

POLARIS® HIGH EFFICIENCY Residential Gas Water Heaters

CONDENSING DESIGN

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

STAINLESS STEEL CONSTRUCTION

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

WHISPER-QUIET OPERATION

- Ultra-quiet blower and burner minimize noise

POWER DIRECT VENT DESIGN

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

ADVANCED ELECTRONIC CONTROL

- Large LCD display provides precise temperature control and advanced diagnostics

CODE COMPLIANCE

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

10-YEAR LIMITED TANK AND 1-YEAR LIMITED PARTS WARRANTY



34 Gallon

50 Gallon

Model Number*	Gallon Capacity	BTU/h Input	Thermal Efficiency	Recovery @ 90° Rise Gallon Per Hour	Dimensions in Inches		Vent Connection	Approx. Shipping Weight (lbs)
					Height	Diameter		
GHX 34 100 N	34	100,000	96%	129	48-1/2	22	2 or 3	150
GHX 34 130 N	34	130,000	96%	165	48-1/2	22	2 or 3	150
GHX 34 150 N	34	150,000	94%	190	48-1/2	22	2 or 3	150
GHX 50 130 N	50	130,000	95%	165	62-3/8	22	2 or 3	176
GHX 50 150 N	50	150,000	95%	190	63-3/4	22	2 or 3	180
GHX 50 175 N	50	175,000	96%	222	63-3/4	22	3	180
GHX 50 199 N	50	199,000	96%	253	63-3/4	22	3	180

*For propane models change "N" to "P" in the model number (example: GHX 50 199 P)
Models certified for sea level to 7,700 ft. elevation.

POLARIS® HIGH EFFICIENCY Residential Gas Water Heaters



SOLID. STATE.

THE RIGHT CHOICE FOR RESIDENTIAL HOT WATER

For more than 70 years, we at State Water Heaters have taken pride in being the innovative leader in water heating. We've worked to instill our long experience of innovation into a comprehensive line of residential and commercial water heaters for any application.

Polaris® High Efficiency Gas Water Heaters embody all that's best about the State Water Heaters brand. Our world-class engineering team has combined high BTU inputs, storage capacity, and a small physical footprint to create a product unlike any on the market.

Polaris' large range of inputs (up to 199,000 BTU/hr) inputs mean that it can deliver continuous hot water, making it well suited for large home applications where multiple tasks like dish washing, showers and laundry are performed simultaneously. It's reliable and highly efficient performance also makes Polaris the solution for combined space and water heating applications. Its available in 34- and 50-gallon sizes, so that it can easily provide large "bursts" of hot water in applications like filling a garden tub where tankless models may have flow limitations.



POLARIS® RESIDENTIAL WATER HEATERS AT A GLANCE



1 HIGH GRADE 444 STAINLESS STEEL TANK WITH BRASS CONNECTIONS

For years of dependable, trouble-free service—no anode required

2 SUBMERGED COMBUSTION CHAMBER WITH SPIRAL FLUE

Spiral heat exchanger keeps hot combustion gases in the tank longer for up to 96% thermal efficiency operation

3 ULTRA-LOW NOX MODULATING GAS BURNER

Ultra-quiet blower and burner provide whisper-quiet operation; burner modulates to provide high efficiency operation while also matching heating requirements

4 SIDE-MOUNTED HOT AND COLD RECIRCULATING TAPS

For easy connection to a recirculation or hydronic heating system

5 INSULATED FOR LOW HEAT LOSS

Tank is surrounded by environmentally friendly non-CFC foam for ultra-low standby heat loss

6 SERVICE ACCESS FROM THE FRONT

Two removable service doors provide easy access to all components from the front of the heater

7 LCD TOUCHSCREEN DISPLAY

For easy control of temperature settings and advanced diagnostics

SMALL (22" DIAMETER) FOOTPRINT

Design maximizes space savings; the smallest tank style heater with a 199k BTU input

10-YEAR LIMITED TANK WARRANTY; 1-YEAR WARRANTY ON PARTS