting order Vent Kit Part #100125500
- For direct venting order Vent Kit Part #100131270

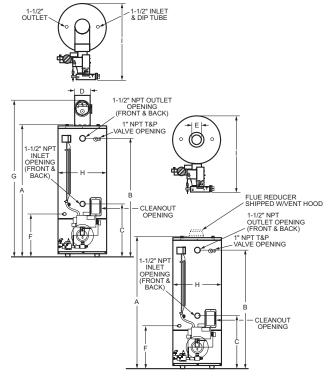
Low NOx Power Gas Burner (Natural Gas Only)

- Pre-mix design with internal Flue Gas Recirculation (FGR)
- Safety features include internal blocked flue sensor, separate pilot system, internal thermal cutoff and anti-flashback barrier

Fully Automatic Controls

- Including safety shut-off, high-temperature limit control
- Dual thermostat, adjust from 120°F to 180°F
- Factory start-up included; required for activating and assuring maximum performance.

3-Year Limited Tank and 1-Year Limited Parts Warranty



Model Number	Gallon Capacity	Input/BTU/HR Natural Gas	Recovery Capacity GPH @ 100°F Rise	Approx. Shipping Weight (lbs)
BTP(V)-540A	85	540,000	523	950
BTP(V)-650A	85	650,000	630	950
BTP(V)-740A	85	740,000	718	950

Model Number	Dimensions in Inches						
Model Number	Α	В	С	D	Е		
BTP(V)-540A	80-3/4	73	32-1/4	9	26-1/2		
BTP(V)-650A	80-3/4	73	32-1/4	9	26-1/2		
BTP(V)-740A	80-3/4	73	32-1/4	9	26-1/2		

Model Number	Dimensions in Inches					
Model Number	F	G	Н	I		
BTP(V)-540A	26-1/2	93	29-1/2	48-1/2		
BTP(V)-650A	26-1/2	93	29-1/2	48-1/2		
BTP(V)-740A	26-1/2	93	29-1/2	48-1/2		

Not available in propane (LP).

Vent Kit included in unit price if ordered with heater.

Authorizes start-up service included; required to activate warranty. Consult local factory representative (Continental U.S. only)

CONSERVATIONIST® DURACLAD OIL-FIRED TANK-TYPE



Efficient Combustion Chamber

- Precast, high temperature combustion chamber made of alumina silica ceramic fiber
- Engineered for maximum insulation and heat reflection
- Unique design assures more complete combustion by stabilizing flame pattern

Interrupted Ignition

• Reduces electrical consumption

Two Hand-hole Cleanouts

 Allows easy cleaning on standard models COF-385 and larger and ASME models

Easy-to-Install Burner

• Three-bolt mounting of burner assures easy installations.

3-Year Limited Tank and 1-Year Limited Parts Warranty

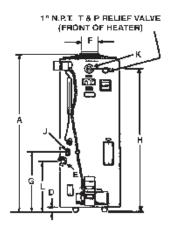
- Factory Start-Up included: required for activating warranty and assuring maximum operating performance (Continental U.S. only)
- For complete warranty information, consult written warranty or go to hotwater.com

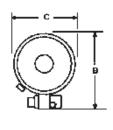












Model Number	Gallon Capacity	Input	RTII/HR Capacity GPH		Approx.	
Number	Capacity	DIO/IIK	@ 100° F Rise*	GPM	Standard	ASME
COF-199†	86	199,000	191	1.42	553	N/A
COF-245	86	245,000	235	1.75	554	N/A
COF-315	84	315,000	302	2.25	554	657
COF-385	75	385,000	369	2.75	624	742
COF-455	75	455,000	436	3.25	700	747
COF-700	69	700,000	671	5	739	822

Model	Dimensions in Inches						
Number	А	В	С	D	Е		
COF-199†	74-1/2	36-3/4	27-3/4	2	3/4 NPT		
COF-245	74-1/2	36-3/4	27-3/4	2	3/4 NPT		
COF-315A	74-1/2	36-3/4	27-3/4	2	3/4 NPT		
COF-385A	73-3/4	36-3/4	27-3/4	2	3/4 NPT		
COF-455A	73-3/4	36-3/4	27-3/4	2	3/4 NPT		
COF-700A	73-3/4	36-3/4	27-3/4	2	3/4 NPT		

Model		Dimensions in Inches					
Number	F	G	Н	J	K	L	
COF-199†	8	26-5/8	74-1/2	1-1/2 NPT	1-1/2 NPT	22-3/4	
COF-245	8	26-5/8	74-1/2	1-1/2 NPT	1-1/2 NPT	22-3/4	
COF-315A	8	26-5/8	74-1/2	1-1/2 NPT	1-1/2 NPT	22-3/4	
COF-385A	8	24-3/4	73-3/4	1-1/2 NPT	1-1/2 NPT	23-7/16	
COF-455A	8	24-3/4	73-3/4	1-1/2 NPT	1-1/2 NPT	23-7/16	
COF-700A	8	30-3/16	79-3/16	1-1/2 NPT	1-1/2 NPT	28-7/8	

^{*}Based on No. 2 fuel oil. All models have 1/8 HP motor.

Add "A" to the end of the model number for ASME tanks. (COF 315A - COF-700A only)

†Model supplied with Flue reducer which should be installed on top cover.

COMMERCIAL ELECTRIC

LIGHT-SERVICE







Designed for light duty commercial applications with intermittent hot water loads.

Glasslined Tank

• Tank interior is coated with glass specially designed by A. O. Smith for water heater use

Heating Elements

 Two 4.5 KW zinc plated copper sheathed elements are standard

Standard Voltages

• The standard voltage is 277V single phase

Top Mounted Recessed Junction Box

Controls

- Thermostat is adjustable through a range of 120° to 181°F with a manual reset high temperature cutoff
- The heater is wired for non-simultaneous single phase operation

Coregard[™] Anode Rod

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

Enhanced-Flow Brass Drain Valve

 Solid brass, tamper resistant, enhanced-flow, ball type, drain valve

Maximum Working Pressure 150 psi

Factory Installed CSA Certified and ASME Rated Temperature and Pressure Relief Valve

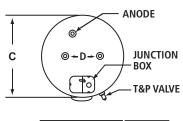
Certified to UL 1453 for Commercial Electric Water Heaters

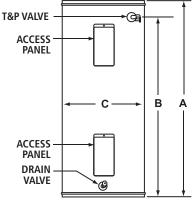
Compliance

 Meets the standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1

Warranty

- 6-Year limited tank/1-Year limited parts.
- For complete information consult the written warranty or hotwater.com





Model	Gallon	Standard Element	D	Approx. Shipping			
Number	Capacity	Wattage 277 VAC	Α	В	C Diameter	D	Weight (lbs)
LTE 66D	66	6100	60-1/4	53	22	8	146
LTE 80D	80	6100	60-1/2	52-1/4	24	8	175
LTE 120D	119	6100	61-1/2	54-1/2	28	8	268

Not available with top mounted T&P valve option

Element Wattage	U. S. Gallons/Hr at Temperature Rise Indicated					
(Upper/Lower)	F°	100				
Non-Simultaneous Operation						
6100/6100	GPH	24				
Simultaneous Operation						
6100/6100	GPH	49				

COMMERCIAL ELECTRIC

DEN/DEL ELECTRIC DURA-POWER™



Glasslined Tank

- · Thirteen sizes, 6 thru 119 gallon capacity
- · Tank interior is coated with glass specially designed by A. O. Smith for water heater use

Flements

- · Zinc plated copper sheaths for longer life
- · Medium watt density means lower surface temperature to minimize scale build-up and more surface to heat water

Standard Voltages

- 120, 277 single phase and 208, 240 and 480V unbalanced three-phase delta; easily converted to single-phase at terminal block (except 208V with 6000 watt elements).
- · Single element heater, single-phase only

