

DoubleMax™

Instantaneous Indirect Double-Wall Water Heater

PERFORMANCE TABLES

RATINGS & PRESSURE LOSS CHARTS



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=2nd 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 DOUBLEMEX: at the pump flow values, 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

DoubleMax™ Instantaneous Indirect Double-Wall Water Heater

A) Performance 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
Boiler Water Temperature					
Supply temperature at 200 °F Return temperature at 180 °F	Page 2	Page 7	Page 11	Page 14	Page 16
Supply temperature at 180 °F Return temperature at 160 °F	Page 3	Page 8	Page 12	Page 15	
Supply temperature at 160 °F Return temperature at 140 °F	Page 4	Page 9	Page 13		
Supply temperature at 140 °F Return temperature at 120 °F	Page 5	Page 10			
Supply temperature at 125 °F Return temperature at 105 °F	Page 6				

B) Pressure Drop VS Flow Rate Curves:

Boiler Water Side :	Page 17
Domestic Water Side :	Page 18

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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	200 °F	
Out :	105 °F		Return :	180 °F	

Production of domestic hot water.									
			DoubleMax™ 120-9		DoubleMax™ 80-5		DoubleMax™ 50-4		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	220	46	163	46	119	46	1
2 50 000	15	5	266	92	209	92	165	92	2
3 75 000	22	8	313	139	256	139	212	139	3
4 100 000	29	10	359	185	302	185	258	185	4
5 125 000	37	13	405	231	348	231	304	231	5
6 150 000	44	15	451	277	394	277	350	277	6
7 175 000	51	18	497	323	440	323	396	323	7
8 200 000	59	20.66	544	370	487	370	443	370	8
9 225 000	66	23	590	416	533	416	489	416	9
10 250 000	73	26	636	462	579	462	535	462	10
11 275 000	81	28	682	508	625	508	581	508	11
12 300 000	88	31	728	554	671	554	628	554	12
13 325 000	95	34	775	601	718	601	674	601	13
14 350 000	103	36	821	647	764	647	720	647	14
15 375 000	110	39	867	693	810	693		693	15
16 400 000	117	41	913	739	856	739			16
17 425 000	125	44	959	785		785			17
18 450 000	132	46	1 006	832		832			18
19 475 000	139	49	1 052	878		878			19
20 500 000	146	52	1 098	924					20
21 525 000	154	54	1 144	970					21
22 550 000	161	57	1 190	1 016					22
23 575 000	168	59	1 237	1 063					23
24 600 000	176	62	1 283	1 109					24
25 625 000	183	65	1 329	1 155					25
26 650 000	190	67	1 375	1 201					26
27 675 000	198	70	1 421	1 247					27
28 700 000	205	72	1 468	1 294					28
29 725 000	212	75	1 514	1 340					29
30 750 000	220	77	1 560	1 386					30
31 775 000	227	80	1 606	1 432					31
32 800 000	234	83		1 478					32
33 825 000	242	85		1 525					33
34 850 000	249	88		1 571					34
35 875 000	256	90		1 617					35
36 900 000	264	93							36
37 925 000	271	96							37
38 950 000	278	98							38
39 975 000	286	101							39
40 1 000 000	293	103							40
41 1 025 000	300	106							41
42 1 050 000	308	108							42
43 1 075 000	315	111							43
44 1 100 000	322	114							44
45 1 125 000	330	116							45
46 1 150 000	337	119							46
47 1 175 000	344	121							47
48 1 200 000	352	124							48
49 1 225 000	359	127							49
50 1 250 000	366	129							50
51 1 275 000	374	132							51
52 1 300 000	381	134							52
53 1 325 000	388	137							53
54 1 350 000	396	139							54
55 1 375 000	403	142							55
56 1 400 000	410	145							56
57 1 425 000	418	147							57
58 1 450 000	425	150							58
59 1 475 000	432	152							59
60 1 500 000	439	155							60
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Ratings : *DoubleMax™ Instantaneous Indirect Double-Wall Hot Water Heater*

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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	180 °F	
Out :	105 °F		Return :	160 °F	

Production of domestic hot water.									
			<i>DoubleMax™ 120-9</i>		<i>DoubleMax™ 80-5</i>		<i>DoubleMax™ 50-4</i>		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	184	46	139	46	104	46	1
2 50 000	15	5	230	92	185	92	150	92	2
3 75 000	22	8	276	139	231	139	196	139	3
4 100 000	29	10	322	185	277	185	243	185	4
5 125 000	37	13	368	231	323	231	289	231	5
6 150 000	44	15	415	277	370	277	335	277	6
7 175 000	51	18	461	323	416	323	381	323	7
8 200 000	59	20.51	507	370	462	370	427	370	8
9 225 000	66	23	553	416	508	416	474	416	9
10 250 000	73	26	599	462	554	462	520	462	10
11 275 000	81	28	646	508	601	508	566	508	11
12 300 000	88	31	692	554	647	554	612	554	12
13 325 000	95	33	738	601	693	601	658	601	13
14 350 000	103	36	784	647	739	647	705	647	14
15 375 000	110	38	830	693	785	693		693	15
16 400 000	117	41	877	739	832	739			16
17 425 000	125	44	923	785	878	785			17
18 450 000	132	46	969	832		832			18
19 475 000	139	49	1 015	878		878			19
20 500 000	146	51	1 061	924					20
21 525 000	154	54	1 108	970					21
22 550 000	161	56	1 154	1 016					22
23 575 000	168	59	1 200	1 063					23
24 600 000	176	62	1 246	1 109					24
25 625 000	183	64	1 292	1 155					25
26 650 000	190	67	1 339	1 201					26
27 675 000	198	69	1 385	1 247					27
28 700 000	205	72	1 431	1 294					28
29 725 000	212	74	1 477	1 340					29
30 750 000	220	77	1 523	1 386					30
31 775 000	227	79	1 570	1 432					31
32 800 000	234	82	1 616	1 478					32
33 825 000	242	85		1 525					33
34 850 000	249	87		1 571					34
35 875 000	256	90		1 617					35
36 900 000	264	92							36
37 925 000	271	95							37
38 950 000	278	97							38
39 975 000	286	100							39
40 1 000 000	293	103							40
41 1 025 000	300	105							41
42 1 050 000	308	108							42
43 1 075 000	315	110							43
44 1 100 000	322	113							44
45 1 125 000	330	115							45
46 1 150 000	337	118							46
47 1 175 000	344	120							47
48 1 200 000	352	123							48
49 1 225 000	359	126							49
50 1 250 000	366	128							50
51 1 275 000	374	131							51
52 1 300 000	381	133							52
53 1 325 000	388	136							53
54 1 350 000	396	138							54
55 1 375 000	403	141							55
56 1 400 000	410	144							56
57 1 425 000	418	146							57
58 1 450 000	425	149							58
59 1 475 000	432	151							59
60 1 500 000	439	154							60
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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	160 °F	
Out :	105 °F		Return :	140 °F	

