




# Heat-Flo Indirect Water Heaters


## Heat Exchanger Coil Ratings


**200 deg. F Boiler Supply  
IBR Rating Condition**




MODEL	30 and 40LOW				40				60			
	Boiler flow = 14 gpm				Boiler flow = 14 gpm				Boiler flow = 14 gpm			
BOILER OUTPUT (BTU/HR)	1st HOUR RATING (GAL/HR)		CONTINUOUS RATING (GAL/HR)		1st HOUR RATING (GAL/HR)		CONTINUOUS RATING (GAL/HR)		1st HOUR RATING (GAL/HR)		CONTINUOUS RATING (GAL/HR)	
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F
50,000	94	119	67	92	103	128	67	92	121	146	67	92
60,000	107	138	80	111	116	147	80	111	134	165	80	111
80,000	134	174	107	147	143	183	107	147	161	201	107	147
100,000	160	211	133	184	169	220	133	184	187	238	133	184
120,000	187	248	160	221	196	257	160	221	214	275	160	221
140,000	195	259	168	232	215	284	179	248	240	312	186	258
160,000	195	259	168	232	215	284	179	248	254	333	200	279
MODEL	60 LOW				80				115			
	Boiler flow = 14 gpm				Boiler flow = 14 gpm				Boiler flow = 14 gpm			
BOILER OUTPUT (BTU/HR)	1st HOUR RATING (GAL/HR)		CONTINUOUS RATING (GAL/HR)		1st HOUR RATING (GAL/HR)		CONTINUOUS RATING (GAL/HR)		1st HOUR RATING (GAL/HR)		CONTINUOUS RATING (GAL/HR)	
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F
50,000	121	146	67	92	139	164	67	92	170	195	67	92
60,000	134	165	80	111	152	183	80	111	183	214	80	111
80,000	161	201	107	147	179	219	107	147	210	250	107	147
100,000	187	238	133	184	205	256	133	184	236	287	133	184
120,000	214	275	160	221	232	293	160	221	263	324	160	221
140,000	233	302	179	248	257	330	185	258	289	361	186	258
160,000	233	302	179	248	266	341	194	269	319	403	216	300
High Output Units - 80-HO and 115-HO - 21 gpm boiler flow												
MODEL	80-HO High Output				115-HO High Output							
	Boiler flow = 21 gpm				Boiler flow = 21 gpm							
BOILER OUTPUT (BTU/HR)	1st HOUR RATING (GAL/HR)		CONTINUOUS RATING (GAL/HR)		1st HOUR RATING (GAL/HR)		CONTINUOUS RATING (GAL/HR)					
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F				
50,000	139	164	67	92	170	195	67	92				
60,000	152	183	80	111	183	214	80	111				
80,000	179	219	107	147	210	250	107	147				
100,000	205	256	133	184	236	287	133	184				
120,000	232	293	160	221	263	324	160	221				
140,000	258	330	186	258	289	361	186	258				
160,000	285	368	213	296	316	398	213	295				
180,000	312	405	240	333	343	435	240	332				
200,000	339	442	267	370	370	473	267	370				
220,000	365	478	293	406	396	509	293	406				
240,000	392	515	320	443	423	546	320	443				
250,000	408	537	336	465	436	564	333	461				
260,000	408	537	336	465	450	583	347	480				