Terminal Block

- Factory-installed. Just bring the service to heater and connect to block
- · Terminal block not supplied on 120V & 277 volt models (No junction box on DEL6-20)

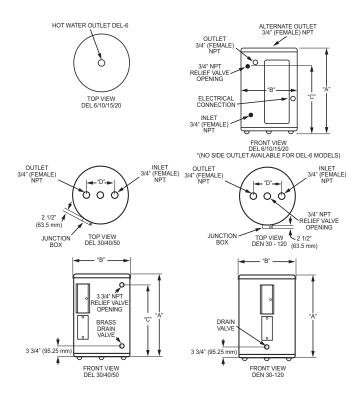






Element Wattage	U. S. Gallons/Hr at Tem	perature Rise Indicated
(Upper/Lower)	F°	100
Non-Simultaneous Operation		
/1500	GPH	6
/2000	GPH	8
/2500	GPH	10
3000/3000	GPH	12
4000/4000	GPH	16
4500/4500	GPH	18
5000/5000	GPH	20
6000/6000	GPH	24
Simultaneous Operation		
3000/3000	GPH	24
4000/4000	GPH	32
4500/4500	GPH	36
5000/5000	GPH	41
6000/6000	GPH	49

6 gallon model not available above 3.0 kW. Single element heaters available in single phase only.



Model Number	Nominal Capacity	Dimensions in Inches				Approx.
		A	В	С	D	Weight (lbs.)
DEL-6	6	15-1/2	14-1/4	11	N/A	35
DEL-10	10	18-1/4	18	12-1/2	N/A	54
DEL-15	15	26	18	20-1/2	N/A	58
DEL-20	20	22-1/4	21-3/4	15-3/8	N/A	73
DEL-30	36	32	24	24	8	118
DEL-40 **	38	32	23	24	8	118
DEL-50	51	36	26-1/2	25	8	172
DEN-30	40	49-3/4	20-1/2	40-3/4	8	109
DEN-40	50	59	20-1/2	51-1/4	8	125
DEN-52	55	56-1/2	24	48-1/2	8	145
DEN-66	66	60-3/4	21-3/4	N/A	8	176
DEN-80	80	59-3/8	24	N/A	8	211
DEN-120	120	62-7/16	29-3/8	N/A	8	326

^{*}No side outlet available on DEL-6 Model

Note: All 66, 80, 120 models can only be ordered 277V, 240V, or 480V

^{**}Blanket model

COMMERCIAL ELECTRIC GOLD Xi SERIES











(optional)



Advanced Electronic Control

Plain English text and animated icons display diagnostics

Economy Mode Operation Lowers the Operating Set Point and Reduces Operating Costs

Thermostatic Linear Sequencing Control Helps Reduce Current Surges and Provides Accurate Control of Water Temperature

Incoloy Elements

- All DVE models ship standard with incoloy elements
- Incoloy elements provide long life with superior scaling resistance

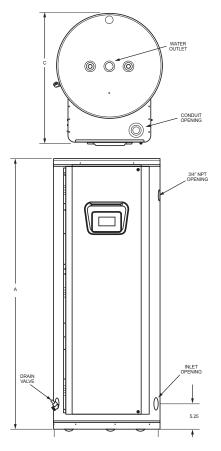
Standard Voltages

- 208, 240, 277, 480V single-phase and threephase delta
- Convertible from three-phase to singles-phase (in field) and vice versa (except 208/54kW) 277 single-phase only

Element availability

 DRE/DVE heaters available from 3kw to 54 KW with recoveries of 25 to 837 GPH at a 100°E rise

3-Year Limited Tank and 1-Year Limited Parts Warranty



Model Number	Gallon Capacity	Dim	Approx. Shipping		
		Α	В	С	Weight (lbs)
DVE-52	50	55-3/4	21-3/4	27	265
DVE-80	80	60-1/4	25-1/2	31	280
DVE-120	119	62-1/4	29-1/2	35	390

See specification sheets or contact your local rep for optional kW's available.

COMMERCIAL ELECTRIC

GOLD SERIES





- DRE models ship with incoloy elements (see spec sheet for kW options)
- Incoloy elements provide long life and superior scaling resistance

Fusing

- Protects all elements, thermostats, and internal wiring circuits against excess current flow
- Meets National Electrical Code requirements that non-ASME tanks must have internal fusing when current draw exceeds 48 amps
- Available as an option on Canadian-built heaters

Meets the Standby Loss Requirements of the U. S. Department of Energy and Current Edition of AHRAE/IES 90.1

Standard Voltages

- 208, 240, 277, 480V single-phase and threephase delta
- Convertible from three-phase to singles-phase (in field) and vice versa (except 208/54kW) 277 single-phase only

Element availability

 DRE/DVE heaters available from 3kw to 54 KW with recoveries of 25 to 837 GPH at a 100°F rise

3-Year Limited Tank and 1-Year Limited Parts Warranty

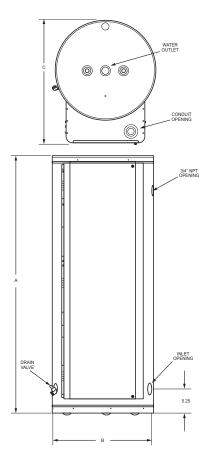
 For complete warranty information, consult written warranty or go to hotwater.com











Model	Model Gallon		Dimensions in Inches			
Number		А	В	С	Shipping Weight (lbs)	
DRE-52*	50	55-3/4	21-3/4	27	265	
DRE-80	80	60-1/4	25-1/2	31	280	
DRE-120	119	62-1/4	29-1/2	35	390	

^{*} DRE-52 is maximum 36kW.

See specification sheets or contact your local rep for optional kW's available.

COMMERCIAL ELECTRIC

HEAVY-DUTY CUSTOM Xi





• Provides Precise Temperature Control and Plain English Text with Animated Icons Display

Low-Water Cutoff—Remote Electronic Immersion-Type Probe to Prevent Energizing of the Elements, Eliminating Accidental Dry Firing

Incoloy-Sheath Heating Elements Standard

Factory-Wired, 120V Circuit Controls

Power-Circuit Fusing for System Protection

Glass-Lined Tank, with ASME Construction

CSA Certified and ASME Rated T&P Relief Valve

BACnet and Modbus Compatible with ICC Interface



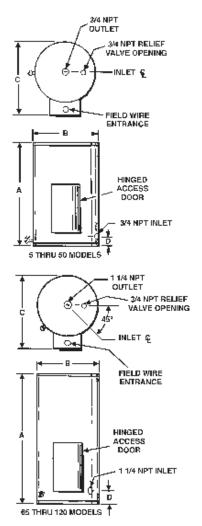
• For complete warranty information, consult written warranty or go to hotwater.com







Model Number	Tank Capacity		Maximum	Approx. Shipping Weight	
Nullibel	Gallons	Litres	kW Input	lbs.	Kg.
DSE-5A	5	19	3	82	37.2
DSE-10A	10	38	6	116	48.1
DSE-20A	20	76	18	145	65.7
DSE-30A	30	114	24	218	98.9
DSE-40A	40	151	36	245	111.1
DSE-50A	50	189	90	291	132.0
DSE-65A	65	246	90	344	156.0
DSE-80A	80	303	90	406	184.2
DSE-100A	100	379	90	419	190.1
DSE-120A	120	450	90	453	205.5



Model	Maximum	Dimensions in Inches				
Number	kW Input	А	В	С	D	
DSE-5A	3	22"	16"	24"	4.25"	
DSE-10A	6	28.13"	18"	26"	5.25"	
DSE-20A	18	31.75"	22"	28"	5.75"	
DSE-30A	24	43.25"	22"	28"	5.75"	
DSE-40A	36	54.75"	22"	28"	5.75"	
DSE-50A	90	66.19"	22"	28"	5.75"	
DSE-65A	90	57.25"	26.5"	32.5"	11.38"	
DSE-80A	90	58.13"	28"	35"	12.5"	
DSE-100A	90	70.25"	28"	35"	12.5"	
DSE-120A	90	70.25"	30.13"	37"	12.5"	

COMMERCIAL ELECTRIC

HEAVY-DUTY PREMIUM ELECTRIC DVE/DHE DURA-POWER™





Modbus/BACnet compatible with optional Gateway interface

Call 888 WATER02 for more information

Progressive Modulating: Sizes the Input of Available Elements to Match Current Load Conditions; Rotates and Lead Lags Element Loads to Provide Long Life and Equal Wear.



