

HEAVY-DUTY COMMERCIAL GAS WATER HEATER SPARK IGNITION

3-Year Tank Warranty

1-Year Parts Warranty

- **Non-CFC Foam Insulation**

Foam insulation saves fuel by retarding heat loss.

- **Fused Ceramic Shield**

Applied under pressure and fired at 1600°F to completely cover the tank interior. This provides a tough interior surface for storage tanks and maximum protection against the wearing effects of high-volume and high-temperature hot water.

- **Cleanout Opening**

- **24-Volt Thermostat Control**

Adjustable to temperatures up to 180°F. A recycling energy cut-off (ECO) control shuts off gas in the event of an overheat condition.

- **Power Cord**

Supplied and wired for easy installation and service or can be hard wired.

- **Electronic Thermister Sensor**

For consistent water temperature control.

- **Multiple Anode Rods**

Promote longer tank life through even distribution, for protection against corrosion of tank interior.

- **Factory-Installed Temperature and Pressure Relief Valve**

- **Electronic Intermittent Spark Ignition**

Eliminates standing pilot light for maximum energy efficiency.

- **Motorized Flue Damper**

Reduces tank heat loss during standby periods for lowest operating costs.

- **Propane Models Available**

- **Design Certified**

By CSA International for up to 180°F as an automatic storage heater in compliance with ANSI Z-21.10.3•CSA 4.3.

- **ASHRAE Standard 90.1 1999**

Thermal efficiency and standby requirements are met or exceeded.

- **California (CEC) and New York**

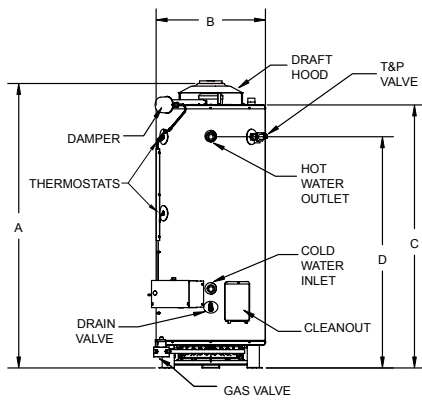
Energy requirements met or exceeded.



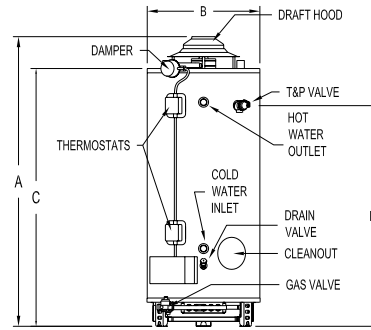
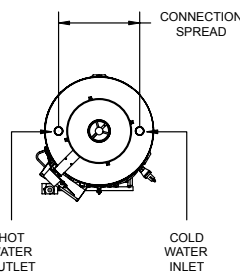
3-Year Limited Tank Warranty
Heavy gauge steel is automatically formed, rolled and welded to assure continuous seams for Fused Ceramic Shield lining. Each tank is triple tested to ensure quality.

1-Year Parts Warranty
Original factory parts warranted for 1 year.

For complete warranty information consult the written warranty of American Water Heater Company at (800) 999-9515.



DCG3 Series



DCG31 and DCG32 Series

ELECTRICAL REQUIREMENTS:

Need 120 Volt 60 Cycle AC Power Source. Draws less than 5 amps.

DCG3 Series

Dimensions on all charts shown in inches.

