

# TURBOMAX<sup>®</sup>

*Instantaneous Indirect Water Heater*

## 1) PERFORMANCE TABLES

RATINGS & PRESSURE LOSSES CHART

## 2) SPECIFICATIONS

## 3) WARRANTY



Select the model that fits your needs by looking at the charts at the desired domestic water output temperature and the boiler water input temperature. Find the boiler output required (column A or B) and look at the amount of hot water produced during the first hour or the second hour (Continuous demand=2<sup>nd</sup> hour or recovery capacity)

When a model is selected, look at pump flow rate shown in column C. To know the pressure losses of boiler water flowing through the TURBOMAX: at the pump flow value, use the pressure drop VS boiler water flow rate chart: Boiler Water Side (Primary Circuit).  
To know the pressure drop on the domestic water side, use the pressure drop VS domestic water flow chart: Domestic Water Side (Secondary circuit).

# Quick Reference Manual

## TURBOMAX® Instantaneous Indirect Water Heater

### A) Performances Tables :

	Domestic Water Temperature				
	Inlet temperature at 40°F Outlet temperature at 105°F	Inlet temperature at 40°F Outlet temperature at 120°F	Inlet temperature at 40°F Outlet temperature at 140°F	Inlet temperature at 40°F Outlet temperature at 160°F	Inlet temperature at 40°F Outlet temperature at 180°F
<b>Boiler Water Temperature</b>					
Supply temperature at 200°F Return temperature at 180°F	<b>Page 2</b>	<b>Page 7</b>	<b>Page 11</b>	<b>Page 14</b>	<b>Page 16</b>
Supply temperature at 180°F Return temperature at 160°F	<b>Page 3</b>	<b>Page 8</b>	<b>Page 12</b>	<b>Page 15</b>	
Supply temperature at 160°F Return temperature at 140°F	<b>Page 4</b>	<b>Page 9</b>	<b>Page 13</b>		
Supply temperature at 140°F Return temperature at 120°F	<b>Page 5</b>	<b>Page 10</b>			
Supply temperature at 125°F Return temperature at 105°F	<b>Page 6</b>				

### B) Pressure Drop VS Flow Rate Curve:

<b>Boiler Water Side :</b>	<b>Page 17</b>
<b>Domestic Water Side :</b>	<b>Page 18</b>

### C) Specification :

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### D) Warranty:

**Page 20**

# Ratings : **TURBOMAX<sup>®</sup>** Instantaneous Indirect Hot Water Heater

Domestic water temperature	
In :	40 °F
Out :	105 °F

Boiler water temperature	
Feed :	200 °F
Return :	180 °F

## Production of domestic hot water.

		<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>		
Boiler Net Output	Pump Flow rate	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
25 000	7	3	222	46	152	46	116	46	116	46	104	46	104	46	85	46	85	46
50 000	15	5	268	93	198	93	163	93	163	93	150	93	150	93	131	93	131	93
75 000	22	8	314	139	244	139	209	139	209	139	197	139	197	139	177	139	177	139
100 000	29	10	361	185	290	185	255	185	255	185	243	185	243	185	224	185	224	185
125 000	37	13	407	231	337	231	302	231	302	231	289	231	289	231	270	231	270	231
150 000	44	15	453	278	383	278	348	278	348	278	336	278	336	278	316	278	316	278
175 000	51	18	499	324	429	324	394	324	394	324	382	324	382	324	363	324	363	324
200 000	59	21	546	370	475	370	440	370	440	370	428	370	428	370	409	370	409	370
225 000	66	23	592	416	522	416	487	416	487	416	474	416	474	416	455	416	455	416
250 000	73	26	638	463	568	463	533	463	533	463	521	463	521	463	501	463	501	463
275 000	81	28	684	509	614	509	579	509	579	509	567	509	567	509	548	509	548	509
300 000	88	31	731	555	661	555	625	555	625	555	613	555	613	555	594	555	594	555
325 000	95	34	777	602	707	602	672	602	672	602	659	602	659	602	640	602	640	602
350 000	103	36	823	648	753	648	718	648	718	648	706	648	706	648	686	648	686	648
375 000	110	39	870	694	799	694	764	694	764	694	752	694	752	694	733	694	733	694
400 000	117	41	916	740	846	740	811	740	811	740	798	740	798	740	779	740	779	740
425 000	125	44	962	787	892	787	857	787	857	787	845	787	845	787	825	787	825	787
450 000	132	46	1 008	833	938	833	903	833	903	833	891	833	891	833	871	833	871	833
475 000	139	49	1 055	879	984	879	949	879	949	879	879	879	879	879	879	879	879	879
500 000	146	52	1 101	925	1 031	925	996	925	996	925								
525 000	154	54	1 147	972	1 077	972	1 042	972	1 042	972								
550 000	161	57	1 193	1 018		1 018	1 088	1 018		1 018								
575 000	168	59	1 240	1 064		1 064		1 064		1 064								
600 000	176	62	1 286	1 110		1 110		1 110										
625 000	183	65	1 332	1 157														
650 000	190	67	1 379	1 203														
675 000	198	70	1 425	1 249														
700 000	205	72	1 471	1 296														
725 000	212	75	1 517	1 342														
750 000	220	77	1 564	1 388														
775 000	227	80	1 610	1 434														
800 000	234	83	1 656	1 481														
825 000	242	85	1 702	1 527														
850 000	249	88	1 749	1 573														
875 000	256	90	1 795	1 619														
900 000	264	93	1 841	1 666														
925 000	271	96	1 888	1 712														
950 000	278	98	1 934	1 758														
975 000	286	101	1 980	1 805														
1 000 000	293	103		1 851														
1 025 000	300	106		1 897														
1 050 000	308	108		1 943														
1 075 000	315	111		1 990														
A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y

# Ratings : **TURBOMAX<sup>®</sup>** Instantaneous Indirect Hot Water Heater

Domestic water temperature	
In :	40 °F
Out :	105 °F

Boiler water temperature	
Feed :	180 °F
Return :	160 °F

### Production of domestic hot water.

		<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>		
Boiler Net Output	Pump Flow rate	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
25 000	7	3	185	46	129	46	102	46	102	46	92	46	92	46	77	46	77	46
50 000	15	5	231	93	176	93	148	93	148	93	138	93	138	93	123	93	123	93
75 000	22	8	277	139	222	139	194	139	194	139	185	139	185	139	169	139	169	139
100 000	29	10	324	185	268	185	241	185	241	185	231	185	231	185	216	185	216	185
125 000	37	13	370	231	314	231	287	231	287	231	277	231	277	231	262	231	262	231
150 000	44	15	416	278	361	278	333	278	333	278	323	278	323	278	308	278	308	278
175 000	51	18	462	324	407	324	379	324	379	324	370	324	370	324	354	324	354	324
200 000	59	21	509	370	453	370	426	370	426	370	416	370	416	370	401	370	401	370
225 000	66	23	555	416	500	416	472	416	472	416	462	416	462	416	447	416	447	416
250 000	73	26	601	463	546	463	518	463	518	463	508	463	508	463	493	463	493	463
275 000	81	28	648	509	592	509	564	509	564	509	555	509	555	509	539	509	539	509
300 000	88	31	694	555	638	555	611	555	611	555	601	555	601	555	586	555	586	555
325 000	95	33	740	602	685	602	657	602	657	602	647	602	647	602	632	602	632	602
350 000	103	36	786	648	731	648	703	648	703	648	694	648	694	648	678	648	678	648
375 000	110	38	833	694	777	694	749	694	749	694	740	694	740	694	725	694	725	694
400 000	117	41	879	740	823	740	796	740	796	740	786	740	786	740	771	740	771	740
425 000	125	44	925	787	870	787	842	787	842	787	832	787	832	787	817	787	817	787
450 000	132	46	971	833	916	833	888	833	888	833	879	833	879	833	863	833	863	833
475 000	139	49	1 018	879	962	879	935	879	935	879	879	879	879	879	879	879	879	879
500 000	146	51	1 064	925	1 009	925	981	925	981	925								
525 000	154	54	1 110	972	1 055	972	1 027	972	1 027	972								
550 000	161	56	1 157	1 018	1 101	1 018	1 073	1 018	1 073	1 018								
575 000	168	59	1 203	1 064		1 064		1 064		1 064								
600 000	176	62	1 249	1 110		1 110		1 110										
625 000	183	64	1 295	1 157														
650 000	190	67	1 342	1 203														
675 000	198	69	1 388	1 249														
700 000	205	72	1 434	1 296														
725 000	212	74	1 480	1 342														
750 000	220	77	1 527	1 388														
775 000	227	79	1 573	1 434														
800 000	234	82	1 619	1 481														
825 000	242	85	1 665	1 527														
850 000	249	87	1 712	1 573														
875 000	256	90	1 758	1 619														
900 000	264	92	1 804	1 666														
925 000	271	95	1 851	1 712														
950 000	278	97	1 897	1 758														
975 000	286	100	1 943	1 805														
1 000 000	293	103	1 989	1 851														
1 025 000	300	105		1 897														
1 050 000	308	108		1 943														
1 075 000	315	110		1 990														
A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y

