

## What can I expect as a flow rate from my PointZERO Two Purifier™

### Gallons per Hour

	Sea Level	4,000 FT	7,000 FT
<b>Full to Empty Bucket</b>			
5 Gal Bucket			
<u>3 FT Hose</u>	<u>3.6</u>	<u>3.1</u>	<u>2.6</u>
55 Gal Drum			
<u>3 FT Hose</u>	<u>4.3</u>	<u>3.7</u>	<u>3.0</u>
<b>Constantly Full</b>			
5 Gal Bucket			
<u>3 FT Hose</u>	<u>3.9</u>	<u>3.4</u>	<u>2.8</u>
55 Gal Drum			
<u>3 FT Hose</u>	<u>5.3</u>	<u>4.6</u>	<u>3.7</u>

### Gallons per Day

	Sea Level	4,000 FT	7,000 FT
<b>Full to Empty Bucket</b>			
5 Gal Bucket			
<u>3 FT Hose</u>	<u>87</u>	<u>75</u>	<u>61</u>
55 Gal Drum			
<u>3 FT Hose</u>	<u>103</u>	<u>89</u>	<u>73</u>
<b>Constantly Full</b>			
5 Gal Bucket			
<u>3 FT Hose</u>	<u>94</u>	<u>81</u>	<u>66</u>
55 Gal Drum			
<u>3 FT Hose</u>	<u>127</u>	<u>110</u>	<u>90</u>

## What can you expect as a flow rate from your PointZERO Two Purifier?

The flow rate of a filter is determined by a combination of:

- Head Pressure (the distance from the top of the water to the filter).
- Altitude
- How clean the filter is.
- The filter itself (there are slight variations between filters).

**To get an approximation of what to expect, use the following method of calculation:**

**A)** Measure the distance from the top of the water to the filter. This is your initial Head Pressure

For a 5 gallon bucket with a 3 FT hose it should be about 50 inches.

For a 55 gallon drum with a 3FT hose it should be about 78 inches.

**B)** If the container is always full, the Head Pressure remains constant. In this case the distance calculation in section A (above) can be used directly on the chart below. If, however, you allow the quantity of water in the bucket to decrease (as you draw water out through the filter), then you will need a second piece of information. You will need to know the distance from the exit fitment (where the water leaves the vessel) to the filter. For a 3 FT hose it is 38 inches. This is your lowest Head Pressure.

C) Go to the flow chart to find the estimated flow rate for a full bucket at your approximate altitude. To do so you will need the initial Head Pressure determined in Section A (above). If you determined in Section B (above) that your container is always full, then this flow rate represents the approximate number of gallons per hour and gallons per day that your filter can output. If you calculated the lowest Head Pressure in section B (above), you will also need to find this flow rate on the chart. To find your average flow rate, add the initial flow rate to the lowest flow rate and divide by two.

**Here are some examples:**

*Example One:* You have a 5 gallon bucket, 3 FT connecting tube, and you are filtering at sea level. Your water level is 12 inches above the exit fitment. So you add 12 for the bucket, 36 for the tube between the bucket and quick disconnect, and 2 for the tube between the quick disconnect and the filter. You get 50 inches. The chart says you can expect 3.9 gallons per hour / 94 gallons per day. You then look up the flow rate for when the bucket is empty. In this case, the distance from the filter to the connector is 38 inches. The chart says you can expect 3.3 gallons hour / 79 gallons per day. You now have to average the numbers:  $3.9 \text{ gallons} + 3.3 \text{ gallons} = 7.2 \text{ gallons}$ . Divide this by 2 and you get 3.6 gallons per hour average.  $94 + 79 = 173$ .  $173/2 = 87$  gallons per day.

*Example Two:* Same as example one, but now you are filtering at 4,000 FT elevation. At 4,000 Ft you would expect 3.4 gallons per hour / 81 gallons per day initially and at the end you would expect 2.8 gallons per hour / 68 gallons per day. When you average them it would be 3.1 gallons per hour average / 75 gallons per day average.

*Example Three:* You are filtering at Sea Level, with a 55 gallon drum and have a 3 FT connecting tube. You would expect 5.3 gallons per hour / 127 gallons per day initially and at the end you would expect 3.3 gallons per hour / 79 gallons per day. When you average them it would be 4.3 gallons per hour average / 103 gallons per day average.

*Example Four:* You are at 7,000 FT, with a 55 gallon drum and have a 3 FT connecting tube. You would expect 3.7 gallons per hour / 90 gallons per day initially and at the end you would expect 2.3 gallons per hour / 56 gallons per day. When you average them it would be 3.0 gallons per hour average / 73 gallons per day average.

