TITANTM POWERED BURNER

Low-NOx Commercial Gas Water Heaters

For medium-demand commercial applications, State Titan[™] (GPG and GPV) commercial gas water heaters offer precise powered-burner performance, plus flexible venting options including conventional atmospheric venting, sidewall venting or direct venting. Professional start-up service is also available from State on these Titan units to help ensure optimum performance.



Powered Gas Low-NOx Burner (Natural Gas Only)

- Premix burner operation includes internal Flue Gas Recirculation (FGR)
- Safety features: Internal blocked flue sensor, separate pilot system, internal thermal cutoff and anti-flashback barrier

Three Venting Options

- Conventional atmospheric vertical venting on GPG models, with barometric draft regulating damper. Order Vent Kit Part # 170777-005
- Horizontal atmospheric sidewall venting or direct venting on GPV models
- For sidewall venting order Vent Kit Part # 192049-000
- For direct-venting order Vent Kit Part # 192050-002

Automatic Controls

- Safety shut-off, high-temperature limit control
- Dual thermostat for accurate temperature adjustment from 120°F to 180°F

Patented "Dome Design" Combustion

• Draft-equalizing dome balances pressure inside combustion chamber for optimum flue loading and efficient heat transfer

Adjustable Damper for High-Altitude Installations

Air intake damper easily reset for high-altitude installation by authorized start-up agent

ASME Tank Construction – Rated Working Pressure 160 psi

Factory-Installed AGA/ASME Temperature and Pressure Relief Valve

Glass-Lined Tank

• With multiple anode rods for long-term protection against corrosion

Flame Inspection Port

Handhole Cleanout

• For easy removal of sediment from tank bottom

Meets ASHRAE/IESNA 90.1-1999 Requirements

Also meets SCAQMD low-NOx Rule 1146.2

Three-Year Limited Tank Warranty

• For complete warranty information, consult written warranty shipped with water heater, or contact State Water Heaters

For Additional Technical Information, PHONE 800-365-0024

STATE WATER HEATERS 500 Tennessee Waltz Parkway, Ashland City, TN 37015 www.statewaterheaters.com



TITANTM **POWERED BURNER**

Low-NOx Commercial Gas Water Heaters

CAPACITY, INPUT AND OUTPUT

	BTU INPUT	Gallons	FIRST HOUR RATING C		GPH	RECOVERY-GALLON PER HOUR AT °F TEMPERATURE RIS			
MODEL	PER	or Litres	TANK Size	100° F	or LPH	40°F	100°F	140°F	
NUMBER	HOUR			RISE		4°C	56°C	78°C	
GPG85 540 NEA	540,000	U.S. Gallons	85	583	GPH	1309	523	374	
GPV85 540 NEA	540,000	Litres	321.7	2206.7	LPH	4954.6	1979.6	1415.6	
GPG85 650 NEA	050.000	U.S. Gallons	85	690	GPH	1579	630	450	
GPV85 650 NEA	650,000	Litres	321.7	2611.7	LPH	5976.5	2384.6	1703.3	
GPG85 740 NEA	740.000	U.S. Gallons	85	778	GPH	1794	718	512	
GPV85 740 NEA	740,000	Litres	321.7	2944.7	LPH	6790.3	2717.6	1937.9	

Based on 80% Thermal Efficiency obtained in State engineering laboratories.

To compensate for effects of high altitude above 2,000 feet, recovery ratings should be reduced 5% for every 1,000 feet above sea level. Current Draw (120V, 60Hz, 1 Phase): 6.0 Amps

DIMENSIONS AND WEIGHT – ALL MODELS

*D dimension is for atmospheric vent size (GPG models).

Inches	DIMENSIONS										SHIPPING
or CM	A	В	C	D	E	F	G	H	-	GAS Conn.***	WEIGHT
Inches	80-3/4	73	32-1/4	9	26-1/2	26-1/2	93	29-1/2	48-1/2	1″	950 Lbs.
СМ	205.1	185.4	81.9	22.9	67.3	67.3	236.2	74.9	123.2	-	431.8 Kg



1-1/2" OUTLE1

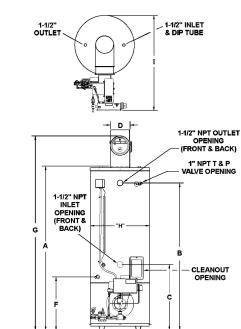
G A BACKI F CLEANOUT OPENING

STANDARD BAROMETRIC DRAFT CONTROL

1-1/2" INLET & DIP TUBE

GPG MODELS

STANDARD BAROMETRIC DRAFT CONTROL GPG MODELS





SUGGESTED SPECIFICATION

E dimension is for direct and sidewall vent size (GPV models). *Minimum gas supply pipe is 1-1/4". See Reference Manual, Table 7 for gas supply pipe size.

Water heater(s) shall be State Model _______ or equal, with maximum storage capacity of 85 gallons, an input rating of _______BTU/Hr., a recovery rating of ______GPH at 100°F temperature rise, and minimum thermal efficiency of 80%. Heater(s) shall meet ASHRAE/IESNA 90.1-1999 requirements for thermal efficiency and standby loss, and meet SCAQMD R1146.2 low-NOx requirements. In addition, heater(s) shall: 1) Include a powered gas burner, redundant main gas valves, gas pressure regulator and flame inspection port. 2) Include a high-temperature limit control, dual-bulb thermostat for accurate temperature control and anti-stacking compensation and a factory-installed AGA rated temperature and pressure relief valve. 3) Be equipped with 1-1/2" NPT water inlet and outlet and a boiler-type handhole cleanout. 4) Shall be constructed and stamped in accordance with ASME Boiler and Pressure Vessel Code and be so marked for a maximum working pressure of 160 psi. 5) Have a glass-lined steel tank with multiple anodes for corrosion protection, and polyurethane foam insulation. 6) Tank shall have a 3-year limited warranty against corrosion as outlined in the written warranty.

Venting: GPG heater(s) shall be supplied with a Barometric Draft Regulator for conventional atmospheric venting. GPV heater(s) shall be supplied with an optional vent kit allowing for horizontal sidewall venting or direct venting.

Burner and Controls: Burner(s) shall be pre-mix design, with internal FGR and thermal cutoff, separate spark pilot ignition system, integral blocked flue sensor, glass view port, main gas regulator, automatic gas valve, manual test cock and manual gas shutoff. Burner(s) must be factory-installed, tested and started by an Authorized State Start-up Agent before being placed into operation.

For complete information on limited warranties, consult written warranty, or contact the State Customer Care Center, 1-800-365-0024.

State Industries, Inc. reserves the right to make product changes or improvements without prior notice.

For Additional Technical Information, PHONE 800-365-0024

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