Polairis - PLF2 Closed Circuit Cooling Tower Performance at Standard Conditions

| Condition Reference # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wet Bulb °C | 10 | 10 | 10 | 10 | 10 | 13 | 13 | 13 | 13 | 13 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 18 | 21 | 21 | 21 | 21 | 21 | 24 | 24 | 24 | 24 | 24 | 27 | 27 | 27 | 27 | 27 | 29 | 29 | 29 | 29 | 29 | 32.2 | 32.2 | 32.2 | 32.2 | 32.2 | 21 | 25.56 | 27 | 28 |
| Range °C | 6 | 6 | 6 | 7 | 8 | 6 | 6 | 6 | 7 | 8 | 6 | 6 | 6 | 7 | 8 | 6 | 6 | 6 | 7 | 8 | 6 | 6 | 6 | 7 | 8 | 6 | 6 | 6 | 7 | 8 | 6 | 6 | 6 | 7 | 8 | 6 | 6 | 6 | 7 | 8 | 6 | 6 | 6 | 7 | 8 | 5 | 6.67 | 5 | 5 |
| Approach °C | 4 | 6 | 7 | 8 | 6 | 4 | 6 | 7 | 8 | 6 | 4 | 6 | 7 | 8 | 6 | 4 | 6 | 7 | 8 | 6 | 4 | 6 | 7 | 8 | 6 | 4 | 6 | 7 | 8 | 6 | 4 | 6 | 7 | 8 | 6 | 4 | 6 | 7 | 8 | 6 | 4 | 6 | 7 | 8 | 6 | 6 | 6.67 | 5 | 4 |
| Inlet Water Temperature °C | 20 | 22 | 23 | 25 | 24 | 23 | 25 | 26 | 28 | 27 | 26 | 28 | 29 | 31 | 30 | 28 | 30 | 31 | 33 | 32 | 31 | 33 | 34 | 36 | 35 | 34 | 36 | 37 | 39 | 38 | 37 | 39 | 40 | 42 | 41 | 39 | 41 | 42 | 44 | 43 | 42.2 | 44.2 | 45.2 | 47.2 | 46.2 | 32 | 38.9 | 37 | 37 |
| Outlet Water Temperature °C | 14 | 16 | 17 | 18 | 16 | 17 | 19 | 20 | 21 | 19 | 20 | 22 | 23 | 24 | 22 | 22 | 24 | 25 | 26 | 24 | 25 | 27 | 28 | 29 | 27 | 28 | 30 | 31 | 32 | 30 | 31 | 33 | 34 | 35 | 33 | 33 | 35 | 36 | 37 | 35 | 36.2 | 38.2 | 39.2 | 40.2 | 38.2 | 27 | 32.2 | 32 | 32 |
| **Model Capacity (l/s)** | | | | | | | | | | | | | | | | | | | | | | | | | **l/s** | | | | | | | | | | | | | | | | | | | | | | | | | |
| PLF2 0403E-2D2AT-H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.2 | 0.1 | | | | 0.6 | 0.5 | | | 0.5 | 1.1 | 1.1 | | | | | |
| PLF2 0403E-3D2AT-H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.3 | 0.2 | | | | 0.8 | 0.7 | | | 0.7 | 1.5 | 1.5 | | | | | |
| PLF2 0403E-4D2AT-H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.3 | 0.2 | | | | 0.9 | 0.8 | | | 0.7 | 1.7 | 1.7 | | | | | |
| PLF2 0403E-5D2AT-H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.3 | 0.2 | | | | 1.1 | 1.0 | | | 1.0 | 2.2 | 2.1 | | | | | |
