

# American Standard<sup>®</sup>

## Commercial Gas Water Heaters

### **MODEL: D-80-512-AS**

**80 GALLON HEAVY DUTY INSTANTANEOUS  
DIRECT SPARK IGNITION DAMPERED  
512,000 BTU NAT GAS  
512,000 BTU L.P. GAS**



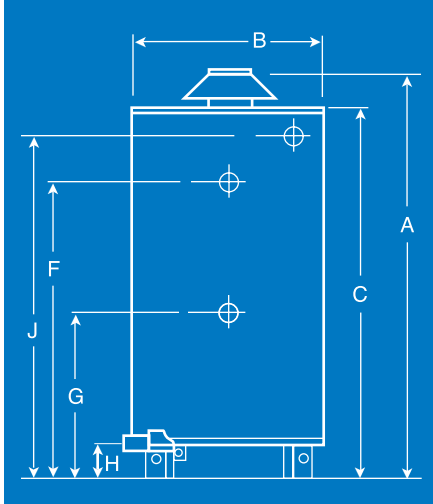
The American Standard Commercial Gas Model D-80-512-AS is designed to deliver large quantities of hot water economically through utilization of the most energy-saving techniques. Customary applications include industrial buildings, motels, hotels, schools, hospitals, restaurants, laundromats, car washes and multi-family developments up to 30 single or 21 double bath units.

#### **D-80-512-AS FEATURES**

- Heavy Gauge Steel Tank utilizes fewer internal flue tubes resulting in fewer critical welds to yield added years of trouble-free service.
- ASME Construction Model available.
- Inner tank glass-lined with Dura-Glas™ and fired at 1600° F for optimum protection from the effects of corrosion.
- R-8.3 non-CFC foam insulated to save energy and reduce fuel costs by maximizing heat retention.
- Four anode rods to prolong tank life.
- Full size hand-hole cleanout for eased tank inspection and/or removal of sediment deposits.
- Electronic direct-spark ignition system saves fuel by eliminating the need for a standby gas pilot.
- Automatic motorized flue damper reduces tank heat loss during standby periods for lowest operating costs.
- Fully adjustable 24-volt controls provide temperature settings to 180° F. When installed with a mixing valve, the D-80-512-AS can deliver 180° F sanitizing and 140° F general purpose hot water simultaneously.
- Factory installed energy cut-off system and pressure/temperature valve.
- Two inch rear and front water connections for simplified replacement of similar units, connection to circulating lines and eased multiple heater or storage tank installations.
- AMERICAN STANDARD gas water heaters are certified at 300 PSI test pressure and for 150 PSI working pressure. All tanks are hydrostatically tested at the factory.
- Tested and listed with CSA International in accordance with ANSI Z21.10.3 - CSA 4.3 for up to 180° F operation as an instantaneous and/or automatic circulating tank heater. Meets ASHRAE Standard 90.1 1999 and is NSF approved.
- Three year limited warranty on inner glass-lined tank and one year limited warranty on all other component parts.

THIS WATER HEATER MEETS THE REQUIREMENTS  
OF ASHRAE 90.1 1999 AND MEETS OR EXCEEDS  
THE THERMAL EFFICIENCY REQUIREMENTS  
OF CALIFORNIA AND OTHER STATES  
RECOGNIZING ASHRAE.

# D-80-512-AS SPECIFICATIONS AND APPLICATION DATA



**ELECTRICAL REQUIREMENTS**  
 Need 120 Volt 60  
 Cycle AC Power  
 Draws less than 5 AMPS

## SPECIFICATIONS

MODEL NUMBER*	TANK GALLONS CAPACITY	BTU INPUT NAT GAS	REC GPH 100° RISE	BTU INPUT L.P. GAS	REC GPH 100° RISE	THERM EFF %
D-80-512-AS	80	512,000	496	512,000	496	80%

\*For ASME Model: Specify D-80-512-ASME; For Propane (LP) Gas Model add suffix "LP"; For SCAQMD Low NOx Model add prefix "N"

## DIMENSIONS SHOWN IN INCHES

EXTERIOR DIMENSIONS			V E N T	REAR & FRONT WATER CONN. SIZE	WATER I.P.S. CONNECTIONS (REAR & FRONT)		GAS I.P.S. CONN.		H G T TO T&P O P E N I N G	T&P O P E N I N G
A	B	C			HEIGHT TO REAR & FRONT HOT	HEIGHT TO REAR & FRONT COLD	H G T	S I Z E		
72 <sup>1</sup> / <sub>4</sub>	30 <sup>1</sup> / <sub>4</sub>	66 <sup>1</sup> / <sub>4</sub>	10	2	F	G	H	1	J	1
					57	19 <sup>1</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>		58 <sup>1</sup> / <sub>4</sub>	

## RECOVERY IN GALLONS PER HOUR AT VARIOUS TEMPERATURE RISES

MODEL NUMBER	GAS TYPE	BTU INPUT	TEMPERATURE RISE										
			40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°
D-80-512-AS	NAT	512,000	1,241	993	827	709	621	552	496	451	414	382	355
	LP	512,000	1,241	993	827	709	621	552	496	451	414	382	355

## MAXIMUM HOT WATER DELIVERABILITY AT VARIOUS TIME PERIODS

STORAGE CAPACITY U.S. GALLONS	ONE HOUR RECOVERY 100° RISE	1 <sup>ST</sup> HOUR	2 HOURS	3 HOURS	GPM REC. 100° RISE
80	496	552	1,048	1,544	8.3

Note: Recovery rate indicated on heater rating plate is based on 75% (76%) thermal efficiency according to CSA (ANSI, Z.21.10.3). Manufacturer reserves the right to make product changes and/or improvements with or without notice.

## SAMPLE SPECIFICATION

Commercial gas water heater shall be AMERICAN STANDARD model \_\_\_\_\_ having a storage capacity of \_\_\_\_\_ gallons, operate on \_\_\_\_\_ Gas, with a BTU input of \_\_\_\_\_ and a recovery rate of \_\_\_\_\_ gallons per hour at 100° F temperature rise. Water heater tank interior shall be glass lined with Dura-Glas™, furnished with four anode rods and insulation shall be non-CFC foam of R-8.3. Water heater shall be CSA certified.



*"Living Up to A Higher Standard"*

**American Standard® Commercial Water Heaters**

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