

**MODEL
BB500BRDSBPA**

160 GPM - Entering Air @ 70% Relative Humidity

| Entering Water Temperature: 50 ^{oF} | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|-------------------|
| Outside Air Temp. | 50 ^{oF} | 60 ^{oF} | 70 ^{oF} | 80 ^{oF} | 90 ^{oF} | 100 ^{oF} |
| Suction Pressure | 83.22 | 104.28 | 125.33 | 138.44 | 151.55 | 164.66 |
| Discharge Pressure | 226.58 | 241.66 | 256.74 | 265.89 | 275.04 | 284.19 |
| Pool Water Delta T | 3.20 | 4.00 | 4.80 | 5.22 | 5.65 | 6.08 |
| B Voltage Amperage (Unit) | 74.21 | 78.41 | 82.60 | 83.40 | 84.20 | 85.00 |
| B Voltage Amperage (Comp) | 26.61 | 28.70 | 30.80 | 31.20 | 31.60 | 32.00 |
| G Voltage Amperage (Unit) | 37.48 | 39.60 | 41.72 | 42.12 | 42.53 | 42.93 |
| G Voltage Amperage (Comp) | 13.44 | 14.50 | 15.56 | 15.76 | 15.96 | 16.16 |
| Superheat | 5.0 | 4.9 | 6.2 | 14.0 | 22.2 | 30.7 |
| Sub Cooling | 11.4 | 12.7 | 13.8 | 17.1 | 20.3 | 23.5 |
| Entering Water Temperature: 60 ^{oF} | | | | | | |
| Outside Air Temp. | 50 ^{oF} | 60 ^{oF} | 70 ^{oF} | 80 ^{oF} | 90 ^{oF} | 100 ^{oF} |
| Suction Pressure | 85.24 | 106.44 | 127.65 | 143.45 | 159.26 | 175.06 |
| Discharge Pressure | 258.96 | 274.76 | 290.57 | 301.03 | 311.50 | 321.96 |
| Pool Water Delta T | 3.08 | 3.86 | 4.65 | 5.13 | 5.60 | 6.07 |
| B Voltage Amperage (Unit) | 77.91 | 81.40 | 84.90 | 86.25 | 87.60 | 88.95 |
| B Voltage Amperage (Comp) | 28.45 | 30.20 | 31.95 | 32.63 | 33.30 | 33.98 |
| G Voltage Amperage (Unit) | 39.35 | 41.11 | 42.88 | 43.56 | 44.24 | 44.92 |
| G Voltage Amperage (Comp) | 14.37 | 15.25 | 16.14 | 16.48 | 16.82 | 17.16 |
| Superheat | 4.8 | 4.5 | 5.5 | 12.0 | 19.0 | 26.3 |
| Sub Cooling | 10.6 | 11.8 | 12.9 | 15.4 | 17.8 | 20.2 |
| Entering Water Temperature: 70 ^{oF} | | | | | | |
| Outside Air Temp. | 50 ^{oF} | 60 ^{oF} | 70 ^{oF} | 80 ^{oF} | 90 ^{oF} | 100 ^{oF} |
| Suction Pressure | 87.25 | 108.61 | 129.97 | 148.47 | 166.96 | 185.46 |
| Discharge Pressure | 291.33 | 307.87 | 324.40 | 336.18 | 347.95 | 359.73 |
| Pool Water Delta T | 2.95 | 3.72 | 4.50 | 5.03 | 5.55 | 6.07 |
| B Voltage Amperage (Unit) | 81.60 | 84.40 | 87.20 | 89.10 | 91.00 | 92.90 |
| B Voltage Amperage (Comp) | 30.30 | 31.70 | 33.10 | 34.05 | 35.00 | 35.95 |
| G Voltage Amperage (Unit) | 41.21 | 42.63 | 44.04 | 45.00 | 45.96 | 46.92 |
| G Voltage Amperage (Comp) | 15.30 | 16.01 | 16.72 | 17.20 | 17.68 | 18.16 |
| Superheat | 4.7 | 4.1 | 4.9 | 10.0 | 15.8 | 22.0 |
| Sub Cooling | 8.9 | 10.2 | 11.3 | 13.0 | 14.7 | 16.3 |
| Entering Water Temperature: 80 ^{oF} | | | | | | |
| Outside Air Temp. | 50 ^{oF} | 60 ^{oF} | 70 ^{oF} | 80 ^{oF} | 90 ^{oF} | 100 ^{oF} |
| Suction Pressure | 93.63 | 111.76 | 129.89 | 143.83 | 157.78 | 171.73 |
| Discharge Pressure | 336.73 | 356.34 | 375.95 | 383.01 | 390.08 | 397.14 |
| Pool Water Delta T | 4.53 | 4.99 | 5.45 | 5.51 | 5.57 | 5.64 |
| B Voltage Amperage (Unit) | 87.50 | 89.53 | 91.55 | 92.70 | 93.85 | 95.00 |
| B Voltage Amperage (Comp) | 33.25 | 34.26 | 35.28 | 35.85 | 36.43 | 37.00 |
| G Voltage Amperage (Unit) | 44.19 | 45.21 | 46.24 | 46.82 | 47.40 | 47.98 |
| G Voltage Amperage (Comp) | 16.79 | 17.30 | 17.82 | 18.11 | 18.40 | 18.69 |
| Superheat | 3.3 | 4.0 | 5.6 | 18.4 | 31.6 | 45.1 |
| Sub Cooling | 9.3 | 11.3 | 13.1 | 13.5 | 13.9 | 14.2 |