**PointZERO TWO Purifier™ Flow Rates**

Inches of Head Pressure	PSI	Gallons		Gallons		Gallons		Gallons		Gallons		Gallons		Gallons		Gallons	
		per Hour	per Day	per Hour	per Day	per Hour	per Day	per Hour	per Day	per Hour	per Day	per Hour	per Day	per Hour	per Day	per Hour	per Day
		Sea Level		1000 Ft		2000 FT		3000 FT		4000 FT		5000 FT		6000 FT		7000 FT	
38	1.4	3.3	79	3.2	76	3.1	74	3.0	71	2.8	68	2.7	66	2.6	64	2.3	56
39	1.4	3.4	80	3.2	78	3.1	75	3.0	72	2.9	69	2.8	67	2.7	64	2.4	57
40	1.4	3.4	82	3.3	79	3.2	76	3.0	73	2.9	70	2.8	68	2.7	65	2.4	58
41	1.5	3.5	83	3.3	80	3.2	77	3.1	74	3.0	72	2.9	69	2.8	66	2.4	58
42	1.5	3.5	84	3.4	81	3.3	78	3.1	75	3.0	73	2.9	70	2.8	67	2.5	59
43	1.6	3.6	85	3.4	82	3.3	79	3.2	76	3.1	74	3.0	71	2.8	68	2.5	60
44	1.6	3.6	86	3.5	83	3.3	80	3.2	77	3.1	75	3.0	72	2.9	69	2.5	61
45	1.6	3.7	88	3.5	84	3.4	81	3.3	79	3.2	76	3.0	73	2.9	70	2.6	62
46	1.7	3.7	89	3.6	86	3.4	83	3.3	80	3.2	77	3.1	74	3.0	71	2.6	63
47	1.7	3.8	90	3.6	87	3.5	84	3.4	81	3.2	78	3.1	75	3.0	72	2.6	63
48	1.7	3.8	91	3.7	88	3.5	85	3.4	82	3.3	79	3.2	76	3.0	73	2.7	64
49	1.8	3.9	92	3.7	89	3.6	86	3.5	83	3.3	80	3.2	77	3.1	74	2.7	65
50	1.8	3.9	94	3.8	90	3.6	87	3.5	84	3.4	81	3.2	78	3.1	75	2.8	66
51	1.8	4.0	95	3.8	91	3.7	88	3.5	85	3.4	82	3.3	79	3.2	76	2.8	67
52	1.9	4.0	96	3.9	93	3.7	89	3.6	86	3.5	83	3.3	80	3.2	77	2.8	68
53	1.9	4.1	97	3.9	94	3.8	90	3.6	87	3.5	84	3.4	81	3.2	78	2.9	69
54	1.9	4.1	98	4.0	95	3.8	91	3.7	88	3.5	85	3.4	82	3.3	79	2.9	69
55	2.0	4.2	100	4.0	96	3.9	93	3.7	89	3.6	86	3.5	83	3.3	80	2.9	70
56	2.0	4.2	101	4.1	97	3.9	94	3.8	90	3.6	87	3.5	84	3.4	81	3.0	71
57	2.1	4.3	102	4.1	98	4.0	95	3.8	91	3.7	88	3.5	85	3.4	82	3.0	72
58	2.1	4.3	103	4.1	100	4.0	96	3.9	93	3.7	89	3.6	86	3.4	83	3.0	73
59	2.1	4.4	104	4.2	101	4.0	97	3.9	94	3.8	90	3.6	87	3.5	84	3.1	74
