



**GAS-FIRED WATER HEATERS
CONDENSING**

55 | 80 | 119 | U.S. GALLONS



A PERFECT DESIGN...

Low Water Cut-off Sensor
assures that the tank will not operate unless it is filled with water

High Limit Safety Sensor

Upper (Hot Water) Temperature Sensor
accurately measures temperature to control burner input

Lower (Cold Water) Temperature Sensor
accurately measures temperature to control burner input

Cold Water Inlet (Stainless Steel)
bottom feeds cold water to help remove sediment from bottom of the tank

Exhaust Adaptor
to PVC / CPVC / Polypro Venting

Hot Water Outlet (Stainless Steel)
tube draws all the hot water from the top of the tank to improve the amount of hot water produced

Temperature and Pressure-Relief Valve
(factory installed)

Combustion Heat Exchanger
Stainless Steel/Cupronickel

Stainless Steel Burner 120 volt motor with wave modulation control

Tank Constructed of 316L Stainless Steel

Insulated with 2" (5 cm) polyurethane foam

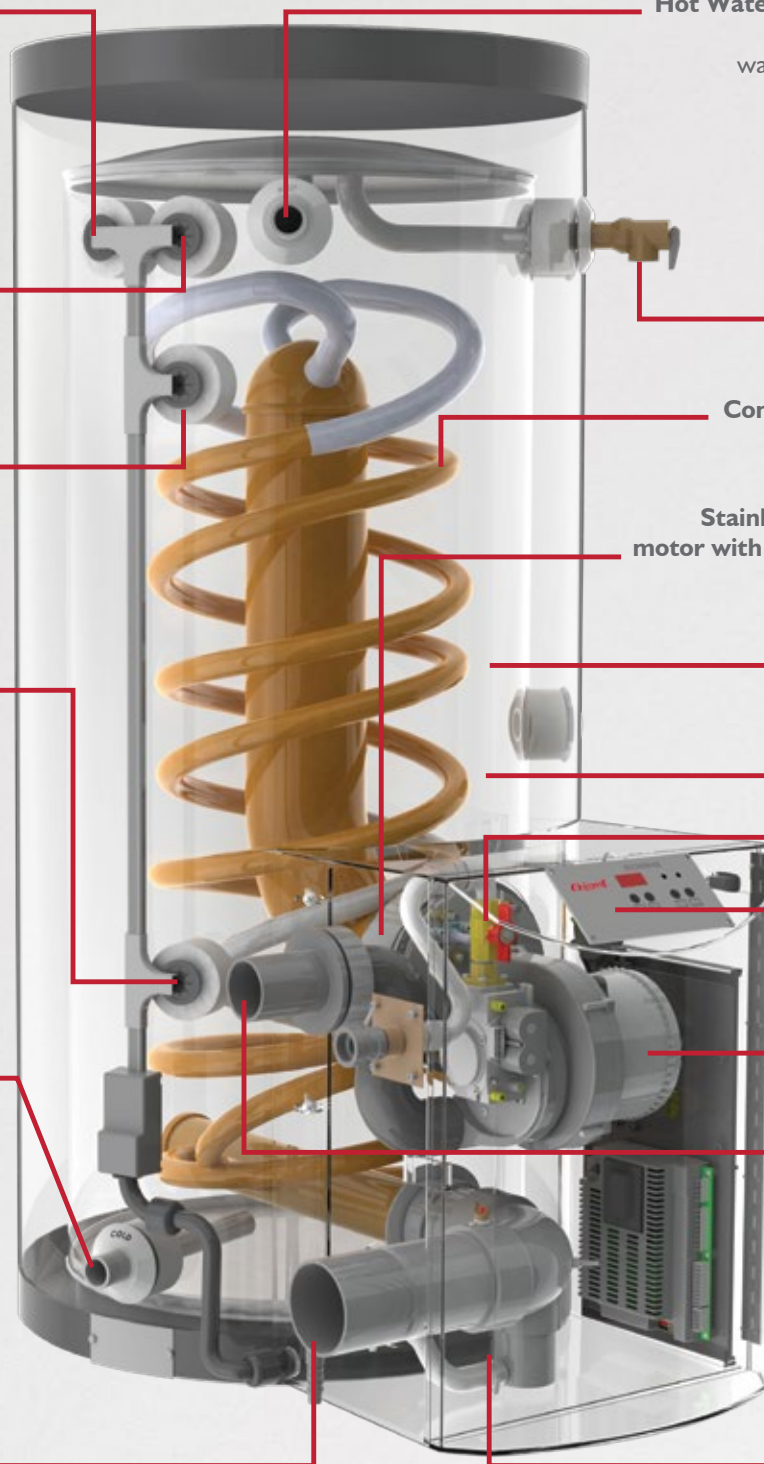
Direct Spark Ignition

Digital Display
system monitoring and temperature adjustment

Easy Service access to components

Air Intake
to PVC / CPVC / Polypro Venting

Condensate Trap Assembly



... FOR HIGH DEMAND APPLICATIONS

Output and efficiency specifications

| Models | Storage Capacity | | | Output Modulation | First Hr. Rating | | | 100°F (56 °C) Rise US GPH (L/hr) | Thermal Efficiency |
|-------------|------------------|-------|-------------|-------------------|------------------|---------|-------------|-------------------------------------|--------------------|
| | U.S. (gal.) | Litre | Imp. (gal.) | | U.S. (gal.) | Litre | Imp. (gal.) | | |
| UGC55S-100 | 55 | 208 | 46 | 35,000-100,000 | 169 | 639.7 | 140.7 | 115 (435.3) | 95 % |
| UGC55S-130 | 55 | 208 | 46 | 35,000-130,000 | 205 | 776.0 | 170.7 | 148 (560.2) | 94 % |
| UGC55S-160 | 55 | 208 | 46 | 40,000-160,000 | 245 | 927.4 | 204.0 | 184 (696.5) | 95 % |
| UGC55S-199 | 55 | 208 | 46 | 40,000-199,000 | 295 | 1,116.7 | 245.6 | 229 (866.8) | 95 % |
| UGC80S-100 | 80 | 303 | 67 | 35,000-100,000 | 189 | 715.4 | 157.4 | 116 (439.1) | 96 % |
| UGC80S-130 | 80 | 303 | 67 | 35,000-130,000 | 227 | 859.3 | 189.0 | 150 (567.8) | 95 % |
