

3-Year Limited Tank/1-Year Limited Parts Warranty*

Heavy Duty Ultra-Low NOx Commercial Gas Tank-Type Water Heaters

Features

82% thermal efficiency means lower operating costs

Fan Assisted Combustion

- The blower is built into the Low NOx burner assembly for Ultra-Low NOx readings that comply with SCQAMD rule 1146.2 of 14 ng/j or 20 ppm

Metal Venting

- Rated Category I Appliance. Uses standard double wall type "B" vent
- Can be commonly vented with other Category I appliances
- Vent connects directly to the vent connector outlet
- No Draft hood or barometric damper required
- Perfect choice for retrofit and upgrade installations

Water Connections

- For ease of installation, all BCL3s feature water connections on the top, front, and rear
- Self Cleaning inlet water connection eliminates harmful scale buildup, extending the life of the product
- The front inlet connection must be used for the Self Cleaning benefits

Glasslined Tank

- Our proprietary slush coating is applied after the complete tank has been assembled to give a seamless barrier against hot water corrosion
- Maximum working pressure 160 psi

Installed Cost Savings

- When multiple BCL3 units are exclusively used in a vent manifold, use the National Fuel Gas Code Table 13 Vent Sizing information to determine vent diameter and specifications

Fully Automatic Digital Control with Safety Shutoff

- Accurate, dependable control system. Features a two speed blower control for smooth main burner light off
- Manual reset gas shutoff device for added safety
- Maximum inlet gas pressure is 14" W.C. Minimum gas pressure is 3.5" W.C. Natural Gas

Foam Insulation

- Saves fuel, helps reduce standby heat loss

Jacket

- Heavy gauge steel finished with a baked enamel finish over a bonderized undercoat

Easy Cleaning

- Handhole cleanout allows access for easy cleaning

Fully Tested for Safety and Performance

- Design certified by the Underwriters Laboratory for 180°F hot water service
- Meets rigid requirements of the National Sanitation Foundation when equipped with optional leg kit
- Certified for use on combustible flooring

Intermittent Ignition Device

- Eliminates standing pilot
- Provides flame failure response in less than one second
- Spark ignitor and power ON/OFF switch

Easy-To-Install

- Completely factory-assembled
- Only gas, water, vent and electric connections need be made
- Provided with drain valve

Anodes

- Long-life, stainless steel core anode rods

Plug Kits

- Pipe nipples and caps are included to plug unused water connections

Approval Ratings and Certification

- All models meet ANSI Z21.10.3 - CSA 4.3 standards and the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IESNA 90.1

Other Features

- Integral automatic gas shutoff system prevents excessive water temperature
- CSA Certified and ASME Rated T&P Relief valve are factory-installed
- Maximum working pressure is 160 psi standard
- Adjustable thermostat with a 120-180°F range
- All models certified up to 7,700 ft.

NSF Leg Kit

- Meets NSF Standard 5 with optional leg kit - Part # 9008214005



Image shows models
120-250(A)