60	2.2	4.4	106	4.2	102	4.1	98	3.9	95	3.8	91	3.7	88	3.5	85	3.1	74
61	2.2	4.5	107	4.3	103	4.1	99	4.0	96	3.8	92	3.7	89	3.6	86	3.1	75
62	2.2	4.5	108	4.3	104	4.2	100	4.0	97	3.9	93	3.7	90	3.6	87	3.2	76
63	2.3	4.6	109	4.4	105	4.2	102	4.1	98	3.9	94	3.8	91	3.6	88	3.2	77
64	2.3	4.6	110	4.4	106	4.3	103	4.1	99	4.0	95	3.8	92	3.7	89	3.2	78
65	2.3	4.7	112	4.5	108	4.3	104	4.2	100	4.0	96	3.9	93	3.7	89	3.3	79
66	2.4	4.7	112	4.5	108	4.3	104	4.2	100	4.0	96	3.9	93	3.7	89	3.3	79
66	2.4	4.7	113	4.5	109	4.4	105	4.2	101	4.1	97	3.9	94	3.8	90	3.3	80
67	2.4	4.8	114	4.6	110	4.4	106	4.3	102	4.1	98	4.0	95	3.8	91	3.3	80
68	2.5	4.8	115	4.6	111	4.5	107	4.3	103	4.1	99	4.0	96	3.8	92	3.4	81
69	2.5	4.9	116	4.7	112	4.5	108	4.3	104	4.2	101	4.0	97	3.9	93	3.4	82
70	2.5	4.9	118	4.7	113	4.6	109	4.4	105	4.2	102	4.1	98	3.9	94	3.5	83
71	2.6	5.0	119	4.8	115	4.6	110	4.4	106	4.3	103	4.1	99	4.0	95	3.5	84
72	2.6	5.0	120	4.8	116	4.6	112	4.5	108	4.3	104	4.2	100	4.0	96	3.5	85
73	2.6	5.1	121	4.9	117	4.7	113	4.5	109	4.4	105	4.2	101	4.0	97	3.6	85
74	2.7	5.1	122	4.9	118	4.7	114	4.6	110	4.4	106	4.2	102	4.1	98	3.6	86
75	2.7	5.2	124	5.0	119	4.8	115	4.6	111	4.4	107	4.3	103	4.1	99	3.6	87
76	2.7	5.2	125	5.0	120	4.8	116	4.7	112	4.5	108	4.3	104	4.2	100	3.7	88
77	2.8	5.3	126	5.1	122	4.9	117	4.7	113	4.5	109	4.4	105	4.2	101	3.7	89
78	2.8	5.3	127	5.1	123	4.9	118	4.8	114	4.6	110	4.4	106	4.2	102	3.7	90
79	2.9	5.4	128	5.2	124	5.0	119	4.8	115	4.6	111	4.5	107	4.3	103	3.8	91
80	2.9	5.4	130	5.2	125	5.0	121	4.8	116	4.7	112	4.5	108	4.3	104	3.8	91
81	2.9	5.5	131	5.3	126	5.1	122	4.9	117	4.7	113	4.5	109	4.4	105	3.8	92
82	3.0	5.5	132	5.3	127	5.1	123	4.9	118	4.7	114	4.6	110	4.4	106	3.9	93
83	3.0	5.6	133	5.4	128	5.2	124	5.0	119	4.8	115	4.6	111	4.4	107	3.9	94
84	3.0	5.6	134	5.4	130	5.2	125	5.0	120	4.8	116	4.7	112	4.5	108	3.9	95

