



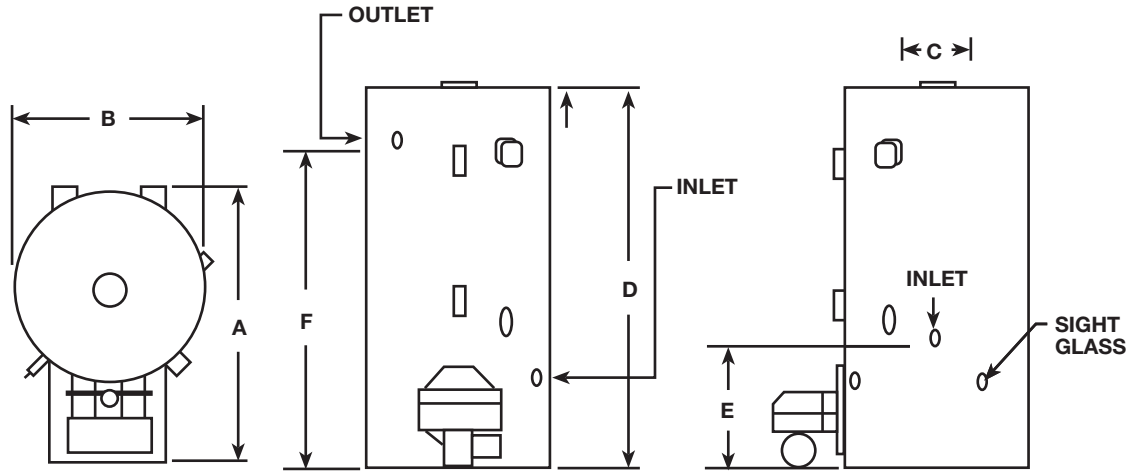
Commercial Energy Saver Power Burner Gas Models

Standard Features:

- **Construction** – constructed under ASME Section IV codes for 160 psi working pressure. National Board registered and stamped. UL listed under File #MH17640. Meets CSD-1 standards and is CEC listed. Meets or exceeds ASHRAE 90.1b (current standard) & DOE guidelines.
- **Ceramic Fiber Combustion Chamber** – large diameter and flue tube spacing reduces thermal loading and stresses. Provides low heat radiation on shutdown.
- **Efficiency** – 83% non-condensing thermal efficiency.
- **Minimal Floor Space** – vertical design reduces square footage of floor space required for installation. Weight of heater and water is uniformly distributed on floor on structural steel base.
- **Modular Construction** – two-part construction allows mechanical room disassembly and repositioning of pressure vessel on base. Lift lugs and forklift base are provided for ease of installation.
- **Powered Gas Burner** – UL listed. Service friendly with easy accessibility to electronic controls and burner wiring. Maximum inlet pressure 14" W.C. Intermittent spark ignition with electronic flame safeguard control. Diaphragm air switch for proof of blower operation. Burner pre-wired and mounted on heater. Only 8" clearance required to remove burner.
- **Controls** – upper and lower Aquastats with wells for accurate temperature control. Auto re-set and manual reset high limit control.
- **ASME Temperature and Pressure Relief Valve** – installed.
- **Hand Hole Cleanout-out.**
- **Copper Lined Pressure Vessel.**
- **FDA, UL and ASME Approved Tank Lining.**
- **Drain Valve.**
- **3" Glass Fiber Tank Insulation.**
- **5 Year Limited Warranty on Pressure Vessel and Combustion Chamber.**
- **1 Year Limited Parts Warranty.**
- **Dielectric Isolation Kits**
- **Combustion Flame Safety Control** – with prepurge (pre and post purge over 2500 MBH)
- **Fuel Control Valve(s).**
- **Low Pressure Main and Pilot Gas Pressure Regulators.**
- **Low Water Cut-Off.**



All models comply with ASME Section IV, "HLW", Water Heater Code for 160 psi working pressure and registered by National Board.



■ All Models Meet California Energy Commission Requirements.

Specifications and Dimensions (in inches)

