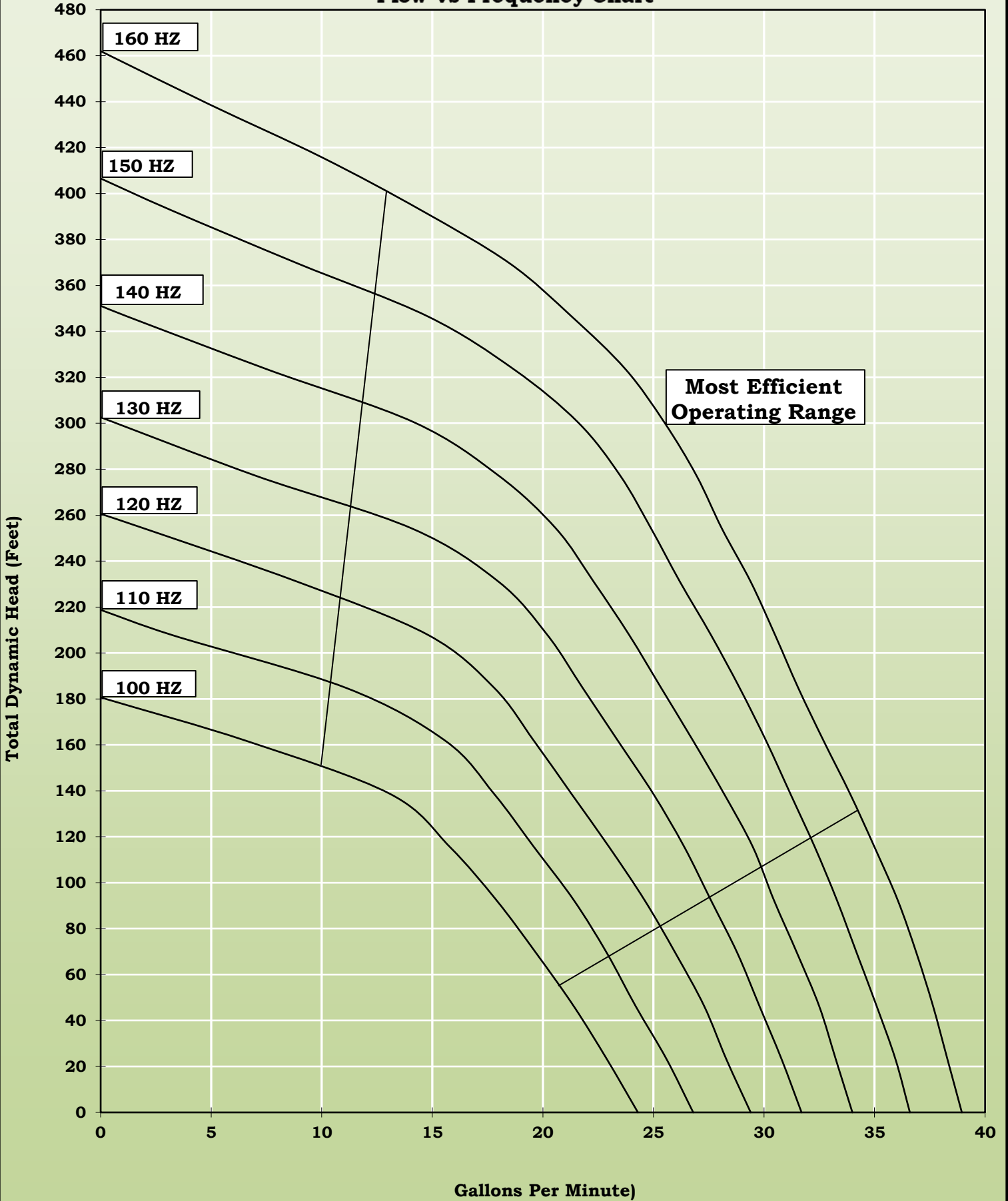


# SunPumps Centrifugal Submersible Model HS 22-308 AC/DC

## Flow vs Frequency Chart



## SunPumps Centrifugal Submersible Model HS 22-308 AC/DC

### 160 HZ

PSI	TDH Feet	TDH Meters	Motor Volts	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	260	10.78	39.0	147.4	2803	3504	0%
10	23	7.0	260	11.21	38.3	145.0	2915	3643	6%
20	46	14.1	260	11.51	37.7	142.5	2993	3741	11%
30	69	21.1	260	11.70	36.9	139.7	3042	3803	16%
40	92	28.2	260	11.80	36.1	136.4	3068	3835	20%
50	116	35.2	260	11.85	35.0	132.5	3081	3851	25%
60	139	42.3	260	11.85	33.9	128.3	3081	3851	29%
70	162	49.3	260	11.85	32.7	123.8	3081	3851	32%
80	185	56.3	260	11.85	31.6	119.4	3081	3851	36%
90	208	63.4	260	11.85	30.5	115.4	3081	3851	39%
100	231	70.4	260	11.85	29.4	111.3	3081	3851	42%
110	254	77.5	260	11.85	28.1	106.4	3081	3851	44%
120	277	84.5	260	11.85	27.0	102.0	3081	3851	46%
130	300	91.6	260	11.85	25.5	96.5	3081	3851	47%
140	323	98.6	260	11.85	23.8	89.9	3081	3851	47%
150	347	105.6	260	11.80	21.3	80.6	3068	3835	45%
160	370	112.7	260	11.72	18.5	70.0	3047	3809	42%
170	393	119.7	260	10.87	14.5	54.9	2826	3533	38%
180	416	126.8	260	8.88	10.0	37.9	2309	2886	34%