Production of domestic hot water.								
			<i>DoubleMax™ 120-9</i>		<i>DoubleMax™ 80-5</i>		<i>DoubleMax™ 50-4</i>	
Boiler Net Output		Pump 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
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour
1 25 000	7	3	147	46	114	46	89	46
2 50 000	15	5	193	92	160	92	135	92
3 75 000	22	8	239	139	206	139	181	139
4 100 000	29	10	286	185	253	185	227	185
5 125 000	37	13	332	231	299	231	273	231
6 150 000	44	15	378	277	345	277	320	277
7 175 000	51	18	424	323	391	323	366	323
8 200 000	59	20,38	470	370	437	370	412	370
9 225 000	66	23	517	416	484	416	458	416
10 250 000	73	25	563	462	530	462	504	462
11 275 000	81	28	609	508	576	508	551	508
12 300 000	88	31	655	554	622	554	597	554
13 325 000	95	33	701	601	668	601		
14 350 000	103	36	748	647	715	647		
15 375 000	110	38	794	693	761	693		
16 400 000	117	41	840	739				
17 425 000	125	43	886	785				
18 450 000	132	46	932	832				
19 475 000	139	48	979	878				
20 500 000	146	51	1 025	924				
21 525 000	154	53	1 071	970				
22 550 000	161	56	1 117	1 016				
23 575 000	168	59	1 163	1 063				
24 600 000	176	61	1 210	1 109				
25 625 000	183	64	1 256	1 155				
26 650 000	190	66	1 302	1 201				
27 675 000	198	69	1 348	1 247				
28 700 000	205	71	1 394	1 294				
29 725 000	212	74						
30 750 000	220	76						
31 775 000	227	79						
32 800 000	234	82						
33 825 000	242	84						
34 850 000	249	87						
35 875 000	256	89						
36 900 000	264	92						
37 925 000	271	94						
38 950 000	278	97						
39 975 000	286	99						
40 1 000 000	293	102						
41 1 025 000	300	104						
42 1 050 000	308	107						
43 1 075 000	315	110						
44 1 100 000	322	112						
45 1 125 000	330	115						
46 1 150 000	337	117						
47 1 175 000	344	120						
48 1 200 000	352	122						
49 1 225 000	359	125						
50 1 250 000	366	127						
51 1 275 000	374	130						
52 1 300 000	381	132						
53 1 325 000	388	135						
54 1 350 000	396	138						
55 1 375 000	403	140						
56 1 400 000	410	143						
57 1 425 000	418	145						
58 1 450 000	425	148						
59 1 475 000	432	150						
60 1 500 000	439	153						

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

Boiler water temperature		
Feed :	140 °F	
Return :	120 °F	

Production of domestic hot water.									
			<i>DoubleMax™ 120-9</i>		<i>DoubleMax™ 80-5</i>		<i>DoubleMax™ 50-4</i>		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1	25 000	7	3	110	46	89	46	73	46
2	50 000	15	5	156	92	135	92	119	92
3	75 000	22	8	203	139	182	139	166	139
4	100 000	29	10	249	185	228	185	212	185
5	125 000	37	13	295	231	274	231	258	231
6	150 000	44	15	341	277	320	277	304	277
7	175 000	51	18	387	323	366	323	350	323
8	200 000	59	20,26	434	370	413	370		
9	225 000	66	23	480	416	459	416		
10	250 000	73	25	526	462				
11	275 000	81	28	572	508				
12	300 000	88	30	619	554				
13	325 000	95	33	665	601				
14	350 000	103	35	711	647				
15	375 000	110	38	757	693				
16	400 000	117	41	803	739				
17	425 000	125	43						
18	450 000	132	46						
19	475 000	139	48						
20	500 000	146	51						
21	525 000	154	53						
22	550 000	161	56						
23	575 000	168	58						
24	600 000	176	61						
25	625 000	183	63						
26	650 000	190	66						
27	675 000	198	68						
28	700 000	205	71						
29	725 000	212	73						
30	750 000	220	76						
31	775 000	227	79						
32	800 000	234	81						
33	825 000	242	84						
34	850 000	249	86						
35	875 000	256	89						
36	900 000	264	91						
37	925 000	271	94						
38	950 000	278	96						
39	975 000	286	99						
40	1 000 000	293	101						
41	1 025 000	300	104						
42	1 050 000	308	106						
43	1 075 000	315	109						
44	1 100 000	322	111						
45	1 125 000	330	114						
46	1 150 000	337	117						
47	1 175 000	344	119						
48	1 200 000	352	122						
49	1 225 000	359	124						
50	1 250 000	366	127						
51	1 275 000	374	129						
52	1 300 000	381	132						
53	1 325 000	388	134						
54	1 350 000	396	137						
55	1 375 000	403	139						
56	1 400 000	410	142						
57	1 425 000	418	144						
58	1 450 000	425	147						
59	1 475 000	432	149						
60	1 500 000	439	152						
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Domestic water temperature		
In :	40 °F	
Out :	105 °F	