208V, 240V, 380V, 400V, 415V, 480V and 600V

Check with Factory for Voltages and kWs Not Listed

Factory-Installed Terminal Block

Heavy-Duty Magnetic Contactors

Factory-Wired, 120V Circuit Controls

Power-Circuit Fusing

Low-Water Cutoff

Glass-Lined Tank (Standard)

Handhole Clean-Out(s)

Color-Coded Circuitry

CSA Certified and ASME Rated T&P Relief Valve







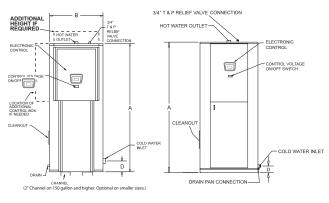


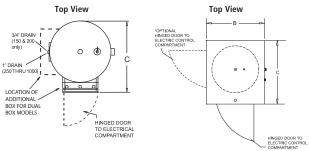




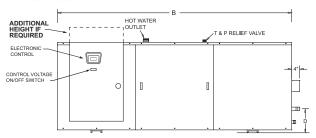
Vertical Round Models 150-1000

Vertical Square Models 1250-2500





Horizontal Models



A & D ELEVATION FROM FINISHED FLOOR



*An oversized control panel may be required on models with inputs above 72 kW. An oversized control panel may increase the width and depth of the square jacket by up to 2".

EXTRA PANEL BOX MAY BE NECESSARY FOR INPUTS HIGHER THAN 72KW. CONSULT FACTORY

COMMERCIAL ELECTRIC —

HEAVY-DUTY PREMIUM ELECTRIC DVE/DHE DURA-POWER™ (CONTINUED)

			Dimensions in Inches			
Model Number*	Max. KW	Gallon Capacity	А	В	С	D
Vertical Round	Electric St	orage Heat	er			
DVE-150A	144	150	65-1/2"	32"	38-3/4"	11-3/4"
DVE-200A	180	200	78"	32"	38-3/4"	11-3/4"
DVE-250A	216	250	92"	34"	40-3/4"	19-1/4"
DVE-300A	270	300	80"	40"	46-3/4"	20-3/4"
DVE-400A	360	400	80"	46"	52-3/4"	22-1/4"
DVE-500A	396	500	92"	46"	52-3/4"	22-1/4"
DVE-600A	396	600	92"	52"	60-3/4"	24-1/4"
DVE-800A	396	750	104"	52"	60-3/4"	24-1/4"
DVE-1000A	396	950	128"	52"	60-3/4"	24-1/4"
Vertical Squar	e Electric S	torage Hea	ater			
DVE-1250A	900	1,250	132-1/2"	64-1/2"	64-1/2"	23-1/4"
DVE-1500A	900	1,500	128-1/2"	70-1/2"	70-1/2"	25-1/4"
DVE-2000A	900	2,000	124-1/2"	78-1/2"	78-1/2"	27"
DVE-2500A	900	2,500	146-1/2"	82-1/2"	82-1/2"	29"
Horizontal Squ	uare Electri	c Storage I	Heater			
DHE-150A	144	150	37"	68-1/2"	34-1/4"	12"
DHE-200A	180	200	37"	78"	34-1/4"	12"
DHE-250A	225	250	39"	90-1/4"	36-1/4"	13"
DHE-300A	270	300	45"	78-1/4"	42-1/4"	14-3/4"
DHE-400A	360	400	52"	78-1/4"	48-1/4"	16"
DHE-500A	450	500	52"	90-3/4"	48-1/4"	16"
DHE-600A	540	600	58"	90-3/4"	54-1/4"	13-1/2"
DHE-800A	720	750	58"	102-1/4"	54-1/4"	13-1/2"
DHE-1000A	900	950	58"	126-1/4"	54-1/4"	13-1/2"
DHE-1250A	900	1,250	64"	130-1/4"	60-1/4"	15"
DHE-1500A	900	1,500	70"	126-1/4"	66-1/4"	16"
DHE-2000A	900	2,000	82"	123-1/4"	78-1/4"	14"
DHE-2500A	900	2,500	82"	144-1/4"	78-1/4"	16-1/2"

	Water Co	nnection		
Model Number*	Inlet Openings	Outlet Openings	Shipping Weight (lbs)	
Vertical Round Elec	tric Storage Heater			
DVE-150A	1-1/2"	1-1/2"	650	
DVE-200A	1-1/2"	1-1/2"	750	
DVE-250A	1-1/2"	1-1/2"	1,165	
DVE-300A	2"	2"	1,350	
DVE-400A	2"	2"	1,590	
DVE-500A	2"	2"	1,700	
DVE-600A	2-1/2"	2-1/2"	2,010	
DVE-800A	2-1/2"	2-1/2"	2,450	
DVE-1000A	2-1/2"	2-1/2"	3,160	
Vertical Square Ele	ectric Storage Heate	r		
DVE-1250A	3"	3"	3,560	
DVE-1500A	3"	3"	4,120	
DVE-2000A	3"	3"	4,350	
DVE-2500A	3"	3"	5,750	
Horizontal Square	Electric Storage Hea	ater		
DHE-150A	2"	2"	1,180	
DHE-200A	2"	2"	1,370	
DHE-250A	2"	2"	1,450	
DHE-300A	2"	2"	1,530	
DHE-400A	2"	2"	1,750	
DHE-500A	2"	2"	1,860	
DHE-600A	2-1/2"	2"	2,340	
DHE-800A	2-1/2"	2"	2,850	
DHE-1000A	2-1/2"	2"	3,040	
DHE-1250A	3"	3"	3,750	
DHE-1500A	3"	3"	4,340	
DHE-2000A	3"	3"	4,580	
DHE-2500A	3"	3"	6,060	

COMMERCIAL ELECTRIC

HEAVY-DUTY PREMIUM ELECTRIC DVE/DHE DURA-POWER™ (CONTINUED)

kW Input	GPH 100°F Rise	Btu/hr Equivalent	Max. No. of Elements	No. of Control Steps	kW Per Element	No. of Contractors 240/480V
15	62	51,180	1	1	15	2/1
18	74	61,416	1	1	18	2/1
30	123	102,360	2	1	15	2/1
36	148	122,832	2	1	18	4/2
45	185	153,540	3	1	15	3/2
54	221	184,248	3	1	18	6/2
60	246	204,720	4	2	15	12/6
72	295	245,664	4	2	18	8/4
90	369	307,080	5	2	18	6/3
108	443	368,496	6	2	18	12/4
120	492	409,440	8	3	15	8/4
135	554	460,620	9	3	15	9/6
144	590	491,328	8	3	18	16/8
162	664	552,744	9	3	18	18/6
180	738	614,160	10	4	18	20/10
216	886	736,992	12	4	18	24/8
234	959	798,408	13	5	18	26/13
252	1,033	859,824	14	5	18	28/14
270	1,107	921,240	15	5	18	30/10
288	1,181	982,656	16	6	18	32/16
306	1,255	1,044,072	17	6	18	34/17
324	1,328	1,105,488	18	6	18	36/12
342	1,402	1,166,904	19	7	18	38/19
360	1,476	1,228,320	20	7	18	40/20
378	1,550	1,289,736	21	7	18	42/14
396	1,624	1,351,152	22	8	18	44/22
414	1,697	1,412,568	23	8	18	46/23
432	1,771	1,473,984	24	8	18	48/16

Models with over 72kW will require an extended control box, which increases the height. Please consult factory for orders over 72kW

Complete model number includes the desired kw at the end, minimum installation Clearances required: 30" from front, 12" from top and 24" from right side.

