



OptiTHERM® Performance Tables



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BUILT LIKE A BOCK



OptiTHERM® 99 Gallon Performance Tables

Volume: 99 Gallons — Input: 125,000 BTU/HR

OT125N	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
40° Rise	99	129	159	189	249	339	429	790	1150	6.00	360	16
50° Rise	93	117	141	165	213	285	357	646	934	4.80	288	21
60° Rise	89	109	129	149	189	249	309	549	790	4.00	240	25
70° Rise	86	104	121	138	172	224	275	481	687	3.43	206	29
80° Rise	84	99	114	129	159	204	249	429	610	3.00	180	33
90° Rise	83	96	109	123	149	189	229	389	549	2.67	160	37
100° Rise	81	93	105	117	141	177	213	357	501	2.40	144	41
120° Rise	79	89	99	109	129	159	189	309	429	2.00	120	49
140° Rise	78	86	95	104	121	146	172	275	378	1.71	103	58

Volume: 99 Gallons — Input: 150,000 BTU/HR

OT150N	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
40° Rise	105	141	177	213	285	393	501	934	1,366	7.20	432	14
50° Rise	98	127	156	185	242	329	415	761	1,107	5.76	346	17
60° Rise	93	117	141	165	213	285	357	646	934	4.80	288	21
70° Rise	90	110	131	152	193	255	316	563	810	4.12	247	24
80° Rise	87	105	123	141	177	231	285	501	718	3.60	216	27
90° Rise	85	101	117	133	165	213	261	453	646	3.20	192	31
100° Rise	84	98	113	127	156	199	242	415	588	2.88	173	34
120° Rise	81	93	105	117	141	177	213	357	501	2.40	144	41
140° Rise	80	90	100	110	131	162	193	316	440	2.06	123	48

Volume: 99 Gallons — Input: 199,000 BTU/HR

OT199N	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
40° Rise	117	165	213	260	356	499	643	1,216	1,789	9.56	573	10
50° Rise	108	146	184	222	299	413	528	987	1,445	7.64	459	13
60° Rise	101	133	165	197	260	356	452	834	1,216	6.37	382	16
70° Rise	97	124	151	179	233	315	397	725	1,052	5.46	328	18
80° Rise	93	117	141	165	213	284	356	643	929	4.78	287	21
90° Rise	91	112	133	154	197	260	324	579	834	4.25	255	23
100° Rise	88	108	127	146	184	241	299	528	757	3.82	229	26
120° Rise	85	101	117	133	165	213	260	452	643	3.19	191	31
140° Rise	83	97	110	124	151	192	233	397	561	2.73	164	36

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Volume: 100 Gallons — Input: 199,999 BTU/HR

OT200N-A	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
40° Rise	118	165	213	260	355	498	640	1,210	1,781	9.50	570	11
50° Rise	108	146	184	222	298	412	526	982	1,439	7.60	456	13
60° Rise	102	133	165	197	260	355	450	830	1,210	6.34	380	16
70° Rise	97	124	151	179	233	314	396	722	1,048	5.43	326	18
80° Rise	94	118	141	165	213	284	355	640	925	4.75	285	21
90° Rise	91	112	133	154	197	260	323	577	830	4.22	253	24
100° Rise	89	108	127	146	184	24	298	526	754	3.80	228	26
120° Rise	86	102	118	133	165	213	260	450	640	3.17	190	32
140° Rise	84	97	111	124	151	192	233	396	559	2.72	163	37

Volume: 100 Gallons — Input: 250,000 BTU/HR

OT250N-A	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
40° Rise	129	188	246	305	423	599	775	1,481	2,186	11.75	705	9
50° Rise	117	164	211	258	352	493	634	1,198	1,763	9.40	564	11
60° Rise	109	148	188	227	305	423	540	1,010	1,481	7.84	470	13
70° Rise	104	137	171	204	272	372	473	876	1,279	6.72	403	15
80° Rise	99	129	158	188	246	334	423	775	1,128	5.88	353	17
90° Rise	96	122	148	174	227	305	383	697	1,010	5.22	313	19
100° Rise	94	117	141	164	211	282	352	634	916	4.70	282	21
120° Rise	90	109	129	148	188	246	305	540	775	3.92	235	26
140° Rise	87	104	120	137	171	221	272	473	675	3.36	202	30