**PointZERO TWO Purifier™ Flow Rates**

Inches of Head Pressure	PSI	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day
		Sea Level		1000 Ft		2000 FT		3000 FT		4000 FT		5000 FT		6000 FT		7000 FT			
85	3.1	5.7	136	5.4	131	5.3	126	5.1	122	4.9	117	4.7	113	4.5	109	4.0	96		
86	3.1	5.7	137	5.5	132	5.3	127	5.1	123	4.9	118	4.7	114	4.6	110	4.0	96		
87	3.1	5.8	138	5.5	133	5.3	128	5.2	124	5.0	119	4.8	115	4.6	111	4.1	97		
88	3.2	5.8	139	5.6	134	5.4	129	5.2	125	5.0	120	4.8	116	4.7	112	4.1	98		
89	3.2	5.9	140	5.6	135	5.4	131	5.2	126	5.1	121	4.9	117	4.7	113	4.1	99		
90	3.2	5.9	142	5.7	137	5.5	132	5.3	127	5.1	122	4.9	118	4.7	114	4.2	100		
91	3.3	6.0	143	5.7	138	5.5	133	5.3	128	5.1	123	5.0	119	4.8	114	4.2	101		
92	3.3	6.0	144	5.8	139	5.6	134	5.4	129	5.2	124	5.0	120	4.8	115	4.2	102		
93	3.4	6.1	145	5.8	140	5.6	135	5.4	130	5.2	125	5.0	121	4.9	116	4.3	102		
94	3.4	6.1	146	5.9	141	5.7	136	5.5	131	5.3	126	5.1	122	4.9	117	4.3	103		
95	3.4	6.2	148	5.9	142	5.7	137	5.5	132	5.3	127	5.1	123	4.9	118	4.3	104		
96	3.5	6.2	149	6.0	144	5.8	138	5.6	133	5.4	129	5.2	124	5.0	119	4.4	105		
97	3.5	6.2	150	6.0	145	5.8	139	5.6	134	5.4	130	5.2	125	5.0	120	4.4	106		
98	3.5	6.3	151	6.1	146	5.9	141	5.6	136	5.4	131	5.2	126	5.1	121	4.4	107		
99	3.6	6.3	152	6.1	147	5.9	142	5.7	137	5.5	132	5.3	127	5.1	122	4.5	107		
100	3.6	6.4	154	6.2	148	6.0	143	5.7	138	5.5	133	5.3	128	5.1	123	4.5	108		
101	3.6	6.4	155	6.2	149	6.0	144	5.8	139	5.6	134	5.4	129	5.2	124	4.5	109		
102	3.7	6.5	156	6.3	150	6.0	145	5.8	140	5.6	135	5.4	130	5.2	125	4.6	110		
103	3.7	6.5	157	6.3	152	6.1	146	5.9	141	5.7	136	5.5	131	5.3	126	4.6	111		
104	3.8	6.6	158	6.4	153	6.1	147	5.9	142	5.7	137	5.5	132	5.3	127	4.7	112		
105	3.8	6.6	160	6.4	154	6.2	148	6.0	143	5.7	138	5.5	133	5.3	128	4.7	113		
106	3.8	6.7	161	6.5	155	6.2	150	6.0	144	5.8	139	5.6	134	5.4	129	4.7	113		
107	3.9	6.7	162	6.5	156	6.3	151	6.1	145	5.8	140	5.6	135	5.4	130	4.8	114		
108	3.9	6.8	163	6.6	157	6.3	152	6.1	146	5.9	141	5.7	136	5.5	131	4.8	115		
109	3.9	6.8	164	6.6	159	6.4	153	6.1	147	5.9	142	5.7	137	5.5	132	4.8	116		
110	4.0	6.9	166	6.7	160	6.4	154	6.2	148	6.0	143	5.7	138	5.5	133	4.9	117		
111	4.0	6.9	167	6.7	161	6.5	155	6.2	150	6.0	144	5.8	139	5.6	134	4.9	118		
112	4.0	7.0	168	6.8	162	6.5	156	6.3	151	6.0	145	5.8	140	5.6	135	4.9	118		
113	4.1	7.0	169	6.8	163	6.6	157	6.3	152	6.1	146	5.9	141	5.7	136	5.0	119		
114	4.1	7.1	170	6.8	164	6.6	158	6.4	153	6.1	147	5.9	142	5.7	137	5.0	120		
115	4.1	7.1	172	6.9	166	6.6	160	6.4	154	6.2	148	6.0	143	5.7	138	5.0	121		
116	4.2	7.2	173	6.9	167	6.7	161	6.5	155	6.2	149	6.0	144	5.8	139	5.1	122		
117	4.2	7.2	173	6.9	167	6.7	161	6.5	155	6.2	149	6.0	144	5.8	139	5.1	122		
118	4.3	7.2	174	7.0	168	6.7	162	6.5	156	6.3	150	6.0	145	5.8	140	5.1	123		
119	4.3	7.3	175	7.0	169	6.8	163	6.5	157	6.3	151	6.1	146	5.9	140	5.1	124		
120	4.3	7.3	176	7.1	170	6.8	164	6.6	158	6.3	152	6.1	147	5.9	141	5.2	124		
121	4.4	7.4	178	7.1	171	6.9	165	6.6	159	6.4	153	6.2	148	5.9	142	5.2	125		
122	4.4	7.4	179	7.2	172	6.9	166	6.7	160	6.4	154	6.2	149	6.0	143	5.3	126		
123	4.4	7.5	180	7.2	174	7.0	167	6.7	161	6.5	155	6.2	150	6.0	144	5.3	127		
124	4.5	7.5	181	7.3	175	7.0	168	6.8	162	6.5	156	6.3	151	6.1	145	5.3	128		
125	4.5	7.6	182	7.3	176	7.1	170	6.8	164	6.6	158	6.3	152	6.1	146	5.4	129		
126	4.5	7.6	184	7.4	177	7.1	171	6.9	165	6.6	159	6.4	153	6.1	147	5.4	129		
127	4.6	7.7	185	7.4	178	7.2	172	6.9	166	6.6	160	6.4	154	6.2	148	5.4	130		
128	4.6	7.7	186	7.5	179	7.2	173	6.9	167	6.7	161	6.4	155	6.2	149	5.5	131		
129	4.7	7.8	187	7.5	181	7.3	174	7.0	168	6.7	162	6.5	156	6.3	150	5.5	132		
130	4.7	7.8	188	7.6	182	7.3	175	7.0	169	6.8	163	6.5	157	6.3	151	5.5	133		
131	4.7	7.9	190	7.6	183	7.3	176	7.1	170	6.8	164	6.6	158	6.3	152	5.6	134		
132	4.8	7.9	191	7.7	184	7.4	177	7.1	171	6.9	165	6.6	159	6.4	153	5.6	135		
133	4.8	8.0	192	7.7	185	7.4	179	7.2	172	6.9	166	6.7	160	6.4	154	5.6	135		

