

Mfr's minimum recommendations

Below minimum recommendation

Exceeds diameter of supply tapping

XXX not enough supply tapplings for this number of risers

Enter pressure (psig)

to calculate at here→ 0

Enter Specific Volume in

cubic feet (ft<sup>3</sup>) here→ 26.8

					Riser Diameter And Count						Header Diameter						
					2"	2-1/2"	2"	3"	2-1/2"	3"	2"	2-1/2"	3"	4"	5"	6"	
					Internal area	3.36	4.78	3.36	7.39	4.78	7.39	3.36	4.78	7.39	12.73	19.99	28.89
					number of Risers	1	1	2	1	2	2						
					Steam Velocity in Risers (in ft/sec)						Steam Velocity in Header (in ft/sec)						
Make	Model	Fuel	Model #	Boiler output (lbs/hr)													
Burnham	MegaSteam	Oil	MST288	96	30.6	21.5	15.3	13.9	10.8	7.0	30.6	21.5	13.9	8.1	5.1	3.6	
Burnham	MegaSteam	Oil	MST396	132	42.1	29.6	21.1	19.1	14.8	9.6	42.1	29.6	19.1	11.1	7.1	4.9	
Burnham	MegaSteam	Oil	MST513	171	54.6	38.3	27.3	24.8	19.2	12.4	54.6	38.3	24.8	14.4	9.2	6.3	
Burnham	MegaSteam	Oil	MST629	209	66.7	46.9	33.3	30.3	23.4	15.2	66.7	46.9	30.3	17.6	11.2	7.8	
Burnham	V8H	Oil	V8H3S	95	30.3	21.3	15.2	13.8	10.7	6.9	30.3	21.3	13.8	8.0	5.1	3.5	
Burnham	V8H	Oil	V8H4S	132	42.1	29.6	21.1	19.1	14.8	9.6	42.1	29.6	19.1	11.1	7.1	4.9	
Burnham	V8H	Oil	V8H5S	171	54.6	38.3	27.3	24.8	19.2	12.4	54.6	38.3	24.8	14.4	9.2	6.3	
Burnham	V8H	Oil	V8H6S	209	66.7	46.9	33.3	30.3	23.4	15.2	66.7	46.9	30.3	17.6	11.2	7.8	
Burnham	V8H	Oil	V8H7S	263	83.9	59.0	42.0	38.2	29.5	19.1	83.9	59.0	38.2	22.1	14.1	9.8	
Burnham	V8H	Oil	V8H8S	277	88.4	62.1	44.2	40.2	31.1	20.1	88.4	62.1	40.2	23.3	14.9	10.3	
Burnham	V8H	Oil	V8H9S	310	98.9	69.5	49.5	45.0	34.8	22.5	98.9	69.5	45.0	26.1	16.6	11.5	

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					Riser Diameter And Count						Header Diameter						
					2"	2-1/2"	2"	3"	2-1/2"	3"	2"	2-1/2"	3"	4"	5"	6"	
					Internal area	3.36	4.78	3.36	7.39	4.78	7.39	3.36	4.78	7.39	12.73	19.99	28.89
					number of Risers	1	1	2	1	2	2						
					Steam Velocity in Risers (in ft/sec)						Steam Velocity in Header (in ft/sec)						
Make	Model	Fuel	Model #	Boiler output (lbs/hr)													
Crown	Freeport 2	Oil	FSZ080	101	32.2	22.7	16.1	14.7	11.3	7.3	32.2	22.7	14.7	8.5	5.4	3.7	
Crown	Freeport 2	Oil	FSZ100	127	40.5	28.5	20.3	18.4	14.2	9.2	40.5	28.5	18.4	10.7	6.8	4.7	
Crown	Freeport 2	Oil	FSZ130	165	52.6	37.0	26.3	23.9	18.5	12.0	52.6	37.0	23.9	13.9	8.8	6.1	
Crown	Freeport 2	Oil	FSZ160	203	64.8	45.5	32.4	29.4	22.8	14.7	64.8	45.5	29.4	17.1	10.9	7.5	
Crown	Kingston	Oil	KSZ065 <sup>(3)</sup>	82	26.2	18.4	XXX	11.9	XXX	XXX	26.2	18.4	11.9	6.9	4.4	3.0	
Crown	Kingston	Oil	KSZ075 <sup>(3)</sup>	94	30.0	21.1	XXX	13.6	XXX	XXX	30.0	21.1	13.6	7.9	5.0	3.5	
Crown	Kingston	Oil	KSZ100 <sup>(3)</sup>	124	39.6	27.8	XXX	18.0	XXX	XXX	39.6	27.8	18.0	10.4	6.6	4.6	
Crown	Kingston	Oil	KSZ090 <sup>(4)</sup>	115	36.7	25.8	XXX	16.7	XXX	XXX	36.7	25.8	16.7	9.7	6.2	4.3	
Crown	Kingston	Oil	KSZ125 <sup>(4)</sup>	155	49.5	34.8	XXX	22.5	XXX	XXX	49.5	34.8	22.5	13.1	8.3	5.8	
Crown	Kingston	Oil	KSZ150 <sup>(4)</sup>	184	58.7	41.3	XXX	26.7	XXX	XXX	58.7	41.3	26.7	15.5	9.9	6.8	
Crown	Kingston	Oil	KSZ120 <sup>(5)</sup>	153	48.8	34.3	XXX	22.2	XXX	XXX	48.8	34.3	22.2	12.9	8.2	5.7	
Crown	Kingston	Oil	KSZ175 <sup>(5)</sup>	216	68.9	48.4	XXX	31.3	XXX	XXX	68.9	48.4	31.3	18.2	11.6	8.0	
Crown	Kingston	Oil	KSZ200 <sup>(5)</sup>	245	78.2	54.9	XXX	35.5	XXX	XXX	78.2	54.9	35.5	20.6	13.1	9.1	
					three section <sup>(3)</sup>		four section <sup>(4)</sup>		five section <sup>(5)</sup>								
New Yorker	CL Steam Series	Oil	CL3-091	81	25.8	18.2	XXX	11.7	XXX	XXX	25.8	18.2	11.7	6.8	4.3	3.0	
New Yorker	CL Steam Series	Oil	CL3-105	94	30.0	21.1	XXX	13.6	XXX	XXX	30.0	21.1	13.6	7.9	5.0	3.5	
New Yorker	CL Steam Series	Oil	CL3-140	124	39.6	27.8	XXX	18.0	XXX	XXX	39.6	27.8	18.0	10.4	6.6	4.6	
New Yorker	CL Steam Series	Oil	CL4-126	113	36.1	25.3	XXX	16.4	XXX	XXX	36.1	25.3	16.4	9.5	6.1	4.2	
New Yorker	CL Steam Series	Oil	CL4-175	155	49.5	34.8	XXX	22.5	XXX	XXX	49.5	34.8	22.5	13.1	8.3	5.8	
New Yorker	CL Steam Series	Oil	CL4-210	184	58.7	41.3	XXX	26.7	XXX	XXX	58.7	41.3	26.7	15.5	9.9	6.8	
New Yorker	CL Steam Series	Oil	CL5-168	150	47.9	33.6	XXX	21.8	XXX	XXX	47.9	33.6	21.8	12.6	8.0	5.6	
New Yorker	CL Steam Series	Oil	CL5-245	216	68.9	48.4	XXX	31.3	XXX	XXX	68.9	48.4	31.3	18.2	11.6	8.0	
New Yorker	CL Steam Series	Oil	CL5-280	245	78.2	54.9	XXX	35.5	XXX	XXX	78.2	54.9	35.5	20.6	13.1	9.1	