# Ratings : **TURBOMAX<sup>®</sup> Instantaneous Indirect Hot Water Heater**

Domestic water temperature	
In :	40 °F
Out :	105 °F

Boiler water temperature	
Feed :	160 °F
Return :	140 °F

## Production of domestic hot water.

		<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>		
Boiler Net Output	Pump Flow rate	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
25 000	7	3	148	46	107	46	87	46	87	46	80	46	80	46	69	46	69	46
50 000	15	5	194	93	154	93	133	93	133	93	126	93	126	93	115	93	115	93
75 000	22	8	240	139	200	139	179	139	179	139	172	139	172	139	161	139	161	139
100 000	29	10	287	185	246	185	226	185	226	185	219	185	219	185	207	185	207	185
125 000	37	13	333	231	292	231	272	231	272	231	265	231	265	231	254	231	254	231
150 000	44	15	379	278	339	278	318	278	318	278	311	278	311	278	300	278	300	278
175 000	51	18	426	324	385	324	365	324	365	324	357	324	357	324	346	324	346	324
200 000	59	20	472	370	431	370	411	370	411	370	404	370	404	370	393	370	393	370
225 000	66	23	518	416	477	416	457	416	457	416	450	416	450	416	439	416	439	416
250 000	73	25	564	463	524	463	503	463	503	463	496	463	496	463	485	463	485	463
275 000	81	28	611	509	570	509	550	509	550	509	543	509	543	509	531	509	531	509
300 000	88	31	657	555	616	555	596	555	596	555	589	555	589	555	578	555	578	555
325 000	95	33	703	602	662	602	642	602	642	602	635	602	635	602	624	602	624	602
350 000	103	36	749	648	709	648	688	648	688	648	681	648	681	648	670	648	670	648
375 000	110	38	796	694	755	694	735	694	735	694	728	694	728	694	716	694	716	694
400 000	117	41	842	740	801	740	781	740	781	740	774	740	774	740	763	740	763	740
425 000	125	43	888	787	848	787	827	787	827	787	820	787	820	787	809	787	809	787
450 000	132	46	934	833	894	833	874	833	874	833	866	833	866	833	855	833	855	833
475 000	139	48	981	879	940	879	920	879	920	879	879	879	879	879	879	879	879	879
500 000	146	51	1 027	925	986	925	966	925	966	925								
525 000	154	53	1 073	972	1 033	972	1 012	972	1 012	972								
550 000	161	56	1 120	1 018	1 079	1 018	1 059	1 018	1 059	1 018								
575 000	168	59	1 166	1 064	1 127	1 064	1 105	1 064	1 105	1 064								
600 000	176	61	1 212	1 110		1 110		1 110		1 110								
625 000	183	64	1 258	1 157														
650 000	190	66	1 305	1 203														
675 000	198	69	1 351	1 249														
700 000	205	71	1 397	1 296														
725 000	212	74	1 443	1 342														
750 000	220	76	1 490	1 388														
775 000	227	79	1 536	1 434														
800 000	234	82	1 582	1 481														
825 000	242	84	1 629	1 527														
850 000	249	87	1 675	1 573														
875 000	256	89	1 721	1 619														
900 000	264	92	1 767	1 666														
925 000	271	94	1 814	1 712														
950 000	278	97	1 860	1 758														
975 000	286	99	1 906	1 805														
1 000 000	293	102	1 952	1 851														
1 025 000	300	104	1 999	1 897														
1 050 000	308	107		1 943														
1 075 000	315	110		1 990														
A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y

# Ratings : **TURBOMAX<sup>®</sup>** Instantaneous Indirect Hot Water Heater

<b>Domestic water temperature</b>	
In :	40 °F
Out :	105 °F

<b>Boiler water temperature</b>	
Feed :	140 °F
Return :	120 °F

**Production of domestic hot water.**

		<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>			
<b>Boiler Net Output</b>	<b>Pump Flow rate</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>		
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour		
1	25 000	7	3	111	46	85	46	72	46	72	46	68	46	68	46	60	46	60	46
2	50 000	15	5	157	93	131	93	118	93	118	93	114	93	114	93	107	93	107	93
3	75 000	22	8	203	139	178	139	165	139	165	139	160	139	160	139	153	139	153	139
4	100 000	29	10	250	185	224	185	211	185	211	185	206	185	206	185	199	185	199	185
5	125 000	37	13	296	231	270	231	257	231	257	231	253	231	253	231	246	231	246	231
6	150 000	44	15	342	278	316	278	303	278	303	278	299	278	299	278	292	278	292	278
7	175 000	51	18	389	324	363	324	350	324	350	324	345	324	345	324	338	324	338	324
8	200 000	59	20	435	370	409	370	396	370	396	370	392	370			384	370	384	370
9	225 000	66	23	481	416	455	416	442	416	442	416	438	416			431	416		
10	250 000	73	25	527	463	502	463	489	463	489	463	484	463			477	463		
11	275 000	81	28	574	509	548	509	535	509	535	509	530	509			523	509		
12	300 000	88	30	620	555	594	555	581	555										
13	325 000	95	33	666	602	640	602	627	602										
14	350 000	103	35	712	648	687	648	674	648										
15	375 000	110	38	759	694	733													
16	400 000	117	41	805	740														
17	425 000	125	43	851	787														
18	450 000	132	46	898	833														
19	475 000	139	48	944	879														
20	500 000	146	51	990	925														
21	525 000	154	53	1 036	972														
22	550 000	161	56	1 083	1 018														
23	575 000	168	58	1 129	1 064														
24	600 000	176	61	1 175	1 110														
25	625 000	183	63	1 221	1 157														
26	650 000	190	66	1 268	1 203														
	A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y

# Ratings : **TURBOMAX<sup>®</sup> Instantaneous Indirect Hot Water Heater**

Domestic water temperature	
In :	40 °F
Out :	105 °F

Boiler water temperature	
Feed :	125 °F
Return :	105 °F

## Production of domestic hot water.

		<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>		
Boiler Net Output	Pump Flow rate	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
25 000	7	3	83	46	68	46	61	46	61	46	58	46	58	46	54	46	54	46
50 000	15	5	129	93	115	93	107	93	107	93	105	93	105	93	101	93	101	93
75 000	22	8	176	139	161	139	154	139	154	139	151	139	151	139	147	139	147	139
100 000	29	10	222	185	207	185	200	185	200	185	197	185	197	185	193	185	193	185
125 000	37	13	268	231	254	231	246	231	246	231	244	231	244	231	239	231	239	231
150 000	44	15	315	278	300	278	292	278	292	278	290	278	290	278	286	278	286	278
175 000	51	18	361	324	346	324	339	324	339	324	336	324	336	324	332	324	332	324
200 000	59	20	407	370	392	370	385	370	385	370								
225 000	66	23	453	416														
250 000	73	25	500	463														
275 000	81	28	546	509														
300 000	88	30	592	555														
325 000	95	33	638	602														
350 000	103	35	685	648														
375 000	110	38	731	694														
400 000	117	40	777															
A	B	C	F	H	J	K	L	M	N	P	O	R	T	U	V	W	X	Y