MODEL NUMBER	GAL. CAP.	HGT. TO TOP OF VENT A	JACKET DIA. B	HGT. TO TOP OF HEATER C	VENT SIZE	TOP CONN. SPREAD	HGT. TO FRT/BACK HOT	HGT. TO FRT/BACK COLD	HGT. TO GAS CONN.	SIZE OF GAS CONN.	HGT. TO T&P OPENING D	T&P OPEN.	APPROX. SHIP. WGT.
DCG3-75T125-5N+	75	69 1/8	26 5/8	62 3/8	5	19	54	20 1/4	4 1/4	3/4	54	3/4	480
DCG3-80T199-6N+	80	75 3/4	28 1/2	62 1/8	6	21 1/4	53 3/4	20 3/4	4 3/8	3/4	53 3/4	3/4	580
DCG3-100T199-6N+	100	75 3/8	28 1/2	69	6	21 1/4	60 3/4	20 3/4	4 3/8	3/4	60 3/4	3/4	615
DCG3-100T270-7N+	100	82 3/4	28 1/2	69 1/8	7/6	21 1/4	60 3/4	20 3/4	4 3/8	3/4	60 3/4	1	620
DCG3-75T300-7N+	75	73 1/2	28 1/2	64	7	21 1/4*	55 3/4	22 3/4	5 1/4	3/4	55 3/4	1	590
DCG3-75T360-8N	75	72 3/4	28 1/2	62 1/2	8	N/A	53 1/4	30 3/4***	4 3/8	3/4	53 1/4	1	665
DCG3-80T399-8N+	80	72 3/4	28 1/2	62 1/2	8	N/A	53 1/4	30 3/4***	4 3/8	3/4	53 1/4	1	640
ADCG3-100T270-7N+	100	82 3/4	28 1/2	69 1/8	7/6	21 1/4	60 3/4	20 3/4	4 3/8	3/4	55 3/4	1	765
ADCG3-75T300-7N+	75	73 1/2	28 1/2	64	7	21-1/4*	55 3/4	22 3/4	5 1/4	3/4	53 1/4	1	645
ADCG3-75T360-8N	75	72 3/4	28 1/2	62 1/2	8	N/A	53 1/4	30 3/4***	4 3/8	3/4	53 1/4	1	720
ADCG3-80T399-8N+	75	72 3/4	28 1/2	62 1/2	8	N/A	53 1/4	30 3/4***	4 3/8	3/4	53 1/4	1	835

*No Top Connections on Low NOx Models.

**HGT. TO BACK COLD - 36-3/4

DCG31 and DCG32 Series

Dimensions on all charts shown in inches.

MODEL NUMBER	GAL. CAP.	HGT. TO TOP OF VENT A	JACKET DIA. B	HGT. TO TOP OF HEATER C	VENT SIZE	TOP CONN. SPREAD	HGT. TO FRT/BACK HOT	HGT. TO FRT/BACK COLD	HGT. TO GAS CONN.	SIZE OF GAS CONN.	HGT. TO T&P OPENING D	T&P OPEN.	APPROX. SHIP. WGT.
DCG32-80T250-6N	80	72 3/8	28 1/4	64 1/2	6	18 1/2	56***	19 1/2***	4 3/4	3/4	56	1	540
◊DCG32-75T300-7N+	75	72 7/8	28 1/4	64 1/2	7	N/A	54 1/4***	29***	10 1/2	3/4	54 1/4	1	590
DCG31-80L505-10N	80	69 3/8	30 1/4	60	10	N/A	51 1/2	23 1/2	10 1/2	1*	51 1/2	1	800
◊ADCG31-100L270-7N+	100	75	30 1/4	65	6	23	56 1/2	23 1/2	4 1/2	3/4	56 1/2	1	765
◊ADCG32-65T370-8N	65	72 7/8	28 1/4	64 1/2	8	N/A	54 1/4***	29***	10 1/2	1*	54 1/4	1	720
ADCG31-80L505-10N	80	69 3/8	30 1/4	60	10	N/A	51 1/2	23 1/2	10 1/2	1*	51 1/2	1	835

***NO BACK CONNECTION

†PROPANE 3/4

ASME models are prefixed with an "A".

To order propane models change suffix from "N" to "P".

+Low NOx available (SCAQMD Rule 1146.2) substitute "NOX" for "N" in model number.

◊ Will be phased out when equivalent DCG3 series models become available.