GAS-FIRED



LISTED



Low Lead Content



HLW



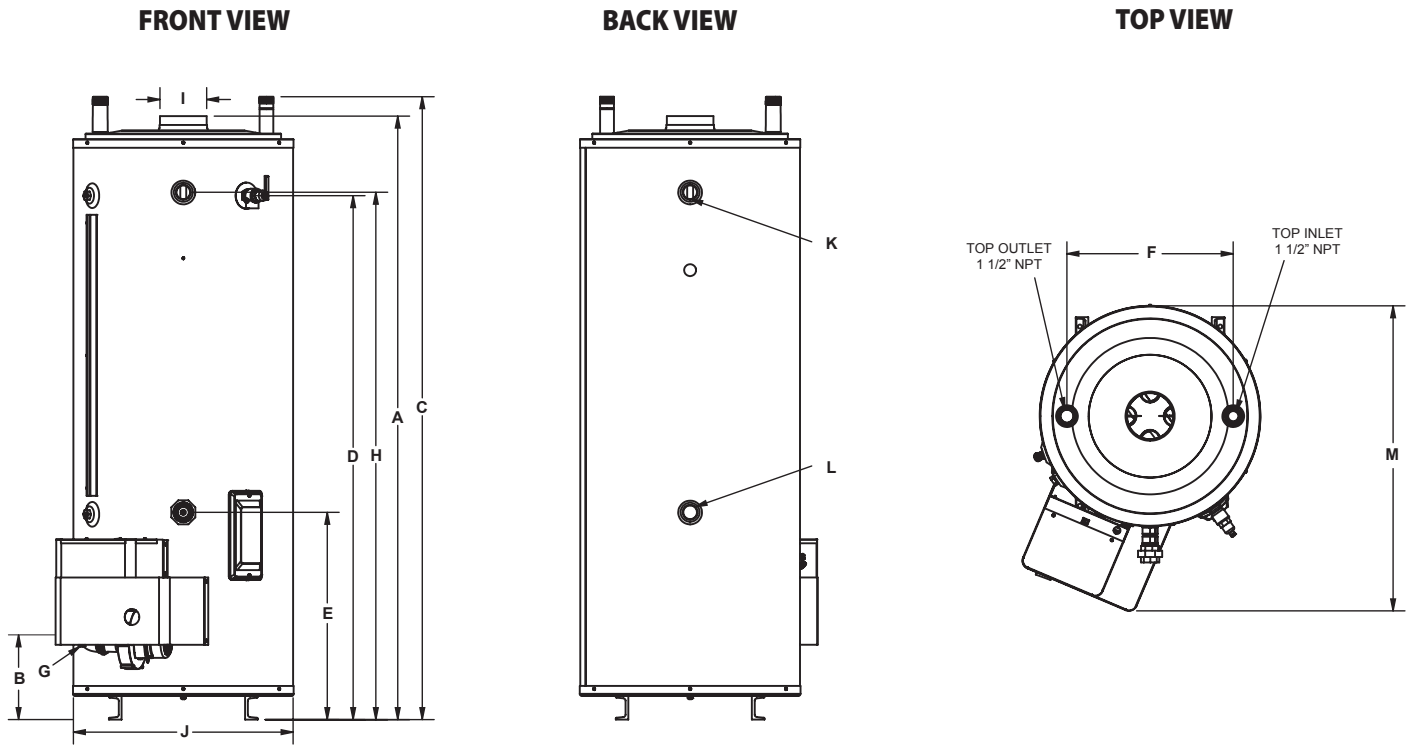
WATER QUALITY



*For complete warranty information consult the written warranty of American Water Heaters found at www.americanwaterheater.com, or call (800) 456-9805.

