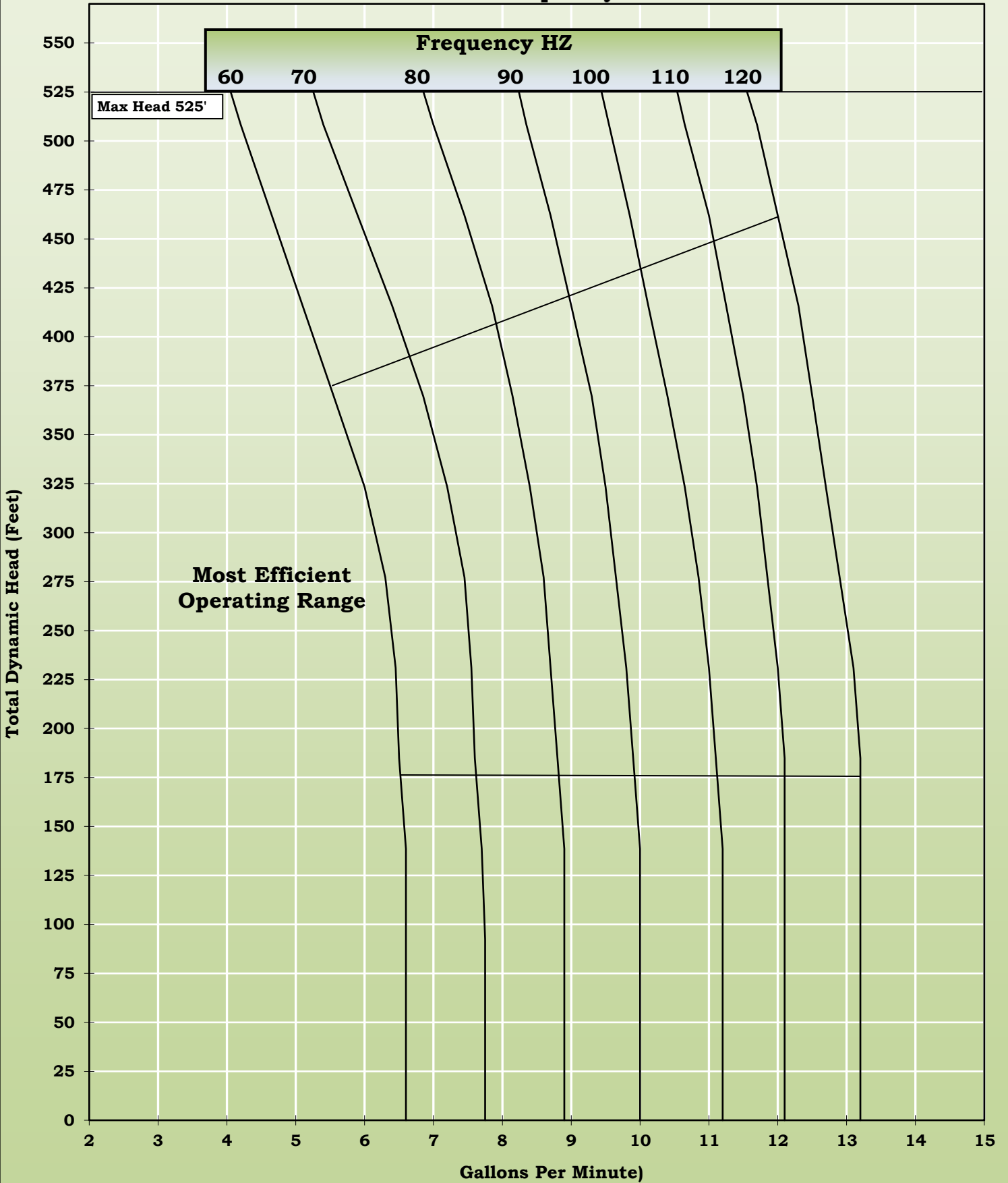


# SunPumps Helical Rotor Submersible Model HR 10-525 AC/DC

## Flow vs Frequency Chart



**SunPumps Helical Rotor Submersible  
Model HR 10-525 AC/DC**

**120 HZ**

PSI	TDH Feet	TDH Meters	Motor Volts	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	180	3.10	13.20	50.0	558	698	0%
20	46	14.1	180	3.65	13.20	50.0	657	821	17%
40	92	28.2	180	4.20	13.20	50.0	756	945	30%
60	139	42.3	180	4.76	13.20	50.0	857	1071	40%
80	185	56.3	180	5.35	13.20	50.0	963	1204	48%
100	231	70.4	180	5.96	13.10	49.6	1073	1341	53%
120	277	84.5	180	6.58	12.90	48.8	1184	1481	57%
140	323	98.6	180	7.25	12.70	48.1	1305	1631	59%
160	370	112.7	180	7.96	12.50	47.3	1433	1791	61%
180	416	126.8	180	8.70	12.30	46.6	1566	1958	62%
200	462	140.9	180	9.42	12.00	45.4	1696	2120	62%
220	508	154.9	180	10.15	11.70	44.3	1827	2284	61%
230	531	162.0	180	10.54	11.50	43.5	1897	2372	61%

\* Array Watts using a 20% deration factor.

