

# American Standard®

WATER HEATERS

## Commercial Line

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 the 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™ & 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 Sized 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 & 140° F general purpose hot water simultaneously.
- **Factory Installed Energy Cut-Off System & Pressure/Temperature Valve.**
- **Two Inch Rear & Front Water Connections** – for simplified replacement of similar units, connection to circulating lines and eased multiple heater or storage tank installations. CSA certified to meet NSF/ANSI 5 Standards.
- **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 & 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.
- **Three Year Limited Warranty** – on inner glass-lined tank and one year limited warranty on all other component parts.



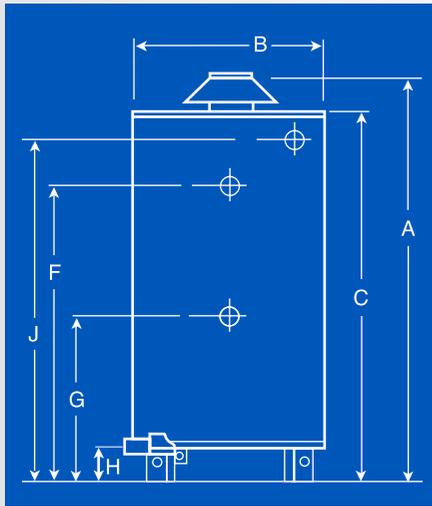
THIS WATER HEATER MEETS THE  
REQUIREMENTS OF ASHRAE 90.1-1999  
AND MEETS OR EXCEEDS  
THE THERMAL EFFICIENCY AND  
STANDBY LOSS REQUIREMENTS  
OF CALIFORNIA AND OTHER STATES  
RECOGNIZING ASHRAE.

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WATER HEATERS

2808 Metropolitan Place, Pomona, CA 91767  
(800) 900-9063 \* (909) 392-0230 \* FAX (909) 392-7302

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

## SPECIFICATIONS



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

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 T O T 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	J	58 <sup>1</sup> / <sub>4</sub>	1

## 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.



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