Model Number	Gal Cap.	Max. BTU Input (1,000's)	1st Hour Del. @ 100°F Rise	A Depth	B Dia.	C Vent Dia.	D HGT	E Cold In	F Hot Out	Weight Lbs.	Water Conn
R140-300-5NA	140	300	412	60	34	6	84½	31	72½	2005	2
R140-399-5NA	140	399	510	60	34	6	84½	31	72½	2005	2
R140-565-5NA	140	565	677	60	34	6	84½	31	72½	2005	2
R180-300-5NA	180	300	444	63	45	6	73½	31	61½	2215	2
R180-399-5NA	180	398	542	63	45	6	73½	31	61½	2215	2
R180-540-5NA	180	540	684	63	45	6	73½	31	61½	2215	2
R180-700-5NA	180	697	841	63	45	6	73½	31	61½	2215	2
R180-1075-5NA	180	1071	1215	63	45	6	73½	31	61½	2215	2
R250-300-5NA	250	300	500	63	45	6	84½	31	72½	2407	2
R250-399-5NA	250	398	598	63	45	6	84½	31	72½	2407	2
R250-540-5NA	250	540	740	63	45	6	84½	31	72½	2407	2
R250-700-5NA	250	697	897	63	45	6	84½	31	72½	2407	2
R250-1075-5NA	250	1071	1271	63	45	6	84½	31	72½	2407	2
R320-300-5NA	320	300	556	63	44	6	103	31	84½	2732	2
R320-399-5NA	320	399	654	63	44	6	103	31	84½	2732	2
R320-540-5NA	320	540	796	63	44	6	103	31	84½	2732	2
R320-700-5NA	320	700	953	63	44	6	103	31	84½	2732	2
R320-1075-5NA	320	1075	1327	63	44	6	103	31	84½	2732	2
R400-399-5NA	400	399	718	74	55	6	88	34½	75	3710	3
R400-540-5NA	400	540	860	74	55	6	88	34½	75	3710	3
R400-700-5NA	400	700	1017	74	55	6	88	34½	75	3710	3
R400-1075-5NA	400	1075	1391	74	55	6	88	34½	75	3710	3
R400-1260-5NA	400	1260	1575	74	55	6	88	34½	75	3710	3
R400-1600-5NA	400	1600	1914	74	55	8	88	34½	75½	3710	3
R500-399-5NA	500	399	798	74	55	6	100	34½	87½	3951	3
R500-540-5NA	500	540	940	74	55	6	100	34½	87½	3951	3
R500-700-5NA	500	700	1097	74	55	6	100	34½	87½	3951	3
R500-1075-5NA	500	1075	1471	74	55	6	100	34½	87½	3951	3
R500-1260-5NA	500	1260	1655	74	55	6	100	34½	87½	3951	3
R500-1600-5NA	500	1600	1994	74	55	8	100	34½	87½	3951	3

Note: Models are available in Natural gas only.

continued on next page

Model Number	Gal Cap.	Max. BTU Input (1,000's)	1st Hour Del. @ 100°F Rise	A Depth	B Dia.	C Vent Dia.	D HGT	E Cold In	F Hot Out	Weight Lbs.	Water Conn
R600-700-5NA	600	700	1177	87	67	6	88	37	75½	5461	3
R600-1075-5NA	600	1075	1551	87	67	6	88	37	75½	5461	3
R600-1260-5NA	600	1260	1735	87	67	6	88	37	75½	5461	3
R600-1600-5NA	600	1600	2074	92	67	8	88	37	75½	5461	3
R700-700-5NA	700	700	1257	87	67	6	100	37	87½	5720	3
R700-1075-5NA	700	1075	1631	87	67	6	100	37	87½	5720	3
R700-1260-5NA	700	1260	1815	87	67	6	100	37	87½	5720	3
R700-1600-5NA	700	1600	2154	92	67	8	100	37	87½	5720	3
R800-1075-5NA	800	1075	1711	106	76	6	88	37	75½	7261	3
R800-1260-5NA	800	1260	1895	106	76	6	88	37	75½	7261	3
R800-2200-5NA	800	2200	2882	111	76	8	88	37	75½	7261	3
R800-2500-5NA	800	2500	3130	111	76	10	88	37	75½	7261	3
R800-3080-5NA	800	3080	3708	111	76	12	88	37	75½	7261	3
R900-1075-5NA	900	1075	1711	103	75½	6	95	37	81½	7540	3
R900-1260-5NA	900	1260	1895	103	75½	6	95	37	81½	7540	3
R900-2200-5NA	900	2200	2882	103	75½	8	95	37	81½	7540	3
R900-2500-5NA	900	2500	3130	107	75½	10	95	37	81½	7540	3
R900-3080-5NA	900	3080	3708	107	75½	12	95	37	81½	7540	3
R1000-1075-5NA	1000	1075	1871	106	76	6	100	37	87½	7540	3
R1000-1260-5NA	1000	1260	2055	106	76	6	100	37	87½	7540	3
R1000-2200-5NA	1000	2200	2992	111	76	8	100	37	87½	7540	3
R1000-2500-5NA	1000	2500	3290	111	76	10	100	37	87½	7540	3
R1000-3080-5NA	1000	3080	3868	111	76	12	100	37	87½	7540	3
R1200-2200-5NA	1200	2200	3152	121	92	8	88	37	75½	7552	3
R1200-2500-5NA	1200	2500	3450	121	92	10	88	37	75½	7552	3
R1200-3080-5NA	1200	3080	4028	121	92	12	88	37	75½	7552	3
R1200-3650-5NA	1200	3650	4596	133	92	12	88	37	75½	7552	3
R1500-2200-5NA	1500	2200	3397	121	92	8	100	37	87½	7964	3
R1500-2500-5NA	1500	2500	3690	121	92	10	100	37	87½	7964	3
R1500-3080-5NA	1500	3080	4268	121	92	12	100	37	87½	7964	3
R1500-3650-5NA	1500	3650	4836	133	92	12	100	37	87½	7964	3

Note: Models are available in Natural gas only.