**110 HZ**

PSI	TDH Feet	TDH Meters	Motor Volts	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	180	2.33	12.10	45.8	419	524	0%
20	46	14.1	180	2.85	12.10	45.8	513	641	21%
40	92	28.2	180	3.42	12.10	45.8	616	770	34%
60	139	42.3	180	4.01	12.10	45.8	722	902	44%
80	185	56.3	180	4.63	12.10	45.8	833	1042	51%
100	231	70.4	180	5.25	12.00	45.4	945	1181	55%
120	277	84.5	180	5.90	11.85	44.9	1062	1328	58%
140	323	98.6	180	6.56	11.70	44.3	1181	1476	60%
160	370	112.7	180	7.23	11.50	43.5	1301	1627	62%
180	416	126.8	180	7.93	11.25	42.6	1427	1784	62%
200	462	140.9	180	8.62	11.00	41.6	1552	1940	62%
220	508	154.9	180	9.28	10.65	40.3	1670	2088	61%
230	531	162.0	180	9.63	10.50	39.7	1733	2167	61%

\* Array Watts using a 20% deration factor.

**100 HZ**

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	180	2.07	11.20	42.4	373	466	0%
20	46	14.1	180	2.51	11.20	42.4	452	565	22%
40	92	28.2	180	2.96	11.20	42.4	533	666	37%
60	139	42.3	180	3.49	11.20	42.4	628	785	47%
80	185	56.3	180	4.04	11.10	42.0	727	909	53%
100	231	70.4	180	4.62	11.00	41.6	832	1040	58%
120	277	84.5	180	5.22	10.85	41.1	940	1175	60%
140	323	98.6	180	5.82	10.65	40.3	1048	1310	62%
160	370	112.7	180	6.45	10.40	39.4	1161	1451	62%
180	416	126.8	180	7.07	10.12	38.3	1273	1591	62%
200	462	140.9	180	7.69	9.85	37.3	1384	1730	62%
220	508	154.9	180	8.35	9.55	36.1	1503	1879	61%
230	531	162.0	180	8.68	9.40	35.6	1562	1953	60%

\* Array Watts using a 20% deration factor.

**90 HZ**

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	180	1.71	10.00	37.9	308	385	0%
20	46	14.1	180	2.15	10.00	37.9	387	484	22%
40	92	28.2	180	2.61	10.00	37.9	470	587	37%
60	139	42.3	180	3.07	10.00	37.9	553	691	47%
80	185	56.3	180	3.58	9.90	37.5	644	806	53%
100	231	70.4	180	4.10	9.80	37.1	738	923	58%
120	277	84.5	180	4.64	9.65	36.5	835	1044	60%
140	323	98.6	180	5.21	9.50	36.0	938	1172	62%
160	370	112.7	180	5.76	9.30	35.2	1037	1296	62%
180	416	126.8	180	6.33	9.00	34.1	1139	1424	62%
200	462	140.9	180	6.94	8.70	32.9	1249	1562	61%
220	508	154.9	180	7.52	8.35	31.6	1354	1692	59%
230	531	162.0	180	7.82	8.20	31.0	1408	1760	58%

\* Array Watts using a 20% deration factor.

**80 HZ**

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	180	1.45	8.90	33.7	261	326	0%
20	46	14.1	180	1.84	8.90	33.7	331	414	23%
40	92	28.2	180	2.24	8.90	33.7	403	504	38%
60	139	42.3	180	2.62	8.90	33.7	472	590	49%
80	185	56.3	180	3.06	8.80	33.3	551	689	56%
100	231	70.4	180	3.54	8.70	32.9	637	797	59%
120	277	84.5	180	4.02	8.60	32.6	724	905	62%
140	323	98.6	180	4.51	8.40	31.8	812	1015	63%
160	370	112.7	180	5.02	8.15	30.8	904	1130	63%
180	416	126.8	180	5.57	7.85	29.7	1003	1253	61%
200	462	140.9	180	6.08	7.45	28.2	1094	1368	59%
220	508	154.9	180	6.56	7.00	26.5	1181	1476	57%
230	531	162.0	180	6.89	6.80	25.7	1240	1550	55%

\* Array Watts using a 20% deration factor.

**70 HZ**

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	180	1.27	7.75	29.3	229	286	0%
20	46	14.1	180	1.58	7.75	29.3	284	356	24%
40	92	28.2	180	1.96	7.75	29.3	353	441	38%
60	139	42.3	180	2.28	7.70	29.1	410	513	49%
80	185	56.3	180	2.66	7.60	28.8	479	599	55%
100	231	70.4	180	3.07	7.55	28.6	553	691	59%
120	277	84.5	180	3.49	7.45	28.2	628	785	62%
140	323	98.6	180	3.95	7.20	27.3	711	889	62%
160	370	112.7	180	4.39	6.85	25.9	790	988	60%
180	416	126.8	180	4.88	6.40	24.2	878	1098	57%
200	462	140.9	180	5.34	5.90	22.3	961	1202	53%
220	508	154.9	180	5.82	5.40	20.4	1048	1310	49%
230	531	162.0	180	6.07	5.20	19.7	1093	1366	48%

\* Array Watts using a 20% deration factor.