BACnet and Modbus connectivity available with the ICC Gateway device.

	Suggested	Amperage D)raw		
kW	Modulating	Single	Phase	Tł	ree Pha	se
Input	Control Steps 240/480V	208V	240V	208V	240V	480V
15		72	63	42	36	18
18		87	75	50	44	22
30		144	125	83	72	36
36	4/2	174	150	100	87	44
45	3/2	216	188	125	108	54
54	3/2	260	225	150	130	65
60	4/3	289	250	167	144	72
72	4/4			200	174	87
90	3/3			250	217	109
108	4/4			300	260	130
120	4/4			333	289	144
135	4/4			375	325	162
144	4/4			400	347	174
162	8/6			450	389	195
180	8/8			500	434	217
216	8/8			600	519	260
234	8/8	NI-+	Net	650	563	282
252	8/8	Not	Not Recommended	700	607	304
270	12/10	Recommended	Recommended	750	649	325
288	12/12			800	692	347
306	12/12			850	736	368
324	12/12			900	780	390
342	12/12			950	822	412
360	12/12			1,000	865	435
378	14/14			1,050	909	455
396	15/16			1,100	952	477
414	16/16			1,150	995	498
432	16/16			1,200	1,040	520

Complete model number includes the desired kW at the end (example: DVE-140-120) Minimum installation clearances required: 30" from front, 12" from top and 24" from right side

¹⁵⁰ gallon available in both tall (T) and short (S) models BACnet and Modbus connectivity available with the ICC Gateway device

COMMERCIAL HEAT PUMP

FULLY INTEGRATED HEAT PUMP











Energy Saving & Environmentally Friendly

- Heat pump transfers heat from surrounding area into the tank
- Industry leading 4.2 COP
- Multiple operating modes maximize efficiency while meeting specific hot water needs
- Integrated, large capacity tank enables heat pump to operate more frequently than electric elements, saving money
- Meets standby loss requirements of U.S.
 Department of Energy and current edition of ASHRAE 118.1

Commercial Performance

- First hour delivery of 150 GPH
- Electric heating element capacity of 12 kW (240Vac)
- Max. water temperature of 150° F. in Efficiency/ Hybrid modes and 180° F. in Electric mode
- Ambient room temperature operating range of 40° to 110° F.
- Dual evaporator fans maximize performance and provide room cooling
- . Low operating sound measured at 59 dB (A)

Ease of Operation

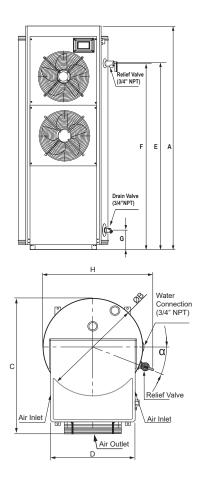
- Integrated design and pre-charged refrigeration system facilitates fast, easy installation
- Large touch screen LCD display allows for mode selection, provides run information and includes troubleshooting alerts and detail
- Three operating modes: Efficiency, Hybrid or Electric

Dependable & Long Lasting Design

- A. O. Smith-developed glass coated tank
- · Tank rated at 160 PSI working pressure
- Commercial grade anode protects the tank and extends service life
- Electric elements have incoloy sheathing and provide excellent protection from oxidation and scaling

3-Year Limited Tank and 1-year Limited Parts/Compressor Warranty

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



Model Number	Gallon Capacity	СОР	Number of Elements
CAHP-120	119	4.2	2

Total Element Wattage (both elements @ 240V)	in Hybrid	Recovery in GPH at 100° Temperature Rise	Approx. Shipping Weight (lbs)
12,000	150	Efficency = 41 Hybrid = 90 Electric = 50	620

Model Number	Dimensions					
Model Number	Α	В	С	D		
CAHP-120	69-11/16	28-1/32	39-11/64	23-5/8		

	Dimensions					
E		F	G	Н		
	58-7/64	57-51/64	6-1/32	30-29/32		

CIRCULATING WATER HEATER

XP HIGH EFFICIENCY WATER HEATERS



Up to 96% Thermal Efficiency

Fully Modulating with 5:1 Turndown

Advanced Electronics with Large Touchscreen Display and Built-In Lead/ Lag Sequencing

Direct Vent Flexibility Up to 100 Feet

Matches with Storage Tank for Storage Flexibility

ASME Rated Relief Valve

160 lb. ASME Working Pressure

Factory-Supplied Bronze Circulating Pump

Adjustable Pump Delay

316L Stainless steel Heat Exchanger

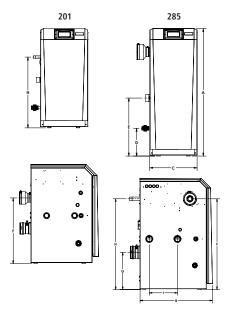


(ASME)
(ASME)
(ASME)

Meets the Requirements of South Coast Air Quality Management District in Southern California and the Requirements of Texas Commission on Environmental Qualities.

5-Year Heat Exchanger and 1-Year Parts Limited Warranty

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



	R	Recovery Cap	acities		
Model	BTU/HR Natural	Water Flow	Temperature Rise		
Number	Gas Input		70	100	140
XWH-150	150,000	GPH	248	173	124
XWH-201	201,000	GPH	336	235	168

Model Number	Dimensions in Inches							
woder Number	Α	В	С	D	E			
XWH-201	32-3/4	22-1/4	15-1/2	6-3/4	15-3/4			
XWH-285	42	20	15-1/2	9-1/4	19-1/4			

Model Number	Dimensions in Inches					
Model Number	F	G	Н	1		
XWH-201	21-1/2	11-1/2	23-1/4	9-1/4		
XWH-285	34-1/4	14	31-1/2	3-3/4		

Model Number	Dimensions in Inches					
woder Number	Α	В	С	D		
XWH-150	32-3/4	18-1/4	15-1/2	6-3/4		
XWH-201	32-3/4	22-1/4	15-1/2	6-3/4		

Model Number	Dimensions in Inches						
Model Number	E	F	G	Н	- 1		
XWH-150	15-3/4	21-1/2	11-1/2	23-1/4	3-3/4		
XWH-201	15-3/4	21-1/2	11-1/2	23-1/4	9-1/4		

CIRCULATING WATER HEATER -

XP PLUS HIGH EFFICIENCY **WATER HEATERS**





Operating Control Featuring Lead/Lag

Advanced Color Touchscreen Display

98% Thermal Efficiency

1.25 to 4.0 Million BTU/Hr

Firing Rate Modulation to 5:1

Less Than 20 PPM NOx

Direct Vent Flexibility Up to 150 Ft.



