

Bryan Electric

Indirect Water Heaters

98,300 to 1,081,100 BTUH
30 to 330 KW



Model BE-210-WT4T7

Note these features:

Long life indirect heat exchanger and Incoloy sheathed electric heating elements

All brass and copper finned-tube, high-efficiency heat exchanger transfers heat from hot heater water to service water flowing through exchanger. This results in both long electric heating element and long heat exchanger life with trouble-free operation. Special Incoloy alloy also substantially contributes to electric element life as compared to copper sheathing used in conventional electric heaters.

Economical scale-free boiler operation

Scale-free operation means higher continuous heat transfer efficiencies and reduction of maintenance costs. Conventional electric heaters generally require periodic shut-down for descaling of elements. Bryan's indirect closed system heating means little or no scale build-up.

Corrosion-resistant operation

Corrosive and scale forming service water does not come into direct contact with steel heater parts and electric heating elements. Service water being heated circulates only through the copper indirect heat exchanger within a temperature range that eliminates or minimizes chemical

reactions such as oxidation or precipitation, the principal causes of corrosion and scale formation.

Condensation free

The Bryan indirect heater operates at water temperatures that eliminate problems caused by moisture from surrounding air condensing as water, contributing to rusting and wet floors.

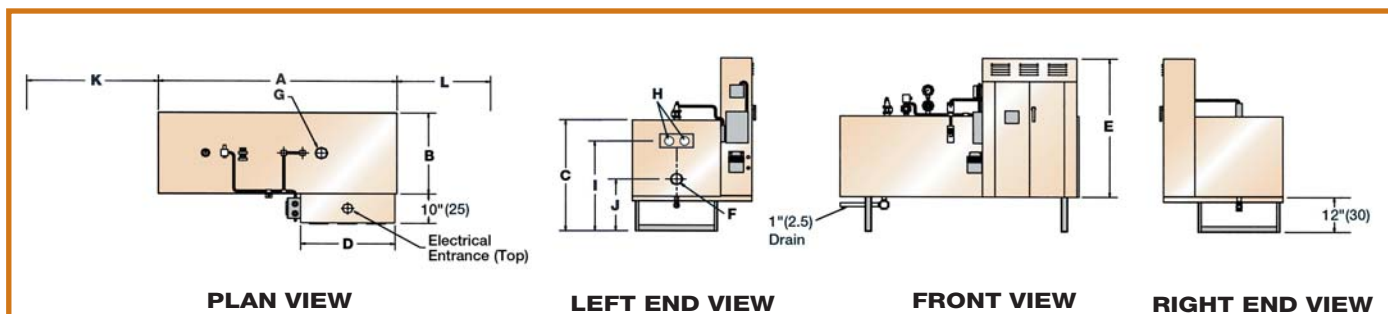
Quality construction

Structural framework supports primary hot water vessel and power panel cabinet. Vessel and frame protected by a heavy 16 gauge steel, zinc-coated jacket attractively finished with two coats of enamel.

Applications

Versatile for all typical commercial and industrial applications, such as schools, apartments, hotels and motels, laundries, restaurants, hospitals, factories, etc. The heater may be used in conjunction with a storage tank (the tank and accessories may be supplied by Bryan as a packaged "Water-Pak") or if the application permits, may be applied as a "tankless" installation. Available alternative to fossil fuel units when strict emission requirements must be met.

Bryan Electric Indirect Water Heaters



BRYAN ELECTRIC INDIRECT WATER HEATER RATINGS AND DIMENSIONS — in (cm)