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

Production of domestic hot water.									
			DoubleMax™ 120-9		DoubleMax™ 80-5		DoubleMax™ 50-4		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	83	46	71	46	62	46	1
2 50 000	15	5	129	92	117	92	108	92	2
3 75 000	22	8	175	139	163	139	154	139	3
4 100 000	29	10	221	185	209	185	200	185	4
5 125 000	37	13	268	231	256	231			5
6 150 000	44	15	314	277					6
7 175 000	51	18	360	323					7
8 200 000	59	20,18	406	370					8
9 225 000	66	23	452	416					9
10 250 000	73	25							10
11 275 000	81	28							11
12 300 000	88	30							12
13 325 000	95	33							13
14 350 000	103	35							14
15 375 000	110	38							15
16 400 000	117	40							16
17 425 000	125	43							17
18 450 000	132	45							18
19 475 000	139	48							19
20 500 000	146	50							20
21 525 000	154	53							21
22 550 000	161	55							22
23 575 000	168	58							23
24 600 000	176	61							24
25 625 000	183	63							25
26 650 000	190	66							26
27 675 000	198	68							27
28 700 000	205	71							28
29 725 000	212	73							29
30 750 000	220	76							30
31 775 000	227	78							31
32 800 000	234	81							32
33 825 000	242	83							33
34 850 000	249	86							34
35 875 000	256	88							35
36 900 000	264	91							36
37 925 000	271	93							37
38 950 000	278	96							38
39 975 000	286	98							39
40 1 000 000	293	101							40
41 1 025 000	300	103							41
42 1 050 000	308	106							42
43 1 075 000	315	108							43
44 1 100 000	322	111							44
45 1 125 000	330	114							45
46 1 150 000	337	116							46
47 1 175 000	344	119							47
48 1 200 000	352	121							48
49 1 225 000	359	124							49
50 1 250 000	366	126							50
51 1 275 000	374	129							51
52 1 300 000	381	131							52
53 1 325 000	388	134							53
54 1 350 000	396	136							54
55 1 375 000	403	139							55
56 1 400 000	410	141							56
57 1 425 000	418	144							57
58 1 450 000	425	146							58
59 1 475 000	432	149							59
60 1 500 000	439	151							60
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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	200 °F	
Out :	120 °F		Return :	180 °F	

Production of domestic hot water.									
			DoubleMax™ 120-9		DoubleMax™ 80-5		DoubleMax™ 50-4		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	157	38	118	38	88	38	1
2 50 000	15	5	194	75	155	75	125	75	2
3 75 000	22	8	232	113	193	113	163	113	3
4 100 000	29	10	269	150	230	150	200	150	4
5 125 000	37	13	307	188	268	188	238	188	5
6 150 000	44	15	344	225	305	225	275	225	6
7 175 000	51	18	382	263	343	263	313	263	7
8 200 000	59	20.66	420	301	381	301	351	301	8
9 225 000	66	23	457	338	418	338	388	338	9
10 250 000	73	26	495	376	456	376	426	376	10
11 275 000	81	28	532	413	493	413	463	413	11
12 300 000	88	31	570	451	531	451	501	451	12
13 325 000	95	34	607	488	568	488	538	488	13
14 350 000	103	36	645	526	606	526	576	526	14
15 375 000	110	39	683	564	644	564	614	564	15
16 400 000	117	41	720	601	681	601	651	601	16
17 425 000	125	44	758	639	719	639	689	639	17
18 450 000	132	46	795	676	756	676		676	18
19 475 000	139	49	833	714	794	714		714	19
20 500 000	146	52	870	751	831	751			20
21 525 000	154	54	908	789	869	789			21
22 550 000	161	57	946	827		827			22
23 575 000	168	59	983	864		864			23
24 600 000	176	62	1 021	902					24
25 625 000	183	65	1 058	939					25
26 650 000	190	67	1 096	977					26
27 675 000	198	70	1 133	1 014					27
28 700 000	205	72	1 171	1 052					28
29 725 000	212	75	1 209	1 090					29
30 750 000	220	77	1 246	1 127					30
31 775 000	227	80	1 284	1 165					31
32 800 000	234	83	1 321	1 202					32
33 825 000	242	85	1 359	1 240					33
34 850 000	249	88	1 396	1 277					34
35 875 000	256	90	1 434	1 315					35
36 900 000	264	93	1 472	1 353					36
37 925 000	271	96	1 509	1 390					37
38 950 000	278	98	1 547	1 428					38
39 975 000	286	101	1 584	1 465					39
40 1 000 000	293	103		1 503					40
41 1 025 000	300	106		1 540					41
42 1 050 000	308	108		1 578					42
43 1 075 000	315	111		1 616					43
44 1 100 000	322	114							44
45 1 125 000	330	116							45
46 1 150 000	337	119							46
47 1 175 000	344	121							47
48 1 200 000	352	124							48
49 1 225 000	359	127							49
50 1 250 000	366	129							50
51 1 275 000	374	132							51
52 1 300 000	381	134							52
53 1 325 000	388	137							53
54 1 350 000	396	139							54
55 1 375 000	403	142							55
56 1 400 000	410	145							56
57 1 425 000	418	147							57
58 1 450 000	425	150							58
59 1 475 000	432	152							59
60 1 500 000	439	155							60
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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	180 °F	
Out :	120 °F		Return :	160 °F	