| PLF2 0403E-6D2AT-H | 1.1 | 1.7 | 2.0 | 2.0 | 1.2 | 1.2 | 1.9 | 2.3 | 2.3 | 1.4 | 1.4 | 2.2 | 2.6 | 2.6 | 1.6 | 1.5 | 2.3 | 2.8 | 2.8 | 1.7 | 1.7 | 2.6 | 3.1 | 3.1 | 2.0 | 1.9 | 3.0 | 3.5 | 3.5 | 2.2 | 2.1 | 3.4 | 4.0 | 4.0 | 2.5 | 2.3 | 3.6 | 4.3 | 4.3 | 2.8 | 2.7 | 4.1 | 4.9 | 4.9 | 3.2 | 3.2 | 3.2 | 3.3 | 2.7 |
| PLF2 0406E-2D2AS-K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.9 | 0.8 | | | 0.4 | 1.5 | 1.4 | | | 1.3 | 2.5 | 2.5 | | | | | |
| PLF2 0406E-2D2AT-K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 | 0.9 | | | 0.3 | 1.7 | 1.7 | | | 1.4 | 2.9 | 3.0 | | | | | |
| PLF2 0406E-3D2AS-K | | | | | | | | | | | | | 0.5 | 0.5 | | | 0.1 | 1.1 | 1.1 | | | 0.9 | 2.0 | 1.9 | | | 1.7 | 2.8 | 2.8 | 0.1 | 0.3 | 2.6 | 3.8 | 3.8 | 0.9 | 0.8 | 3.2 | 4.4 | 4.4 | 1.5 | 1.7 | 4.2 | 5.5 | 5.5 | 2.4 | 2.0 | 2.2 | 2.5 | 1.5 |
| PLF2 0406E-3D2AT-K | | | | | | | | | | | | | 0.5 | 0.5 | | | | 1.2 | 1.2 | | | 1.0 | 2.3 | 2.3 | | | 2.0 | 3.5 | 3.5 | 0.0 | 0.2 | 3.2 | 4.6 | 4.7 | 1.1 | 0.9 | 3.9 | 5.4 | 5.5 | 1.8 | 2.1 | 5.2 | 6.8 | 6.8 | 2.9 | 2.4 | 2.7 | 3.0 | 1.7 |
| PLF2 0406E-4D2AS-K | | | 0.5 | 0.7 | | | 0.3 | 1.2 | 1.4 | | | 1.0 | 2.1 | 2.2 | | | 1.5 | 2.6 | 2.8 | 0.2 | | 2.4 | 3.6 | 3.7 | 0.9 | 0.8 | 3.3 | 4.5 | 4.6 | 1.7 | 1.6 | 4.2 | 5.5 | 5.6 | 2.5 | 2.1 | 4.8 | 6.1 | 6.2 | 3.1 | 3.1 | 5.8 | 7.2 | 7.3 | 4.0 | 3.5 | 3.9 | 4.0 | 2.9 |
| PLF2 0406E-4D2AT-K | | | | | | | | | | | | | 0.3 | 0.3 | | | | 1.2 | 1.2 | | | 0.9 | 2.5 | 2.6 | | | 2.2 | 3.9 | 4.0 | | 0.1 | 3.6 | 5.3 | 5.4 | 1.1 | 1.0 | 4.5 | 6.3 | 6.3 | 2.0 | 2.4 | 6.0 | 7.8 | 7.8 | 3.4 | 2.6 | 3.1 | 3.4 | 1.9 |
| PLF2 0406E-5D2AS-K | | 0.9 | 1.8 | 1.9 | | | 1.6 | 2.6 | 2.6 | 0.4 | 0.3 | 2.3 | 3.4 | 3.4 | 1.0 | 0.7 | 2.8 | 3.9 | 4.0 | 1.5 | 1.4 | 3.6 | 4.8 | 4.8 | 2.1 | 2.1 | 4.5 | 5.7 | 5.8 | 2.9 | 2.8 | 5.4 | 6.7 | 6.8 | 3.7 | 3.4 | 6.0 | 7.4 | 7.5 | 4.2 | 4.3 | 7.1 | 8.6 | 8.7 | 5.2 | 4.8 | 5.1 | 5.2 | 4.1 |
| PLF2 0406E-5D2AT-K | | | | | | | | | | | | | 0.4 | 0.4 | | | | 1.3 | 1.3 | | | 0.9 | 2.7 | 2.7 | | | 2.4 | 4.2 | 4.2 | | 0.1 | 3.8 | 5.7 | 5.7 | 1.0 | 1.0 | 4.8 | 6.7 | 6.7 | 1.9 | 2.5 | 6.4 | 8.3 | 8.3 | 3.4 | 2.8 | 3.2 | 3.7 | 2.1 |
