

Boiler Horsepower, Heat Transfer Surface Area, Heat Exchanger Volume and Heat Exchanger Water Content

XVers

Type Efficiency	Model No.	Output		Heat Transfer Surface Area (sq. ft.)	Heat Transfer Surface Area to HP Ratio	Water Content (Gallons)
		MBTUH	HP			
Heating Boilers (Type H) 96.2% Efficiency	856	822.5	24.57	95.7	3.89	77
	1006	961	28.71	95.7	3.33	77
	1256	1202.5	35.92	142.4	3.96	105
	1506	1443	43.11	142.4	3.30	105
	1756	1683.5	50.29	181.5	3.61	117
	2006	1923	57.45	181.5	3.16	117
	2506	2404	71.81	249.6	3.47	149
95.5% Efficiency	3006	2864	85.56	249.6	2.92	149

XFyre

Type Efficiency	Model No.	Output		Primary Heat Transfer Surface Area (sq. ft.)	Heat Transfer Surface Area to HP Ratio	Water Content (Gallons)
		MBTUH	HP			
Heating Boilers (Type H) 94% Efficiency	300A	282	8.42	32.7	3.88	2.9
	400A	375	11.20	41.8	3.73	3.6
	500A	470	14.04	50.8	3.62	4.2
	700A	658	19.66	58.1	2.96	5.0
	850A	799	23.87	65.3	2.74	5.8
DHW Heaters (Type WH) 95% Efficiency	300A	282	8.42	32.7	3.88	2.9
	400A	375	11.20	41.8	3.73	3.6
	500A	470	14.04	50.8	3.62	4.2
	700A	658	19.66	58.1	2.96	5.0
	850A	799	23.87	65.3	2.74	5.8

XTherm

Type Efficiency	Model No.	Output		Primary Heat Transfer Surface Area (sq. ft.)	Heat Transfer Surface Area to HP Ratio	Water Content (Gallons)
		MBTUH	HP			
Heating Boilers (Type H) 96% Efficiency	1005A	959	28.65	94	3.28	11.8
	1505A	1440	43.02	140	3.25	12.4
	2005A	1919	57.33	187	3.26	15.6
	2505	2401	71.73	305	4.29	25.0
	3005	2880	86.03	352	4.13	26.0
	3505	3360	100.37	399	4.01	26.9
	4005	3840	114.71	446	3.92	33.8
DHW and Pool (Type WH & P) 97% Efficiency	1005A	969	28.95	94	3.25	11.8
	1505A	1455	43.47	140	3.22	12.4
	2005A	1939	57.92	187	3.23	15.6
	2505	2426	72.47	305	4.29	25.0
	3005	2910	86.93	352	4.13	26.0
	3505	3395	101.42	399	4.01	26.9
	4005	3880	115.91	446	3.92	33.8

MVB

Type Efficiency	Model No.	Output		Heat Transfer Surface Area (sq. ft.)	Heat Transfer Surface Area to HP Ratio	Water Content (Gallons)
		MBTUH	HP			
Heating Boilers (Type H) 86.2% Efficiency	503A	431	12.88	47	3.65	2.4
	753A	647	19.33	70	3.63	2.7
	1003A	861	25.72	94	3.65	3.0
	1253A	1078	32.20	117	3.64	3.3
	1503A	1293	38.63	140	3.62	3.6
	1753A	1508	45.05	164	3.64	3.9
	2003A	1723	51.47	187	3.63	4.2
Heating Boilers (Type H) 84% Efficiency	504A	420	12.55	47	3.75	2.4
	754A	630	18.82	70	3.72	2.7
	1104A	924	27.60	94	3.41	3.0
	1504A	1260	37.64	117	3.11	3.3
	2004A	1679	50.16	164	3.27	3.9
Heating Boilers (Type H) 85% Efficiency	2503	2126	63.51	305	4.80	10.9
	3003	2550	76.18	352	4.62	11.6
	3503	2975	88.87	399	4.49	12.2
	4003	3400	101.57	446	4.39	12.8
DHW Heaters (Type WH) 87% Efficiency	503A	435	12.99	47	3.62	2.4
	753A	653	19.51	70	3.59	2.7
	1003A	869	25.96	94	3.62	3.0
	1253A	1088	32.50	117	3.60	3.3
	1503A	1305	38.98	140	3.59	3.6
	1753A	1523	45.50	164	3.60	3.9
	2003A	1739	51.95	187	3.60	4.2
DHW Heaters (Type WH & P) 83% Efficiency	504A	415	12.40	47	3.79	2.4
	754A	623	18.61	70	3.76	2.7
DHW Heaters (Type WH & P) 83.3% Efficiency	1104A	870	25.99	94	3.62	3.0
	1504A	1187	35.46	117	3.30	3.3
	2004A	1583	47.29	164	3.47	3.9
DHW Heaters (Type WH) 85% Efficiency	2503	2126	63.51	305	4.80	10.9
	3003	2550	76.18	352	4.62	11.6
	3503	2975	88.87	399	4.49	12.2
	4003	3400	101.57	446	4.39	12.8