ROUGH-IN DIMENSIONS

BCL3 Models 120-250, (A)BCL3 250



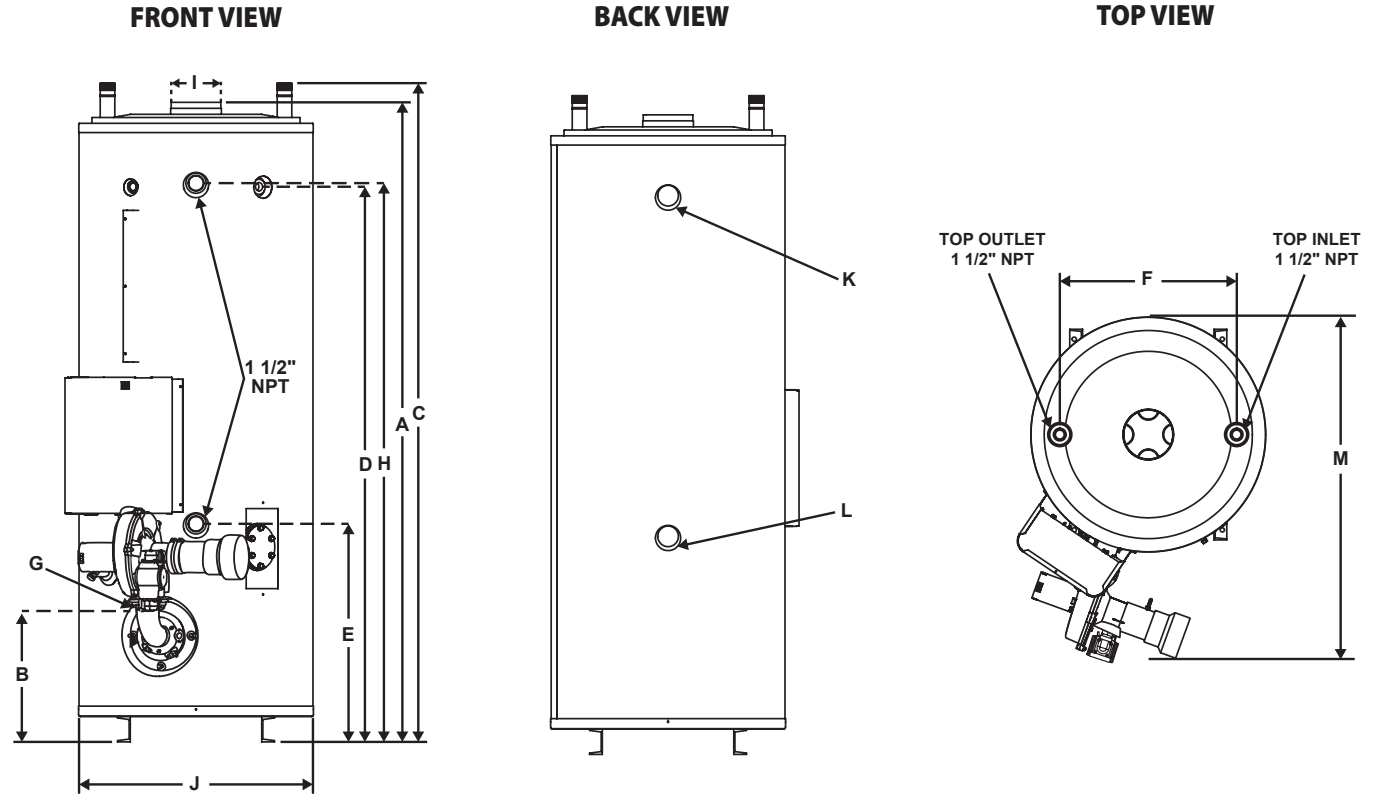
ROUGH-IN DIMENSIONS

MODEL DIMENSIONS	BCL3-80T120-6NOX		BCL3-80T154-6NOX		BCL3-95T180-6NOX		BCL3-95T199-6NOX		(A)BCL3-95T250-6NOX	
	inches	cm	inches	cm	inches	cm	inches	cm	inches	cm
A	68 1/4	173.4	68 1/4	173.4	76	193.0	76	193.0	76	193.0
B	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
C	70 1/2	179.1	70 1/2	179.1	78 1/4	198.8	78 1/4	198.8	78 1/4	198.8
D	58 1/4	147.8	58 1/4	147.8	65 3/4	167.0	65 3/4	167.0	65 3/4	167.0
E	26 1/4	66.5	26 1/4	66.5	25 3/4	65.4	25 3/4	65.4	25 3/4	65.4
F	21	53.3	21	53.3	21	53.3	21	53.3	21	53.3
G	1/2 NPT		1/2 NPT		1/2 NPT		1/2 NPT		1/2 NPT	
H	58 1/2	148.8	58 1/2	148.8	66 1/4	168.3	66 1/4	168.3	66 1/4	168.3
I	6	15.2	6	15.2	6	15.2	6	15.2	6	15.2
J	27 3/4	70.5	27 3/4	70.5	27 3/4	70.2	27 3/4	70.2	27 3/4	70.2
K	1 1/2 NPT		1 1/2 NPT		1 1/2 NPT		1 1/2 NPT		1 1/2 NPT	
L	1 1/2 NPT		1 1/2 NPT		1 1/2 NPT		1 1/2 NPT		1 1/2 NPT	
M	38 1/2	97.8	38 1/2	97.8	38 1/2	97.8	38 1/2	97.8	38 1/2	97.8