190	439	133.8	260	7.45	4.9	18.5	1937	2421	21%
200	462	140.9	260	5.23	0.0	0.0	1360	1700	0%

\* Array Watts using a 20% deration factor.

### 150 HZ

PSI	TDH Feet	TDH Meters	Motor Volts	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	260	9.16	36.6	138.5	2382	2977	0%
10	23	7.0	260	9.47	36.0	136.1	2462	3078	6%
20	46	14.1	260	9.64	35.1	132.9	2506	3133	12%
30	69	21.1	260	9.77	34.2	129.4	2540	3175	18%
40	92	28.2	260	9.91	33.3	126.0	2577	3221	22%
50	116	35.2	260	10.11	32.3	122.3	2629	3286	27%
60	139	42.3	260	10.26	31.2	118.1	2668	3335	31%
70	162	49.3	260	10.39	30.1	113.9	2701	3377	34%
80	185	56.3	260	10.48	28.9	109.4	2725	3406	37%
90	208	63.4	260	10.52	27.6	104.5	2735	3419	40%
100	231	70.4	260	10.52	26.2	99.2	2735	3419	42%
110	254	77.5	260	10.56	24.9	94.2	2746	3432	43%
120	277	84.5	260	10.58	23.5	88.9	2751	3439	45%
130	300	91.6	260	10.45	21.6	81.8	2717	3396	45%
140	323	98.6	260	9.98	18.7	70.8	2595	3244	44%
150	347	105.6	260	9.04	14.8	56.0	2350	2938	41%
160	370	112.7	260	6.45	8.9	33.7	1677	2096	37%
170	393	119.7	260	5.40	3.2	12.1	1404	1755	17%
176	407	124.0	260	4.42	0.0	0.0	1149	1437	0%

\* Array Watts using a 20% deration factor.

