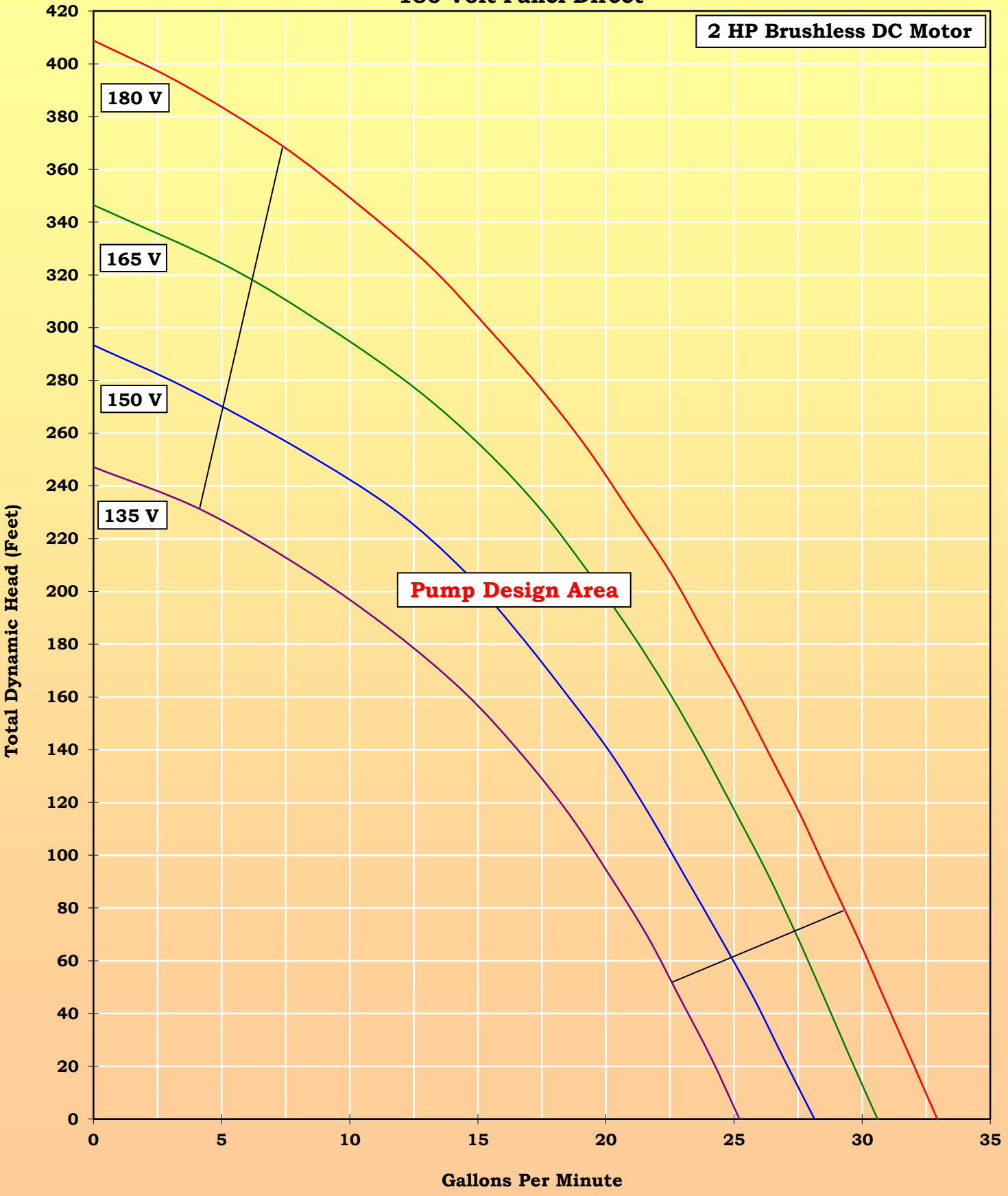


SunPumps Brushless DC Submersible Model SCS 17-280-180 BL

180 Volt Panel Direct

2 HP Brushless DC Motor



SunPumps Brushless DC Submersible Model SCS 17-280-180BL

2 HP Brushless DC Motor

180 Volt Panel Direct System

| PSI | TDH Feet | TDH Meters | Motor Voltage | Motor Amps | U.S. GPM | LPM | Motor Watts | Solar Array Watts * | System Efficiency |
|-----|----------|------------|---------------|------------|----------|------|-------------|---------------------|-------------------|
| 0 | 0 | 0.0 | 135 | 6.59 | 25.2 | 95.4 | 890 | 1112 | 0% |
| 10 | 23 | 7.0 | 135 | 6.73 | 24.1 | 91.3 | 909 | 1136 | 12% |
| 20 | 46 | 14.1 | 135 | 6.84 | 22.9 | 86.6 | 923 | 1154 | 22% |
| 30 | 69 | 21.1 | 135 | 6.99 | 21.6 | 81.8 | 944 | 1180 | 30% |
| 40 | 92 | 28.2 | 135 | 7.08 | 20.1 | 76.2 | 956 | 1195 | 37% |
| 50 | 116 | 35.2 | 135 | 7.10 | 18.6 | 70.3 | 959 | 1198 | 42% |
| 60 | 139 | 42.3 | 135 | 7.00 | 16.7 | 63.1 | 945 | 1181 | 46% |
| 70 | 162 | 49.3 | 135 | 6.76 | 14.5 | 54.8 | 913 | 1141 | 48% |
| 80 | 185 | 56.3 | 135 | 6.41 | 11.7 | 44.2 | 865 | 1082 | 47% |
| 90 | 208 | 63.4 | 135 | 5.88 | 8.3 | 31.5 | 794 | 992 | 41% |
| 100 | 231 | 70.4 | 135 | 5.04 | 4.2 | 15.9 | 680 | 851 | 27% |