| UGC80S-160 | 80 | 303 | 67 | 40,000-160,000 | 265 | 1,003.1 | 220.6 | 184 (696.5) | 95 % |
| UGC80S-199 | 80 | 303 | 67 | 40,000-199,000 | 314 | 1,188.6 | 261.5 | 229 (866.8) | 95 % |
| UGC120S-100 | 119 | 450 | 100 | 35,000-100,000 | 214 | 810.1 | 178.2 | 117 (442.9) | 96 % |
| UGC120S-130 | 119 | 450 | 100 | 35,000-130,000 | 257 | 972.8 | 214.0 | 152 (575.4) | 96 % |
| UGC120S-160 | 119 | 450 | 100 | 40,000-160,000 | 295 | 1,116.7 | 245.6 | 184 (696.5) | 96 % |
| UGC120S-199 | 119 | 450 | 100 | 40,000-199,000 | 335 | 1,268.1 | 278.9 | 230 (870.6) | 96 % |





Connections and Specifications

| Models | BTU's | Air Intake/ Exhaust Vent Size | Water Inlet/ Outlet Size | Auxiliary Connection | Gas Line Connection | System Relief Pipe Size | Max. Temperature Limit °F (°C) |
|-------------|---------|-------------------------------------|-----------------------------|-------------------------|------------------------|-------------------------------|--------------------------------------|
| UGC55S-100 | 100,000 | 2" | 1" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |
| UGC55S-130 | 130,000 | 2" | 1" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |
| UGC55S-160 | 160,000 | 3" | 1" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |
| UGC55S-199 | 199,000 | 3" | 1" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |
| UGC80S-100 | 100,000 | 2" | 1 1/2" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |
| UGC80S-130 | 130,000 | 2" | 1 1/2" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |
| UGC80S-160 | 160,000 | 3" | 1 1/2" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |
| UGC80S-199 | 199,000 | 3" | 1 1/2" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |
| UGC120S-100 | 100,000 | 2" | 1 1/2" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |
| UGC120S-130 | 130,000 | 2" | 1 1/2" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |
| UGC120S-160 | 160,000 | 3" | 1 1/2" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |
| UGC120S-199 | 199,000 | 3" | 1 1/2" NPT | 1" FNPT | 3/4" | 3/4" | 160° (89°) |

All models are available in natural gas or propane.