| PLF2 0406E-6D2AS-K | | 0.9 | 2.1 | 2.2 | | | 1.9 | 3.1 | 3.2 | 0.2 | 0.3 | 2.9 | 4.1 | 4.2 | 1.1 | 0.8 | 3.5 | 4.8 | 4.8 | 1.8 | 1.7 | 4.5 | 5.8 | 5.8 | 2.7 | 2.5 | 5.4 | 6.8 | 6.9 | 3.6 | 3.4 | 6.4 | 7.9 | 8.0 | 4.5 | 4.0 | 7.1 | 8.6 | 8.7 | 5.2 | 5.0 | 8.3 | 9.9 | 9.9 | 6.2 | 5.7 | 6.1 | 6.2 | 4.7 |
| PLF2 0406E-6D2AT-K | | | | | | | | | | | | | 0.7 | 0.8 | | | | 1.6 | 1.7 | | | 1.3 | 3.1 | 3.1 | | | 2.7 | 4.6 | 4.6 | | 0.2 | 4.2 | 6.2 | 6.1 | 1.2 | 1.1 | 5.2 | 7.2 | 7.2 | 2.1 | 2.6 | 6.9 | 9.0 | 8.9 | 3.6 | 3.2 | 3.6 | 4.0 | 2.2 |
| PLF2 0409E-2D2AS-L | | | | | | | | | | | | | | 0.0 | | | | 0.8 | 0.8 | | | 0.6 | 2.0 | 2.0 | | | 1.7 | 3.2 | 3.2 | | | 2.8 | 4.3 | 4.3 | 0.5 | 0.4 | 3.5 | 5.0 | 5.1 | 1.2 | 1.5 | 4.6 | 6.2 | 6.2 | 2.3 | 2.1 | 2.4 | 2.7 | 1.4 |
| PLF2 0409E-3D2AS-L | | 0.1 | 1.4 | 1.4 | | | 1.2 | 2.5 | 2.6 | | | 2.3 | 3.6 | 3.7 | 0.3 | 0.1 | 3.0 | 4.3 | 4.4 | 1.0 | 1.0 | 4.0 | 5.4 | 5.5 | 2.0 | 1.9 | 5.0 | 6.5 | 6.5 | 3.0 | 2.8 | 6.0 | 7.6 | 7.6 | 3.9 | 3.3 | 6.7 | 8.3 | 8.4 | 4.5 | 4.3 | 7.9 | 9.6 | 9.7 | 5.5 | 5.4 | 5.7 | 5.7 | 4.2 |
| PLF2 0409E-4D2AS-L | 0.5 | 2.7 | 3.8 | 3.8 | 1.2 | 1.2 | 3.5 | 4.7 | 4.7 | 1.9 | 1.9 | 4.4 | 5.7 | 5.7 | 2.7 | 2.4 | 5.0 | 6.4 | 6.4 | 3.2 | 3.1 | 6.0 | 7.5 | 7.5 | 4.0 | 3.9 | 7.0 | 8.6 | 8.6 | 4.9 | 4.8 | 8.1 | 9.8 | 9.8 | 5.8 | 5.4 | 8.9 | 10.6 | 10.6 | 6.4 | 6.4 | 10.2 | 12.1 | 12.0 | 7.4 | 7.5 | 7.7 | 7.9 | 6.3 |
| PLF2 0409E-5D2AS-L | 1.3 | 3.7 | 4.9 | 5.0 | 2.1 | 2.0 | 4.6 | 5.9 | 6.0 | 2.9 | 2.8 | 5.6 | 7.0 | 7.0 | 3.8 | 3.3 | 6.3 | 7.7 | 7.8 | 4.3 | 4.2 | 7.3 | 8.9 | 9.0 | 5.3 | 5.1 | 8.5 | 10.2 | 10.2 | 6.2 | 6.0 | 9.7 | 11.6 | 11.6 | 7.3 | 6.7 | 10.6 | 12.6 | 12.6 | 8.0 | 7.9 | 12.1 | 14.2 | 14.3 | 9.3 | 8.9 | 9.3 | 9.4 | 7.7 |
| PLF2 0409E-6D2AS-L | 2.3 | 4.7 | 6.0 | 6.0 | 3.1 | 3.0 | 5.6 | 6.9 | 7.0 | 3.8 | 3.7 | 6.6 | 8.0 | 8.1 | 4.7 | 4.2 | 7.3 | 8.8 | 8.9 | 5.3 | 5.1 | 8.4 | 10.1 | 10.1 | 6.2 | 6.0 | 9.6 | 11.4 | 11.5 | 7.3 | 7.0 | 10.9 | 12.9 | 13.0 | 8.4 | 7.7 | 11.9 | 14.0 | 14.1 | 9.2 | 8.9 | 13.5 | 15.8 | 15.9 | 10.5 | 10.0 | 10.5 | 10.6 | 8.7 |
| PLF2 0409E-7D2AS-L | 2.7 | 5.3 | 6.6 | 6.7 | 3.6 | 3.5 | 6.3 | 7.7 | 7.7 | 4.4 | 4.3 | 7.3 | 8.8 | 8.9 | 5.3 | 4.9 | 8.1 | 9.7 | 9.7 | 6.0 | 5.8 | 9.2 | 11.0 | 11.1 | 7.0 | 6.8 | 10.5 | 12.4 | 12.5 | 8.1 | 7.8 | 11.9 | 14.0 | 14.1 | 9.3 | 8.6 | 12.9 | 15.2 | 15.2 | 10.2 | 9.9 | 14.7 | 17.1 | 17.2 | 11.6 | 11.0 | 11.5 | 11.5 | 9.6 |