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



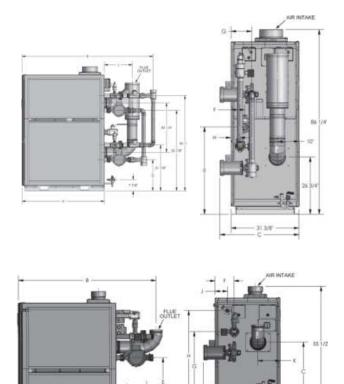








Model Number	BTU/HR Input	Temp Rise	Approx. Shipping Weight (lbs)
PWH-400	399,000	479	326
PWH-500	500,000	600	333
PWH-650	650,000	772	424
PWH-800	800,000	950	433
PWH-1000	999,000	1,187	494
PWH-1250	1,250,000	1,485	1,568
PWH-1500	1,500,000	1,782	1,649
PWH-2000	1,999,000	2,375	1,911
PWH-3000	3,000,000	3,564	3,147
PWH-4000	4,000,000	4,752	3,694



Models	PWH-1000		PWH-1300		PWH-1700	
Dimensions	Inches	mm	Inches	mm	Inches	mm
Flue Outlet Diameter	6	152	8	152	8	203
Air Intake Diameter	6	152	6	152	8	203
Wat Inlet		2 incl	n NPT		2-1/2 ir	nch NPT
Water Outlet		2 incl	n NPT		2-1/2 ir	nch NPT
Gas Inlet		2 incl	n NPT		2 incl	n NPT
Α	47	1199	49	1245	57	1448
В	67	1702	68	1727	76	1930
С	29	737	29	737	29	737
D	37	940	38	965	37	940
E	23	584	23	584	24	610
F	9	29	9	229	9	229
G	34	864	34	864	34	864
Н	44	1118	45	1143	45	1143
J	6	152	6	152	6	152
K	11	279	11	279	11	279
L	12	305	11	279	12	305

COMMERCIAL WATER HEATER -

BURKAY® GENESIS® DOMESTIC WATER HEATER





Electronic Control with Precise Temperature Management

Stage Gas Firing System - Prevents Short Cycling and Ensures Smooth Operation, Saves Fuel and Extends Product Life



Low NOx Operation

Copper Finned-Tube Heat Exchanger





Space-Saving Design: Optional Stack Rack Allows One Unit to be Stacked on Top of Another, Doubling Output within the Footprint of a Single Unit

Meets ASHRAE/IES 90.1-2004

Multiple Venting Options

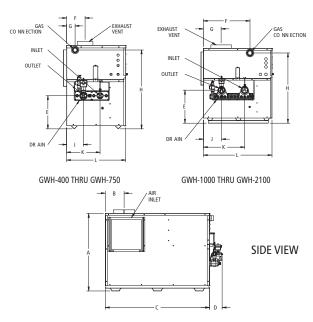
Factory Start-Up Included

5-Year Heat Exchanger and 1-Year Parts Limited Warranty

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

Model Number	Input MBH	Recovery Capacity GPH @ 100°F Rise	Approx. Shipping Weight (lbs)
GWH-400N	399	412	454
GWH-500N	500	515	467
GWH-650N	650	670	551
GWH-750N	750	773	611
GWH-1000N	990	1,020	843
GWH-1250N	1,260	1,298	939
GWH-1450N	1,440	1,484	1,035
GWH-1800N	1,800	1,855	1,168
GWH-2100N	2,070	2,133	1,285

When ordering propane change "N" to "P" in the model number (example GWH-750P).



Model		Dimensions in Inches						
Number	Α	В	С	D	E	F		
GWH-400N	31-1/2	7	37-5/8	8-7/8	12-1/2	7		
GWH-500N	31-1/2	7	45-3/8	8-7/8	12-1/2	7		
GWH-650N	31-1/2	8-1/2	56-3/4	8-7/8	12-1/2	8-1/2		
GWH-750N	31-1/2	8-1/2	64	8-7/8	12-1/2	8-1/2		
GWH-1000N	36	8-3/4	48-1/2	5-7/8	15-7/8	22-1/2		
GWH-1250N	36	9-3/4	58-3/4	5-7/8	15-7/8	22-1/2		
GWH-1450N	36	10-1/2	68-7/8	5-7/8	15-7/8	22-1/2		
GWH-1800N	36	11	82-3/8	5-7/8	15-7/8	22-1/2		
GWH-2100N	36	11	92-5/8	5-7/8	15-7/8	22-1/2		

Model		Dimensions in Inches						
Number	G	Н	J	K	L			
GWH-400N	3-1/4	29-3/4	6-3/8	12-5/8	22-1/4			
GWH-500N	3-1/4	29-3/4	6-3/8	12-5/8	22-1/4			
GWH-650N	3-1/4	29-3/4	6-3/8	12-5/8	22-1/4			
GWH-750N	3-1/4	29-3/4	6-3/8	12-5/8	22-1/4			
GWH-1000N	8-1/2	33-3/4	8-3/4	19-7/8	33			
GWH-1250N	9-3/4	33-3/4	8-3/4	19-7/8	33			
GWH-1450N	10-1/4	33-3/4	8-3/4	19-7/8	33			
GWH-1800N	10-7/8	33-3/4	8-3/4	19-7/8	33			
GWH-2100N	10-7/8	33-3/4	8-3/4	19-7/8	33			

When ordering propane change "N" to "P" in the model number (example GWH-750P).

COMMERCIAL WATER HEATER -

VARIABLE FIRE™ HIGH-EFFICIENCY WATER HEATERS





Advanced Modulating Control with Venturi-Mixing Gas/Air Ratio System

Small Footprints, Zero Clearance to Combustibles on Sides of Unit

Category II and IV Listed: Requires the use of AL29-4C, a Vent Material That Resists the Effects of Corrosive Condensates

Complies with SCAQMD Rule 1146.2 and Other Air Quality Management Districts with Similar Requirements for Low NOx emissions

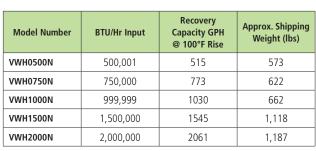
Capable of Firing from 100% to 25% (or a 4:1 Turndown Ratio) of the Rated Input, Based on the Current System Demand

Meets Thermal Efficiency and Standby Loss Requirements of the U.S. Department of Energy and Current Edition of ASHRAE/IES 90.1

Professional Start-Up Included -Required for Activating Warranty and Assuring Maximum Operating Performance



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



Change "N" to "P" when ordering propane (LP) gas (Example: VWH-750-P).

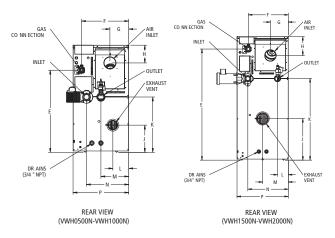


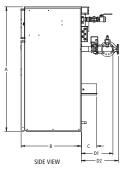












*Pump shipped loose

Model		Dimensions in Inches						
Number	А	В	С	D1	D2	E	F	G
VWH0500N	44-1/2	30-3/8	6	12-1/2	15-1/8	34-1/8	19-5/8	7-3/4
VWH0750N	52-1/8	30-3/8	6	12-1/2	15-1/8	41-3/4	19-5/8	7-3/4
VWH1000N	59-1/4	30-3/8	6	12-1/2	15-1/8	48-7/8	19-5/8	7-3/4
VWH1500N	65-3/8	31-5/8	8	16-1/2	19-3/8	58-3/4	21-1/8	9-1/2
VWH2000N	76-5/8	31-5/8	8	16-1/2	19-3/8	70	21-1/8	9-1/2

Model							
Number	Н	J	K	L	M	N	Р
VWH0500N	7-3/8	11-3/8	23	6-1/2	11-1/2	17-1/2	23-1/8
VWH0750N	7-3/8	11-3/8	30-1/2	6-1/2	11-1/2	17-1/2	23-1/8
VWH1000N	7-3/8	11-3/8	37-5/8	6-1/2	11-1/2	17-1/2	23-1/8
VWH1500N	9-1/2	22	43-1/4	5-3/4	13-1/2	21-3/8	27-1/8
VWH2000N	9-1/2	27-3/8	54-3/8	5-3/4	13-1/2	21-3/8	27-1/8

Authorized start-up service included; required to activate warranty.(Continental U.S. Only). Change "N" to "P" when ordering propane (LP) gas (Example: VWH-750-P).