**PointZERO TWO Purifier™ Flow Rates**

Inches of Head Pressure	PSI	Sea Level		1000 Ft		2000 FT		3000 FT		4000 FT		5000 FT		6000 FT		7000 FT	
		Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day	Gallons per Hour	Gallons per Day
134	4.8	8.0	193	7.8	186	7.5	180	7.2	173	7.0	167	6.7	161	6.5	155	5.7	136
135	4.9	8.1	194	7.8	187	7.5	181	7.3	174	7.0	168	6.7	162	6.5	156	5.7	137
136	4.9	8.1	196	7.9	189	7.6	182	7.3	175	7.0	169	6.8	163	6.5	157	5.7	138
137	4.9	8.2	197	7.9	190	7.6	183	7.4	176	7.1	170	6.8	164	6.6	158	5.8	139
138	5.0	8.2	198	8.0	191	7.7	184	7.4	177	7.1	171	6.9	165	6.6	159	5.8	140
139	5.0	8.3	199	8.0	192	7.7	185	7.4	179	7.2	172	6.9	166	6.7	160	5.9	140
140	5.1	8.3	200	8.1	193	7.8	186	7.5	180	7.2	173	6.9	167	6.7	161	5.9	141
141	5.1	8.4	202	8.1	194	7.8	187	7.5	181	7.3	174	7.0	168	6.7	162	5.9	142
142	5.1	8.4	203	8.2	196	7.9	189	7.6	182	7.3	175	7.0	169	6.8	163	6.0	143
143	5.2	8.5	204	8.2	197	7.9	190	7.6	183	7.3	176	7.1	170	6.8	164	6.0	144
144	5.2	8.6	205	8.2	198	7.9	191	7.7	184	7.4	177	7.1	171	6.9	165	6.0	145
145	5.2	8.6	206	8.3	199	8.0	192	7.7	185	7.4	178	7.2	172	6.9	165	6.1	146
146	5.3	8.7	208	8.3	200	8.0	193	7.8	186	7.5	179	7.2	173	6.9	166	6.1	146
147	5.3	8.7	209	8.4	201	8.1	194	7.8	187	7.5	180	7.2	174	7.0	167	6.1	147
148	5.3	8.8	210	8.4	203	8.1	195	7.8	188	7.6	181	7.3	175	7.0	168	6.2	148
149	5.4	8.8	211	8.5	204	8.2	196	7.9	189	7.6	182	7.3	176	7.1	169	6.2	149
150	5.4	8.9	212	8.5	205	8.2	197	7.9	190	7.6	183	7.4	177	7.1	170	6.2	150
151	5.4	8.9	214	8.6	206	8.3	199	8.0	191	7.7	184	7.4	178	7.1	171	6.3	151
152	5.5	9.0	215	8.6	207	8.3	200	8.0	193	7.7	186	7.4	179	7.2	172	6.3	151
153	5.5	9.0	216	8.7	208	8.4	201	8.1	194	7.8	187	7.5	180	7.2	173	6.3	152
154	5.6	9.1	217	8.7	209	8.4	202	8.1	195	7.8	188	7.5	181	7.3	174	6.4	153
155	5.6	9.1	218	8.8	211	8.5	203	8.2	196	7.9	189	7.6	182	7.3	175	6.4	154
156	5.6	9.2	220	8.8	212	8.5	204	8.2	197	7.9	190	7.6	183	7.3	176	6.5	155
157	5.7	9.2	221	8.9	213	8.6	205	8.2	198	7.9	191	7.7	184	7.4	177	6.5	156
158	5.7	9.3	222	8.9	214	8.6	206	8.3	199	8.0	192	7.7	185	7.4	178	6.5	157
159	5.7	9.3	223	9.0	215	8.6	208	8.3	200	8.0	193	7.7	186	7.5	179	6.6	157
160	5.8	9.4	224	9.0	216	8.7	209	8.4	201	8.1	194	7.8	187	7.5	180	6.6	158
161	5.8	9.4	226	9.1	218	8.7	210	8.4	202	8.1	195	7.8	188	7.5	181	6.6	159
162	5.8	9.5	227	9.1	219	8.8	211	8.5	203	8.2	196	7.9	189	7.6	182	6.7	160
163	5.9	9.5	228	9.2	220	8.8	212	8.5	204	8.2	197	7.9	190	7.6	183	6.7	161
164	5.9	9.6	229	9.2	221	8.9	213	8.6	205	8.2	198	7.9	191	7.7	184	6.7	162
165	6.0	9.6	230	9.3	222	8.9	214	8.6	207	8.3	199	8.0	192	7.7	185	6.8	162
166	6.0	9.7	232	9.3	223	9.0	215	8.7	208	8.3	200	8.0	193	7.7	186	6.8	163
167	6.0	9.7	233	9.4	225	9.0	216	8.7	209	8.4	201	8.1	194	7.8	187	6.8	164
168	6.1	9.8	234	9.4	226	9.1	218	8.7	210	8.4	202	8.1	195	7.8	188	6.9	165

Note: Flow rates were compiled using limited data obtained at sea level. You may experience greater or lesser flow rates in your particular application. Sawyer does not warranty that your filter will flow to these exact numbers.