Limited warranty on tank and parts. Complete details in manual. Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

DCG3 Series RECOVERY IN GALLONS AT VARIOUS TEMPERATURE RISES

MODEL NUMBER	GAS TYPE	BTU INPUT	TEMPERATURE RISE										
			40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°
DCG3-75T125-5N+	NAT/PRO	125,000	303	242	202	173	152	135	121	110	101	93	87
DCG3-80T199-6N+	NAT/PRO	199,000	482	386	322	276	241	214	193	175	161	148	138
DCG3-100T199-6N+	NAT/PRO	199,000	482	386	322	276	241	214	193	175	161	148	138
DCG3-100T270-7N+	NAT/PRO	270,000	655	524	436	374	327	291	262	238	218	201	187
DCG3-75T300-7N+	NAT/PRO	300,000	727	582	485	416	364	323	291	264	242	224	208
DCG3-75T360-8N	NAT/PRO	360,000	873	698	582	499	436	388	349	317	291	269	249
DCG3-80T399-8N+	NAT/PRO	399,000	967	774	645	553	484	430	387	352	322	298	276
ADCG3-100T270-7N+	NAT/PRO	270,000	655	524	436	374	327	291	262	238	218	201	187
ADCG3-75T300-7N+	NAT/PRO	300,000	727	582	485	416	364	323	291	264	242	224	208
ADCG3-75T360-8N	NAT/PRO	360,000	873	698	582	499	436	388	349	317	291	269	249
ADCG3-80T399-8N+	NAT/PRO	399,000	967	774	645	553	484	430	387	352	322	298	276

DCG31 AND DCG32 Series RECOVERY IN GALLONS AT VARIOUS TEMPERATURE RISES

MODEL NUMBER	GAS TYPE	BTU INPUT	TEMPERATURE RISE										
			40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°
DCG32-80T250-6N	NATURAL	250,000	606	485	404	346	303	269	242	220	202	186	173
DCG32-80T250-6N	PROPANE	235,000	570	456	380	326	285	253	228	207	190	175	163
◇DCG32-75T300-7N+	NAT/PRO	300,000	727	582	485	416	364	323	291	264	242	224	208
DCG31-80L505-10N	NATURAL	505,000	1,224	979	816	700	612	544	490	445	408	377	350
DCG31-80L505-10N	PROPANE	475,000	1,152	921	768	658	576	512	461	419	384	354	329
◇ADCG31-100L270-7N+	NAT/PRO	270,000	655	524	436	374	327	291	262	238	218	201	187
◇ADCG32-65T370-8N	NAT/PRO	370,000	897	718	598	513	448	399	359	326	299	276	256
ADCG31-80L505-10N	NATURAL	505,000	1,224	979	816	700	612	544	490	445	408	377	350
ADCG31-80L505-10N	PROPANE	475,000	1,152	921	768	658	576	512	461	419	384	354	329

DCG3 Series WATER CONNECTIONS IN INCHES

MODEL NUMBER	INLET			OUTLET		
	TOP	FRONT	BACK	TOP	FRONT	BACK
DCG3-75T125-5N+	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
DCG3-80T199-6N+	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
DCG3-100T199-6N+	1 1/2	1 1/2	2	1 1/2	1 1/2	2
DCG3-100T270-7N+	1 1/2	1 1/2	2	1 1/2	1 1/2	2
DCG3-75T300-7N+	1 1/2*	1 1/2	1 1/2	1 1/2*	1 1/2	1 1/2
DCG3-75T360-8N	N/A	1 1/2	2	N/A	1 1/2	2
DCG3-80T399-8N+	N/A	1 1/2	2	N/A	1 1/2	2
ADCG3-100T270-7N+	1 1/2	1 1/2	2	1 1/2	1 1/2	2
ADCG3-75T300-7N+	1 1/2*	1 1/2	1 1/2	1 1/2*	1 1/2	1 1/2
ADCG3-75T360-8N	N/A	1 1/2	2	N/A	1 1/2	2
ADCG3-80T399-8N+	N/A	1 1/2	2	N/A	1 1/2	2

DCG31 AND DCG32 Series WATER CONNECTIONS IN INCHES

MODEL NUMBER	INLET			OUTLET		
	TOP	FRONT	BACK	TOP	FRONT	BACK
DCG32-80T250-6N	1 1/2	1 1/2	N/A	1 1/2	1 1/2	N/A
◇DCG32-75T300-7N+	N/A	1 1/2	N/A	N/A	1 1/2	N/A
DCG31-80L505-10N	N/A	1 1/2	2	N/A	1 1/2	2
◇ADCG31-100L270-7N+	1 1/2	1 1/2	2	1 1/2	1 1/2	2
◇ADCG32-65T370-8N	N/A	1 1/2	N/A	N/A	1 1/2	N/A
ADCG31-80L505-10N	N/A	1 1/2	2	N/A	1 1/2	2

*No Top Connections on Low NOx Models.