COMMERCIAL WATER HEATER -

BURKAY® ENERGY SAVER COPPER HEAT EXCHANGER









All Non-Ferrous Waterways

- Rustproof because water comes in contact with nothing but copper, brass or bronze
- Copper transfers heat eight times faster than ferrous metals yet offer remarkable structural strength without excessive weight
- Free from the effects of thermal shock

Efficiency Copper Coil Combustion Chamber

- Continuous coils of tightly wound copper tubing form a unique combustion chamber
- Water circulating thru the coils, around the flame, captures radiant heat which may otherwise be lost

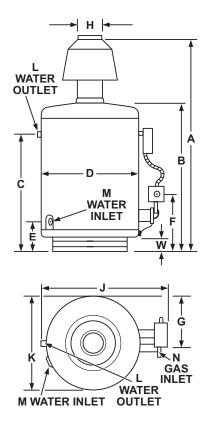
High Efficiency Stainless Steel Burner

 Developed especially for A. O. Smith water heaters using the very latest burner principles

Forced Water Circulation Improves System Efficiency

 Water moving at 2 to 4 feet per second helps to prevent lime buildup and also scrubs extra heat from the copper coil combustion chamber

Model	Input Rating BTU/Hr. Natural & Propane Gas	Temperature Rise-100°F Gallons Per Hour
HW-200M	201,000	195
HW-225M	225,00 Nat. Gas Only	217



Models	HWH-200	HWH-225	
	Dimensions in Inches		
Α	53-1/4	60	
В	33-1/8	33-1/8	
С	27-1/8	27-1/8	
D	20-3/4	20-3/4	
Е	5-1/2	5-1/2	
F	10	10	
G	11-13/16	11-13/16	
Н	7	7	
J	26-11/16	26-11/16	
K	20-3/4	20-3/4	
L	1-1/4 NPT	1-1/4 NPT	
М	1 NPT	1 NPT	
N	1/2 NPT	1/2 NPT	
W	1-3/4	1-3/4	
Approx. Shipping Weight	165 lbs.	175 lbs.	

HOT WATER SUPPLY BOILERS -

BURKAY® HWH GAS DOMESTIC WATER HEATERS



All Non-Ferrous Waterways

- All castings are made of bronze or brass
- · All water tubes are made from copper
- Brazed joints or flare union construction make the boiler immune to the effects of thermal shock and thermal cycling
- A great boiler for domestic hot water supply

Efficiency Copper Coil Combustion Chamber

- The combustion chamber is a heat exchanger formed from a two passage coil of tightly wound continuous copper tube
- Water circulating through this coil surrounds the main burner and captures the radiant heat
- A wrap of insulation on the outside of the coil retains the heat captured by the circulating water





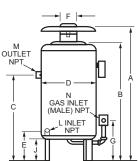


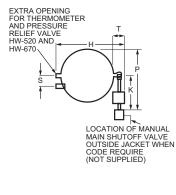




Model Number	Input Rating BTU/HR Natural & Propane (LP) Gas	Recovery Capacity GPH @ 100°F Rise	Approx. Shipping Weight (lbs)
HW-300	300,000	298	255
HW-399	399,000	392	301
HW-420	420,000	417	301
HW-520	520,000	516	381
HW-670 Nat.	660,000	646	381
HW-670 Prop	670,000	656	381







D!	to to to do			Models		
Dimensions in Inches		HW-300	HW-399	HW-420	HW-520	HW-670
Α	Overall height	65	57-1/8	57-1/8	68-5/16	68-5/16
В	Height to Top of Jacket	43-1/4	45-1/8	45-1/8	56-1/4	56-1/4
С	Floor to Center Line Water Outlet	36	38-3/4	38-3/4	46	46
D	Diameter of Jacket	25-1/4	27	27	27	27
E	Floor to Center Line Water Inlet	12	12	12	12	12
F	Draft Diverter Outlet Diameter	8	10	10	10	12
G	Floor to Center Line Gas Inlet	16-1/2	16-3/4	16-3/4	8	8
Н	Overall Depth	29-5/8	31-1/2	31-1/2	36-1/2	36-1/2
J	Support Height	9	9	9	9	9
К	Width of Control String (approx.)	14	14	14	11	11
L	Pipe Size of Water Inlet (NPT)	1-1/4	1-1/2	1-1/2	2	2
М	Pipe Size of Water Outlet (NPT)	1-1/4	1-1/2	1-1/2	2	2
N	Pipe Size of Gas Inlet (NPT)	3/4	3/4	1	1	1
P	Control String Plus 1/2 Jacket Diame- ter (approx.)	26-5/8	27-1/2	27-1/2	24-1/2	24-1/2
S	Horizontal Length between Water Inlet & Outlet	5-3/8	5-1/2	5-1/2	5-3/4	5-3/4
T	Control String from Jacket	5	5	5	7	7

HOT WATER GENERATOR -

STEAM OR BOILER HOT WATER HWG GENERATOR SYSTEMS





All HWG Systems are Insulated and Jacketed

Integral Circulator Pump

Both Steam and Boiler Water Units are Custom Built to Meet Your Specifications

Optional Steam Trim

- Includes electric operated valve
- Pressure gauge with siphon, vacuum breaker and air vent

Optional Boiler Trim

- · Electric high limit safety system
 - Pressure gauge with siphon, vacuum breaker and air vent
- Boiler water temperature gauge

ASME Rated

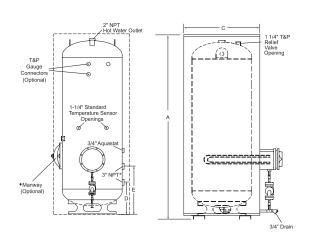
Cathodic Protection

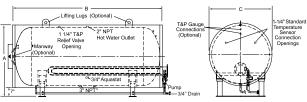
Custom Sizes Available up to 5,000 Gallons

5-Year Limited Tank Warranty and 1-Year Limited Coil Warranty

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

Reference specification sheet and submittal, for additional information on coil sizes and recovery rates.





*2" on 120; 2-1/2" on 200 Gal.

Model Number	Height	Length	Width	Gallon
HWGV-120A	63	28	10	120
HWGV-200A	77.25	32	11.25	200
HWGV-250A	91	34 18		257
HWGV-318A	80	40	19.5	318
HWGV-400A	80	46	21	432
HWGV-500A	92	46	21	504
HWGV-650A	92	52	23.5	650
HWGV-750A	104	52	23.5	752
HWGV-1000A	128	52	23.5	940

Model Number	Height	Length	Length Width	
HWGH-250A	41	87	34	250
HWGH-300A	47	76	40	300
HWGH-400A	53	76	46	400
HWGH-500A	53	88	46	500
HWGH-600A	59	88	52	600
HWGH-700A	59	100	52	700
HWGH-1000A	59	124	52	1000

COMMERCIAL STORAGE TANKS

STANDARD JACKETED STORAGE TANKS







Glasslined Tank

 Alkaline borosilicate composition permanently fused to steel by firing at a temperature of 1600°F, providing years of corrosion protection and dependable use

Ideal for Use with Gas Fired Copper Heat Exchanger Equipment for Potable Water at Temperatures Up to 180°F

Threaded Openings

 All tanks furnished with threaded openings for thermometer, relief valve, 2" recirculation lines, tank stat. and drain valve

ASME Construction on Select Models.