# Ratings : **TURBOMAX<sup>®</sup> Instantaneous Indirect Hot Water Heater**

<b>Domestic water temperature</b>	
In :	40 °F
Out :	120 °F

<b>Boiler water temperature</b>	
Feed :	200 °F
Return :	180 °F

**Production of domestic hot water.**

				<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>		
Boiler Net Output	Pump Flow rate	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour
25 000	7	3	158	38	110	38	86	38	86	38	77	38	77	38	64	38	64	38	38	38
50 000	15	5	195	75	147	75	123	75	123	75	115	75	115	75	102	75	102	75	75	75
75 000	22	8	233	113	185	113	161	113	161	113	153	113	153	113	139	113	139	113	113	113
100 000	29	10	271	151	223	151	199	151	199	151	190	151	190	151	177	151	177	151	151	151
125 000	37	13	308	188	260	188	236	188	236	188	228	188	228	188	215	188	215	188	188	188
150 000	44	15	346	226	298	226	274	226	274	226	265	226	265	226	252	226	252	226	226	226
175 000	51	18	384	263	336	263	312	263	312	263	303	263	303	263	290	263	290	263	263	263
200 000	59	21	421	301	373	301	349	301	349	301	341	301	341	301	328	301	328	301	301	301
225 000	66	23	459	339	411	339	387	339	387	339	378	339	378	339	365	339	365	339	339	339
250 000	73	26	497	376	448	376	424	376	424	376	416	376	416	376	403	376	403	376	376	376
275 000	81	28	534	414	486	414	462	414	462	414	454	414	454	414	440	414	440	414	414	414
300 000	88	31	572	452	524	452	500	452	500	452	491	452	491	452	478	452	478	452	452	452
325 000	95	34	609	489	561	489	537	489	537	489	529	489	529	489	516	489	516	489	489	489
350 000	103	36	647	527	599	527	575	527	575	527	567	527	567	527	553	527	553	527	527	527
375 000	110	39	685	565	637	565	613	565	613	565	604	565	604	565	591	565	591	565	565	565
400 000	117	41	722	602	674	602	650	602	650	602	642	602	642	602	629	602	629	602	602	602
425 000	125	44	760	640	712	640	688	640	688	640	680	640	680	640	666	640	666	640	640	640
450 000	132	46	798	678	750	678	726	678	726	678	717	678	717	678	704	678	704	678		
475 000	139	49	835	715	787	715	763	715	763	715	755	715	755	715	742	715	742	715		
500 000	146	52	873	753	825	753	801	753	801	753	792	753	792	753	779	753	779	753		
525 000	154	54	911	790	863	790	839	790	839	790	830	790	830	790	817	790	817	790		
550 000	161	57	948	828	900	828	876	828	876	828	868	828	868	828	855	828	855	828		
575 000	168	59	986	866	938	866	914	866	914	866	866	866	866	866	892	866	892	866		
600 000	176	62	1 023	903	975	903	951	903	951	903										
625 000	183	65	1 061	941	1 013	941	989	941	989	941										
650 000	190	67	1 099	979	1 051	979	1 027	979	1 027	979										
675 000	198	70	1 136	1 016	1 088	1 016	1 064	1 016	1 064	1 016										
700 000	205	72	1 174	1 054	1 120	1 054	1 102	1 054	1 102	1 054										
725 000	212	75	1 212	1 092		1 092		1 092		1 092										
750 000	220	77	1 249	1 129																
775 000	227	80	1 287	1 167																
800 000	234	83	1 325	1 205																
825 000	242	85	1 362	1 242																
850 000	249	88	1 400	1 280																
875 000	256	90	1 438	1 317																
900 000	264	93	1 475	1 355																
925 000	271	96	1 513	1 393																
950 000	278	98	1 550	1 430																
975 000	286	101	1 588	1 468																
1 000 000	293	103	1 626	1 506																
1 025 000	300	106	1 663	1 543																
1 050 000	308	108	1 701	1 581																
1 075 000	315	111	1 739	1 619																
1 100 000	322	114	1 776	1 656																
1 125 000	330	116	1 814	1 694																
1 150 000	337	119	1 852	1 732																
1 175 000	344	121	1 889	1 769																
1 200 000	352	124	1 927	1 807																
1 225 000	359	127	1 965	1 844																
1 250 000	366	129	2 002	1 882																
1 275 000	374	132		1 920																
1 300 000	381	134		1 957																
1 325 000	388	137		1 995																
A	B	C	F	H	J	K	L	M	N	P	O	R	T	U	V	W	X	Y		

# Ratings : **TURBOMAX<sup>®</sup>** Instantaneous Indirect Hot Water Heater

Domestic water temperature	
In :	40 °F
Out :	120 °F

Boiler water temperature	
Feed :	180 °F
Return :	160 °F

### Production of domestic hot water.

Boiler Net Output		Pump Flow rate	TURBOMAX <sup>®</sup> 109		TURBOMAX <sup>®</sup> 65		TURBOMAX <sup>®</sup> 45		TURBOMAX <sup>®</sup> 44		TURBOMAX <sup>®</sup> 34		TURBOMAX <sup>®</sup> 33		TURBOMAX <sup>®</sup> 24		TURBOMAX <sup>®</sup> 23		
			First Hour Maximum Flow Rate	Continuous Maximum Flow Rate	First Hour Maximum Flow Rate	Continuous Maximum Flow Rate	First Hour Maximum Flow Rate	Continuous Maximum Flow Rate	First Hour Maximum Flow Rate	Continuous Maximum Flow Rate	First Hour Maximum Flow Rate	Continuous Maximum Flow Rate	First Hour Maximum Flow Rate	Continuous Maximum Flow Rate	First Hour Maximum Flow Rate	Continuous Maximum Flow Rate	First Hour Maximum Flow Rate	Continuous Maximum Flow Rate	First Hour Maximum Flow Rate
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour
1	25 000	7	3	128	38	92	38	74	38	74	38	67	38	67	38	57	38	57	38
2	50 000	15	5	165	75	129	75	111	75	111	75	105	75	105	75	95	75	95	75
3	75 000	22	8	203	113	167	113	149	113	149	113	143	113	143	113	133	113	133	113
4	100 000	29	10	241	151	205	151	187	151	187	151	180	151	180	151	170	151	170	151
5	125 000	37	13	278	188	242	188	224	188	224	188	218	188	218	188	208	188	208	188
6	150 000	44	15	316	226	280	226	262	226	262	226	256	226	256	226	246	226	246	226
7	175 000	51	18	354	263	318	263	300	263	300	263	293	263	293	263	283	263	283	263
8	200 000	59	21	391	301	355	301	337	301	337	301	331	301	331	301	321	301	321	301
9	225 000	66	23	429	339	393	339	375	339	375	339	368	339	368	339	359	339	359	339
10	250 000	73	26	466	376	430	376	412	376	412	376	406	376	406	376	396	376	396	376
11	275 000	81	28	504	414	468	414	450	414	450	414	444	414	444	414	434	414	434	414
12	300 000	88	31	542	452	506	452	488	452	488	452	481	452	481	452	472	452	472	452
13	325 000	95	33	579	489	543	489	525	489	525	489	519	489	519	489	509	489	509	489
14	350 000	103	36	617	527	581	527	563	527	563	527	557	527	557	527	547	527	547	527
15	375 000	110	38	655	565	619	565	601	565	601	565	594	565	594	565	584	565	584	565
16	400 000	117	41	692	602	656	602	638	602	638	602	632	602	632	602	622	602	622	602
17	425 000	125	44	730	640	694	640	676	640	676	640	670	640	670	640	660	640	660	640
18	450 000	132	46	768	678	732	678	714	678	714	678	707	678	707	678	697	678	697	678
19	475 000	139	49	805	715	769	715	751	715	751	715	745	715	745	715	735	715	735	715
20	500 000	146	51	843	753	807	753	789	753	789	753	783	753	783	753	773	753	773	753
21	525 000	154	54	881	790	845	790	826	790	826	790	820	790	820	790	810	790	810	790
22	550 000	161	56	918	828	882	828	864	828	864	828	858	828	858	828	848	828	848	828
23	575 000	168	59	956	866	920	866	902	866	902	866								
24	600 000	176	62	993	903	957	903	939	903	939	903								
25	625 000	183	64	1 031	941	995	941	977	941	977	941								
26	650 000	190	67	1 069	979	1 033	979	1 015	979	1 015	979								
27	675 000	198	69	1 106	1 016	1 070	1 016	1 052	1 016	1 052	1 016								
28	700 000	205	72	1 144	1 054	1 108	1 054	1 090	1 054	1 090	1 054								
29	725 000	212	74	1 182	1 092														
30	750 000	220	77	1 219	1 129														
31	775 000	227	79	1 257	1 167														
32	800 000	234	82	1 295	1 205														
33	825 000	242	85	1 332	1 242														
34	850 000	249	87	1 370	1 280														
35	875 000	256	90	1 408	1 317														
36	900 000	264	92	1 445	1 355														
37	925 000	271	95	1 483	1 393														
38	950 000	278	97	1 520	1 430														
39	975 000	286	100	1 558	1 468														
40	1 000 000	293	103	1 596	1 506														
41	1 025 000	300	105	1 633	1 543														
42	1 050 000	308	108	1 671	1 581														
43	1 075 000	315	110	1 709	1 619														
44	1 100 000	322	113	1 746	1 656														
45	1 125 000	330	115	1 784	1 694														
46	1 150 000	337	118	1 822	1 732														
47	1 175 000	344	120	1 859	1 769														
48	1 200 000	352	123	1 897	1 807														
49	1 225 000	359	126	1 935	1 844														
50	1 250 000	366	128	1 972															
51	1 275 000	374	131	2 010															
	A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y