Production of domestic hot water.									
			DoubleMax™ 120-9		DoubleMax™ 80-5		DoubleMax™ 50-4		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	127	38	98	38	75	38	1
2 50 000	15	5	164	75	135	75	113	75	2
3 75 000	22	8	202	113	173	113	150	113	3
4 100 000	29	10	240	150	210	150	188	150	4
5 125 000	37	13	277	188	248	188	225	188	5
6 150 000	44	15	315	225	285	225	263	225	6
7 175 000	51	18	352	263	323	263	300	263	7
8 200 000	59	20.51	390	301	361	301	338	301	8
9 225 000	66	23	427	338	398	338	376	338	9
10 250 000	73	26	465	376	436	376	413	376	10
11 275 000	81	28	503	413	473	413	451	413	11
12 300 000	88	31	540	451	511	451	488	451	12
13 325 000	95	33	578	488	548	488	526	488	13
14 350 000	103	36	615	526	586	526	563	526	14
15 375 000	110	38	653	564	624	564	601	564	15
16 400 000	117	41	690	601	661	601			16
17 425 000	125	44	728	639	699	639			17
18 450 000	132	46	766	676	736	676			18
19 475 000	139	49	803	714					19
20 500 000	146	51	841	751					20
21 525 000	154	54	878	789					21
22 550 000	161	56	916	827					22
23 575 000	168	59	953	864					23
24 600 000	176	62	991	902					24
25 625 000	183	64	1 029	939					25
26 650 000	190	67	1 066	977					26
27 675 000	198	69	1 104	1 014					27
28 700 000	205	72	1 141	1 052					28
29 725 000	212	74	1 179	1 090					29
30 750 000	220	77	1 216	1 127					30
31 775 000	227	79	1 254	1 165					31
32 800 000	234	82	1 292	1 202					32
33 825 000	242	85	1 329	1 240					33
34 850 000	249	87	1 367	1 277					34
35 875 000	256	90	1 404	1 315					35
36 900 000	264	92							36
37 925 000	271	95							37
38 950 000	278	97							38
39 975 000	286	100							39
40 1 000 000	293	103							40
41 1 025 000	300	105							41
42 1 050 000	308	108							42
43 1 075 000	315	110							43
44 1 100 000	322	113							44
45 1 125 000	330	115							45
46 1 150 000	337	118							46
47 1 175 000	344	120							47
48 1 200 000	352	123							48
49 1 225 000	359	126							49
50 1 250 000	366	128							50
51 1 275 000	374	131							51
52 1 300 000	381	133							52
53 1 325 000	388	136							53
54 1 350 000	396	138							54
55 1 375 000	403	141							55
56 1 400 000	410	144							56
57 1 425 000	418	146							57
58 1 450 000	425	149							58
59 1 475 000	432	151							59
60 1 500 000	439	154							60
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Ratings : *DoubleMax™ Instantaneous Indirect* *Double-Wall Hot Water Heater*

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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	160 °F	
Out :	120 °F		Return :	140 °F	

Production of domestic hot water.									
			<i>DoubleMax™ 120-9</i>		<i>DoubleMax™ 80-5</i>		<i>DoubleMax™ 50-4</i>		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	97	38	78	38	63	38	1
2 50 000	15	5	135	75	115	75	100	75	2
3 75 000	22	8	172	113	153	113	138	113	3
4 100 000	29	10	210	150	190	150	175	150	4
5 125 000	37	13	247	188	228	188	213	188	5
6 150 000	44	15	285	225	265	225	250	225	6
7 175 000	51	18	322	263	303	263	288	263	7
8 200 000	59	20,38	360	301	341	301	326	301	8
9 225 000	66	23	398	338	378	338	363	338	9
10 250 000	73	25	435	376	416	376			10
11 275 000	81	28	473	413	453	413			11
12 300 000	88	31	510	451	491	451			12
13 325 000	95	33	548	488					13
14 350 000	103	36	585	526					14
15 375 000	110	38	623	564					15
16 400 000	117	41	661	601					16
17 425 000	125	43	698	639					17
18 450 000	132	46	736	676					18
19 475 000	139	48	773	714					19
20 500 000	146	51	811	751					20
21 525 000	154	53	848	789					21
22 550 000	161	56	886	827					22
23 575 000	168	59							23
24 600 000	176	61							24
25 625 000	183	64							25
26 650 000	190	66							26
27 675 000	198	69							27
28 700 000	205	71							28
29 725 000	212	74							29
30 750 000	220	76							30
31 775 000	227	79							31
32 800 000	234	82							32
33 825 000	242	84							33
34 850 000	249	87							34
35 875 000	256	89							35
36 900 000	264	92							36
37 925 000	271	94							37
38 950 000	278	97							38
39 975 000	286	99							39
40 1 000 000	293	102							40
41 1 025 000	300	104							41
42 1 050 000	308	107							42
43 1 075 000	315	110							43
44 1 100 000	322	112							44
45 1 125 000	330	115							45
46 1 150 000	337	117							46
47 1 175 000	344	120							47
48 1 200 000	352	122							48
49 1 225 000	359	125							49
50 1 250 000	366	127							50
51 1 275 000	374	130							51
52 1 300 000	381	132							52
53 1 325 000	388	135							53
54 1 350 000	396	138							54
55 1 375 000	403	140							55
56 1 400 000	410	143							56
57 1 425 000	418	145							57
58 1 450 000	425	148							58
59 1 475 000	432	150							59
60 1 500 000	439	153							60
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Ratings : *DoubleMax™ Instantaneous Indirect Double-Wall Hot Water Heater*