For Propane, replace "N" with "P" at the end of the model number when ordering.

BENEFITS

1 - THERMAL EFFICIENCY

Up to 96 %.

2 - OUTPUT

Ranging from 100,000 to 199,000 BTU.

3 - STAINLESS STEEL 316L INNER TANK

4 - FACTORY INSTALLED TEMPERATURE & PRESSURE-RELIEF VALVE

Protects the tank from the damaging effects of excessive water temperature and pressure.

5 - DIGITAL OPERATING CONTROL

6 - VENTING SYSTEM

- Vent with PVC, CPVC, Polypropylene, or Stainless Steel.
- Venting Options:
 - Direct vent side wall
 - Direct vent vertical
 - Unbalanced venting
 - Room air
 - Combined vent/air intake length up to 200 feet (61 m)

7 - TWO (2) INCH TWO-PIPE INTAKE/EXHAUST SYSTEM

Combustion air is drawn from the outside providing a constant supply of fresh air to the burner. Can be vented horizontally through the wall or vertically through the roof. Refer to the instruction manual for full details.

8 - WATER TEMPERATURE

Maximum water temperature of 160°F (71.1°C).

9 - LOAD MATCHED MODULATING BURNER FOR MAXIMUM FUEL EFFICIENCY

- Up to 5:1 Turndown Ratio.

10 - STAINLESS STEEL BURNER 120 VOLT MOTOR WITH WAVE MODULATION CONTROL

11 - WHISPER QUIET

50 db at 5 feet (1.5 m).

12 - LOW NO_x BURNER

Environmentally friendly. More efficient combustion resulting in a reduction of air pollution.

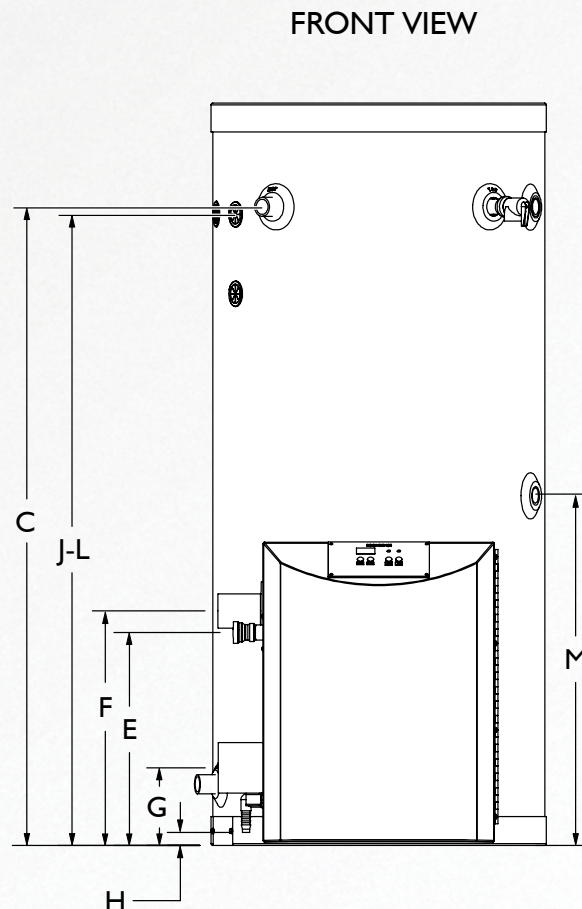
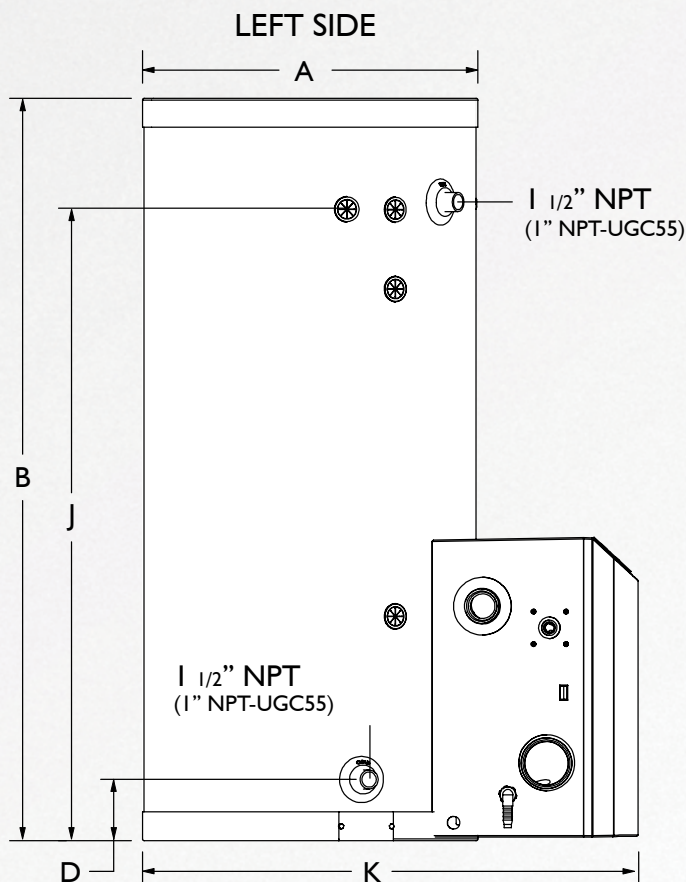
13 - INSULATED WITH 2" (5 CM) POLYURETHANE FOAM