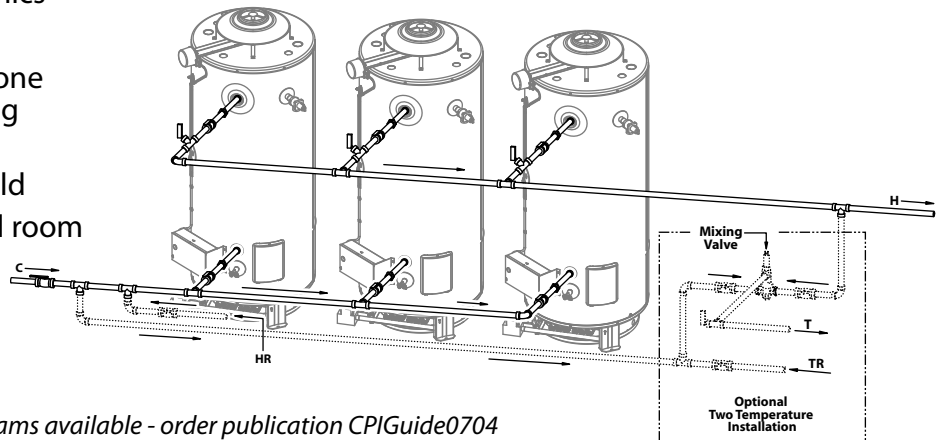
Commercial Gas Dampered Spark Ignition Models Specification

Commercial gas-fired water heater(s) shall be American Model _____ as manufactured by American Water Heater Company, designed to burn _____ gas and certified by CSA International under Volume III tests for commercial water heater(s) having delivery capabilities of 180°F water, and meet or exceed all applicable energy codes. Water heater(s) shall have a storage capacity of _____ gallons, a minimum input rating of _____ Btuh and a recovery rating of _____ GPH (based upon 80% thermal efficiencies) at a _____ °F temperature rise. Water heater(s) steel tank is hydrostatic tested at 300 PSI having a working pressure of 150 PSI and shall have a Fused Ceramic Shield internally lined tank applied under pressure and fired at 1600 °F allowing for maximum protection. Water heater(s) shall be provided with a full-sized 4" dia. boiler-type inspection port/cleanout, and an AGA-approved pressure and temperature relief valve factory installed. Water heater(s) shall be equipped with a 24-Volt integrated control circuit consisting of 180 °F adjustable thermostat with upper and lower sensors to maintain an average water temperature throughout the tank allowing maximum water temperature control. Water heater(s) shall be provided with a recycling energy cutoff (ECO) device, gas pressure regulator set for the type of gas supplied, IID electronic ignition, agency-approved flue damper and draft diverter, and anodes for cathodic protection. The outer jacketing shall have a baked enamel finish. The tank shall be foam insulated with an EPA-approved, non-CFC material. Water heater(s) shall have a 3-year limited warranty against corrosion as outlined in the written warranty. Fully illustrated operation, installation and service manual included with unit.

Commercial Gas Builder Block System

BENEFITS:

- Utilizes reverse return flow dynamics
- Ease of Installation
- Diversity of being able to isolate one heater for service without shutting down entire system
- Less restrictions than yolk manifold
- Takes up less space in mechanical room
- May be used to add redundancy to hot water system, avoiding total loss of hot water if one unit fails



Additional installation diagrams available - order publication CPIGuide0704

Order Entry and Sales

P.O. Box 4056, 500 Princeton Road
Johnson City, TN 37602-4056
(800) 937-1037
(800) 581-7224 fax

Product Service and Support

P.O. Box 1597, 500 Princeton Road
Johnson City, TN 37605-1597
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