

# American Standard<sup>®</sup>

## Commercial Gas Water Heaters

### **MODEL: D-100-300-AS**

### **100 GALLON HEAVY DUTY STORAGE DIRECT SPARK IGNITION DAMPERED 300,000 BTU NAT GAS 300,000 BTU L.P. GAS**



The American Standard Commercial Gas Model D-100-300-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 nineteen single or fourteen double bath units.

#### **D-100-300-AS FEATURES**

- Heavy Gauge Steel Tank incorporating only twelve 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 ensure maximum tank life.
- Self-Cleaning turbulence inducing cold water inlet-tube engineered to diminish hard water area sediment deposits.
- 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-100-300-AS can deliver 180° F sanitizing and 140° F general purpose hot water simultaneously.
- Factory installed energy cut-off system and pressure/temperature valve.
- Top 1½", 2" rear and 2" front water connections for universal replacements, 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.
- Tested and listed with CSA International in accordance with ANZI Z21.10.3 - CSA 4.3 for up to 180° F operation as an automatic storage and/or automatic circulating tank heater, meets ASHRAE 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

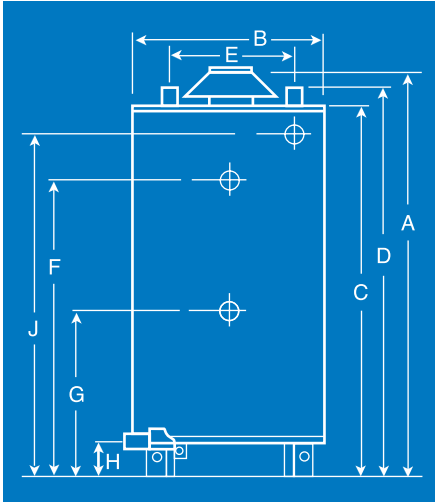
THE THERMAL EFFICIENCY

AND STANDBY LOSS REQUIREMENTS

OF CALIFORNIA AND OTHER STATES

RECOGNIZING ASHRAE.

# D-100-300-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-100-300-AS	100	300,000	291	300,000	291	80%

\*For ASME Model: Specify D-100-300-ASME; For Propane (LP) Gas Model add suffix "LP"; For SCAQMD Low NOx Model add prefix "N".

## DIMENSIONS SHOWN IN INCHES

EXTERIOR DIMENSIONS	VENT	TOP PIPE SIZE	REAR & FRONT WATER CONN.	WATER I.P.S. CONNECTIONS (TOP, REAR & FRONT)				GAS I.P.S. CONN.		HGT TO T&P OPENING	T&P OPENING		
				HGT. TO TOP WATER	TOP WATER SPREAD	HGT. TO REAR & FRONT HOT	HGT. TO REAR & FRONT COLD	HGT	SIZE				
A	B	C		D	E	F	G	H		J			
73 <sup>5</sup> / <sub>8</sub>	30 <sup>1</sup> / <sub>4</sub>	65 <sup>5</sup> / <sub>8</sub>	7	1 <sup>1</sup> / <sub>2</sub>	2	67 <sup>5</sup> / <sub>8</sub>	23 <sup>5</sup> / <sub>8</sub>	57 <sup>1</sup> / <sub>2</sub>	20	4 <sup>3</sup> / <sub>4</sub>	3/4	58 <sup>7</sup> / <sub>8</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-100-300-AS	NAT	300,000	727	582	485	416	364	323	291	265	242	224	208
	LP	300,000	727	582	485	416	364	323	291	265	242	224	208

## 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
100	291	361	652	943	4.9

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.



# American Standard® Commercial Water Heaters

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