Typical Specifications

This water heater shall be **Bradford White Model** _____ with a nominal storage capacity of _____ gallons, a gas input rating of _____ BTUH, and a minimum recovery of _____ GPH @ 100°F. temperature rise. This water heater shall be packaged storage type, designed and built to comply with the latest ASME Code for 160 PSI working pressure, be inspected and stamped by an authorized inspector, be National Board registered and shall also have Section IV HLW stamp affixed to the vessel. The complete unit shall be approved and labeled by Underwriters Laboratories and in accordance with local and state codes. The pressure vessel shall have a cold inlet _____ NPT and hot outlet _____ NPT, control thermostat with well. Pressure and temperature gauge manifold of brass construction, auto reset and manual reset, hi-limit thermostat with well set at 180°F., low water cut-off, ASME T&P valve set at 150 PSI, 4" x 6" ASME handhole cleanout and a heavy duty steel jacket with industrial finish. The heater shall be insulated with 3" of high density glass fiber insulation. The pressure vessel shall have SA178A ASME firetubes covered with a minimum 40/1000th of an inch, seamless copper tubing mechanically bonded to the exterior of each firetube. The top and bottom tube sheets shall have at least 15 mils of copper bonded to the water side. All other surfaces shall be protected with a high temperature lining for potable water and _____ magnesium anode rods. The entire installation shall be made in compliance with state and local codes and ordinances.

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

OPTIONAL EQUIPMENT :

- Side vent connection.
- Outside air damper control.
- Temperature gauge with well.
- Pressure gauge.
- Low water pressure safety interlock.
- High water pressure safety interlock.
- Flue gas temperature module
- Modified water fitting locations.
- Certified equipment to meet special insurance or government regulatory requirements.
- Special Manifolds.
- High gas pressure regulators for 1 PSI gas pressure and above.
- High and low gas pressure switches below 2500 MBH.
- Bolted pressure vessel to base.
- Multiple ASME hand holes and covers.
- Thermal expansion protection valve.
- 7 light alarm system with bell and silencing switch.
- Remote visual status indication.
- Mixing valves and temperature controls.
- Stainless steel vessel construction for use with de-ionized water, per section IV of ASME code, part HLW
- LO-HI-LO firing.
- Modulating firing with proven low fire start.
- Draft regulator.
- Sway brace connections.
- Combustion air intake assembly.
- AGA relief valves.

POWER BURNER SERIES MODEL NUMBER DESIGNATION:

RXXX-YYYY-5(N)As First set of #'s (XXX) = Gallon Capacity of Tank
 Second set of #'s (YYYY) – BTU Input Identifier in 1,000's
 5 = Tank Warranty in Years (N) = Gas Type; N = Natural
 A = ASME Construction

BTU Identifier In Model #	Range (1,000's)
300	300
399	301 to 399
540	300 to 540
700	300 to 700
1075	650 to 1075
1260	650 to 1260
1600	750 to 1600
2200	750 to 2200
2500	750 to 2500
3080	750 to 3080
3650	900 to 3650

RECOVERY CHART

BTU Identifier (x1000)	GPH Rec. @ 80°F	GPH Rec. @ 100°F	GPH Rec. @ 140°F
300	375	300	214
399	498	398	284
540	671	537	384
700	871	697	498
1075	1338	1071	765
1260	1569	1255	896
1600	1992	1594	1138
2200	2750	2192	1569
2500	3113	2490	1779
3080	3836	3068	2192
3650	4546	3636	2597

The Power Burner Commercial Gas Water Heaters may be ordered for the specified BTU range.

Example: A model R180-1260-5NA can be ordered with a BTU Input specified at anywhere from 600,000 BTU's to 1,260,000 BTU's. This enables us to offer a wide range of product that can meet any specification.

BURNER INFORMATION

BTU Identifier	Gas Conn.	Manifold Pressure†	Volts-Phs.	HP	Amps
		Nat.			
300	1"	3.75	120-1	1/4	8.6
399	1"	3.4	120-1	1/4	8.6
540	1"	3.4	120-1	1/4	8.6
700	1"	3.4	120-1	1/4	8.6
1075	1"	3.7	120-1	1/4	8.6
1260	1¼"	3.8	120-1	1/3	9.9
1600	1½"	3.3	120-1	1/3	9.9
2200	1½"	3.7	120-1	1/3	9.9
2500	2"	3.8	240-1	1	16
3080	2"	5.0	240-1	1	16
3650	2"	3.7	240-3	1½	6.8

†At orifice tee. These are approximate pressures.



Ambler, PA

For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 • Fax 215-641-1670 / Technical Support 800-334-3393 • Fax 269-795-1089

Warranty 800-531-2111 • Fax 269-795-1089 / International: Telephone 215-641-9400 • Telefax 215-641-9750 / Fax on Demand 888-538-7833 / www.bradfordwhite.com

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