| PLF2 0512E-2D2AS-M | | | 1.4 | 1.6 | | | 1.0 | 2.6 | 2.8 | | | 2.2 | 3.9 | 4.1 | 0.1 | | 3.1 | 4.8 | 5.0 | 0.8 | 0.6 | 4.4 | 6.2 | 6.3 | 1.9 | 1.7 | 5.7 | 7.7 | 7.7 | 3.0 | 2.9 | 7.1 | 9.1 | 9.2 | 4.2 | 3.7 | 8.0 | 10.2 | 10.2 | 5.0 | 5.0 | 9.6 | 11.8 | 11.8 | 6.3 | 6.3 | 6.5 | 6.8 | 4.9 |
| PLF2 0512E-3D2AS-M | 0.4 | 3.5 | 5.1 | 5.2 | 1.5 | 1.3 | 4.6 | 6.4 | 6.4 | 2.5 | 2.2 | 5.9 | 7.7 | 7.8 | 3.5 | 2.9 | 6.7 | 8.7 | 8.7 | 4.3 | 4.0 | 8.1 | 10.1 | 10.2 | 5.4 | 5.1 | 9.5 | 11.7 | 11.8 | 6.7 | 6.3 | 11.0 | 13.4 | 13.5 | 8.0 | 7.2 | 12.1 | 14.6 | 14.7 | 8.9 | 8.6 | 14.0 | 16.7 | 16.8 | 10.4 | 10.1 | 10.5 | 10.6 | 8.4 |
| PLF2 0512E-4D2AS-M | 2.2 | 5.5 | 7.2 | 7.3 | 3.3 | 3.1 | 6.7 | 8.5 | 8.6 | 4.4 | 4.1 | 8.0 | 10.0 | 10.0 | 5.5 | 4.8 | 8.9 | 11.0 | 11.1 | 6.3 | 5.9 | 10.4 | 12.6 | 12.7 | 7.5 | 7.1 | 12.0 | 14.4 | 14.4 | 8.9 | 8.4 | 13.6 | 16.2 | 16.3 | 10.2 | 9.3 | 14.7 | 17.5 | 17.5 | 11.2 | 10.7 | 16.6 | 19.7 | 19.7 | 12.7 | 12.6 | 13.0 | 13.1 | 10.6 |
| PLF2 0512E-5D2AS-M | 3.4 | 6.9 | 8.7 | 8.8 | 4.6 | 4.3 | 8.1 | 10.0 | 10.1 | 5.7 | 5.3 | 9.5 | 11.5 | 11.7 | 6.8 | 6.1 | 10.4 | 12.6 | 12.7 | 7.7 | 7.2 | 11.9 | 14.3 | 14.5 | 9.0 | 8.5 | 13.6 | 16.2 | 16.3 | 10.4 | 9.9 | 15.4 | 18.2 | 18.4 | 11.9 | 11.0 | 16.7 | 19.7 | 19.8 | 13.0 | 12.9 | 19.2 | 22.5 | 22.5 | 14.9 | 14.2 | 14.8 | 14.9 | 12.4 |
| PLF2 0512E-6D2AS-M | 4.3 | 8.0 | 9.8 | 9.9 | 5.6 | 5.3 | 9.3 | 11.3 | 11.4 | 6.7 | 6.4 | 10.7 | 12.9 | 13.0 | 7.9 | 7.2 | 11.8 | 14.1 | 14.2 | 8.8 | 8.4 | 13.4 | 15.9 | 16.0 | 10.2 | 9.8 | 15.2 | 18.0 | 18.1 | 11.8 | 11.3 | 17.2 | 20.2 | 20.3 | 13.4 | 12.3 | 18.6 | 21.8 | 21.9 | 14.6 | 14.1 | 21.0 | 24.4 | 24.6 | 16.6 | 15.9 | 16.5 | 16.7 | 13.8 |
| PLF2 0512E-7D2AS-M | 5.1 | 8.9 | 10.8 | 10.9 | 6.4 | 6.1 | 10.3 | 12.4 | 12.5 | 7.6 | 7.3 | 11.8 | 14.0 | 14.1 | 8.9 | 8.1 | 12.9 | 15.3 | 15.4 | 9.8 | 9.4 | 14.6 | 17.2 | 17.4 | 11.3 | 10.8 | 16.5 | 19.4 | 19.6 | 12.9 | 12.4 | 18.7 | 21.8 | 22.0 | 14.7 | 13.6 | 20.2 | 23.5 | 23.7 | 16.0 | 15.6 | 22.8 | 26.6 | 26.8 | 18.1 | 17.2 | 17.9 | 18.1 | 15.1 |