"A" before model number designates ASME construction
 Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.
 All models rated at 82% thermal efficiency
 Models available for sale in California only

ROUGH-IN DIMENSIONS

(A)BCL3 Models 275-390



ROUGH-IN DIMENSIONS

MODEL DIMENSIONS	(A)BCL3-85T275-6NOX		(A)BCL3-85T310-6NOX		(A)BCL3-85T366-6NOX		(A)BCL3-85T390-6NOX	
	inches	cm	inches	cm	inches	cm	inches	cm
A	76	193	76	193	76	193	76	193
B	16 1/4	41.2	16 1/4	41.2	16 1/4	41.2	16 1/4	41.2
C	78 1/4	198.8	78 1/4	198.8	78 1/4	198.8	78 1/4	198.8
D	65 3/4	167	65 3/4	167	65 3/4	167	65 3/4	167
E	25 3/4	65.4	25 3/4	65.4	25 3/4	65.4	25 3/4	65.4
F	21	53.3	21	53.3	21	53.3	21	53.3
G	3/4 NPT		3/4 NPT		3/4 NPT		3/4 NPT	
H	66 1/4	168.3	66 1/4	168.3	66 1/4	168.3	66 1/4	168.3
I	6	15.2	6	15.2	6	15.2	6	15.2
J	27 3/4	70.5	27 3/4	70.5	27 3/4	70.5	27 3/4	70.5
K	1 1/2 NPT		1 1/2 NPT		1 1/2 NPT		1 1/2 NPT	
L	1 1/2 NPT		1 1/2 NPT		1 1/2 NPT		1 1/2 NPT	
M	41	104	41	104	41	104	41	104

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Commercial Gas Water Heaters

RECOVERY CAPACITIES, BASED ON 82% EFFICIENCY

	INPUT KBTUH	INPUT kW	U.S. GAL.	LITERS	EFF. %	U. S. GALLONS / HR. AND LITERS / HR. AT TEMPERATURE RISE INDICATED																
						Deg. F	36	40	50	54	60	70	72	80	90	100	108	110	120	126	130	140
						Deg. C	20	22	28	30	33	39	40	44	50	56	60	61	67	70	72	78
BCL3-80T120-6NOX	120,000		81		82	GPH	331	298	239	221	199	170	166	149	133	119	110	108	99	95	92	85
		35		307		LPH	1254	1129	903	836	752	645	627	564	502	451	418	410	376	358	347	322
BCL3-80T154-6NOX	154,000		81		82	GPH	425	383	306	283	255	219	213	191	170	153	142	139	128	121	118	109
		45		307		LPH	1609	1448	1159	1073	966	828	805	724	644	579	536	527	483	460	446	414
BCL3-95T180-6NOX	180,000		93		82	GPH	497	447	358	331	298	256	248	224	199	179	166	163	149	142	138	128
		53		352		LPH	1881	1693	1354	1254	1129	967	941	846	752	677	627	616	564	537	521	484
BCL3-95T199-6NOX	199,000		93		82	GPH	549	494	396	366	330	283	275	247	220	198	183	180	165	157	152	141
		58		352		LPH	2080	1872	1497	1386	1248	1070	1040	936	832	749	693	681	624	594	576	535
(A)BCL3-95T250-6NOX	250,000		93		82	GPH	690	621	497	460	414	355	345	311	276	248	230	226	207	197	191	177
		73		352		LPH	2613	2351	1881	1742	1568	1344	1306	1176	1045	941	871	855	784	746	723	672