## What can I expect as a flow rate from my PointZERO Two Purifier™ (Metric)

### Liters per Hour

	Sea Level	1,220 M	2,135 M
<b>Full to Empty Bucket</b>			
19 Liter Bucket			
<u>91 CM Hose</u>	<u>13.7</u>	<u>11.8</u>	<u>9.6</u>
208 Liter Drum			
<u>91 CM Hose</u>	<u>16.3</u>	<u>14.1</u>	<u>11.5</u>
<b>Constantly Full</b>			
19 Liter Bucket			
<u>91 CM Hose</u>	<u>14.8</u>	<u>12.7</u>	<u>10.4</u>
208 Liter Drum			
<u>91 CM Hose</u>	<u>20.1</u>	<u>17.3</u>	<u>14.1</u>

### Liters per Day

	Sea Level	1,220 M	2,135 M
<b>Full to Empty Bucket</b>			
19 Liter Bucket			
<u>91 CM Hose</u>	<u>327</u>	<u>283</u>	<u>231</u>
208 Liter Drum			
<u>91 CM Hose</u>	<u>391</u>	<u>338</u>	<u>276</u>
<b>Constantly Full</b>			
19 Liter Bucket			
<u>91 CM Hose</u>	<u>354</u>	<u>306</u>	<u>250</u>
208 Liter Drum			
<u>91 CM Hose</u>	<u>482</u>	<u>416</u>	<u>340</u>

## What can you expect as a flow rate from your PointZERO Two Purifier?

The flow rate of a filter is determined by a combination of:

- Head Pressure (the distance from the top of the water to the filter).
- Altitude
- How clean the filter is.
- The filter itself (there are slight variations between filters).

**To get an approximation of what to expect, use the following method of calculation:**

A) Measure the distance from the top of the water to the filter. This is your initial Head Pressure

For a 19 liter bucket with a 91 CM hose it should be about 127 CM.

For a 208 liter drum with a 91 CM hose it should be about 198 CM.

**B)** If the container is always full, the Head Pressure remains constant. In this case the distance calculation in section A (above) can be used directly on the chart below. If, however, you allow the quantity of water in the bucket to decrease (as you draw water out through the filter), then you will need a second piece of information. You will need to know the distance from the exit fitting (where the water leaves the vessel) to the filter. For a 91 CM hose it is 97 CM. This is your lowest Head Pressure.

C) Go to the flow chart to find the estimated flow rate for a full bucket at your approximate altitude. To do so you will need the initial Head Pressure determined in Section A (above). If you determined in Section B (above) that your container is always full, then this flow rate represents the approximate number of gallons per hour and gallons per day that your filter can output. If you calculated the lowest Head Pressure in section B (above), you will also need to find this flow rate on the chart. To find your average flow rate, add the initial flow rate to the lowest flow rate and divide by two.

**Here are some examples:**

*Example One:* You have a 19 liter bucket, 91 CM connecting tube, and you are filtering at sea level. Your water level is 30 CM above the exit fitment. So you add 30 for the bucket, 91 for the tube between the bucket and quick disconnect, and 6 for the tube between the quick disconnect and the filter. You get 127 CM. The chart says you can expect 14.8 liters per hour / 354 liters per day. You then look up the flow rate for when the bucket is empty. In this case, the distance from the filter to the connector is 97 CM. The chart says you can expect 12.5 liters hour / 300 liters per day. You now have to average the numbers:  $14.8 \text{ liters} + 12.5 \text{ liters} = 27.3 \text{ liters}$ . Divide this by 2 and you get 13.7 liters per hour average.  $354 + 300 = 654$ .  $654/2 = 327$  liters per day average.

*Example Two:* Same as example one, but now you are filtering at 1,220 M elevation. At 1,220 M you would expect 12.7 liters per hour / 306 liters per day initially and at the end you would expect 10.8 liters per hour / 259 liters per day. When you average them it would be 11.8 liters per hour average / 283 liters per day average.

*Example Three:* You are filtering at Sea Level, with a 208 liter drum and have a 91 CM connecting tube. You would expect 20.1 liters per hour / 482 liters per day initially and at the end you would expect 12.5 liters per hour / 300 liters per day. When you average them it would be 16.3 liters per hour average / 391 liters per day average.

*Example Four:* You are at 2,135 M, with a 208 liter drum and have a 91 CM connecting tube. You would expect 14.1 liters per hour / 340 liters per day initially and at the end you would expect 8.8 liters per hour / 211 liters per day. When you average them it would be 11.5 liters per hour average / 276 liters per day average.