Volume: 100 Gallons — Input: 299,999 BTU/HR

OT299N-A	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
40° Rise	140	210	279	349	489	698	907	1,745	2,582	13.96	837	7
50° Rise	126	182	237	293	405	572	740	1,410	2,080	11.16	670	9
60° Rise	117	163	210	256	349	489	628	1,186	1,745	9.30	558	11
70° Rise	110	150	190	229	309	429	548	1,027	1,505	7.97	478	13
80° Rise	105	140	175	210	279	384	489	907	1,326	6.98	419	14
90° Rise	101	132	163	194	256	349	442	814	1,186	6.20	372	16
100° Rise	98	126	154	182	237	321	405	740	1,075	5.58	335	18
120° Rise	93	117	140	163	210	279	349	628	907	4.65	279	21
140° Rise	90	110	130	150	190	249	309	548	788	3.99	239	25

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OptiTHERM® 125 Gallon Performance Tables

Volume: 125 Gallons — Input: 300,000 BTU/HR

OT300*2-A	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
40° Rise	162	236	310	385	533	756	979	1,870	2,762	14.86	891	8
50° Rise	147	206	266	325	444	622	801	1,514	2,227	11.88	713	11
60° Rise	137	187	236	286	385	533	682	1,276	1,870	9.90	594	13
70° Rise	130	172	215	257	342	470	597	1,106	1,616	8.49	509	15
80° Rise	125	162	199	236	310	422	533	979	1,425	7.43	446	17
90° Rise	121	154	187	220	286	385	484	880	1,276	6.60	396	19
100° Rise	117	147	177	206	266	355	444	801	1,157	5.94	357	21
120° Rise	112	137	162	187	236	310	385	682	979	4.95	297	25
140° Rise	109	130	151	172	215	279	342	597	852	4.24	255	29

Volume: 125 Gallons — Input: 399,999 BTU/HR

OT400*2-A	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
40° Rise	185	282	379	476	670	961	1,252	2,416	3,581	19.41	1164	6
50° Rise	165	243	320	398	553	786	1,019	1,951	2,882	15.53	932	8
60° Rise	152	217	282	346	476	670	864	1,640	2,416	12.94	776	10
70° Rise	143	198	254	309	420	587	753	1,418	2,084	11.09	665	11
80° Rise	136	185	233	282	379	524	670	1,252	1,834	9.70	582	13
90° Rise	131	174	217	260	346	476	605	1,123	1,640	8.63	518	14
100° Rise	126	165	204	243	320	437	553	1,019	1,485	7.76	466	16
120° Rise	120	152	185	217	282	379	476	864	1,252	6.47	388	19
140° Rise	115	143	171	198	254	337	420	753	1,086	5.55	333	23

Volume: 125 Gallons — Input: 500,000 BTU/HR

OT500*2-A	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
40° Rise	208	328	448	568	808	1,168	1,528	2,969	4,409	24.01	1441	5
50° Rise	184	280	376	472	664	952	1,240	2,392	3,545	19.21	1152	7
60° Rise	168	248	328	408	568	808	1,048	2,008	2,969	16.01	960	8
70° Rise	156	225	293	362	499	705	911	1,734	2,557	13.72	823	9
80° Rise	148	208	268	328	448	628	808	1,528	2,248	12.00	720	10
90° Rise	141	194	248	301	408	568	728	1,368	2,008	10.67	640	12
100° Rise	136	184	232	280	376	520	664	1,240	1,816	9.60	576	13
120° Rise	128	168	208	248	328	448	568	1,048	1,528	8.00	480	16
140° Rise	122	156	190	225	293	396	499	911	1,322	6.86	412	18





OptiTHERM® 130 Gallon Performance Tables

Volume: 130 Gallons — Input: 600,000 BTU/HR

OT600-A	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
20° Rise	385	679	973	1,267	1,856	2,738	3,620	7,150	10,679	59	3529	2
30° Rise	287	483	679	875	1,267	1,856	2,444	4,797	7,150	39	2353	3
40° Rise	238	385	532	679	973	1,415	1,856	3,620	5,385	29	1765	4
50° Rise	209	326	444	562	797	1,150	1,503	2,915	4,326	24	1412	6
60° Rise	189	287	385	483	679	973	1,267	2,444	3,620	20	1176	7
70° Rise	175	259	343	427	595	847	1,099	2,108	3,116	17	1008	8
80° Rise	165	238	312	385	532	753	973	1,856	2,738	15	882	9
90° Rise	156	222	287	352	483	679	875	1,660	2,444	13	784	10
100° Rise	150	209	267	326	444	620	797	1,503	2,209	12	706	11
120° Rise	140	189	238	287	385	532	679	1,267	1,856	10	588	13
140° Rise	133	175	217	259	343	469	595	1,099	1,604	8	504	15

