SunPumps Brushless DC Submersible
Model SCS 20-90-120Y BL

120 Volt Panel Direct

1 HP Brushless DC Motor

120 V

105 V

90 V

75 V

Pump Design Area

Total Dynamic Head (Feet)

Gallons Per Minute
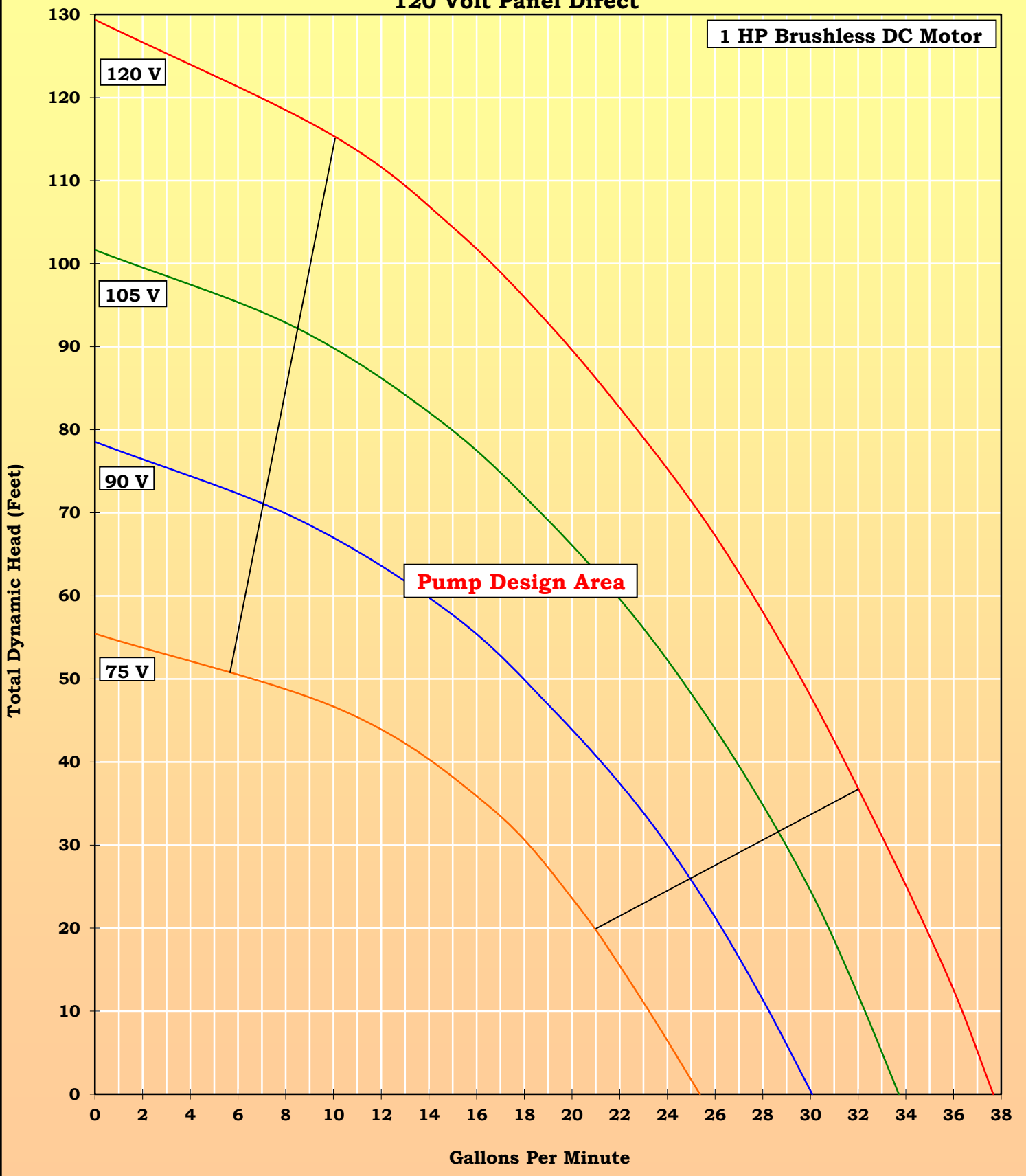
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PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array *Watts	Efficiency
0	0	0.0	75	3.74	25.4	96.0	281	351	0%
5	12	3.5	75	3.76	22.9	86.6	282	353	18%
10	23	7.0	75	3.68	20.1	76.2	276	345	32%
15	35	10.6	75	3.51	16.5	62.6	263	329	41%
20	46	14.1	75	3.06	10.4	39.3	230	287	39%
24	55	16.9	75	2.15	0.0	0.0	161	202	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array *Watts	Efficiency
0	0	0.0	90	4.7	30.1	113.9	427	533	0%
5	12	3.5	90	4.7	28.0	105.9	426	532	14%
10	23	7.0	90	4.7	25.6	96.9	423	529	26%
15	35	10.6	90	4.6	22.8	86.3	417	521	36%
20	46	14.1	90	4.4	19.2	72.8	394	493	42%
25	58	17.6	90	4.0	15.0	56.7	364	455	45%
30	69	21.1	90	3.5	8.5	32.0	311	388	36%
34	79	23.9	90	2.7	0.0	0.0	243	304	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array *Watts	Efficiency
0	0	0.0	105	5.8	33.7	127.6	607	759	0%
5	12	3.5	105	5.8	32.1	121.3	607	759	11%
10	23	7.0	105	5.8	30.3	114.5	606	757	22%
15	35	10.6	105	5.7	28.0	106.1	603	753	30%
20	46	14.1	105	5.6	25.5	96.5	590	738	38%
25	58	17.6	105	5.5	22.5	85.3	574	718	43%
30	69	21.1	105	5.2	18.9	71.7	542	677	46%
35	81	24.6	105	4.7	14.6	55.2	498	622	45%
40	92	28.2	105	4.2	8.4	31.6	436	545	33%
44	102	31.0	105	3.2	0.0	0.0	339	424	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array *Watts	Efficiency
0	0	0.0	120	6.8	37.7	142.6	821	1026	0%
5	12	3.5	120	6.9	36.2	136.8	822	1028	10%
10	23	7.0	120	6.9	34.3	130.0	823	1029	18%
15	35	10.6	120	6.8	32.4	122.6	820	1025	26%
20	46	14.1	120	6.8	30.3	114.8	810	1013	33%
25	58	17.6	120	6.7	28.1	106.2	800	1001	38%
30	69	21.1	120	6.5	25.5	96.6	780	975	43%
35	81	24.6	120	6.3	22.5	85.2	751	939	46%
40	92	28.2	120	6.0	19.1	72.4	714	893	47%
45	104	31.7	120	5.6	15.2	57.4	666	833	45%
50	116	35.2	120	5.1	9.9	37.6	606	758	36%
56	129	39.4	120	4.0	0.0	0.0	474	593	0%

* Solar Array watts using a 20% deration factor.