### PointZERO TWO Purifer™ Flow Rates (Metric)

CM of Head Pressure	Kilopod	Liters per Hour	Liters per Day	Sea Level	305 M	610 M	915 M	1220 M	1525 M	1830 M	2135 M	
97	0.62	12.5	300		12.0	289	11.6	279	10.8	259	8.8	211
216	1.39	21.4	513		20.6	495	19.9	477	17.8	427	15.1	362
218	1.41	21.6	518		20.8	499	20.1	481	18.0	431	15.2	365
221	1.42	21.8	522		21.0	504	20.2	486	18.1	435	15.3	368
224	1.44	22.0	527		21.2	508	20.4	490	18.3	439	15.5	372
226	1.46	22.1	531		21.4	513	20.6	494	18.4	442	15.6	375
229	1.47	22.3	536		21.5	517	20.8	498	18.6	446	15.8	378
231	1.49	22.5	541		21.7	521	20.9	485	18.7	450	15.9	381
234	1.51	22.7	545		21.9	526	21.1	507	18.9	454	16.0	384
236	1.52	22.9	550		22.1	530	21.3	511	19.1	457	16.2	388
239	1.54	23.1	554		22.3	535	21.5	515	19.2	461	16.3	391
241	1.55	23.3	559		22.5	539	21.6	520	19.4	465	16.4	394
244	1.57	23.5	563		22.6	543	21.8	524	19.5	469	16.6	397
246	1.59	23.7	568		22.8	548	22.0	528	19.7	473	16.7	400
249	1.60	23.8	572		23.0	552	22.2	532	19.8	476	16.8	404
251	1.62	24.0	577		23.2	556	22.4	536	20.0	480	17.0	407
254	1.64	24.2	581		23.4	561	22.5	541	20.2	484	17.1	410
257	1.65	24.4	586		23.5	565	22.7	545	20.3	488	17.2	413
259	1.67	24.6	591		23.7	570	22.9	549	20.5	491	17.4	416
262	1.69	24.8	595		23.9	574	23.1	553	20.6	495	17.5	420
264	1.70	25.0	600		24.1	578	23.2	558	20.8	499	17.6	423
267	1.72	25.2	604		24.3	583	23.4	562	20.9	503	17.8	426
269	1.73	25.4	609		24.5	587	23.6	566	21.1	507	17.9	429
272	1.75	25.6	613		24.6	591	23.8	570	21.3	510	18.0	432
274	1.77	25.7	618		24.8	596	23.9	574	21.4	514	18.2	436
277	1.78	25.9	622		25.0	600	24.1	579	21.6	518	18.3	439
279	1.80	26.1	627		25.2	605	24.3	583	21.7	522	18.4	442
282	1.82	26.3	631		25.4	609	24.5	587	21.9	525	18.6	445
284	1.83	26.5	636		25.6	613	24.6	591	22.1	529	18.7	448
287	1.85	26.7	640		25.7	617	24.7	595	22.2	533	18.8	452
290	1.87	26.9	645		25.9	622	24.9	599	22.4	537	19.0	455
292	1.88	27.1	650		26.1	627	25.1	603	22.5	541	19.1	458
295	1.90	27.3	654		26.3	631	25.3	608	22.7	544	19.2	461
297	1.91	27.3	654		26.3	631	25.3	608	22.7	544	19.2	461
300	1.93	27.4	659		26.5	635	25.5	612	22.8	548	19.4	464
302	1.95	27.6	663		26.7	640	25.7	617	23.0	552	19.5	468
305	1.96	27.8	668		26.8	644	25.9	621	23.2	556	19.6	471
307	1.98	28.0	672		27.0	648	26.0	625	23.3	559	19.8	474
310	2.00	28.2	677		27.2	653	26.2	629	23.4	561	19.9	477
312	2.01	28.4	681		27.4	657	26.4	634	23.5	565	20.0	481
315	2.03	28.6	686		27.6	662	26.6	638	23.7	569	20.2	484
318	2.05	28.8	690		27.7	666	26.7	642	23.9	573	20.3	487
320	2.06	29.0	695		27.9	670	26.9	646	24.0	577	20.4	490
323	2.08	29.1	700		28.1	675	27.1	650	24.1	581	20.6	493
325	2.09	29.3	704		28.3	679	27.3	655	24.2	585	20.7	497
328	2.11	29.5	709		28.5	683	27.5	659	24.3	589	20.8	500
330	2.13	29.7	713		28.7	688	27.6	663	24.4	593	21.0	503
333	2.14	29.9	718		28.8	692	27.8	667	24.5	597	21.1	506
335	2.16	30.1	722		29.0	697	28.0	672	24.6	601	21.2	509

**PointZERO TWO Purifer™ Flow Rates (Metric)**

CM of Head Pressure	Kilopod
97	0.62
338	2.18
340	2.19
343	2.21
345	2.23
348	2.24
351	2.26
353	2.28
356	2.29
358	2.31
361	2.32
363	2.34
366	2.36
368	2.37
371	2.39
373	2.41
376	2.42
378	2.44
381	2.46
384	2.47
386	2.49
389	2.50
391	2.52
394	2.54
396	2.55
399	2.57
401	2.59
404	2.60
406	2.62
409	2.64
411	2.65
414	2.67
417	2.68
419	2.70
422	2.72
424	2.73
427	2.75