# Ratings : **TURBOMAX<sup>®</sup>** Instantaneous Indirect Hot Water Heater

Domestic water temperature	
In :	40 °F
Out :	120 °F

Boiler water temperature	
Feed :	160 °F
Return :	140 °F

## Production of domestic hot water.

		<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>		
Boiler Net Output	Pump Flow rate	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
25 000	7	3	98	38	74	38	62	38	62	38	57	38	57	38	51	38	51	38
50 000	15	5	135	75	111	75	99	75	99	75	95	75	95	75	88	75	88	75
75 000	22	8	173	113	149	113	137	113	137	113	133	113	133	113	126	113	126	113
100 000	29	10	211	151	187	151	175	151	175	151	170	151	170	151	164	151	164	151
125 000	37	13	248	188	224	188	212	188	212	188	208	188	208	188	201	188	201	188
150 000	44	15	286	226	262	226	250	226	250	226	246	226	246	226	239	226	239	226
175 000	51	18	324	263	300	263	288	263	288	263	283	263	283	263	277	263	277	263
200 000	59	20	361	301	337	301	325	301	325	301	321	301	321	301	314	301	314	301
225 000	66	23	399	339	375	339	363	339	363	339	359	339	359	339	352	339	352	339
250 000	73	25	436	376	412	376	400	376	400	376	396	376			390	376	390	376
275 000	81	28	474	414	450	414	438	414	438	414	434	414			427	414		
300 000	88	31	512	452	488	452	476	452	476	452	472	452			465	452		
325 000	95	33	549	489	525	489	513	489	513	489	509	489			503	489		
350 000	103	36	587	527	563	527	551	527	551		547				540			
375 000	110	38	625	565	601	565	589	565										
400 000	117	41	662	602	638	602	626	602										
425 000	125	43	700	640	676	640	664	640										
450 000	132	46	738	678														
475 000	139	48	775	715														
500 000	146	51	813	753														
525 000	154	53	851	790														
550 000	161	56	888	828														
575 000	168	59	926	866														
600 000	176	61	963	903														
625 000	183	64	1 001	941														
650 000	190	66	1 039	979														
675 000	198	69	1 076	1 016														
700 000	205	71	1 114	1 054														
725 000	212	74	1 152	1 092														
750 000	220	76	1 189	1 129														
775 000	227	79	1 227	1 167														
800 000	234	82	1 265															
A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y

# Ratings : **TURBOMAX<sup>®</sup> Instantaneous Indirect Hot Water Heater**

<b>Domestic water temperature</b>	
In :	40 °F
Out :	120 °F

<b>Boiler water temperature</b>	
Feed :	140 °F
Return :	120 °F

**Production of domestic hot water.**

				<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>	
<b>Boiler Net Output</b>	<b>Pump Flow rate</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour
1	25 000	7	3	68	38	56	38	50	38	50	38	48	38	48	38	44	38	44	38
2	50 000	15	5	105	75	93	75	87	75	87	75	85	75	85	75	82	75	82	75
3	75 000	22	8	143	113	131	113	125	113	125	113	123	113	123	113	120	113	120	113
4	100 000	29	10	181	151	169	151	163	151	163	151	160	151	160	151	157	151	157	151
5	125 000	37	13	218	188	206	188	200	188	200	188	198	188	198	188	195	188	195	188
6	150 000	44	15	256	226	244	226	238	226	238	226	236	226		232	226			
7	175 000	51	18	294	263	282	263	275	263	275	263	273	263		270	263			
8	200 000	59	20	331	301	319	301	313	301										
9	225 000	66	23	369	339	357	339	351	339										
10	250 000	73	25	406	376														
11	275 000	81	28	444	414														
12	300 000	88	30	482	452														
13	325 000	95	33	519	489														
14	350 000	103	35	557	527														
15	375 000	110	38	595	565														
16	400 000	117	41	632	602														
17	425 000	125	43	670	640														
	A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y

# Ratings : **TURBOMAX<sup>®</sup>** Instantaneous Indirect Hot Water Heater

Domestic water temperature	
In :	40 °F
Out :	140 °F

Boiler water temperature	
Feed :	200 °F
Return :	180 °F

### Production of domestic hot water.

Boiler Net Output		Pump Flow rate	TURBOMAX <sup>®</sup> 109		TURBOMAX <sup>®</sup> 65		TURBOMAX <sup>®</sup> 45		TURBOMAX <sup>®</sup> 44		TURBOMAX <sup>®</sup> 34		TURBOMAX <sup>®</sup> 33		TURBOMAX <sup>®</sup> 24		TURBOMAX <sup>®</sup> 23		
			First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour
BTU required per hour	kW	Gallons / Minute	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour
1	25 000	7	3	102	30	73	30	59	30	59	30	54	30	54	30	46	30	46	30
2	50 000	15	5	132	60	104	60	89	60	89	60	84	60	84	60	76	60	76	60
3	75 000	22	8	163	91	134	91	119	91	119	91	114	91	114	91	106	91	106	91
4	100 000	29	10	193	121	164	121	149	121	149	121	144	121	144	121	137	121	137	121
5	125 000	37	13	223	151	194	151	180	151	180	151	175	151	175	151	167	151	167	151
6	150 000	44	15	253	181	224	181	210	181	210	181	205	181	205	181	197	181	197	181
7	175 000	51	18	283	211	254	211	240	211	240	211	235	211	235	211	227	211	227	211
8	200 000	59	21	313	241	285	241	270	241	270	241	265	241	265	241	257	241	257	241
9	225 000	66	23	344	272	315	272	300	272	300	272	295	272	295	272	287	272	287	272
10	250 000	73	26	374	302	345	302	331	302	331	302	325	302	325	302	318	302	318	302
11	275 000	81	28	404	332	375	332	361	332	361	332	356	332	356	332	348	332	348	332
12	300 000	88	31	434	362	405	362	391	362	391	362	386	362	386	362	378	362	378	362
13	325 000	95	34	464	392	435	392	421	392	421	392	416	392	416	392	408	392	408	392
14	350 000	103	36	494	422	466	422	451	422	451	422	446	422	446	422	438	422	438	422
15	375 000	110	39	525	453	496	453	481	453	481	453	476	453	476	453	468	453	468	453
16	400 000	117	41	555	483	526	483	512	483	512	483	506	483	506	483	499	483	499	483
17	425 000	125	44	585	513	556	513	542	513	542	513	537	513	537	513	529	513	529	513
18	450 000	132	46	615	543	586	543	572	543	572	543	567	543	567	543	559	543	559	543
19	475 000	139	49	645	573	616	573	602	573	602	573	597	573	597	573	589	573	589	573
20	500 000	146	52	675	603	647	603	632	603	632	603	627	603	627	603	619	603	619	603
21	525 000	154	54	706	634	677	634	662	634	662	634	657	634	657	634	649	634	649	634
22	550 000	161	57	736	664	707	664	693	664	693	664	688	664	688	664	680	664	680	664
23	575 000	168	59	766	694	737	694	723	694	723	694		694						
24	600 000	176	62	796	724	767	724	753	724	753	724		724						
25	625 000	183	65	826	754	797	754	783	754	783	754		754						
26	650 000	190	67	856	784	828	784	813	784	813	784		784						
27	675 000	198	70	887	815	858	815	843	815	843	815		815						
28	700 000	205	72	917	845	888													
29	725 000	212	75	947	875														
30	750 000	220	77	977	905														
31	775 000	227	80	1 007	935														
32	800 000	234	83	1 037	965														
33	825 000	242	85	1 068	996														
34	850 000	249	88	1 098	1 026														
35	875 000	256	90	1 128	1 056														
36	900 000	264	93	1 158	1 086														
37	925 000	271	96	1 188	1 116														
38	950 000	278	98	1 218	1 146														
39	975 000	286	101	1 249	1 177														
40	1 000 000	293	103	1 279	1 207														
41	1 025 000	300	106	1 309	1 237														
42	1 050 000	308	108	1 339	1 267														
43	1 075 000	315	111	1 369	1 297														
44	1 100 000	322	114	1 400	1 327														
45	1 125 000	330	116	1 430	1 358														
46	1 150 000	337	119	1 460	1 388														
47	1 175 000	344	121	1 490	1 418														
48	1 200 000	352	124	1 520	1 448														
49	1 225 000	359	127	1 550															
50	1 250 000	366	129	1 581															
	A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y