	INPUT BTUH	INPUT kW	U.S. GAL.	LITERS	EFF. %	U. S. GALLONS / HR. AND LITERS / HR. AT TEMPERATURE RISE INDICATED																
						Deg. F	36	40	50	54	60	70	72	80	90	100	108	110	120	126	130	140
						Deg. C	20	22	28	30	33	39	40	44	50	56	60	61	67	70	72	78
(A)BCL3-85T275-6NOX	275,000		85		82	GPH	754	678	543	502	452	388	377	339	301	271	251	247	226	215	209	194
		81		322		LPH	2853	2567	2054	1902	1712	1467	1426	1284	1141	1027	951	934	856	815	790	734
(A)BCL3-85T310-6NOX	310,000		85		82	GPH	849	765	612	566	510	437	425	382	340	306	283	278	255	243	235	218
		91		322		LPH	3216	2894	2315	2144	1929	1654	1608	1447	1286	1158	1072	1052	965	919	890	827
(A)BCL3-85T366-6NOX	366,000		85		82	GPH	1003	903	722	669	602	516	501	451	401	361	334	328	301	287	278	258
		107		322		LPH	3797	3417	2734	2531	2278	1953	1898	1708	1519	1367	1266	1243	1139	1085	1051	976
(A)BCL3-85T390-6NOX	390,000		85		82	GPH	1069	962	769	712	641	550	534	481	427	385	356	350	321	305	296	275
		114		322		LPH	4046	3641	2913	2697	2427	2081	2023	1820	1618	1456	1349	1324	1214	1156	1120	1040

GAS AND ELECTRICAL CHARACTERISTICS

MODEL	GAS TYPE	GAS SUPPLY PRESSURE		VOLTS / HZ	AMPERES
		MINIMUM	MAXIMUM		
All Models	Natural	3.5"W.C. (0.87 kPa)		120 / 60	< 5
		14"W.C. (3.48 kPa)			

MODEL	CLEARANCE TO COMBUSTIBLES		CLEARANCE TO NON-COMBUSTIBLES	
	SIDES & REAR	TOP COVER	SIDES & REAR	TOP COVER
All Models	0"	12"	0"	12"

MODELS	WATER CONNECTIONS IN INCHES					
	INLET			OUTLET		
	TOP	FRONT	BACK	TOP	FRONT	BACK
All Models	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2

	BCL3-80T120		BCL3-80T154		BCL3-95T180		BCL3-95T199		(A)BCL3-95T250		(A)BCL3-85T275		(A)BCL3-85T310		(A)BCL3-85T366		(A)BCL3-85T390	
	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.
Approx. Shipping Weight STD	750	340	750	340	835	379	835	379	835	379	850	386	850	386	850	386	850	386
Approx. Shipping Weight ASME	-	-	-	-	-	-	-	-	880	399	900	408	900	408	900	408	900	408

Specification

Water Heater(s) shall be Model _____ as manufactured by AMERICAN, or equal. Water heater(s) shall be of glasslined design, and gasfired, equipped to burn natural gas and design certified by the Underwriter Laboratory under Volume III tests for commercial heaters for delivery of 180°F water, and meet or exceed the thermal efficiency and standby loss requirements of the U.S. Department of Energy and Current Edition of ASHRAE/IESNA 90.1. Heaters shall have an input rating of _____ and a recovery rating of _____ GPH at a temperature rise of 100°F with a storage capacity of _____ gallons. Heaters shall be equipped with 1 1/2" water inlet and outlet openings, a 2 3/4" x 3 3/4" boiler-type handhole cleanout and shall have a maximum working pressure of 160 psi. Water heater(s) shall be equipped with an integrated control system consisting of a 180°F adjustable thermostat with upper and lower sensing bulbs, which average the water temperatures at the top and bottom of the tank for maximum water temperature control. Heater(s) shall be provided with a manual reset gas shutoff device, anodes for cathodic protection and IID system. CSA Certified and ASME Rated T&P Relief Valve shall be furnished and installed by the factory. The heater shall be insulated with foam insulation or equal. The outer jacket shall have a baked enamel finish over a bonderized undercoating. All internal surfaces of the heater(s) exposed to water shall be glasslined with an alkaline borosilicate composition that has been fused-to-steel by firing at a temperature range of 1400° to 1600°F. Heater tank shall have a 3 year limited warranty against corrosion or sediment buildup as outlined in the written warranty. Fully illustrated instruction manual to be included.

Distributed By:

Order Entry and Sales

500 Princeton Road (FEDEX, UPS)
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 FAX (800) 581-7224

Warranty and Service

500 Princeton Road (FEDEX, UPS)
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