Volume: 130 Gallons — Input: 700,000 BTU/HR

OT700-A	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
20° Rise	434	777	1,120	1,464	2,150	3,179	4,209	8,326	12,444	69	4118	2
30° Rise	317	544	770	997	1,450	2,129	2,808	5,525	8,242	45	2717	3
40° Rise	263	434	606	777	1,120	1,635	2,150	4,209	6,267	34	2059	4
50° Rise	228	366	503	640	915	1,326	1,738	3,385	5,032	27	1647	5
60° Rise	205	320	434	549	777	1,120	1,464	2,836	4,209	23	1373	6
70° Rise	189	287	385	483	679	973	1,267	2,444	3,620	20	1176	7
80° Rise	177	263	348	434	606	863	1,120	2,150	3,179	17	1029	8
90° Rise	167	244	320	396	549	777	1,006	1,921	2,836	15	915	9
100° Rise	160	228	297	366	503	709	915	1,738	2,562	14	824	9
120° Rise	148	205	263	320	434	606	777	1,464	2,150	11	686	11
140° Rise	140	189	238	287	385	532	679	1,267	1,856	10	588	13

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OptiTHERM® 130 Gallon Performance Tables

Volume: 130 Gallons — Input: 800,000 BTU/HR

OT800-A	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
20° Rise	483	875	1,267	1,660	2,444	3,620	4,797	9,503	14,209	78	4706	2
30° Rise	347	603	859	1,115	1,628	2,396	3,164	6,237	9,311	51	3073	3
40° Rise	287	483	679	875	1,267	1,856	2,444	4,797	7,150	39	2353	3
50° Rise	248	405	562	718	1,032	1,503	1,973	3,856	5,738	31	1882	4
60° Rise	222	352	483	614	875	1,267	1,660	3,228	4,797	26	1569	5
70° Rise	203	315	427	539	763	1,099	1,436	2,780	4,125	22	1345	6
80° Rise	189	287	385	483	679	973	1,267	2,444	3,620	20	1176	7
90° Rise	178	265	352	440	614	875	1,137	2,183	3,228	17	1046	7
100° Rise	169	248	326	405	562	797	1,032	1,973	2,915	16	941	8
120° Rise	156	222	287	352	483	679	875	1,660	2,444	13	784	10
140° Rise	147	203	259	315	427	595	763	1,436	2,108	11	672	12

Volume: 130 Gallons — Input: 900,000 BTU/HR

OT900-A	Delivery (GAL)									Recovery (GPM)	Recovery (GPH)	Mins to Recover
	5 min.	10 min.	15 min.	20 min.	30 min.	45 min.	1 hr.	2 hr.	3 hr.			
20° Rise	532	973	1,415	1,856	2,738	4,062	5,385	10,679	15,973	88	5294	1
30° Rise	379	667	955	1,243	1,820	2,684	3,548	7,006	10,463	58	3457	2
40° Rise	312	532	753	973	1,415	2,076	2,738	5,385	8,032	44	2647	3
50° Rise	267	444	620	797	1,150	1,679	2,209	4,326	6,444	35	2118	4
60° Rise	238	385	532	679	973	1,415	1,856	3,620	5,385	29	1765	4
70° Rise	217	343	469	595	847	1,225	1,604	3,116	4,629	25	1513	5
80° Rise	201	312	422	532	753	1,084	1,415	2,738	4,062	22	1324	6
90° Rise	189	287	385	483	679	973	1,267	2,444	3,620	20	1176	7
100° Rise	179	267	356	444	620	885	1,150	2,209	3,267	18	1059	7
120° Rise	165	238	312	385	532	753	973	1,856	2,738	15	882	9
140° Rise	154	217	280	343	469	658	847	1,604	2,360	13	756	10