# Ratings : **TURBOMAX<sup>®</sup>** Instantaneous Indirect Hot Water Heater

Domestic water temperature	
In :	40 °F
Out :	140 °F

Boiler water temperature	
Feed :	180 °F
Return :	160 °F

### Production of domestic hot water.

		<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>		
Boiler Net Output	Pump Flow rate	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
25 000	7	3	78	30	59	30	49	30	49	30	46	30	46	30	41	30	41	30
50 000	15	5	108	60	89	60	80	60	80	60	76	60	76	60	71	60	71	60
75 000	22	8	139	91	119	91	110	91	110	91	106	91	106	91	101	91	101	91
100 000	29	10	169	121	149	121	140	121	140	121	137	121	137	121	131	121	131	121
125 000	37	13	199	151	180	151	170	151	170	151	167	151	167	151	161	151	161	151
150 000	44	15	229	181	210	181	200	181	200	181	197	181	197	181	192	181	192	181
175 000	51	18	259	211	240	211	230	211	230	211	227	211	227	211	222	211	222	211
200 000	59	21	289	241	270	241	261	241	261	241	257	241	257	241	252	241	252	241
225 000	66	23	320	272	300	272	291	272	291	272	287	272	287	272	282	272	282	272
250 000	73	26	350	302	331	302	321	302	321	302	318	302	318	302	312	302	312	302
275 000	81	28	380	332	361	332	351	332	351	332	348	332	348	332	342	332	342	332
300 000	88	31	410	362	391	362	381	362	381	362	378	362	378	362	373	362	373	362
325 000	95	33	440	392	421	392	411	392	411	392	408	392	408	392	403	392	403	392
350 000	103	36	470	422	451	422	442	422	442	422	438	422	438	422	433	422	433	422
375 000	110	38	501	453	481	453	472	453	472	453								
400 000	117	41	531	483	512	483	502	483	502	483								
425 000	125	44	561	513	542	513	532	513	532	513								
450 000	132	46	591	543	572	543	562	543	562	543								
475 000	139	49	621	573														
500 000	146	51	651	603														
525 000	154	54	682	634														
550 000	161	56	712	664														
575 000	168	59	742	694														
600 000	176	62	772	724														
625 000	183	64	802	754														
650 000	190	67	832	784														
675 000	198	69	863	815														
700 000	205	72	893	845														
725 000	212	74	923	875														
750 000	220	77	953	905														
775 000	227	79	983	935														
800 000	234	82	1 013	965														
825 000	242	85	1 044															
A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y

# Ratings : **TURBOMAX<sup>®</sup> Instantaneous Indirect Hot Water Heater**

<b>Domestic water temperature</b>	
In :	40 °F
Out :	140 °F

<b>Boiler water temperature</b>	
Feed :	160 °F
Return :	140 °F

**Production of domestic hot water.**

				<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>		
<b>Boiler Net Output</b>	<b>Pump Flow rate</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	<b>First Hour</b>	<b>Continuous</b>	
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour
1	25 000	7	3	54	30	45	30	40	30	40	30	38	30	38	30	35	30	35	30	
2	50 000	15	5	84	60	75	60	70	60	70	60	68	60	68	60	66	60	66	60	
3	75 000	22	8	115	91	105	91	100	91	100	91	98	91	98	91	96	91	96	91	
4	100 000	29	10	145	121	135	121	130	121	130	121	129	121	129	121	126	121	126	121	
5	125 000	37	13	175	151	165	151	160	151	160	151	159	151	159	151	156	151	156	151	
6	150 000	44	15	205	181	195	181	191	181	191	181	189	181	189	181	186	181	186	181	
7	175 000	51	18	235	211	226	211	221	211	221	211	219	211	219	211	216	211	216	211	
8	200 000	59	20	265	241	256	241	251	241	251	241	249	241	249	241	247	241	247	241	
9	225 000	66	23	296	272	286	272	281	272	281	272									
10	250 000	73	25	326	302	316	302	311	302	311	302									
11	275 000	81	28	356	332	346	332	341	332	341	332									
12	300 000	88	31	386	362		362		362		362									
13	325 000	95	33	416	392		392		392		392									
14	350 000	103	36	446	422		422		422		422									
15	375 000	110	38	477	453		453		453		453									
16	400 000	117	41	507	483		483		483		483									
17	425 000	125	43	537	513		513		513		513									
18	450 000	132	46	567	543		543		543		543									
19	475 000	139	48	597	573		573		573		573									
	A	B	C	F	H	J	K	L	M	N	P	O	R	T	U	V	W	X	Y	

# Ratings : **TURBOMAX<sup>®</sup>** Instantaneous Indirect Hot Water Heater

<b>Domestic water temperature</b>	
In :	40 °F
Out :	160 °F

<b>Boiler water temperature</b>	
Feed :	200 °F
Return :	180 °F

**Production of domestic hot water.**

				<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>		
Boiler Net Output	Pump Flow rate	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour
1	25 000	7	3	65	25	49	25	41	25	41	25	38	25	38	25	34	25	34	25	25
2	50 000	15	5	90	50	74	50	66	50	66	50	64	50	64	50	59	50	59	50	50
3	75 000	22	8	116	76	100	76	92	76	92	76	89	76	89	76	84	76	84	76	76
4	100 000	29	10	141	101	125	101	117	101	117	101	114	101	114	101	110	101	110	101	101
5	125 000	37	13	166	126	150	126	142	126	142	126	139	126	139	126	135	126	135	126	126
6	150 000	44	15	191	151	175	151	167	151	167	151	164	151	164	151	160	151	160	151	151
7	175 000	51	18	216	176	200	176	192	176	192	176	190	176	190	176	185	176	185	176	176
8	200 000	59	21	242	202	226	202	218	202	218	202	215	202	215	202	210	202	210	202	202
9	225 000	66	23	267	227	251	227	243	227	243	227	240	227	240	227	235	227	235	227	227
10	250 000	73	26	292	252	276	252	268	252	268	252	265	252	265	252	261	252	261	252	252
11	275 000	81	28	317	277	301	277	293	277	293	277	290	277	290	277	286	277	286	277	277
12	300 000	88	31	342	302	326	302	318	302	318	302	315	302	315	302	311	302	311	302	
13	325 000	95	34	367	327	351	327	343	327	343	327	341	327	341	327	336	327	336	327	
14	350 000	103	36	393	353	377	353	369	353	369	353	366	353	366	353	361	353	361	353	
15	375 000	110	39	418	378	402	378	394	378	394	378	391	378	391	378	387	378	387	378	
16	400 000	117	41	443	403	427	403	419	403	419	403									
17	425 000	125	44	468	428	452	428	444	428	444	428									
18	450 000	132	46	493	453	477	453	469	453	469	453									
19	475 000	139	49	519	479	503	479	495	479	495	479									
20	500 000	146	52	544	504															
21	525 000	154	54	569	529															
22	550 000	161	57	594	554															
23	575 000	168	59	619	579															
24	600 000	176	62	645	605															
25	625 000	183	65	670	630															
26	650 000	190	67	695	655															
27	675 000	198	70	720	680															
28	700 000	205	72	745	705															
29	725 000	212	75	770	730															
30	750 000	220	77	796	756															
31	775 000	227	80	821	781															
32	800 000	234	83	846	806															
33	825 000	242	85	871	831															
34	850 000	249	88	896	856															
35	875 000	256	90	922																
	A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y	