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

Boiler water temperature		
Feed :	140 °F	
Return :	120 °F	

Production of domestic hot water.									
			<i>DoubleMax™ 120-9</i>		<i>DoubleMax™ 80-5</i>		<i>DoubleMax™ 50-4</i>		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	67	38	58	38	50	38	1
2 50 000	15	5	105	75	95	75	88	75	2
3 75 000	22	8	142	113	133	113	125	113	3
4 100 000	29	10	180	150	170	150	163	150	4
5 125 000	37	13	218	188	208	188	200	188	5
6 150 000	44	15	255	225	245	225			6
7 175 000	51	18	293	263					7
8 200 000	59	20,26	330	301					8
9 225 000	66	23	368	338					9
10 250 000	73	25	405	376					10
11 275 000	81	28	443	413					11
12 300 000	88	30	481	451					12
13 325 000	95	33							13
14 350 000	103	35							14
15 375 000	110	38							15
16 400 000	117	41							16
17 425 000	125	43							17
18 450 000	132	46							18
19 475 000	139	48							19
20 500 000	146	51							20
21 525 000	154	53							21
22 550 000	161	56							22
23 575 000	168	58							23
24 600 000	176	61							24
25 625 000	183	63							25
26 650 000	190	66							26
27 675 000	198	68							27
28 700 000	205	71							28
29 725 000	212	73							29
30 750 000	220	76							30
31 775 000	227	79							31
32 800 000	234	81							32
33 825 000	242	84							33
34 850 000	249	86							34
35 875 000	256	89							35
36 900 000	264	91							36
37 925 000	271	94							37
38 950 000	278	96							38
39 975 000	286	99							39
40 1 000 000	293	101							40
41 1 025 000	300	104							41
42 1 050 000	308	106							42
43 1 075 000	315	109							43
44 1 100 000	322	111							44
45 1 125 000	330	114							45
46 1 150 000	337	117							46
47 1 175 000	344	119							47
48 1 200 000	352	122							48
49 1 225 000	359	124							49
50 1 250 000	366	127							50
51 1 275 000	374	129							51
52 1 300 000	381	132							52
53 1 325 000	388	134							53
54 1 350 000	396	137							54
55 1 375 000	403	139							55
56 1 400 000	410	142							56
57 1 425 000	418	144							57
58 1 450 000	425	147							58
59 1 475 000	432	149							59
60 1 500 000	439	152							60
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Ratings : DoubleMax™ Instantaneous Indirect Double-Wall Hot Water Heater

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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	200 °F	
Out :	140 °F		Return :	180 °F	

Production of domestic hot water.									
			<i>DoubleMax™ 120-9</i>		<i>DoubleMax™ 80-5</i>		<i>DoubleMax™ 50-4</i>		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	102	30	78	30	60	30	1
2 50 000	15	5	132	60	108	60	90	60	2
3 75 000	22	8	162	90	138	90	120	90	3
4 100 000	29	10	192	120	168	120	150	120	4
5 125 000	37	13	222	151	199	151	181	151	5
6 150 000	44	15	252	181	229	181	211	181	6
7 175 000	51	18	282	211	259	211	241	211	7
8 200 000	59	20,66	312	241	289	241	271	241	8
9 225 000	66	23	342	271	319	271	301	271	9
10 250 000	73	26	372	301	349	301	331	301	10
11 275 000	81	28	403	331	379	331	361	331	11
12 300 000	88	31	433	361	409	361	391	361	12
13 325 000	95	34	463	391	439	391	421	391	13
14 350 000	103	36	493	421	469	421	451	421	14
15 375 000	110	39	523	452	500	452	482	452	15
16 400 000	117	41	553	482	530	482	512	482	16
17 425 000	125	44	583	512	560	512	542	512	17
18 450 000	132	46	613	542	590	542			18
19 475 000	139	49	643	572	620	572			19
20 500 000	146	52	673	602	650	602			20
21 525 000	154	54	704	632	680	632			21
22 550 000	161	57	734	662	710	662			22
23 575 000	168	59	764	692					23
24 600 000	176	62	794	722					24
25 625 000	183	65	824	753					25
26 650 000	190	67	854	783					26
27 675 000	198	70	884	813					27
28 700 000	205	72	914	843					28
29 725 000	212	75	944	873					29
30 750 000	220	77	975	903					30
31 775 000	227	80	1 005	933					31
32 800 000	234	83	1 035	963					32
33 825 000	242	85	1 065	993					33
34 850 000	249	88	1 095	1 024					34
35 875 000	256	90	1 125	1 054					35
36 900 000	264	93	1 155	1 084					36
37 925 000	271	96	1 185	1 114					37
38 950 000	278	98	1 215	1 144					38
39 975 000	286	101	1 245	1 174					39
40 1 000 000	293	103	1 276	1 204					40
41 1 025 000	300	106	1 306	1 234					41
42 1 050 000	308	108							42
43 1 075 000	315	111							43
44 1 100 000	322	114							44
45 1 125 000	330	116							45
46 1 150 000	337	119							46
47 1 175 000	344	121							47
48 1 200 000	352	124							48
49 1 225 000	359	127							49
50 1 250 000	366	129							50
51 1 275 000	374	132							51
52 1 300 000	381	134							52
53 1 325 000	388	137							53
54 1 350 000	396	139							54
55 1 375 000	403	142							55
56 1 400 000	410	145							56
57 1 425 000	418	147							57
58 1 450 000	425	150							58
59 1 475 000	432	152							59
60 1 500 000	439	155							60
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Ratings : DoubleMax™ Instantaneous Indirect Double-Wall Hot Water Heater

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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	180 °F	
Out :	140 °F		Return :	160 °F	