| 107 | 247 | 75.4 | 135 | 4.62 | 0.0 | 0.0 | 624 | 780 | 0% |

| PSI | TDH Feet | TDH Meters | Motor Voltage | Motor Amps | U.S. GPM | LPM | Motor Watts | Solar Array Watts * | System Efficiency |
|-----|----------|------------|---------------|------------|----------|-------|-------------|---------------------|-------------------|
| 0 | 0 | 0.0 | 150 | 7.77 | 28.1 | 106.5 | 1166 | 1457 | 0% |
| 10 | 23 | 7.0 | 150 | 7.90 | 26.9 | 101.9 | 1185 | 1481 | 10% |
| 20 | 46 | 14.1 | 150 | 8.04 | 25.8 | 97.5 | 1206 | 1508 | 19% |
| 30 | 69 | 21.1 | 150 | 8.12 | 24.4 | 92.5 | 1218 | 1523 | 26% |
| 40 | 92 | 28.2 | 150 | 8.19 | 23.1 | 87.3 | 1229 | 1536 | 33% |
| 50 | 116 | 35.2 | 150 | 8.27 | 21.7 | 82.1 | 1241 | 1551 | 38% |
| 60 | 139 | 42.3 | 150 | 8.28 | 20.2 | 76.4 | 1242 | 1553 | 42% |
| 70 | 162 | 49.3 | 150 | 8.17 | 18.4 | 69.7 | 1226 | 1532 | 46% |
| 80 | 185 | 56.3 | 150 | 8.03 | 16.5 | 62.6 | 1205 | 1506 | 48% |
| 90 | 208 | 63.4 | 150 | 7.63 | 14.5 | 54.7 | 1145 | 1431 | 49% |
| 100 | 231 | 70.4 | 150 | 7.17 | 11.7 | 44.4 | 1076 | 1344 | 48% |
| 110 | 254 | 77.5 | 150 | 6.64 | 8.0 | 30.3 | 996 | 1245 | 38% |
| 120 | 277 | 84.5 | 150 | 5.93 | 3.6 | 13.7 | 890 | 1112 | 21% |
| 127 | 293 | 89.4 | 150 | 5.34 | 0.0 | 0.0 | 801 | 1001 | 0% |