# Ratings : **TURBOMAX<sup>®</sup>** Instantaneous Indirect Hot Water Heater

<b>Domestic water temperature</b>	
In :	40 °F
Out :	160 °F

<b>Boiler water temperature</b>	
Feed :	180 °F
Return :	160 °F

**Production of domestic hot water.**

		<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>		
BTU required per hour	Pump Flow rate Gallons / Minute	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	
		Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour	Maximum Flow Rate Gallons / Hour
25 000	7	3	45	25	37	25	33	25	33	25	32	25	32	25	30	25	30	25
50 000	15	5	70	50	62	50	58	50	58	50	57	50	57	50	55	50	55	50
75 000	22	8	96	76	88	76	84	76	84	76	82	76	82	76	80	76	80	76
100 000	29	10	121	101	113	101	109	101	109	101	107	101	107	101	105	101	105	101
125 000	37	13	146	126	138	126	134	126	134	126	133	126	133	126	130	126	130	126
150 000	44	15	171	151	163	151	159	151	159	151	158	151	158	151	156	151	156	151
175 000	51	18	196	176	188	176	184	176	184	176	183	176			181	176	181	176
200 000	59	21	222	202	214	202	210	202	210	202	208	202			206	202		
225 000	66	23	247	227	239	227	235	227	235	227	233	227			231	227		
250 000	73	26	272	252	264	252	260	252										
275 000	81	28	297	277	289	277	285	277										
300 000	88	31	322	302	314	302	310	302										
325 000	95	33	347	327														
350 000	103	36	373	353														
375 000	110	38	398	378														
400 000	117	41	423	403														
425 000	125	44	448	428														
450 000	132	46	473	453														
475 000	139	49	499	479														
500 000	146	51	524	504														
525 000	154	54	549	529														
550 000	161	56	574															
A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y

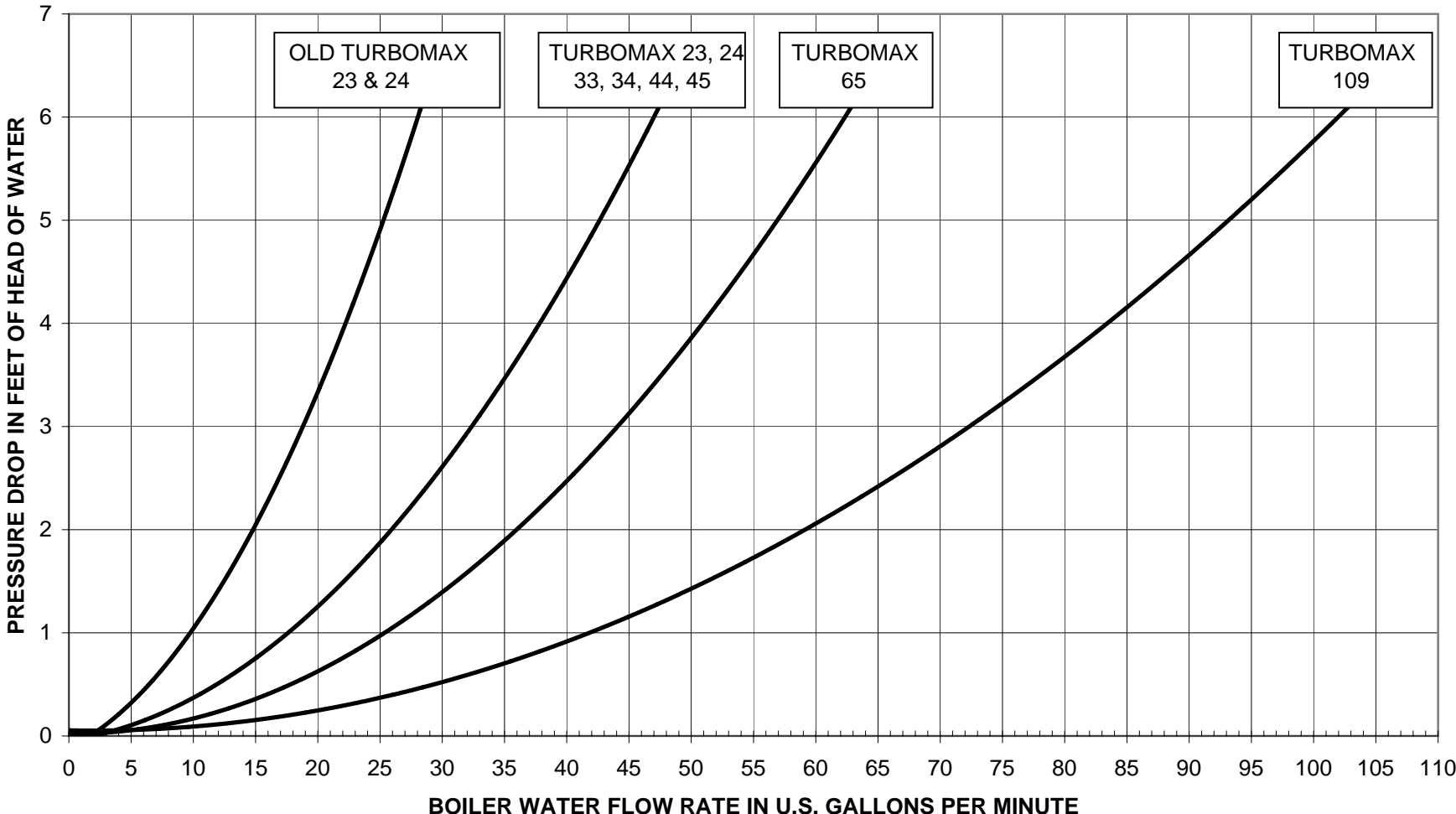
# Ratings : **TURBOMAX<sup>®</sup> Instantaneous Indirect Hot Water Heater**