Production of domestic hot water.									
			<i>DoubleMax™ 120-9</i>		<i>DoubleMax™ 80-5</i>		<i>DoubleMax™ 50-4</i>		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	78	30	62	30	50	30	1
2 50 000	15	5	108	60	92	60	80	60	2
3 75 000	22	8	138	90	122	90	110	90	3
4 100 000	29	10	168	120	152	120	140	120	4
5 125 000	37	13	198	151	183	151	171	151	5
6 150 000	44	15	228	181	213	181	201	181	6
7 175 000	51	18	258	211	243	211	231	211	7
8 200 000	59	20,51	288	241	273	241	261	241	8
9 225 000	66	23	319	271	303	271	291	271	9
10 250 000	73	26	349	301	333	301	321	301	10
11 275 000	81	28	379	331	363	331	351	331	11
12 300 000	88	31	409	361	393	361			12
13 325 000	95	33	439	391	423	391			13
14 350 000	103	36	469	421	453	421			14
15 375 000	110	38	499	452					15
16 400 000	117	41	529	482					16
17 425 000	125	44	559	512					17
18 450 000	132	46	589	542					18
19 475 000	139	49	620	572					19
20 500 000	146	51	650	602					20
21 525 000	154	54	680	632					21
22 550 000	161	56	710	662					22
23 575 000	168	59	740	692					23
24 600 000	176	62	770	722					24
25 625 000	183	64	800	753					25
26 650 000	190	67	830	783					26
27 675 000	198	69	860	813					27
28 700 000	205	72							28
29 725 000	212	74							29
30 750 000	220	77							30
31 775 000	227	79							31
32 800 000	234	82							32
33 825 000	242	85							33
34 850 000	249	87							34
35 875 000	256	90							35
36 900 000	264	92							36
37 925 000	271	95							37
38 950 000	278	97							38
39 975 000	286	100							39
40 1 000 000	293	103							40
41 1 025 000	300	105							41
42 1 050 000	308	108							42
43 1 075 000	315	110							43
44 1 100 000	322	113							44
45 1 125 000	330	115							45
46 1 150 000	337	118							46
47 1 175 000	344	120							47
48 1 200 000	352	123							48
49 1 225 000	359	126							49
50 1 250 000	366	128							50
51 1 275 000	374	131							51
52 1 300 000	381	133							52
53 1 325 000	388	136							53
54 1 350 000	396	138							54
55 1 375 000	403	141							55
56 1 400 000	410	144							56
57 1 425 000	418	146							57
58 1 450 000	425	149							58
59 1 475 000	432	151							59
60 1 500 000	439	154							60
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Ratings : *DoubleMax™ Instantaneous Indirect Double-Wall Hot Water Heater*

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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	160 °F	
Out :	140 °F		Return :	140 °F	

Production of domestic hot water.									
			<i>DoubleMax™ 120-9</i>		<i>DoubleMax™ 80-5</i>		<i>DoubleMax™ 50-4</i>		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	54	30	46	30	40	30	1
2 50 000	15	5	84	60	76	60	70	60	2
3 75 000	22	8	114	90	106	90	100	90	3
4 100 000	29	10	144	120	136	120	130	120	4
5 125 000	37	13	174	151	167	151	161	151	5
6 150 000	44	15	204	181	197	181	191	181	6
7 175 000	51	18	235	211	227	211			7
8 200 000	59	20,38	265	241	257	241			8
9 225 000	66	23	295	271					9
10 250 000	73	25	325	301					10
11 275 000	81	28	355	331					11
12 300 000	88	31	385	361					12
13 325 000	95	33	415	391					13
14 350 000	103	36	445	421					14
15 375 000	110	38	475	452					15
16 400 000	117	41							16
17 425 000	125	43							17
18 450 000	132	46							18
19 475 000	139	48							19
20 500 000	146	51							20
21 525 000	154	53							21
22 550 000	161	56							22
23 575 000	168	59							23
24 600 000	176	61							24
25 625 000	183	64							25
26 650 000	190	66							26
27 675 000	198	69							27
28 700 000	205	71							28
29 725 000	212	74							29
30 750 000	220	76							30
31 775 000	227	79							31
32 800 000	234	82							32
33 825 000	242	84							33
34 850 000	249	87							34
35 875 000	256	89							35
36 900 000	264	92							36
37 925 000	271	94							37
38 950 000	278	97							38
39 975 000	286	99							39
40 1 000 000	293	102							40
41 1 025 000	300	104							41
42 1 050 000	308	107							42
43 1 075 000	315	110							43
44 1 100 000	322	112							44
45 1 125 000	330	115							45
46 1 150 000	337	117							46
47 1 175 000	344	120							47
48 1 200 000	352	122							48
49 1 225 000	359	125							49
50 1 250 000	366	127							50
51 1 275 000	374	130							51
52 1 300 000	381	132							52
53 1 325 000	388	135							53
54 1 350 000	396	138							54
55 1 375 000	403	140							55
56 1 400 000	410	143							56
57 1 425 000	418	145							57
58 1 450 000	425	148							58
59 1 475 000	432	150							59
60 1 500 000	439	153							60
A	B	C	D	E	F	G	H	I	

Ratings : *DoubleMax™ Instantaneous Indirect Double-Wall Hot Water Heater*

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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	200 °F	
Out :	160 °F		Return :	180 °F	