| Entering Water Temperature: 90 ^{oF} | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|-------------------|
| Outside Air Temp. | 50 ^{oF} | 60 ^{oF} | 70 ^{oF} | 80 ^{oF} | 90 ^{oF} | 100 ^{oF} |
| Suction Pressure | 100.00 | 114.90 | 129.80 | 139.20 | 148.60 | 158.00 |
| Discharge Pressure | 382.12 | 404.81 | 427.50 | 429.85 | 432.20 | 434.55 |
| Pool Water Delta T | 6.10 | 6.25 | 6.40 | 6.00 | 5.60 | 5.20 |
| B Voltage Amperage (Unit) | 93.40 | 94.65 | 95.90 | 96.30 | 96.70 | 97.10 |
| B Voltage Amperage (Comp) | 36.20 | 36.83 | 37.45 | 37.65 | 37.85 | 38.05 |
| G Voltage Amperage (Unit) | 47.17 | 47.80 | 48.43 | 48.64 | 48.84 | 49.04 |
| G Voltage Amperage (Comp) | 18.28 | 18.60 | 18.91 | 19.02 | 19.12 | 19.22 |
| Superheat | 2.0 | 3.9 | 6.3 | 26.8 | 47.5 | 68.4 |
| Sub Cooling | 8.7 | 11.4 | 13.9 | 13.2 | 12.4 | 11.7 |
| Entering Water Temperature: 100 ^{oF} | | | | | | |
| Outside Air Temp. | 50 ^{oF} | 60 ^{oF} | 70 ^{oF} | 80 ^{oF} | 90 ^{oF} | 100 ^{oF} |
| Suction Pressure | 100.54 | 117.36 | 134.18 | 149.81 | 165.44 | 181.07 |
| Discharge Pressure | 417.38 | 437.61 | 457.83 | 462.47 | 467.11 | 471.75 |
| Pool Water Delta T | 4.60 | 4.94 | 5.28 | 5.36 | 5.45 | 5.54 |
| B Voltage Amperage (Unit) | 96.96 | 98.64 | 100.31 | 102.56 | 104.81 | 107.06 |
| B Voltage Amperage (Comp) | 37.98 | 38.82 | 39.66 | 40.78 | 41.91 | 43.03 |
| G Voltage Amperage (Unit) | 48.97 | 49.82 | 50.66 | 51.80 | 52.93 | 54.07 |
| G Voltage Amperage (Comp) | 19.18 | 19.60 | 20.03 | 20.60 | 21.16 | 21.73 |
| Superheat | 2.0 | 3.5 | 5.8 | 17.1 | 28.7 | 40.8 |
| Sub Cooling | 8.0 | 10.9 | 13.8 | 13.0 | 12.3 | 11.5 |
| Entering Water Temperature: 104 ^{oF} | | | | | | |
| Outside Air Temp. | 50 ^{oF} | 60 ^{oF} | 70 ^{oF} | 80 ^{oF} | 90 ^{oF} | 100 ^{oF} |
| Suction Pressure | 100.75 | 119.49 | 138.23 | 160.09 | 181.95 | 203.81 |
| Discharge Pressure | 452.32 | 470.08 | 487.84 | 494.77 | 501.70 | 508.63 |
| Pool Water Delta T | 3.10 | 3.63 | 4.15 | 4.72 | 5.30 | 5.88 |
| B Voltage Amperage (Unit) | 100.20 | 102.30 | 104.40 | 108.50 | 112.60 | 116.70 |
| B Voltage Amperage (Comp) | 39.60 | 40.65 | 41.70 | 43.75 | 45.80 | 47.85 |
| G Voltage Amperage (Unit) | 50.61 | 51.67 | 52.73 | 54.80 | 56.87 | 58.94 |
| G Voltage Amperage (Comp) | 20.00 | 20.53 | 21.06 | 22.10 | 23.13 | 24.17 |
| Superheat | 1.8 | 3.1 | 5.1 | 7.3 | 10.1 | 13.6 |
| Sub Cooling | 7.0 | 10.4 | 13.6 | 12.9 | 12.1 | 11.3 |