Hi Delta

Type Efficiency	Model No.	Output		Heat Transfer Surface Area (sq. ft.)	Heat Transfer Surface Area to HP Ratio	Water Content (Gallons)
		MBTUH	HP			
Heating Boilers (Type H) 85% Efficiency	HD101	85	2.54	13	5.12	0.15
	HD151	128	3.82	17	4.45	0.19
	HD201	169	5.05	22	4.36	0.23
	HD251	213	6.36	26	4.09	0.27
	HD301	254	7.59	30	3.95	0.31
84% Efficiency	HD401	335	10.01	39	3.90	0.39
Heating Boilers (Type H) 84% Efficiency	302C	252	7.53	40	5.31	1.10
	402C	335	10.01	51	5.10	1.30
	502C	420	12.55	62	4.94	1.40
	652C	546	16.31	79	4.84	1.60
	752C	630	18.82	90	4.78	1.80
	902C	756	22.58	106	4.69	2.00
	992C	832	24.85	109	4.39	2.30
	1262C	1058	31.61	135	4.27	2.60
	1532C	1285	38.39	162	4.22	3.00
	1802C	1512	45.17	188	4.16	3.40
	2002C	1679	50.16	215	4.29	3.70
	2072C	1739	51.95	215	4.14	3.70
2342C	1966	58.73	242	4.12	4.10	
DHW Heaters (Type WH) 85% Efficiency	HD101	85	2.54	13	5.12	0.15
	HD151	128	3.82	17	4.45	0.19
	HD201	169	5.05	22	4.36	0.23
	HD251	213	6.36	26	4.09	0.27
	HD301	254	7.59	30	3.95	0.31
	HD401	339	10.13	39	3.85	0.39
DHW Heaters (Type WH) 83.1% Efficiency	302C	249	7.44	40	5.38	1.10
	402C	332	9.92	51	5.14	1.30
	502C	416	12.43	62	4.99	1.40
	652C	540	16.13	79	4.90	1.60
	752C	623	18.61	90	4.84	1.80
	902C	748	22.35	106	4.74	2.00
	992C	823	24.59	109	4.43	2.30
	1262C	1047	31.28	135	4.32	2.60
	1532C	1271	37.97	162	4.27	3.00
	1802C	1496	44.69	188	4.21	3.40
	2002C	1661	49.62	215	4.33	3.70
	2072C	1720	51.38	215	4.18	3.70
2342C	1945	58.10	242	4.17	4.10	
Pool Heaters (Type P) 83.1% Efficiency	502C	416	12.43	62	4.99	1.40
	652C	540	16.13	79	4.90	1.60
	752C	623	18.61	90	4.84	1.80
	902C	748	22.35	106	4.74	2.00
	992C	823	24.59	109	4.43	2.30
	1262C	1047	31.28	135	4.32	2.60
	1532C	1271	37.97	162	4.27	3.00
	1802C	1496	44.69	188	4.21	3.40
	2002C	1661	49.62	215	4.33	3.70
	2072C	1720	51.38	215	4.18	3.70
2342C	1945	58.10	242	4.17	4.10	

Raytherm

Type Efficiency	Model No.	Output		Heat Transfer Surface Area (sq. ft.)	Heat Transfer Surface Area to HP Ratio	Water Content (Gallons)
		MBTUH	HP			
Heating Boilers (Type H), DHW Heaters (Type WH) 82% Efficiency	181/182	148	4.42	16	3.62	0.5
	260/261	216	6.45	22	3.41	0.5
	330/331	274	8.19	26	3.18	0.6
	400/401	327	9.77	31	3.17	0.7
Heating Boilers (Type H), DHW Heaters (Type WH) and Pool Heaters (Type P) 82% Efficiency	514	419	12.53	43	3.43	1.4
	624	514	15.35	51	3.32	1.4
	724	595	17.77	58	3.26	1.6
	824	677	20.21	66	3.27	1.8
	926	759	22.67	78	3.44	2.0
	962	789	23.56	78	3.31	2.0
	1083	888	26.53	90	3.39	2.3
	1125	922	27.54	90	3.27	2.3
	1178	966	28.86	98	3.40	2.4
	1223	1003	29.95	98	3.27	2.4
	1287	1055	31.52	107	3.40	2.5
	1336	1096	32.74	107	3.27	2.5
	1414	1159	34.61	118	3.41	2.6
	1468	1203	35.94	118	3.28	2.6
	1571	1287	38.45	129	3.36	2.7
	1631	1337	39.93	129	3.23	2.7
	1758	1442	43.06	143	3.32	2.8
1826	1497	44.72	143	3.20	2.8	
2100	1722	51.44	176	3.42	3.8	
2500	2049	61.21	208	3.40	4.2	
H, WH, and P 82% Combustion Efficiency	3001	2460	73.49	247	3.36	4.7
	3500	2870	2.54	287	113.03	5.3
	4001	3280	97.98	326	3.33	5.8

XPak FT

Type Efficiency	Model No.	Heating Capacity		Primary Heat Transfer Surface Area (sq. ft.)	Heat Transfer Surface Area to HP Ratio	Water Content (Gallons)
		MBTUH	HP			
Heating Boilers (Type H) 94.8-96% Efficiency	88AR	85	2.54	7.53	2.97	0.45
	108AR	110	3.29	9.46	2.88	0.61
	198AR	199	5.94	16.34	2.75	1.61
	278AR	275	8.22	22.71	2.77	2.61
	398A	399	11.92	36.56	3.07	3.61

Raypak, Inc. ▪ 2151 Eastman Avenue, Oxnard, CA 93030 ▪ (805) 278-5300 ▪ Fax (800) 872-9725 ▪ www.raypak.com