Liters per Hour	Liters per Day
Sea Level	
12.5	300
30.3	727
30.5	731
30.7	736
30.9	740
31.0	745
31.2	750
31.4	754
31.6	759
31.8	763
32.0	768
32.2	772
32.4	777
32.6	781
32.7	786
32.9	790
33.1	795
33.3	799
33.5	804
33.7	809
33.9	813
34.1	818
34.3	822
34.4	827
34.6	831
34.8	836
35.0	840
35.2	845
35.4	849
35.6	854
35.8	859
36.0	863
36.2	868
36.3	872
36.5	877
36.7	881
36.9	886

Liters per Hour	Liters per Day
305 M	
12.0	289
29.2	701
29.4	705
29.6	710
29.8	714
29.9	719
30.1	723
30.3	727
30.5	732
30.7	736
30.9	740
31.0	745
31.2	749
31.4	754
31.6	758
31.8	762
31.9	767
32.1	771
32.3	775
32.5	780
32.7	784
32.9	789
33.0	793
33.2	797
33.4	802
33.6	806
33.8	811
34.0	815
34.1	819
34.3	824
34.5	828
34.7	832
34.9	837
35.0	841
35.2	846
35.4	850
35.6	854

Liters per Hour	Liters per Day
610 M	
11.6	279
28.2	676
28.3	680
28.5	684
28.7	688
28.9	693
29.0	697
29.2	701
29.4	705
29.6	710
29.7	714
29.9	718
30.1	722
30.3	726
30.4	731
30.6	735
30.8	739
31.0	743
31.1	748
31.3	752
31.5	756
31.7	760
31.9	764
32.0	769
32.2	773
32.4	777
32.6	781
32.7	786
32.9	790
33.1	794
33.3	798
33.4	802
33.6	807
33.8	811
34.0	815
34.1	819
34.3	824

Liters per Hour	Liters per Day
915 M	
11.2	269
27.1	651
27.3	656
27.5	660
27.7	664
27.8	668
28.0	672
28.2	676
28.3	680
28.5	684
28.7	688
28.8	692
29.0	696
29.2	700
29.4	704
29.5	709
29.7	713
29.9	717
30.0	721
30.2	725
30.4	729
30.5	733
30.7	737
30.9	741
31.0	745
31.2	749
31.4	753
31.6	757
31.7	761
31.9	766
32.1	770
32.2	774
32.4	778
32.6	782
32.7	786
32.9	790
33.1	794

Liters per Hour	Liters per Day
1220 M	
10.8	259
26.2	628
26.3	632
26.5	636
26.6	639
26.8	643
27.0	647
27.1	651
27.3	655
27.5	659
27.6	663
27.8	667
28.0	671
28.1	675
28.3	679
28.4	683
28.6	687
28.8	690
28.9	694
29.1	698
29.3	702
29.4	706
29.6	710
29.7	714
29.9	718
30.1	722
30.2	726
30.4	730
30.6	734
30.7	738
30.9	741
31.1	745
31.2	749
31.4	753
31.5	757
31.7	761
31.9	765

Liters per Hour	Liters per Day
1525 M	
10.4	250
25.2	605
25.4	609
25.5	612
25.7	616
25.8	620
26.0	624
26.1	628
26.3	631
26.5	635
26.6	639
26.8	643
26.9	646
27.1	650
27.3	654
27.4	658
27.6	662
27.7	665
27.9	669
28.0	673
28.2	677
28.4	680
28.5	684
28.7	688
28.8	692
29.0	696
29.1	699
29.3	703
29.4	707
29.6	711
29.8	714
29.9	718
30.1	722
30.2	726
30.4	730
30.6	733
30.7	737

Liters per Hour	Liters per Day
1830 M	
10.0	240
24.3	583
24.4	586
24.6	590
24.7	594
24.9	597
25.0	601
25.2	605
25.3	608
25.5	612
25.6	616
25.8	619
26.0	623
26.1	626
26.3	630
26.4	634
26.6	637
26.7	641
26.9	645
27.0	648
27.2	652
27.3	656
27.5	659
27.6	663
27.8	667
27.9	670
28.1	674
28.2	677
28.4	681
28.5	685
28.7	688
28.8	692
29.0	696
29.1	699
29.3	703
29.4	707
29.6	710

Liters per Hour	Liters per Day
2135 M	
8.8	211
21.4	513
21.5	516
21.6	519
21.8	522
21.9	525
22.0	529
22.2	532
22.3	535
22.4	538
22.6	541
22.7	545
22.8	548
23.0	551
23.1	554
23.2	557
23.4	561
23.5	564
23.6	567
23.8	570
23.9	573
24.0	577
24.2	580
24.3	583
24.4	586
24.6	589
24.7	593
24.8	596
25.0	599
25.1	602
25.2	605
25.4	609
25.5	612
25.6	615
25.8	618
25.9	621
26.0	625

Note: Flow rates were compiled using limited data obtained at sea level. You may experience greater or lesser flow rates in your particular application. Sawyer does not warranty that your filter will flow to these exact numbers.