

# American Standard®

WATER HEATERS

## Commercial Line

MODEL: D-80-165-AS

### 80 GALLON HEAVY DUTY STORAGE DIRECT SPARK IGNITION DAMPERED

165,000 BTU NAT GAS

165,000 BTU L.P. GAS

#### D-80-165-AS Features

- **Heavy Gauge Steel Tank** – incorporating fewer internal flue tubes resulting in fewer critical welds to yield added years of trouble-free service.
- **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.
- **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-Colt Controls** – provide temperature settings to 180° F. When installed with a mixing valve, the D-80-165-AS can deliver 180° F sanitizing & 140° F general purpose hot water simultaneously.
- **Factory Installed Energy Cut-Off System & Pressure/Temperature Relief Valve.**
- **Top 1 1/2", 2" Rear & 2" Front Water Connections** – for universal replacements, connection to circulating lines & eased multiple heater or storage tank installations.
- **AMERICAN STANDARD Gas Water Heaters** – are certified at 300 PSI test pressure & 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 automatic storage and/or automatic circulating tank heater. Meets ASHRAE Standard 90.1 1999 addendum 90.1b. CSA certified to meet NSF/ANSI 5 standards.
- **Three Year Limited Warranty** – on inner glass-lined tank and one year limited warranty on all other component parts.

The American Standard Commercial Gas Model D-80-165-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 ten single or eight double bath units.



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

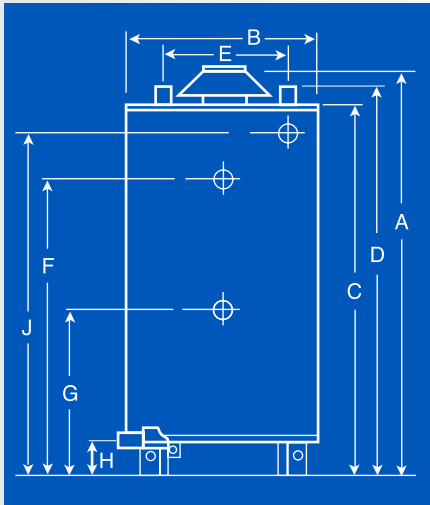
## American Standard

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561 New York Drive, Pomona, California 91768  
(800) 900-9063 \* (909) 392-0230 \* FAX (909) 392-7302

CG 003.3/09

# D-80-165-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-80-165-AS	80	165,000	160	165,000	160	80%

\*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	TOP PIPE SIZE	REAR & FRONT WATER CONN.	WATER I.P.S. CONNECTIONS (TOP, REAR & FRONT)				GAS I.P.S. CONN.		H G T T O T & P O P E N I N G	T & P O P E N I N G
A	B	C				HGT. TO TOP WATER	TOP WATER SPREAD	HGT. TO REAR & FRONT HOT	HGT. TO REAR & FRONT COLD	H G T	S I Z E		
75 1/4	26 1/4	67 1/2	6	1 1/2	2	70	19 5/8	55 1/4	22 3/4	4 3/4	1/2	57 1/8	3/4

## 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-80-165-AS	NAT	165,000	400	320	267	229	200	178	160	145	133	123	114
	LP	165,000	400	320	267	229	200	178	160	145	133	123	114

## 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	160	216	376	536	2.7

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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