Production of domestic hot water.								
			<i>DoubleMax™ 120-9</i>		<i>DoubleMax™ 80-5</i>		<i>DoubleMax™ 50-4</i>	
Boiler Net Output		Pump 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
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour
1 25 000	7	3	65	25	52	25	42	25
2 50 000	15	5	90	50	77	50	67	50
3 75 000	22	8	115	75	102	75	92	75
4 100 000	29	10	140	101	127	101	117	101
5 125 000	37	13	165	126	152	126	142	126
6 150 000	44	15	191	151	178	151	168	151
7 175 000	51	18	216	176	203	176	193	176
8 200 000	59	20.66	241	201	228	201	218	201
9 225 000	66	23	266	226	253	226	243	226
10 250 000	73	26	291	251	278	251	268	251
11 275 000	81	28	316	277	303	277	293	277
12 300 000	88	31	341	302	328	302	318	302
13 325 000	95	34	367	327	354	327	344	327
14 350 000	103	36	392	352	379	352		
15 375 000	110	39	417	377	404	377		
16 400 000	117	41	442	402	429	402		
17 425 000	125	44	467	427	454	427		
18 450 000	132	46	492	453				
19 475 000	139	49	517	478				
20 500 000	146	52	542	503				
21 525 000	154	54	568	528				
22 550 000	161	57	593	553				
23 575 000	168	59	618	578				
24 600 000	176	62	643	603				
25 625 000	183	65	668	629				
26 650 000	190	67	693	654				
27 675 000	198	70	718	679				
28 700 000	205	72	744	704				
29 725 000	212	75	769	729				
30 750 000	220	77	794	754				
31 775 000	227	80	819	779				
32 800 000	234	83	844	805				
33 825 000	242	85						
34 850 000	249	88						
35 875 000	256	90						
36 900 000	264	93						
37 925 000	271	96						
38 950 000	278	98						
39 975 000	286	101						
40 1 000 000	293	103						
41 1 025 000	300	106						
42 1 050 000	308	108						
43 1 075 000	315	111						
44 1 100 000	322	114						
45 1 125 000	330	116						
46 1 150 000	337	119						
47 1 175 000	344	121						
48 1 200 000	352	124						
49 1 225 000	359	127						
50 1 250 000	366	129						
51 1 275 000	374	132						
52 1 300 000	381	134						
53 1 325 000	388	137						
54 1 350 000	396	139						
55 1 375 000	403	142						
56 1 400 000	410	145						
57 1 425 000	418	147						
58 1 450 000	425	150						
59 1 475 000	432	152						
60 1 500 000	439	155						

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Ratings : DoubleMax™ Instantaneous Indirect Double-Wall Hot Water Heater

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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	180 °F	
Out :	160 °F		Return :	160 °F	

Production of domestic hot water.									
			<i>DoubleMax™ 120-9</i>		<i>DoubleMax™ 80-5</i>		<i>DoubleMax™ 50-4</i>		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	45	25	38	25	33	25	1
2 50 000	15	5	70	50	64	50	59	50	2
3 75 000	22	8	95	75	89	75	84	75	3
4 100 000	29	10	120	101	114	101	109	101	4
5 125 000	37	13	146	126	139	126	134	126	5
6 150 000	44	15	171	151	164	151	159	151	6
7 175 000	51	18	196	176	189	176	184	176	7
8 200 000	59	20.51	221	201	214	201	209	201	8
9 225 000	66	23	246	226	240	226			9
10 250 000	73	26	271	251	265	251			10
11 275 000	81	28	296	277					11
12 300 000	88	31	322	302					12
13 325 000	95	33	347	327					13
14 350 000	103	36	372	352					14
15 375 000	110	38	397	377					15
16 400 000	117	41	422	402					16
17 425 000	125	44	447	427					17
18 450 000	132	46	472	453					18
19 475 000	139	49							19
20 500 000	146	51							20
21 525 000	154	54							21
22 550 000	161	56							22
23 575 000	168	59							23
24 600 000	176	62							24
25 625 000	183	64							25
26 650 000	190	67							26
27 675 000	198	69							27
28 700 000	205	72							28
29 725 000	212	74							29
30 750 000	220	77							30
31 775 000	227	79							31
32 800 000	234	82							32
33 825 000	242	85							33
34 850 000	249	87							34
35 875 000	256	90							35
36 900 000	264	92							36
37 925 000	271	95							37
38 950 000	278	97							38
39 975 000	286	100							39
40 1 000 000	293	103							40
41 1 025 000	300	105							41
42 1 050 000	308	108							42
43 1 075 000	315	110							43
44 1 100 000	322	113							44
45 1 125 000	330	115							45
46 1 150 000	337	118							46
47 1 175 000	344	120							47
48 1 200 000	352	123							48
49 1 225 000	359	126							49
50 1 250 000	366	128							50
51 1 275 000	374	131							51
52 1 300 000	381	133							52
53 1 325 000	388	136							53
54 1 350 000	396	138							54
55 1 375 000	403	141							55
56 1 400 000	410	144							56
57 1 425 000	418	146							57
58 1 450 000	425	149							58
59 1 475 000	432	151							59
60 1 500 000	439	154							60
A	B	C	D	E	F	G	H	I	