A thick uniform blanket insulation keeps the water hotter for longer periods, reduces stand-by losses and energy costs.

14 - FIELD CONVERTIBLE IN BOTH NATURAL GAS AND PROPANE



RESIDENTIAL OR COMMERCIAL APPLICATION



DIMENSIONS

| Models | A | | B | | C | | D | | E | | F | | G | | H | | J | | K | | L | | M | | Est. ship. weight lb (kg) |
|-------------|--------|--------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|---------------------------------|
| | inches | (cm) | inches | (cm) | inches | (cm) | inches | (cm) | inches | (cm) | inches | (cm) | inches | (cm) | inches | (cm) | inches | (cm) | inches | (cm) | inches | (cm) | inches | (cm) | |
| All UGC55S | 23 | (58.4) | 52 | (132.1) | 45 | (114.3) | 5 | (12.7) | 14 3/4 | (37.5) | 16 1/4 | (41.3) | 5 1/4 | (13.3) | 1 | (2.5) | 45 | (114.3) | 34 1/4 | (87.0) | 45 | (114.3) | 27 1/2 | (69.9) | 175 (79.4) |
| All UGC80S | 23 | (58.4) | 72 | (182.9) | 64 | (162.6) | 5 | (12.7) | 17 | (43.2) | 18 1/2 | (47.0) | 7 3/4 | (19.7) | 3 1/4 | (8.3) | 64 | (162.6) | 34 1/4 | (87.0) | 64 | (162.6) | 29 3/4 | (75.6) | 235 (106.6) |
| All UGC120S | 27 | (68.6) | 74 | (188.0) | 66 1/4 | (168.3) | 7 1/2 | (19.1) | 18 3/4 | (47.6) | 21 1/2 | (54.6) | 10 1/2 | (26.7) | 5 | (12.7) | 66 1/2 | (168.9) | 38 1/2 | (97.8) | 66 1/2 | (168.9) | 31 | (78.7) | 405 (183.7) |



Giant offers a SEVEN (7) year limited warranty on **RESIDENTIAL** gas-fired water heaters against inner tank leakage from the date of installation. ONE (1) year limited warranty on component parts. For more specific warranty details, consult the owner's manual provided with each water heater.



Giant offers a THREE (3) year limited warranty on **COMMERCIAL** gas-fired water heaters against inner tank leakage from the date of installation. ONE (1) year limited warranty on component parts. For more specific warranty details, consult the owner's manual provided with each water heater.

In accordance with our company policy of on-going product improvement, Giant Factories Inc. reserves the right to make changes without prior notice.



A family company
since 1945.

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