Domestic water temperature	
In :	40 °F
Out :	180 °F

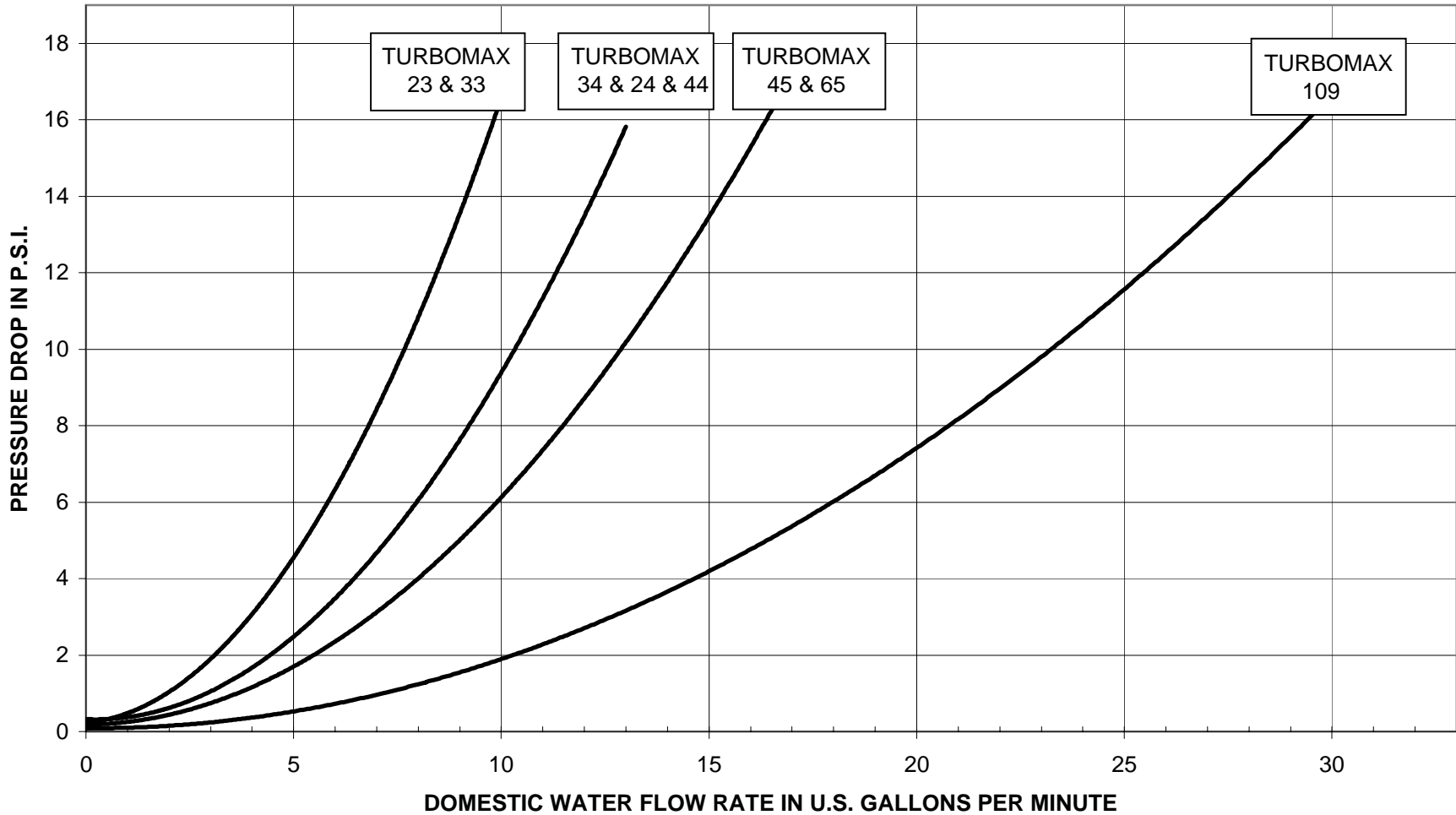
Boiler water temperature	
Feed :	200 °F
Return :	180 °F

Production of domestic hot water.																			
		<b>TURBOMAX<sup>®</sup> 109</b>		<b>TURBOMAX<sup>®</sup> 65</b>		<b>TURBOMAX<sup>®</sup> 45</b>		<b>TURBOMAX<sup>®</sup> 44</b>		<b>TURBOMAX<sup>®</sup> 34</b>		<b>TURBOMAX<sup>®</sup> 33</b>		<b>TURBOMAX<sup>®</sup> 24</b>		<b>TURBOMAX<sup>®</sup> 23</b>			
Boiler Net Output	Pump Flow rate	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous	First Hour	Continuous		
		Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	
BTU required per hour	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1	25 000	7	3	39	22	32	22	28	22	28	22	27	22	27	22	25	22	25	22
2	50 000	15	5	60	43	54	43	50	43	50	43	49	43	49	43	47	43	47	43
3	75 000	22	8	82	65	75	65	72	65	72	65	71	65	71	65	69	65	69	65
4	100 000	29	10	104	87	97	87	93	87	93	87	92	87	92	87	90	87	90	87
5	125 000	37	13	125	108	118	108	115	108	115	108	114	108	114	108	112	108	112	108
6	150 000	44	15	147	130	140	130	137	130	137	130	135	130	135	130	134	130	134	130
7	175 000	51	18	169	151	162	151	158	151	158	151	157	151	157	151	155	151	155	151
8	200 000	59	21	190	173	183	173	180	173	180	173	179	173	179	173	177	173		
9	225 000	66	23	212	195	205	195	202	195	202	195	200	195	200	195	198	195		
10	250 000	73	26	233	216	227	216	223	216	223	216	222	216		220	216			
11	275 000	81	28	255	238	248	238	245	238										
12	300 000	88	31	277	260	270	260	266	260										
13	325 000	95	34	298	281	291	281	288	281										
14	350 000	103	36	320	303														
15	375 000	110	39	342	324														
16	400 000	117	41	363	346														
17	425 000	125	44	385	368														
18	450 000	132	46	406	389														
19	475 000	139	49	428	411														
20	500 000	146	52	450	433														
21	525 000	154	54	471	454														
22	550 000	161	57	493	476														
23	575 000	168	59	515	497														
24	600 000	176	62	536															
	A	B	C	F	H	J	K	L	M	N	P	Q	R	T	U	V	W	X	Y

**Boiler Water Side (Primary Circuit)**  
**Pressure Drop VS Boiler Water Flow rate**  
*TURBOMAX Indirect Hot Water Heater*

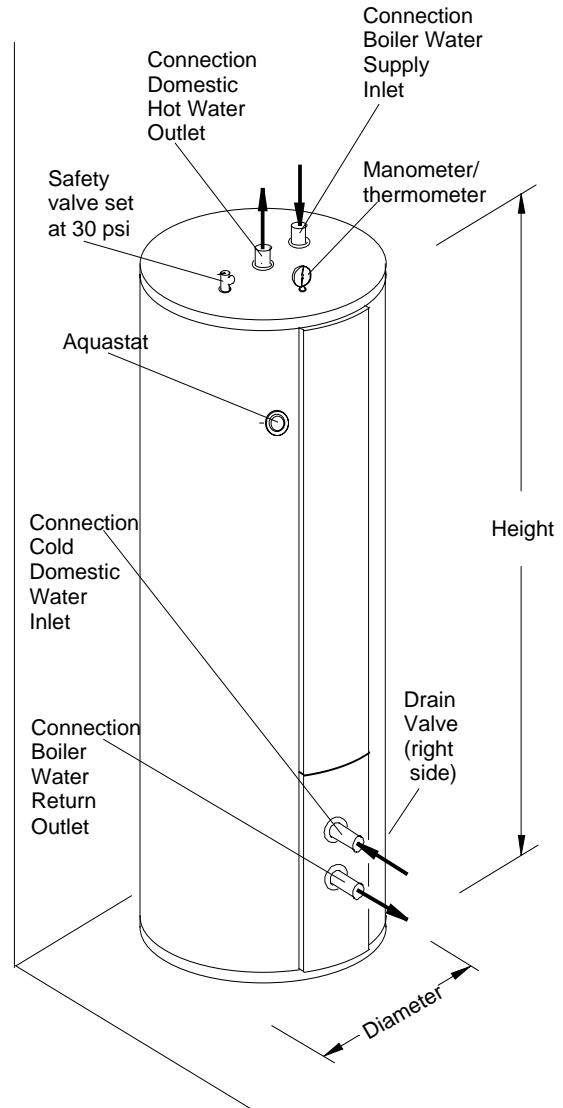


**Domestic Water Side (Secondary Circuit)**  
**Pressure Drop VS Domestic Water Flow rate**  
*TURBOMAX Indirect Hot Water Heater*



# TURBOMAX<sup>®</sup> Specifications

The hot water heater for domestic hot water purposes shall be a TURBOMAX<sup>®</sup> model \_\_\_\_\_, as manufactured by THERMO 2000 Inc. The hot water heater shall have an all-copper domestic waterways made of multiple helical copper tubes operating in parallel with a 150 p.s.i. maximum operating pressure rating. All copper components shall meet the NSF 61 standard of NSF International Standard Drinking Water Systems Components Health Effects. All copper components shall be joined at high temperature by a Sillfoss silver brazing containing no lead. The hot water heater shall have a patented steel injector through which the boiler water or the primary circuit fluid enters the top side of the tank and a steel collector through which the boiler water or primary circuit fluid exits at the bottom of the tank. The tank shall be made of high carbon steel. All the steel joints must be welded by the MIG/Argon gas process. The tank shall be hydrostatically tested to a pressure of 300 p.s.i. and shall have a maximum operating pressure of 150 p.s.i. The tank shall have a fiberglass insulation jacket reducing the tank heat loss to less than 1/2°F per hour. The outer steel jacket shall be protected by baked epoxy. The hot water heater shall have a temperature controller (aquastat) that makes contact when the temperature falls 9°F below the tank water temperature set point and breaks contact when the temperature rises over the set point. The tank shall have a drain (ball) valve made of brass, which have a maximum working pressure of 150 p.s.i. 3 adjustable feet support the water heater for leveling. The hot water heater shall be shipped from the factory with an ASME rated pressure relief valve set at 30 p.s.i., a thermometer/pressure gage (except #23, #33) and an automatic air vent (except #23, #24, #33, #34). The water heater is backed by a 10-year warranty (consult the terms of the warranty shipped with the water heater).



