

American Standard®

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



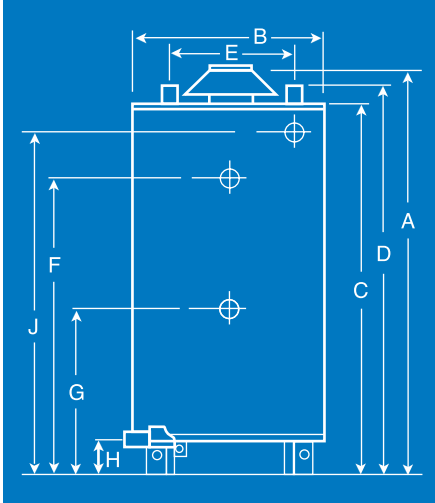
The American Standard Commercial Gas Model D-100-300-AS is designed to deliver large quantities of hot water economically through utilization of the most energy-saving techniques. Customary applications include industrial buildings, motels, hotels, schools, hospitals, restaurants, laundromats, car washes 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. 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.
- 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.
- 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
A	B	C				D	E	F	G	H	I		
73 ⁵ / ₈	30 ¹ / ₄	65 ⁵ / ₈	7	1 ¹ / ₂	2	67 ⁵ / ₈	23 ⁵ / ₈	57 ¹ / ₂	20	4 ³ / ₄	3 ³ / ₄	58 ⁷ / ₈	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 ST 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.



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