• 160 psi standard working pressure on all models

Anodic Protection

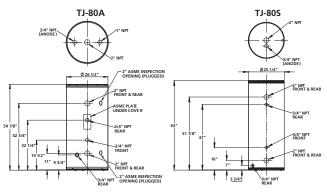
TJ-80S, TJ-80A, TJV-120M and TJV-120A

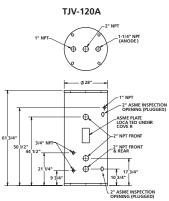
- Fits through 30" door
- Magnesium anode for anti-corrosion protection

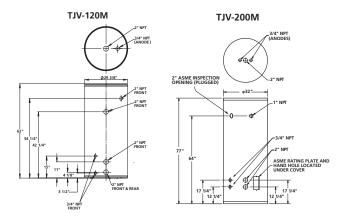
Meets R12.5 Minimum Thermal Insulation Requirements of the U.S. Department of Energy and Current Edition of ASHRAE/IES 90.1

5-Year Heat Exchanger and 1-Year Parts Limited Warranty

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







Model Number	Gallon Capacity	Overall Length (Inches)	Diameter (Inches)	Approx. Shipping Weight (lbs)
TJ80S Jacketed-Vertical Only	80	63	25-1/4	236
TJV120M Jacketed-Vertical Only	119	62	29-3/8	320
TJ80A Jacketed-Vertical Only	80	54-7/8	26-1/2	369
TJV-120A	119	61-3/4	28	411
TJV-200M (ASME)	175	77	32	560

COMMERCIAL STORAGE TANKS -

STANDARD-LINE FACTORY JACKETED & INSULATED STORAGE TANKS



Standard Sizes

- From 140 to 2,500 gallons
- · All stock tanks glasslined

Horizontal or Vertical Mounting

High-Density, Fiberglass Insulated Jackets

Meet R12.5 Minimum Thermal Insulation Requirements of the U.S. Department of Energy and Current Edition of ASHRAE/IES 90.1

ASME Construction

 Available in 125 and 150 working pressures; 125 standard.



Accessories

 Tanks will be supplied with the fittings located as indicated on the drawings

Cabinet

 Heavy gauge steel with high quality powder coat paint provides additional insulating qualities for greater energy savings

5-Year Limited Tank Warranty

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





Model Number	А	В	С	D	E	F	G	Н	"I" ASME Inspection Openings
TJV-140A	87	30	21 1/2	51	8	1-1/2	2-1/2	6-3/8	2"
TJV-200A	83	36	22	45	10	1-1/2	2-1/2	7-3/4	2"
TJV-250A	96	36	22	58	10	1-1/2	2-1/2	7-3/4	2"
TJV-350A	97	42	24 1/2	54	14	1-1/2	2-1/2	9-1/2	2"
TJV-400A	105	42	24 1/2	61	14	1-1/2	2-1/2	9-1/2	2"

VERTICAL ROUND JACKETED ASME

Model Number	А	В	С	D	Gallons
TJVT-500A	91	46	20.875	2"	500
TJV-600A	92	52	22.875	2"	600
TJV-700A	101	52	22.875	2"	700
TJV-750A	104	52	22.875	2"	750
TJV-1000A	128	52	22.875	2"	1000

VERTICAL SQUARE JACKETED ASME

Model Number	А	В	С	D	Gallons
TJV-1250A	133	60	24.375	3"	1,250
TJV-1500A	129	66	25.875	3"	1,500
TJV-2000A	126	78	28.375	3"	2,000
TJV-2500A	146.5	78	28.375	3"	2,500

The manhole is standard on all cement and epoxy lined tanks.

HORIZONTAL ROUND JACKETED ASME TANKS

Model Number	А	В	Diameter	Gallons
TJH-250A	41	87	34	250
TJH-300A	47	76	40	300
TJH-400A	53	76	6 46 4	
TJHT-500A	53	87	46	500
TJH-600A	59	88	52	600
TJH-700A	59	97	52	700
TJH-750A	59	100	52	750
TJH-1000A	59	124	52	1000

HORIZONTAL SQUARE JACKETED ASME TANKS

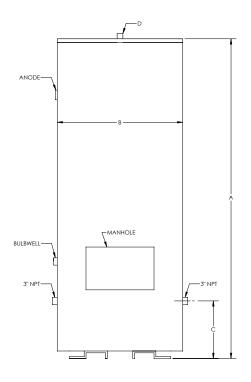
Model Number	A B		Depth	Gallons	
TJH-1250A	68.5	134	60.25	1,250	
TJH-1500A	74.5 1		66.25	1,500	
TJH-2000A	86.5	127	78.25	2,000	
TJH-2500A	86.5	144	78.25	2,500	

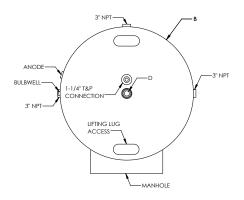
For Cement or Epoxy linings Order "HD" tanks with jackets and insulation.

COMMERCIAL WATER HEATER -

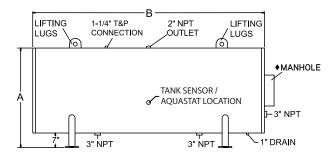
STANDARD-LINE FACTORY JACKETED & INSULATED STORAGE TANKS

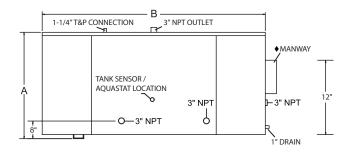
VERTICAL ROUND JACKETED ASME





HORIZONTAL ROUND JACKETED ASME





COMMERCIAL STORAGE TANKS -

UNINSULATED STANDARD STOCK BARE STORAGE TANKS



Glasslined per ASME, HLW Procedures

Horizontal or Vertical Mounting

High-Density, Bare Steel Tanks

ASME Construction

Magnesium Anodes Protect Against Corrosion.

5-Year Limited Tank Warranty

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



Model Number	Gallon Capacity	Overall Dimensions Inches	A	В	С	D	E
T-80 STD	80	20 x 62-1/8	20	61-1/2	2	-	7
T-120 STD	119	24-1/4 x 65	24-1/4	64-3/8	2-1/2	-	7
T-200 STD	200	30 x 72	30	70-3/4	2-1/2	10	13
T-350 STD	350	36 x 88	36	86	2-1/2	14	16
T-140 ASME	140	24 x 76-1/4	24	75	2-1/2	8	12
T-200 ASME	200	30 x 72	30	70-3/4	2-1/2	10	13
T-250 ASME	250	30 x 84	30	84	2-1/2	10	13-1/4
T-350 ASME	350	36 x 88	36	86	2-1/2	14	16
T-400 ASME	400	36 x 97	36	96	2-1/2	14	16

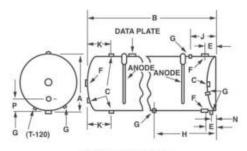


FIGURE 1 -T-80, T-120 NOTE:T-120 SHOWN.

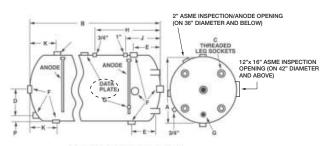


FIGURE 2 - T-140 THRU T-1000A

Model Number	F	G	Н	J	К	N	P	Approx. Shipping Weight
T-80 STD	2	3/4	46-1/4	16	3-1/2	3-1/4	4	170
T-120 STD	2-1/2	3/4	34-1/2	15-1/2	10-1/2	3-1/2	4-1/8	287
T-200 STD	2-1/2	3/4	28-1/2	19-1/2	13	_	4	460
T-350 STD	2-1/2	3/4	31-1/2	20-1/4	16	_	4	670
T-140 ASME	2-1/2	3/4	27-1/2	18-1/2	12	-	4	400
T-200 ASME	2-1/2	3/4	28-1/2	19-1/2	13	-	4	460
T-250 ASME	2-1/2	3/4	28-1/2	19-1/2	13	_	4	505
T-350 ASME	2-1/2	3/4	31-1/2	20-1/4	16	-	4	670
T-400 ASME	2-1/2	3/4	31-1/2	20-1/4	16	-	4	775

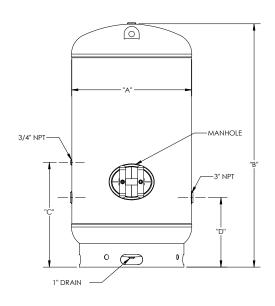
Working pressure for T models 80 - 400 is 160 PSI

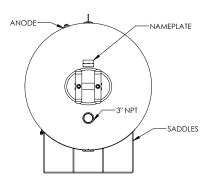
COMMERCIAL WATER HEATER —

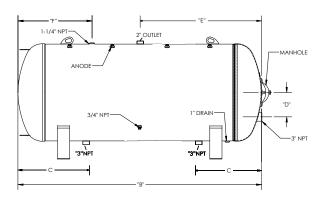
UNINSULATED STANDARD STOCK BARE STORAGE TANKS (CONTINUED)