Model Weight	Input KW	Output MBH	Recovery Capacity (GPH)	Boiler Dimensions			Power Panel Dimensions				Boiler Inlet & Outlet	Coil Inlet & Outlet	Outlet	I	Heat Exchanger Removal	Element Removal Clearance	Shipping Clearance
				length	width	height	208-230/3/60		380								
			40°-140°F	A	B	C	D	E	D	E	F & G	H			K	L	lbs. (kg)
BE-30-WT	30	98.3	117	48 (122)	20 (51)	32 (81)	30 (76)	36 (91)	20 (51)	24 (61)	2 (5)	1-1/2 (3.8)	26 (66)	17 (43)	26 (66)	30 (77)	840 (373)
BE-45-WT	45	147.4	176	48 (122)	20 (51)	32 (81)	30 (76)	36 (91)	20 (51)	24 (61)	2 (5)	2 (5.08)	26 (66)	17 (43)	26 (66)	30 (77)	870 (387)
BE-60-WT	60	196.6	235	48 (122)	20 (51)	32 (81)	30 (76)	36 (91)	20 (51)	24 (61)	2 (5)	2 (5.08)	26 (66)	17 (43)	26 (66)	30 (77)	900 (400)
BE-90-WT	90	294.8	354	48 (122)	25 (71)	40 (102)	30 (76)	36 (91)	20 (51)	30 (73)	3 (8)	2 (5.08)	32 (79)	20 (51)	26 (66)	30 (77)	1070 (476)
BE-105-WT	105	344.0	413	48 (122)	28 (71)	40 (102)	30 (76)	48 (122)	20 (51)	30 (76)	3 (8)	2 (5.08)	32 (79)	20 (51)	26 (66)	30 (77)	1115 (496)
BE-120-WT	120	393.1	472	48 (122)	28 (71)	40 (102)	30 (76)	48 (122)	20 (51)	30 (76)	3 (8)	2 (5.08)	32 (79)	20 (51)	26 (66)	30 (77)	1170 (521)
BE-135-WT	135	441.0	531	48 (122)	28 (71)	40 (102)	30 (76)	66 (168)	30 (76)	36 (91)	3 (8)	2-1/2 (6.35)	32 (79)	20 (51)	26 (66)	30 (77)	1370 (610)
BE-150-WT	150	491.4	590	48 (122)	28 (71)	40 (102)	30 (76)	66 (168)	30 (76)	36 (91)	3 (8)	2-1/2 (6.35)	32 (79)	20 (51)	26 (66)	30 (77)	1390 (618)
BE-165-WT	165	539.1	649	48 (122)	28 (71)	40 (102)	30 (76)	66 (168)	30 (76)	36 (91)	3 (8)	2-1/2 (6.35)	32 (79)	20 (51)	56 (142)	30 (77)	1420 (632)
BE-180-WT	180	589.7	708	48 (122)	28 (71)	40 (102)	30 (76)	66 (168)	30 (76)	36 (91)	3 (8)	2-1/2 (6.35)	32 (79)	20 (51)	56 (142)	30 (77)	1470 (654)
BE-195-WT	195	637.2	767	48 (122)	28 (71)	40 (102)	30 (76)	66 (168)	30 (76)	48 (122)	3 (8)	2-1/2 (6.35)	32 (79)	20 (51)	56 (142)	30 (77)	1800 (801)
BE-210-WT	210	688.0	826	76 (193)	28 (71)	40 (102)	N/A	N/A	30 (76)	48 (122)	3 (8)	2-1/2 (6.35)	32 (79)	20 (51)	56 (142)	55 (140)	2600 (1157)
BE-240-WT	240	789.5	948	76 (193)	28 (71)	40 (102)	N/A	N/A	30 (76)	48 (122)	3 (8)	2-1/2 (6.35)	32 (79)	20 (51)	56 (142)	55 (140)	2650 (1180)
BE-270-WT	270	884.5	1,062	76 (193)	28 (71)	40 (102)	N/A	N/A	30 (76)	66 (168)	3 (8)	2-1/2 (6.35)	32 (79)	20 (51)	56 (142)	55 (140)	2700 (1202)
BE-300-WT	300	982.0	1,180	76 (193)	28 (71)	40 (102)	N/A	N/A	30 (76)	66 (168)	3 (8)	2-1/2 (6.35)	32 (79)	20 (51)	56 (142)	55 (140)	2750 (1224)
BE-330-WT	330	1,081.1	1,298	76	28	40	N/A	N/A	30	66	3	2-1/2	32	20	56	55	2800

Specifications subject to change without notice. Consult factory to consult on other boiler options.

Size range: 30-330 KW (98,300 to 1,081,100 BTUH) with the following voltage options:

30 KW to 120 KW — 240 volt/1 phase; 30 KW to 180 KW — 208 or 240 volts/3 phase; 30 KW to 330 — 460 or 480 volts/3 phase.

Equipment furnished: Combination boiler thermometer and pressure gauge, low water cutoff, operating temperature control, high limit temperature control, indirect heat exchanger, automatic boiler fill valve, boiler relief valve, boiler drain cock, magnetic contactors, pilot switch, power panel, insulated jacket and expansion tank. All equipment installed and wired. Expansion tank (shipped loose). A fused disconnect switch to be furnished by installer.

When ordering: Please specify model, KW, type of system (tank or tankless). Initial and final temperature water required, water flow rate (gal./hr. or gal./min.), electrical characteristics (volts, phase, cycles), optional equipment or special requirements. Refer to BE Series brochure No. 3600 for further information.



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