



**COMMERCIAL-GRADE**  
RESIDENTIAL GAS WATER HEATERS

## **PROLINE® ULTRA-LOW NOx HIGH RECOVERY COMMERCIAL-GRADE RESIDENTIAL**

### **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.

### **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.

### **GLASSLINED TANK**

- Maximizes tank life.

### **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.

### **DRAFT HOOD**

- Low profile draft hood furnished as standard equipment.

### **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.

### **FEATURES**

- Anodic protection
- Equipped with gas pressure regulator
- Integral automatic gas shutoff system prevents excessive water temperature
- CSA certified and ASME rated T&P relief valve
- The GCN-75 comes standard with side loop fittings for use with hydronic heating applications.

### **6-YEAR LIMITED TANK AND PARTS WARRANTY**

- For complete warranty information, consult written warranty or contact A. O. Smith.



**AHRI CERTIFIED®**  
[www.ahridirectory.org](http://www.ahridirectory.org)



# COMMERCIAL-GRADE RESIDENTIAL GAS WATER HEATERS

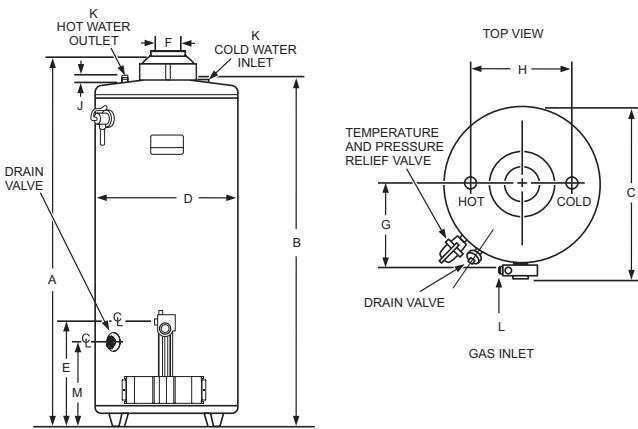
Recovery Ratings														
Model	Input Rate	Recovery in US Gallons/hr or Liters/he at Indicated Temperature Rise in Fahrenheit or Celsius												
	75,100 BTU/h	°F	30	40	50	60	70	80	90	100	110	120	130	140
GCN-75**†	75,100 BTU/h	GPH	243	182	146	121	104	91	81	73	66	61	56	52
		°C	17	22	28	33	39	44	50	56	61	67	72	78
	22 kW	LPH	919	689	551	459	394	345	316	276	251	230	212	197
		°C	17	22	28	33	39	44	50	56	61	67	72	78
GCN-100*	75,100 BTU/h	GPH	246	184	147	123	105	92	82	74	67	61	57	53
		°C	17	22	28	33	39	44	50	56	61	67	72	78
	22 kW	LPH	930	698	558	465	399	349	310	279	254	233	215	199

\*Recover rating based on 81% thermal efficiency

\*\*Recover rating based on 80% thermal efficiency

†The GCN-75 comes standard with side loop fittings for use with hydronic heating applications

Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Recovery at 90°F Rise Gallon Per Hour	BTU Input Per Hour	Dimensions in Inches										Approx. Shipping Weight		
							A	B	C	D	E	F	G	H	J	K	L	M	
†GCN-75	74	71	102	0.64	81	75,100	62-1/16	58	29-1/2	25-1/4	15-7/8	4	15-1/4	16	2	1	1/2	12-1/2	285 lbs
GCN-100	98	95	120	0.58	82	75,100	70-1/2	66-1/2	30-15/16	27-3/4	15-3/16	4	15-3/4	16	1-1/4	1-1/4	1/2	11-15/16	350 lbs



## SPECIFICATION

Water heater(s) shall be Model \_\_\_\_\_ as manufactured by A. O. Smith or an approved equal. Water heater(s) shall be of glasslined design, equipped to burn \_\_\_\_\_ gas and design certified by UL. Heaters must meet all applicable energy codes and comply with ultra-low NOx emissions of 14 ng/j or 20 ppm. Heaters shall have an input rating of \_\_\_\_\_ BTU/H and a recovery capacity of \_\_\_\_\_ GPH at a temperature rise of 100°F with a storage capacity of \_\_\_\_\_ gallons. Heater shall have a working pressure of 150 psi. Heater(s) shall be provided with an automatic gas shutoff device and safety shutoff in event pilot flame is extinguished; a gas pressure regulator set for the type of gas supplied; an approved draft hood, and extruded anode rod rigidly supported for cathodic protection. A CSA Certified and ASME Rated T&P Relief Valve shall be furnished and installed by the manufacturer. The tank shall be foam insulated. The outer jacket shall have a baked enamel finish over a bonderized undercoating. Fully illustrated instruction manual. All internal surfaces of the heater(s) exposed to water shall be glasslined with an alkaline borosilicate composition that has been fused-to-steel by firing at a temperature range of 1400° to 1600°. Heater tank shall have a six year limited tank and parts warranty against corrosion and tank failure due to sediment build-up as outlined in the written warranty. Heater(s) shall be design certified by UL. Operation of the heater in a closed system where thermal expansion has not been compensated for with a properly sized expansion tank will void the warranty.

For technical information call 800-527-1953. A. O. Smith Corporation reserves the right to make product changes or improvements without prior notice.