Ratings : DoubleMax™ Instantaneous Indirect Double-Wall Hot Water Heater

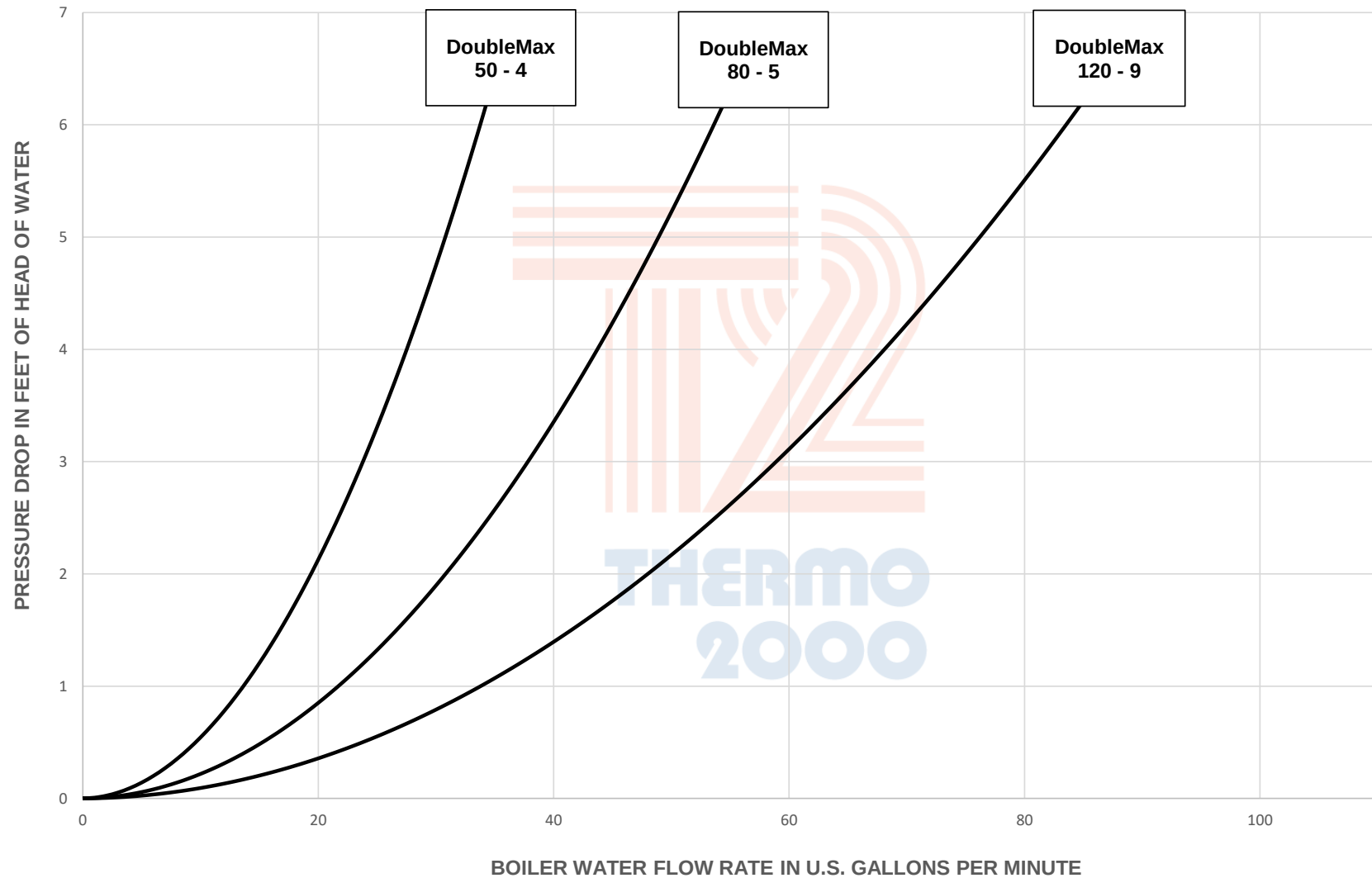
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Domestic water temperature			Boiler water temperature		
In :	40 °F		Feed :	200 °F	
Out :	180 °F		Return :	180 °F	

Production of domestic hot water.									
			<i>DoubleMax™ 120-9</i>		<i>DoubleMax™ 80-5</i>		<i>DoubleMax™ 50-4</i>		
Boiler Net Output		Pump 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	
BTU required per hour	kW	Gallons / Minute	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	Gallons / Hour	
1 25 000	7	3	39	22	33	22	29	22	1
2 50 000	15	5	60	43	55	43	50	43	2
3 75 000	22	8	82	65	76	65	72	65	3
4 100 000	29	10	103	86	98	86	94	86	4
5 125 000	37	13	125	108	119	108	115	108	5
6 150 000	44	15	147	130	141	130	137	130	6
7 175 000	51	18	168	151	163	151	158	151	7
8 200 000	59	20.66	190	173	184	173	180	173	8
9 225 000	66	23	211	194	206	194	202	194	9
10 250 000	73	26	233	216	227	216			10
11 275 000	81	28	255	238	249	238			11
12 300 000	88	31	276	259					12
13 325 000	95	34	298	281					13
14 350 000	103	36	319	302					14
15 375 000	110	39	341	324					15
16 400 000	117	41	363	346					16
17 425 000	125	44	384	367					17
18 450 000	132	46	406	389					18
19 475 000	139	49	427	410					19
20 500 000	146	52	449	432					20
21 525 000	154	54	471	454					21
22 550 000	161	57							22
23 575 000	168	59							23
24 600 000	176	62							24
25 625 000	183	65							25
26 650 000	190	67							26
27 675 000	198	70							27
28 700 000	205	72							28
29 725 000	212	75							29
30 750 000	220	77							30
31 775 000	227	80							31
32 800 000	234	83							32
33 825 000	242	85							33
34 850 000	249	88							34
35 875 000	256	90							35
36 900 000	264	93							36
37 925 000	271	96							37
38 950 000	278	98							38
39 975 000	286	101							39
40 1 000 000	293	103							40
41 1 025 000	300	106							41
42 1 050 000	308	108							42
43 1 075 000	315	111							43
44 1 100 000	322	114							44
45 1 125 000	330	116							45
46 1 150 000	337	119							46
47 1 175 000	344	121							47
48 1 200 000	352	124							48
49 1 225 000	359	127							49
50 1 250 000	366	129							50
51 1 275 000	374	132							51
52 1 300 000	381	134							52
53 1 325 000	388	137							53
54 1 350 000	396	139							54
55 1 375 000	403	142							55
56 1 400 000	410	145							56
57 1 425 000	418	147							57
58 1 450 000	425	150							58
59 1 475 000	432	152							59
60 1 500 000	439	155							60
A	B	C	D	E	F	G	H	I	

Pressure Drop VS Boiler Water Flow Rate
DoubleMax™ Instantaneous Indirect double-wall water heater

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Domestic Water Side (Seondary Circuit)
Pressure Drop VS Domestic Water Flow Rate
DoubleMax™ Instantaneous Indirect Double-Wall Water Heater

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