## Specifications:

Model	Tank Volume	Heat transfer area (sq. ft.)	Utility connection	Boiler connection	Height	Diameter	Shipping weight
TURBOMAX <sup>®</sup> 109	119 US gal.	58.9 ft <sup>2</sup>	2" Sweat M	2" NPT M	74"	29"	555 lbs
TURBOMAX <sup>®</sup> 65	72 US gal.	32.7 ft <sup>2</sup>	1-1/2" Sweat M	1-1/2" NPT M	67"	24"	250 lbs
TURBOMAX <sup>®</sup> 45	48 US gal.	32.7 ft <sup>2</sup>	1-1/2" Sweat M	1-1/4" NPT M	55"	22"	235 lbs
TURBOMAX <sup>®</sup> 44	48 US gal.	26.2 ft <sup>2</sup>	1-1/2" Sweat M	1-1/4" NPT M	55"	22"	210 lbs
TURBOMAX <sup>®</sup> 34	36 US gal.	26.2 ft <sup>2</sup>	1-1/2" Sweat M	1-1/4" NPT M	65"	18"	195 lbs
TURBOMAX <sup>®</sup> 33	36 US gal.	19.6 ft <sup>2</sup>	1-1/4" Sweat M	1-1/4" NPT M	65"	18"	170 lbs
TURBOMAX <sup>®</sup> 24	26 US gal.	26.2 ft <sup>2</sup>	1-1/2" Sweat M	1-1/4" NPT M	49"	18"	175 lbs
TURBOMAX <sup>®</sup> 23	26 US gal.	19.6 ft <sup>2</sup>	1-1/4" Sweat M	1-1/4" NPT M	49"	18"	150 lbs

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# TURBOMAX<sup>®</sup> LIMITED WARRANTY

## **Warranty Coverage for Residential Installation.**

Thermo 2000 Inc. hereby warrants to the original residential purchaser that the TURBOMAX<sup>®</sup> tank and exchanger (coil assembly) installed in a residential setting shall be free of leaks during normal use and service for a period of ten (10) years from the date of purchase as long as the original residential purchaser owns the home in which the unit was originally installed. Residential setting shall mean usage in a single-family dwelling in which the consumer resides on a permanent basis. Also, residential setting shall mean use in multiple family dwellings in which one (1) TURBOMAX<sup>®</sup> tank and exchanger is to be used in only one (1) dwelling. In the event that a leak should develop and occur within this limited warranty period due to defective material or workmanship, such leak having been verified by an authorized company representative, Thermo 2000 Inc. will repair or replace at our sole option the failed unit with the nearest comparable model at the time of replacement. Additionally in the event of the use of a low pressure steam boiler, Thermo 2000 Inc. warranty to the original residential purchaser of a TURBOMAX<sup>®</sup> shall apply in the same terms as above, but shall be limited to a period of five (5) years from the date of purchase whether a leak or/and other defects are claimed.

The original residential purchaser is responsible for all costs associated with the removal and reinstallation, shipping and handling to and from manufacturing plant. The replacement unit will be warranted for the remaining portion of the original Warranty.

## **Warranty Coverage for Commercial Installation.**

Thermo 2000 Inc. warrants to the original purchaser that the TURBOMAX<sup>®</sup> tank and exchanger (coil assembly) installed in a commercial setting for ten years, the first (5) years in full and years six (6) through ten (10) prorated 20% each year at suggested retail price

Commercial setting shall mean use in other than residential setting stated above in the residential setting definition. In the event that a leak should develop and occur within this limited warranty period due to defective material or workmanship, such leak having been verified by an authorized company representative, Thermo 2000 Inc. will repair or replace at our sole option the failed unit with the nearest comparable model at the time of replacement. Additionally in the event of the use of a low pressure steam boiler, Thermo 2000 Inc. warranty to the original purchaser of a TURBOMAX<sup>®</sup> for commercial installation shall apply in the same terms as above, but shall be limited to a period of five (5) years from the date of purchase whether a leak or/and other defects are claimed.

The original purchaser is responsible for all costs associated with the removal and reinstallation, shipping and handling to and from Manufacturer. The replacement unit will be warranted for the remaining portion of the original Warranty.

## **Limited one year warranty on all TURBOMAX<sup>®</sup> components & parts**

All other Turbomax<sup>®</sup> components & parts are warranted for a period of one (1) year against defects due to defective material or workmanship. The original purchaser is responsible for all costs associated with the removal and reinstallation, shipping and handling to and from Manufacturer. The components, repaired or replaced are warranted for the residual period of the initial warranty on the unit.

## **Exclusions.**

This warranty is void and shall not apply if:

1. Defects or malfunctions resulting from installation, repair, maintenance and/or usage that are not done in conformity with the manufacturer's installation manual; or
2. Defects or malfunctions resulting from installation, maintenance, or repair that are not done in accordance with regulations in force; or
3. Defects or malfunctions resulting from improper installation, maintenance or repair done carelessly or resulting from consumer damage (improper maintenance, misuse, abuse, accident or alteration); or
4. Installation in which a relief valve (pressure) is not installed or if it is not functioning properly, or when it is not connected to a drain to avoid damage to the property; or
5. Installation in which liquid circulating in the tank does not remain in closed circuit or installation in which piping is leaking; or
6. A polybutylene pipe or radiant panel installation without an oxygen absorption barrier is used; or
7. Installation where the acidity of water is not within the normal Environmental Protection Agency (EPA) (between pH 6.5 – 8.5) guidelines or the domestic water contains abnormal levels of particulate matter or water exceeding 10.5 gpg; or
8. Your home contains any type of water softener system and the unit is not installed and maintained in accordance with the manufacturer specifications; or
9. When installed with a low pressure steam boiler, if sludge is allowed to accumulate in the TURBOMAX<sup>®</sup> tank and boiler water acidity is lower than pH 6.5 or higher than pH 8.5; or
10. The TURBOMAX<sup>®</sup> unit is being subject to non authorized modifications; or
11. Defects or malfunction resulting of storing or handling done elsewhere than Thermo 2000's manufacturing plant; or
12. Units on which the serial number is removed or obliterated.

## **Limitations.**

Thermo 2000 shall not be responsible for any damage, loss, and inconvenience of any nature whatsoever, directly or indirectly, relating to the breakdown or malfunction of the unit. This warranty limits its beneficiary's rights. Nevertheless, the beneficiary may have other rights, which vary from state to state.

This warranty replaces any other expressed or implicit warranty and constitutes the sole obligation of Thermo 2000 towards the consumer. The warranty does not cover cost of removal, reinstallation or shipping to repair or replace the unit, nor administration fees incurred by the original consumer purchaser.

Thermo 2000 reserves its rights to make changes in the details of design, construction, or material, as shall in its judgment constitute an improvement of former practices.

This warranty is valid only for installations made within the territorial limits of Canada and the United States.

In order to receive the benefit of this warranty, the original consumer purchaser must fill in and return the attached registration card within thirty (30) days of date of purchase.

## **Warranty service procedure**

Only authorized Turbomax<sup>®</sup> dealers are permitted to perform warranty obligations. The owner or its contractor must provide Thermo 2000's head office or authorized depot with defect unit together with the following information: Turbomax model and serial number, copy of the original sales receipt and owner's identification certificate.



**THERMO 2000 INC.**

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