190 deg. F Boiler Supply IBR Rating Condition													
<b>MODEL</b>	<b>30 and 40LOW</b>				<b>40</b>				<b>60</b>				
	Boiler flow = 14 gpm				Boiler flow = 14 gpm				Boiler flow = 14 gpm				
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	
50,000	94	119	67	92	103	128	67	92	121	146	67	92	
60,000	107	138	80	111	116	147	80	111	134	165	80	111	
80,000	134	174	107	147	143	183	107	147	161	201	107	147	
100,000	160	211	133	184	169	220	133	184	187	238	133	184	
120,000	184	244	157	217	196	257	160	221	214	275	160	221	
140,000	184	244	157	217	202	267	166	231	240	294	186	240	
160,000	184	244	157	217	202	267	166	231	241	312	187	258	
<b>MODEL</b>	<b>60 LOW</b>				<b>80</b>				<b>115</b>				
	Boiler flow = 14 gpm				Boiler flow = 14 gpm				Boiler flow = 14 gpm				
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	
50,000	121	146	67	92	139	164	67	92	170	195	67	92	
60,000	134	165	80	111	152	183	80	111	183	214	80	111	
80,000	161	201	107	147	179	219	107	147	210	250	107	147	
100,000	187	275	133	221	205	256	133	184	236	287	133	184	
120,000	214	285	160	231	232	293	160	221	263	324	160	221	
140,000	220	285	166	231	244	322	172	250	289	361	186	258	
160,000	220	285	166	231	253	322	181	250	304	381	201	278	
<b>High Output Units - 80-HO and 115-HO - 21 gpm boiler flow</b>													
<b>MODEL</b>	<b>80-HO High Output</b>				<b>115-HO High Output</b>								
	Boiler flow = 21 gpm				Boiler flow = 21 gpm								
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>						
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F					
50,000	139	164	67	92	170	195	67	92					
60,000	152	183	80	111	183	214	80	111					
80,000	179	219	107	147	210	250	107	147					
100,000	205	256	133	184	236	287	133	184					
120,000	232	293	160	221	263	324	160	221					
140,000	258	330	186	258	289	361	186	258					
160,000	285	368	213	296	316	398	213	295					
180,000	312	405	240	333	343	435	240	332					
200,000	339	442	267	370	370	473	267	370					
220,000	364	477	292	405	396	509	293	406					
240,000	384	505	312	433	423	536	320	433					
250,000	384	505	312	433	423	565	320	462					

<b>180 deg. F Boiler Supply IBR Rating Condition</b>													
<b>MODEL</b>	<b>30 and 40LOW</b>				<b>40</b>				<b>60</b>				
	Boiler flow = 14 gpm				Boiler flow = 14 gpm				Boiler flow = 14 gpm				
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	
50,000	94	119	67	92	103	128	67	92	121	146	67	92	
60,000	107	138	80	111	116	147	80	111	134	165	80	111	
80,000	134	174	107	147	143	183	107	147	161	201	107	147	
100,000	160	212	133	185	169	220	133	184	187	238	133	184	
120,000	171	227	144	200	190	250	154	214	214	275	160	221	
140,000	171	227	144	200	190	250	154	214	227	293	173	239	
160,000	171	227	144	200	190	250	154	214	227	293	173	239	
<b>MODEL</b>	<b>60 LOW</b>				<b>80</b>				<b>115</b>				
	Boiler flow = 14 gpm				Boiler flow = 14 gpm				Boiler flow = 14 gpm				
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	
50,000	121	146	67	92	139	164	67	92	170	195	67	92	
60,000	134	165	80	111	152	183	80	111	183	214	80	111	
80,000	161	201	107	147	179	219	107	147	210	250	107	147	
100,000	187	238	133	184	205	256	133	184	236	287	133	184	
120,000	208	268	154	214	232	293	160	221	263	324	160	221	
140,000	208	268	154	214	239	303	167	231	289	360	186	257	
160,000	208	268	154	214	239	303	167	231	289	360	186	257	
<b>High Output Units - 80-HO and 115-HO - 21 gpm boiler flow</b>													
<b>MODEL</b>	<b>80-HO High Output</b>				<b>115-HO High Output</b>								
	Boiler flow = 21 gpm				Boiler flow = 21 gpm								
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>						
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F					
50,000	139	164	67	92	170	195	67	92					
60,000	152	183	80	111	183	214	80	111					
80,000	179	219	107	147	210	250	107	147					
100,000	205	256	133	184	236	287	133	184					
120,000	232	293	160	221	263	324	160	221					
140,000	258	330	186	258	289	361	186	258					
160,000	285	368	213	296	316	398	213	295					
180,000	312	405	240	333	343	435	240	332					
200,000	339	442	267	370	370	473	267	370					
220,000	343	473	271	401	396	509	293	406					
240,000	362	473	290	401	412	531	309	428					
250,000	362	473	290	401	412	531	309	428					

