

“BROWN” ‘SILENT’ WATER HEATER STEAM OPERATED

A simple, robust, long lasting unit which allows the rapid heating of water in open tanks by steam, without the noise which is prevalent when steam is ejected direct into cold water.

The steam is directed through the body of the water and there is little loss through condensation of the steam.

The “Brown” ‘Silent” Water Heaters have no couplings or parts to come loose. They are particularly free of maintenance and are of one piece construction in Bronze or Stainless Steel.



USES:

For open tank heating of water by steam in Creameries, Dairies, Chemical Plants, Breweries and general process operations.

INSTALLATION:

Steam supply pipe must be at least as large as heater steam inlet. A 10" or 12" length of pipe must be screwed into the discharge end (large end) of the heater. The heater must be well submerged below the level of the liquid being heated and the discharge nipple pointer to the remote part of the tank to permit thorough mixing before the liquid is returned for circulation.

Heater	Steam Pipe		Discharge Pipe	
	BSP	Mm	BSP	mm
H	1/2"	15	3/4"	20
J	3/4"	20	1"	25
K	1"	25	1 1/4"	32
L	1 1/4"	32	1 1/2"	40
M	1 1/2"	40	2"	50
N	2"	50	2 1/2"	65

Capacities in Gallons per Hour.

Size No.	Heater Size	Temp. Rise Degree F.	Steam Pressure at Heater Nozzle						
			20	40	60	80	100	120	140
			Approx. Capacity in G.P.H. Using Dry Steam and Full Rated Pressure at Nozzle						
H	1/2"	10	1344	2112	2816	3584	4288	4992	5760
		20	672	1051	1408	1792	2144	2496	2880
		40	336	525	704	896	1072	1248	1440
		80	168	262	352	448	536	624	720
		120	112	175	234	298	357	416	480
J	3/4"	10	1664	2624	3520	4480	5376	6208	7232
		20	832	1312	1760	2240	2688	3104	3616
		40	416	656	830	1120	1344	1552	1808
		80	208	328	415	560	672	776	1404
		120	138	218	276	373	448	517	602
K	1"	10	2176	3392	4544	5760	6912	8064	9280
		20	1088	1696	2272	2880	3456	4032	4640
		40	544	848	1136	1440	1728	2016	2320
		80	272	424	568	720	864	1008	1160
		120	181	282	378	480	576	672	773
L	1 1/4"	10	2752	4288	5824	7360	8832	10112	11840
		20	1376	2144	2912	3630	4416	5056	5920
		40	688	1072	1456	1815	2208	2528	2960
		80	344	536	728	907	1104	1264	1480
		120	239	357	485	605	736	876	986
M	1 1/2"	10	3392	5312	7232	9088	10944	12608	14592
		20	1696	2656	3616	4544	5472	6304	7296
		40	848	1328	1808	2272	2736	3152	3648
		80	424	614	1404	1136	1363	1576	1824
		120	282	442	602	757	912	1050	1216
N	2"	10	5440	8512	11520	14528	17472	19224	23360
		20	2720	4756	5760	7264	8736	9612	11680
		40	1360	2378	2880	3632	4368	4806	5840
		80	680	1189	1440	1816	2184	2403	2920
		120	453	792	960	1210	1456	1602	1946

Steam Consumption (in pounds per minute):

Size No.	Steam Pressure at the Heater						
	20	40	60	80	100	120	140
	Steam Consumption in lbs. per min. using Dry Steam						
H	2.1	3.3	4.4	5.6	8.4	7.8	9.0
J	2.6	4.1	5.5	7.0	8.4	9.7	11.3
K	3.4	5.3	7.1	9.0	10.8	12.6	14.5
L	4.3	6.7	9.1	11.5	13.8	15.3	18.5
M	5.3	8.3	11.3	14.2	17.1	19.7	22.8
N	8.5	13.3	18.0	22.7	27.3	31.6	36.5