| PSI | TDH Feet | TDH Meters | Motor Voltage | Motor Amps | U.S. GPM | LPM | Motor Watts | Solar Array Watts * | System Efficiency |
|-----|----------|------------|---------------|------------|----------|-------|-------------|---------------------|-------------------|
| 0 | 0 | 0.0 | 165 | 9.02 | 30.6 | 115.8 | 1488 | 1860 | 0% |
| 10 | 23 | 7.0 | 165 | 9.18 | 29.5 | 111.8 | 1515 | 1893 | 8% |
| 20 | 46 | 14.1 | 165 | 9.34 | 28.5 | 107.9 | 1541 | 1926 | 16% |
| 30 | 69 | 21.1 | 165 | 9.44 | 27.5 | 103.9 | 1558 | 1947 | 23% |
| 40 | 92 | 28.2 | 165 | 9.57 | 26.3 | 99.7 | 1579 | 1974 | 29% |
| 50 | 116 | 35.2 | 165 | 9.66 | 25.1 | 95.0 | 1594 | 1992 | 34% |
| 60 | 139 | 42.3 | 165 | 9.73 | 23.8 | 90.2 | 1605 | 2007 | 39% |
| 70 | 162 | 49.3 | 165 | 9.76 | 22.5 | 85.0 | 1610 | 2013 | 43% |
| 80 | 185 | 56.3 | 165 | 9.69 | 21.0 | 79.3 | 1599 | 1999 | 46% |
| 90 | 208 | 63.4 | 165 | 9.56 | 19.3 | 72.9 | 1577 | 1972 | 48% |
| 100 | 231 | 70.4 | 165 | 9.36 | 17.5 | 66.1 | 1544 | 1931 | 49% |
| 110 | 254 | 77.5 | 165 | 9.02 | 15.2 | 57.7 | 1488 | 1860 | 49% |
| 120 | 277 | 84.5 | 165 | 8.68 | 12.5 | 47.4 | 1432 | 1790 | 46% |
| 130 | 300 | 91.6 | 165 | 8.09 | 9.1 | 34.6 | 1335 | 1669 | 39% |
| 140 | 323 | 98.6 | 165 | 7.52 | 5.2 | 19.7 | 1241 | 1551 | 26% |
| 150 | 347 | 105.6 | 165 | 6.31 | 0.0 | 0.0 | 1041 | 1301 | 0% |

| PSI | TDH Feet | TDH Meters | Motor Voltage | Motor Amps | U.S. GPM | LPM | Motor Watts | Solar Array Watts * | System Efficiency |
|-----|----------|------------|---------------|------------|----------|-------|-------------|---------------------|-------------------|
| 0 | 0 | 0.0 | 180 | 10.14 | 32.9 | 124.6 | 1825 | 2282 | 0% |
| 10 | 23 | 7.0 | 180 | 10.30 | 31.9 | 120.7 | 1854 | 2318 | 7% |
| 20 | 46 | 14.1 | 180 | 10.43 | 30.8 | 116.7 | 1877 | 2347 | 14% |
| 30 | 69 | 21.1 | 180 | 10.54 | 29.8 | 112.8 | 1897 | 2372 | 21% |
| 40 | 92 | 28.2 | 180 | 10.67 | 28.7 | 108.6 | 1921 | 2401 | 26% |
| 50 | 116 | 35.2 | 180 | 10.75 | 27.6 | 104.4 | 1935 | 2419 | 31% |
| 60 | 139 | 42.3 | 180 | 10.83 | 26.4 | 99.8 | 1949 | 2437 | 35% |
| 70 | 162 | 49.3 | 180 | 10.88 | 25.1 | 95.2 | 1958 | 2448 | 39% |
| 80 | 185 | 56.3 | 180 | 10.88 | 23.8 | 90.1 | 1958 | 2448 | 42% |
| 90 | 208 | 63.4 | 180 | 10.82 | 22.5 | 85.0 | 1948 | 2435 | 45% |
| 100 | 231 | 70.4 | 180 | 10.70 | 20.9 | 79.0 | 1926 | 2408 | 47% |
| 110 | 254 | 77.5 | 180 | 10.49 | 19.3 | 73.0 | 1888 | 2360 | 49% |
| 120 | 277 | 84.5 | 180 | 10.28 | 17.4 | 66.0 | 1850 | 2313 | 49% |
| 130 | 300 | 91.6 | 180 | 9.76 | 15.4 | 58.1 | 1757 | 2196 | 49% |
| 140 | 323 | 98.6 | 180 | 9.39 | 13.1 | 49.7 | 1690 | 2113 | 47% |
| 150 | 347 | 105.6 | 180 | 8.90 | 10.4 | 39.2 | 1602 | 2003 | 42% |
| 160 | 370 | 112.7 | 180 | 8.41 | 7.3 | 27.5 | 1514 | 1892 | 33% |
| 170 | 393 | 119.7 | 180 | 7.62 | 3.4 | 12.9 | 1372 | 1715 | 18% |
| 177 | 409 | 124.7 | 180 | 7.08 | 0.0 | 0.0 | 1274 | 1593 | 0% |

* Solar array watts using a 20% deration factor.