170 deg. F Boiler Supply IBR Rating Condition													
<b>MODEL</b>	<b>30 and 40LOW</b>				<b>40</b>				<b>60</b>				
	Boiler flow = 14 gpm				Boiler flow = 14 gpm				Boiler flow = 14 gpm				
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	
50,000	94	119	67	92	103	128	67	92	121	146	67	92	
60,000	107	138	80	111	116	147	80	111	134	165	80	111	
80,000	134	174	107	147	143	183	107	147	161	201	107	147	
100,000	159	208	132	181	169	220	133	184	187	238	133	184	
120,000	159	208	132	181	176	230	140	194	211	271	157	217	
140,000	159	208	132	181	176	230	140	194	211	271	157	217	
160,000	159	208	132	181	176	230	140	194	211	271	157	217	
<b>MODEL</b>	<b>60 LOW</b>				<b>80</b>				<b>115</b>				
	Boiler flow = 14 gpm				Boiler flow = 14 gpm				Boiler flow = 14 gpm				
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	
50,000	121	146	67	92	139	164	67	92	170	195	67	92	
60,000	134	165	80	111	152	183	80	111	183	214	80	111	
80,000	161	201	107	147	179	219	107	147	210	250	107	147	
100,000	187	238	133	184	205	256	133	184	236	287	133	184	
120,000	194	248	140	194	223	282	151	210	263	324	160	221	
140,000	194	248	140	194	223	282	151	210	271	336	168	233	
160,000	194	248	140	194	223	282	151	210	271	336	168	233	
<b>High Output Units - 80-HO and 115-HO - 21 gpm boiler flow</b>													
<b>MODEL</b>	<b>80-HO High Output</b>				<b>115-HO High Output</b>								
	Boiler flow = 21 gpm				Boiler flow = 21 gpm								
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>						
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F					
50,000	139	164	67	92	170	195	67	92					
60,000	152	183	80	111	183	214	80	111					
80,000	179	219	107	147	210	250	107	147					
100,000	205	256	133	184	236	287	133	184					
120,000	232	293	160	221	263	324	160	221					
140,000	258	330	186	258	289	361	186	258					
160,000	285	368	213	296	316	398	213	296					
180,000	312	405	240	333	343	435	240	332					
200,000	333	434	261	362	370	473	267	370					
220,000	333	434	261	362	370	495	267	392					
240,000	333	434	261	362	370	495	267	392					
250,000	333	434	261	362	370	495	267	392					

160 deg. F Boiler Supply IBR Rating Condition													
<b>MODEL</b>	<b>30 and 40LOW</b>				<b>40</b>				<b>60</b>				
	Boiler flow = 14 gpm				Boiler flow = 14 gpm				Boiler flow = 14 gpm				
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	
50,000	94	119	67	92	103	128	67	92	121	146	67	92	
60,000	107	138	80	111	116	147	80	111	134	165	80	111	
80,000	134	174	107	147	143	183	107	147	161	201	107	147	
100,000	144	188	117	161	160	208	124	172	187	238	133	184	
120,000	144	188	117	161	160	208	124	172	187	238	133	184	
140,000	144	188	117	161	160	208	124	172	187	238	133	184	
160,000	144	188	117	161	160	208	124	172	187	238	133	184	
<b>MODEL</b>	<b>60 LOW</b>				<b>80</b>				<b>115</b>				
	Boiler flow = 14 gpm				Boiler flow = 14 gpm				Boiler flow = 14 gpm				
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F	
50,000	121	146	67	92	139	164	67	92	170	195	67	92	
60,000	134	165	80	111	152	183	80	111	183	214	80	111	
80,000	161	201	107	147	179	219	107	147	210	250	107	147	
100,000	178	213	124	159	205	256	133	184	236	287	133	184	
120,000	178	213	124	159	205	257	133	185	252	310	149	207	
140,000	178	213	124	159	205	257	133	185	252	310	149	207	
160,000	178	213	124	159	205	257	133	185	252	310	149	207	
<b>High Output Units - 80-HO and 115-HO - 21 gpm boiler flow</b>													
<b>MODEL</b>	<b>80-HO High Output</b>				<b>115-HO High Output</b>								
	Boiler flow = 21 gpm				Boiler flow = 21 gpm								
<b>BOILER OUTPUT (BTU/HR)</b>	<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>		<b>1st HOUR RATING (GAL/HR)</b>		<b>CONTINUOUS RATING (GAL/HR)</b>						
	140 F	115 F	140 F	115 F	140 F	115 F	140 F	115 F					
50,000	139	164	67	92	170	195	67	92					
60,000	152	183	80	111	183	214	80	111					
80,000	179	219	107	147	210	250	107	147					
100,000	205	256	133	184	236	287	133	184					
120,000	232	293	160	221	263	324	160	221					
140,000	258	330	186	258	289	361	186	258					
160,000	285	368	213	296	316	398	213	295					
180,000	304	393	232	321	341	436	238	333					
200,000	304	393	232	321	341	446	238	343					
220,000	304	393	232	321	341	446	238	343					
240,000	304	393	232	321	341	446	238	343					
250,000	304	393	232	321	341	446	238	343					