Model Number	Gallons	А	В	С	D	Weight (LBS) - Glass 125 psi
TVN-500A	500	42	87	36.875	20.875	763
TV-600A	600	48	88	36.875	20.875	1193
TV-700A	700	48	97	36.875	20.875	1301
TV-750A	750	48	100	36.875	20.875	1337
TV-1000A	1000	48	124	36.875	20.875	1623
TV-1250A	1250	54	128	38.375	22.375	2100
TV-1500A	1500	60	124	39.875	23.875	2709
TV-1750A	1750	60	148	39.875	23.875	3156
TV-2000A	2000	72	121	42.375	26.375	3397

Model Number	Gallons	А	В	С	D	E	F	Weight (LBS) - Glass 125 psi
THN-500A	500	42	83	47.5	12	39.5	27.25	763
TH-600A	600	48	84	48	12	42	28.5	1193
TH-700A	700	48	93	52.5	12	43.5	30.75	1301
TH-750A	750	48	96	54	12	46	30.75	1337
TH-1000A	1000	48	120	66	12	60	36.5	1623







COMMERCIAL STORAGE TANKS

HEAVY-DUTY LARGE VOLUME STORAGE TANKS MODEL HD CUSTOM-BUILT



Custom-Built Tanks From 80 to 4,000 Gallons

Horizontal or Vertical Mounting Options Available

High-Density, Insulated Jackets or Bare Steel Tanks

Glasslined or Cement Linings Available

ASMF Construction

 Available in 125, 150 and 160 psi working pressure.

Anodic Protection



Manholes, Handholes, Additional Tank Opening, M Lifting Lugs, Angle Legs, Ring Bases and Horizontal Tanks Saddles All Available as Options

Insulated Tanks Meet R12.5 Minimum Thermal Insulation Requirements of the U.S. Department of Energy and Current Edition of ASHRAF/IFS 90.1

5-Year Limited Tank Warranty

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

	Gallons	Dimensions				
Model Number		Diameter	Vertical Height	Horizontal Length		
HD*24-120A	118	24"	64"	60"		
HD*24-140A	141	24"	76"	72"		
HD*24-200A	188	24"	100"	96"		
HD*24-250A	235	24"	124"	120"		
HD*28-175A	175	28"	65"	-		
HD*28-200A	200	28"	76"	-		
HD*30-150A	147	30"	52"	48"		
HD*30-185A	184	30"	64"	60"		
HD*30-220A	220	30"	76"	72"		
HD*30-250A	257	30"	87"	83"		
HD*30-300A	294	30"	100"	96"		
HD*30-375A	367	30"	124"	120"		
HD*36-275A	265	36"	64"	60"		
HD*36-325A	318	36"	76"	72"		
HD*36-400A	370	36"	87"	83"		
HD*36-425A	423	36"	100"	96"		
HD*36-500A	528	36"	124"	120"		
HD*42-450A	432	42"	76"	72"		
HD*42-500A	504	42"	88"	84"		
HD*42-600A	576	42"	100"	96"		
HD*42-750A	720	42"	124"	120"		
HD*42-900A	864	42"	148"	144"		
HD*42-1000A	1,008	42"	172"	168"		
HD*48-700A	658	48"	88"	84"		
HD*48-750A	752	48"	100"	96"		
HD*48-950A	940	48"	124"	120"		
HD*48-1150A	1,128	48"	148"	144"		
HD*48-1300A	1,315	48"	172"	168"		
HD*48-1500A	1,503	48"	196"	192"		
HD*54-1000A	951	54"	100"	96"		
HD*54-1200A	1,189	54"	124"	120"		
HD*54-1450A	1,427	54"	148"	144"		
HD*54-1700A HD*54-1900A	1,665	54" 54"	172"	168" 192"		
HD*54-1900A HD*54-2150A	1,903		196"	216"		
HD*54-2150A HD*60-1500A	2,141	54"	220" 124"	120"		
HD*60-1750A	1,469	60" 60"	148"	144"		
HD*60-1750A	1,763 2,056	60"	172"	168"		
HD*60-2400A	2,050	60"	196"	192"		
HD*60-2400A	2,350	60"	220"	216"		
HD*72-2100A	2,044	72"	124"	120"		
HD*72-2100A	2,538	72"	148"	144"		
HD*72-3000A	2,961	72"	172"	168"		
HD*72-3400A	3,384	72"	196"	192"		
HD*72-3400A	3,807	72"	220"	216"		
11D 12-4000A	J,007	12	220	210		

Specify Horizontal or Vertical installation H or V (after the HD)

For Jacketed models , the J will follow the orientation: HDVJ48-1500A.

For foam insulation, O represents Outdoor: HDVO48-1500A

For linings other than glass, use the suffix after the number and the A - HDHJ42-1000AE for and Epoxy lined or HDHJ42-100AC for Cement lined. U = Unlined.

For 150 PSI ASME working pressure, insert M at the end - HDV42-1000AM

COMMERCIAL STORAGE TANKS — HEAVY-DUTY LARGE VOLUME STORAGE TANKS MODEL HD CUSTOM-BUILT (CONTINUED)

FACTORY INSULATION OPTIONS

Factory Jacketed and Insulation

- INSULATION Entire tank is surrounded with insulation
- CABINET Heavy gauge painted steel
- Adds 4" to the round jacketed and 6" to the square jacketed diameter of the tank

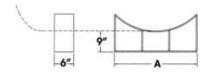
OUTDOOR FOAM INSULATION

- INSULATION Entire tank is sprayed with minimum of 2" highdensity polyurethane foam insulation that forms a watertight jacket that is approved for outdoor use
- Adds 6" to the diameter of the tank, and 2" to the height

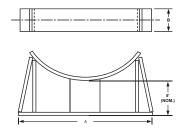
Note: Minimum foam insulation thickness is 2"; however, since tank is hand sprayed, insulation thicknesses may be greater in some areas giving the finished tank an uneven but watertight surface.

Tank Diameter 30 36 42 48 54 60 72

A 21" 25" 29" 34" 48" 52" 62"



NOTE: Alternate saddle heights are available. (Consult factory)



TANK SADDLES

A.O. SMITH PART NO.	SADDLE DESCRIPTIONS
100170345	SADDLE,TANK,24",9"CLR,P-1
100170349	SADDLE,TANK,30",9"CLR,P-1
100170338	SADDLE,TANK,28",9"CLR,P-1
100170352	SADDLE,TANK,36",9"CLR,P-1
100170355	SADDLE,TANK,42",9"CLR,P-1
100170358	SADDLE,TANK,48",9"CLR,P-1
100170361	SADDLE,TANK,54",9"CLR,P-1
100170365	SADDLE,TANK,60",9"CLR,P-1
100170371	SADDLE,TANK,72",9"CLR,P-1

COMMERCIAL WATER HEATER -

AC-U-TEMP COMPLETE HOT WATER SYSTEMS



Standard Tank Sizes from 80 to 1000 Gallons

Ac-U-Temp System Eliminates Costly Field Errors

Simplifies Installation

Standard Ac-U-Tanks are Factory Jacketed and Insulated

All Systems are Built to Order

Multi-Heater Systems for 50%-100% Back-Up



Factory Hydrostatic and Fire-Tested Before Shipping



Tank Temperature Sensor

Tank Thermometer

Isolation Valves

Custom Tank Sizes to 5,000 Gallons

5-Year Limited Heat Exchanger Warranty and 5-Year Limited Tank Warranty

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

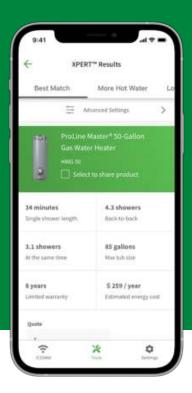




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