### 140 HZ

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	260	7.62	34.00	128.7	1981	2477	0%
10	23	7.0	260	7.83	33.25	125.9	2036	2545	7%
20	46	14.1	260	7.99	32.50	123.0	2077	2597	14%
30	69	21.1	260	8.11	31.50	119.2	2109	2636	20%
40	92	28.2	260	8.25	30.45	115.3	2145	2681	25%
50	116	35.2	260	8.43	29.50	111.7	2192	2740	29%
60	139	42.3	260	8.55	28.20	106.7	2223	2779	33%
70	162	49.3	260	8.63	26.80	101.4	2244	2805	36%
80	185	56.3	260	8.67	25.35	95.9	2254	2818	39%
90	208	63.4	260	8.68	23.90	90.5	2257	2821	41%
100	231	70.4	260	8.73	22.30	84.4	2270	2837	43%
110	254	77.5	260	8.67	20.60	78.0	2254	2818	44%
120	277	84.5	260	8.32	18.00	68.1	2163	2704	43%
130	300	91.6	260	7.55	14.20	53.7	1963	2454	41%
140	323	98.6	260	5.74	7.55	28.6	1492	1866	31%
150	347	105.6	260	4.26	1.20	4.5	1108	1385	7%
152	351	107.0	260	3.10	0.00	0.0	806	1008	0%

\* Array Watts using a 20% deration factor.

### 130 HZ

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	260	6.24	31.70	120.0	1622	2028	0%
10	23	7.0	260	6.40	30.80	116.6	1664	2080	8%
20	46	14.1	260	6.53	29.80	112.8	1698	2122	15%
30	69	21.1	260	6.65	28.80	109.0	1729	2161	22%
40	92	28.2	260	6.82	27.60	104.5	1773	2217	27%
50	116	35.2	260	6.94	26.40	99.9	1804	2256	32%
60	139	42.3	260	7.02	25.00	94.6	1825	2282	36%
70	162	49.3	260	7.05	23.40	88.6	1833	2291	39%
80	185	56.3	260	7.07	21.80	82.5	1838	2298	41%
90	208	63.4	260	7.08	20.20	76.5	1841	2301	43%
100	231	70.4	260	6.93	18.00	68.1	1802	2252	43%
110	254	77.5	260	6.31	14.10	53.4	1641	2051	41%
120	277	84.5	260	4.79	7.00	26.5	1245	1557	29%
131	303	92.3	260	3.40	0.00	0.0	884	1105	0%

\* Array Watts using a 20% deration factor.

### 120 HZ

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	260	5.05	29.40	111.3	1313	1641	0%
10	23	7.0	260	5.17	28.30	107.1	1344	1680	9%
20	46	14.1	260	5.30	27.30	103.3	1378	1723	17%
30	69	21.1	260	5.45	26.00	98.4	1417	1771	24%
40	92	28.2	260	5.56	24.60	93.1	1446	1807	30%
50	116	35.2	260	5.65	23.00	87.1	1469	1836	34%
60	139	42.3	260	5.68	21.30	80.6	1477	1846	38%
70	162	49.3	260	5.70	19.60	74.2	1482	1853	40%
80	185	56.3	260	5.67	17.80	67.4	1474	1843	42%
90	208	63.4	260	5.36	14.80	56.0	1394	1742	42%
100	231	70.4	260	4.39	8.90	33.7	1141	1427	34%
110	254	77.5	260	3.01	2.00	7.6	783	978	12%
113	261	79.4	260	2.50	0.00	0.0	650	813	0%

\* Array Watts using a 20% deration factor.

### 110 HZ

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	260	4.03	26.80	101.4	1048	1310	0%
10	23	7.0	260	4.12	25.60	96.9	1071	1339	10%
20	46	14.1	260	4.23	24.20	91.6	1100	1375	19%
30	69	21.1	260	4.36	22.90	86.7	1134	1417	26%
40	92	28.2	260	4.45	21.40	81.0	1157	1446	32%
50	116	35.2	260	4.49	19.60	74.2	1167	1459	37%
60	139	42.3	260	4.50	17.80	67.4	1170	1463	40%
70	162	49.3	260	4.44	15.60	59.0	1154	1443	41%
80	185	56.3	260	3.97	11.10	42.0	1032	1290	37%
90	208	63.4	260	2.73	3.20	12.1	710	887	18%
95	219	66.7	260	2.26	0.00	0.0	588	735	0%

\* Array Watts using a 20% deration factor.