**Heat-Flo Indirect Pressure Drop / Boiler Flow**

Model	Boiler Flow (gpm)				Coils	
	10	12	14	21	Length (ft.)	Area (sq. ft.)
	Head (ft. of water)					
30	2.9	3.4	5.3	-	23.6	7.0
40	3.0	3.6	5.7	-	25.4	7.5
40 LOW	2.9	3.4	5.3	-	23.6	7.0
50	3.3	4.0	6.0	-	27.1	8.0
60	3.3	4.0	6.2	-	28.3	8.3
60 LOW	3.1	3.6	5.7	-	25.4	7.5
80	3.3	3.8	6.0	-	27.1	8.0
115	3.5	4.2	6.6	-	30.3	8.9
80-HO	5.2	6.4	9.9	-	45.5	13.4
115-HO	5.6	6.6	10.5	-	48.8	14.4
80-HO-C	5.2	6.4	9.9	15.8	45.5	13.4
115-HO-C	5.6	6.6	10.5	16.7	48.8	14.4

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**115-D Top Coil Output (BTU/HR)**  
**(coil used to heat radiant loop)**



**Tank Temp. (deg. F)**

<b>Coil Inlet</b>	<b>180</b>	<b>170</b>	<b>160</b>	<b>150</b>	<b>140</b>	<b>130</b>	<b>120</b>
<b>Temp. (F)</b>							
<b>80</b>	114000	102000	90000	78000	66000	54000	42000
<b>85</b>	108000	96000	84000	72000	60000	48000	36000
<b>90</b>	102000	90000	78000	66000	54000	42000	30000
<b>95</b>	96000	84000	72000	60000	48000	36000	24000
<b>100</b>	90000	78000	66000	54000	42000	30000	18000
<b>105</b>	84000	72000	60000	48000	36000	24000	12000
<b>110</b>	78000	66000	54000	42000	30000	18000	6000
<b>115</b>	72000	60000	48000	36000	24000	12000	3000
<b>120</b>	66000	54000	42000	30000	18000	6000	0
<b>125</b>	60000	48000	36000	24000	12000	3000	
<b>130</b>	54000	42000	30000	18000	6000	0	
<b>135</b>	48000	36000	24000	12000	3000		
<b>140</b>	42000	30000	18000	6000	0		

**80-D Top Coil Output (BTU/HR)****(coil used to heat radiant loop)****Tank Temp. (deg. F)**

<b>Coil Inlet Temp. (F)</b>	<b>180</b>	<b>170</b>	<b>160</b>	<b>150</b>	<b>140</b>	<b>130</b>	<b>120</b>
<b>80</b>	106000	111600	83700	72500	61400	50200	39000
<b>85</b>	100400	89300	78100	67000	56000	44600	33500
<b>90</b>	111600	83700	72500	61400	50200	39000	27900
<b>95</b>	89300	78100	67000	56000	44600	33500	22300
<b>100</b>	83700	72500	61400	50200	39000	27900	16700
<b>105</b>	78100	67000	56000	44600	33500	22300	11160
<b>110</b>	72500	61400	50200	39000	27900	16700	5600
<b>115</b>	67000	56000	44600	33500	22300	11160	2800
<b>120</b>	61400	50200	39000	27900	16700	5600	0
<b>125</b>	56000	44600	33500	22300	11160	2800	
<b>130</b>	50200	39000	27900	16700	5600	0	
<b>135</b>	44600	33500	22300	11160	2800		
<b>140</b>	39000	27900	16700	5600	0		