

American Standard®

WATER HEATERS

Commercial Line

MODEL: D-80-199-AS

80 GALLON HEAVY DUTY STORAGE DIRECT SPARK IGNITION DAMPERED

199,900 BTU NAT GAS

199,900 BTU L.P. GAS

D-80-199-AS Features

- **Heavy Gauge Steel Tank** – incorporating only five 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.
- **Self-Cleaning Turbulence Inducing Cold Water Inlet-Tube** – engineered to diminish hard water area sediment deposits.
- **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-80-199-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 and 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 1989 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-80-199-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 thirteen single or ten double bath units.



THIS WATER HEATER MEETS THE REQUIREMENTS OF ASHRAE 1992 STANDARD ADDENDUM 90.1b AND MEETS OR EXCEEDS THE THERMAL EFFICIENCY AND STANDBY LOSS REQUIREMENTS OF CALIFORNIA AND OTHER STATES RECOGNIZING ASHRAE.

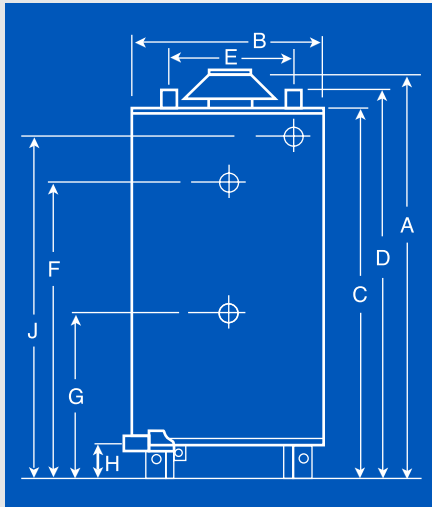
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WATER HEATERS

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

CG 005.3/09

D-80-199-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-80-199-AS | 80 | 199,900 | 194 | 199,900 | 194 | 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. | | 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 | S I Z E | | | | |
| A | B | C | | D | E | F | G | H | | J | | | |
| 68 1/4 | 28 1/4 | 60 1/2 | 6 | 1 1/2 | 2 | 63 5/8 | 21 1/4 | 52 | 18 3/4 | 4 3/4 | 1/2 | 53 5/8 | 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-80-199-AS | NAT | 199,900 | 485 | 388 | 323 | 277 | 242 | 215 | 194 | 176 | 162 | 149 | 138 |
| | LP | 199,900 | 485 | 388 | 323 | 277 | 242 | 215 | 194 | 176 | 162 | 149 | 138 |

MAXIMUM HOT WATER DELIVERABILITY AT VARIOUS TIME PERIODS

| STORAGE CAPACITY U.S. GALLONS | ONE HOUR RECOVERY 100° RISE | 1ST HOUR | 2 HOURS | 3 HOURS | GPM REC. 100° RISE |
|-------------------------------|-----------------------------|----------|---------|---------|--------------------|
| 80 | 194 | 250 | 444 | 638 | 3.2 |

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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