

PARKER DIRECT FIRED HOT WATER BOILERS
PRESSURE DROP & FLOW RATE CHART FOR WATER

MODEL	BTU OUTPUT	APPROXIMATE GPM AT VARYING TEMPERATURE RISE THRU BOILER (AT FLOW RATES WITH LESS THAN 1 PSI PRESSURE DROP)				APPOX. FLOW RATE, GPM AT 1 PSI DROP Cv
		20°F Recommended Flow Rate	30°F Recommended Flow Rate	40°F Recommended Flow Rate	60°F Min. Flow Rate Not Recommended	
T-160	128 M	12	8	6	4	30
T-220	176 M	17	11	8	6	30
T-300	240 M	24	16	12	8	40
T-395	316 M	31	21	16	11	80
*-432	346 M	35	23	17	12	80
T-490	392 M	39	26	20	13	80
*-528	422 M	42	28	21	14	80
T-600	480 M	48	32	24	16	80
*-672	538 M	54	36	27	18	80
T-760	608 M	61	40	30	20	80
*-864	691 M	69	46	35	23	150
T-970	776 M	78	51	39	26	150
*-1008	806 M	81	54	40	27	135
T-1140	912 M	91	60	46	30	135
*-1296	1037 M	104	69	52	35	170
T-1460	1168 M	117	77	58	39	170
*-1536	1229 M	123	82	61	41	300
T-1730	1384 M	138	92	69	46	300
*-1920	1536 M	154	102	77	51	300
T-1995	1596 M	159	106	79	53	300
T-2160	1728 M	173	115	86	58	300
*-2304	1843 M	184	123	92	61	300
T-2600	2080 M	208	138	104	69	300
*-2640	2112 M	211	141	106	70	300
T-2970	2376 M	238	158	119	79	300
*-3120	2496 M	250	166	125	83	450
*-3456	2765 M	277	184	138	92	450
T-3600	2880 M	288	192	144	96	450
T-3900	3120 M	312	208	156	104	450
*-4032	3226 M	323	215	161	108	450
T-4600	3680 M	368	245	184	123	450
*-5000	4000 M	400	267	200	133	750
T-5700	4560 M	456	304	228	152	750
*-6250	5000 M	500	333	250	167	750
T-6800	5440 M	544	362	272	181	750

*Denotes that these Hot Water Boilers are Power Gas, Light Oil or Combination Fired.

Recommended flow range thru boiler = 20° - 40°F temperature rise

$$\text{FLOW RATE (GPM)} = \frac{\text{BTUH OUTPUT}}{8.33 \text{ LBS/GAL} \times 60 \text{ MIN/HR} \times \Delta T \text{ } ^\circ\text{F}}$$

- NOTE:**
1. Consult factory for pressure drop thru special models without downcomers.
 2. Consult factory for proper flow rate and pressure drop thru boiler for Glycol based fluids.
 3. System pump should run at all times boiler is energized. When heat is no longer required, electrical power to boiler should be disconnected and pump should run for 5 - 15 minutes before being turned off.

**PARKER DIRECT-FIRED "R" & "LR" HOT WATER BOILERS
PRESSURE DROP & FLOW RATE CHART**

"R" or "LR" Model	BTU Output @ 84% Efficiency	Approximate GPM and Pressure Drop at Varying Temperature Rise Through Boiler												Approx. Flow Rate, GPM @ 1 PSI Drop/Cv		
		Δ15°F			Δ20°F			Δ30°F			Δ40°F				Δ60°F Min. Flow	
		GPM	Ft/head	GPM	Ft/head	GPM	Ft/head	GPM	Ft/head	GPM	Ft/head	GPM	Ft/head		GPM	Ft/head
T-160R	134M	18	6	13	3	9	1	7	1	4	1	11	1	4	1	11
T-220R	184M	25	11	18	6	12	3	9	2	6	1	11	1	6	1	11
T-300R	252M	34	11	25	6	17	3	13	2	8	1	15	1	8	1	15
T-395R	332M	44	11	33	6	22	3	17	2	11	1	20	1	11	1	20
T-490R	411M	55	11	41	6	27	3	21	2	14	1	25	1	14	1	25
T-600R	504M	67	17	50	9	34	4	25	2	17	1	25	1	17	1	25
T-760R	638M	85	19	62	10	42	5	32	3	21	1	30	1	21	1	30
T-970R	815M	109	15	82	9	54	4	41	2	27	1	42	1	27	1	42
T-1140R	958M	128	21	96	12	64	5	48	2	32	1	42	1	32	1	42
T-1460R	1226M	164	13	123	7	82	3	61	2	41	1	70	1	41	1	70
T-1730R	1453M	194	10	145	6	97	3	73	2	48	1	95	1	48	1	95
T-1995R	1675M	224	10	168	6	112	3	84	2	56	1	105	1	56	1	105
T-2160R	1814M	242	10	182	6	121	3	91	2	61	1	114	1	61	1	114
T-2600R	2184M	291	12	218	7	146	3	109	2	73	1	130	1	73	1	130
T-2970R	2494M	333	15	250	9	166	4	125	2	83	1	130	1	83	1	130
T-3600R	3024M	403	17	303	9	202	4	151	2	101	1	150	1	101	1	150
T-3900R	3276M	437	15	328	9	218	4	164	2	109	1	170	1	109	1	170
T-4600R	3864M	515	21	387	12	258	5	193	3	129	1	170	1	129	1	170
T-5700R	4708M	639	18	479	10	319	4	239	3	160	1	230	1	160	1	230
T-6800R	5292M	705	22	529	12	352	5	264	3	176	1	230	1	176	1	230

Recommended flow range through boiler = 20-40°F temperature rise

$$\text{FLOW RATE (GPM)} =$$

$$\frac{\text{BTUH Output}}{8.33\text{-lbs/Gal.} \times 60\text{-min/hr.} \times \Delta T \text{ } ^\circ\text{F}}$$

NOTES:

- 1 Consult factory for pressure drop through special models without downcomers.
- 2 Consult factory for proper flow rate and pressure drop through boiler for Glycol-based fluids.
- 3 System pump should run the entire time boiler is being energized. When heat is no longer required, electrical power to boiler should be disconnected and pump should run for 5-15-minutes before being turned off.