

Series VI Performance Data

The Whalen Company

VI-803

Cooling Capacity

| ELT | Entering Air GPM Pd FT | 80°F db / 67°F wb | | | 78°F db / 65°F wb | | | 75°F db / 63°F wb | | |
|-----|------------------------------|-------------------|-------|-------|-------------------|-------|-------|-------------------|-------|-------|
| | | 6 | 5 | 4 | 6 | 5 | 4 | 6 | 5 | 4 |
| | | 16.0 | 11.1 | 7.1 | 16.0 | 11.1 | 7.1 | 16.0 | 11.1 | 7.1 |
| 75 | Total kBTUH | 26.17 | 25.51 | 24.07 | 25.06 | 24.42 | 23.05 | 23.94 | 23.33 | 22.02 |
| | Sensible KBTUH | 18.30 | 17.99 | 17.38 | 18.32 | 18.01 | 17.40 | 17.31 | 17.02 | 16.44 |
| | Watts kW | 1.61 | 1.68 | 1.81 | 1.61 | 1.68 | 1.80 | 1.61 | 1.68 | 1.80 |
| | Heat of Rejection kBTUH | 31.68 | 31.25 | 30.24 | 30.56 | 30.15 | 29.20 | 29.44 | 29.06 | 28.17 |
| | Liquid Rise °F | 10.6 | 12.5 | 15.1 | 10.2 | 12.1 | 14.6 | 9.8 | 11.6 | 14.1 |
| 80 | Total kBTUH | 25.26 | 24.62 | 23.24 | 24.19 | 23.57 | 22.25 | 23.11 | 22.52 | 21.26 |
| | Sensible KBTUH | 17.86 | 17.56 | 16.96 | 17.88 | 17.58 | 16.99 | 16.90 | 16.61 | 16.05 |
| | Watts kW | 1.71 | 1.78 | 1.91 | 1.70 | 1.78 | 1.91 | 1.70 | 1.77 | 1.91 |
| | Heat of Rejection kBTUH | 31.09 | 30.69 | 29.75 | 30.00 | 29.63 | 28.76 | 28.92 | 28.58 | 27.76 |
| | Liquid Rise °F | 10.4 | 12.3 | 14.9 | 10.0 | 11.9 | 14.4 | 9.6 | 11.4 | 13.9 |
| 85 | Total kBTUH | 24.23 | 23.62 | 22.29 | 23.20 | 22.61 | 21.34 | 22.16 | 21.60 | 20.39 |
| | Sensible KBTUH | 17.34 | 17.05 | 16.47 | 17.36 | 17.07 | 16.49 | 16.40 | 16.13 | 15.58 |
| | Watts kW | 1.81 | 1.88 | 2.02 | 1.80 | 1.88 | 2.02 | 1.80 | 1.88 | 2.02 |
| | Heat of Rejection kBTUH | 30.39 | 30.03 | 29.18 | 29.35 | 29.02 | 28.22 | 28.31 | 28.01 | 27.27 |
| | Liquid Rise °F | 10.1 | 12.0 | 14.6 | 9.8 | 11.6 | 14.1 | 9.4 | 11.2 | 13.6 |
| 90 | Total kBTUH | 23.07 | 22.49 | 21.22 | 22.09 | 21.53 | 20.32 | 21.10 | 20.57 | 19.41 |
| | Sensible KBTUH | 16.73 | 16.45 | 15.89 | 16.75 | 16.47 | 15.91 | 15.83 | 15.56 | 15.03 |
| | Watts kW | 1.91 | 1.99 | 2.14 | 1.91 | 1.99 | 2.14 | 1.91 | 1.99 | 2.13 |
| | Heat of Rejection kBTUH | 29.59 | 29.28 | 28.52 | 28.60 | 28.31 | 27.60 | 27.61 | 27.35 | 26.69 |
| | Liquid Rise °F | 9.9 | 11.7 | 14.3 | 9.5 | 11.3 | 13.8 | 9.2 | 10.9 | 13.3 |
| 95 | Total kBTUH | 21.79 | 21.24 | 20.04 | 20.86 | 20.33 | 19.19 | 19.93 | 19.43 | 18.33 |
| | Sensible KBTUH | 16.04 | 15.77 | 15.23 | 16.06 | 15.79 | 15.25 | 15.17 | 14.92 | 14.41 |
| | Watts kW | 2.02 | 2.11 | 2.26 | 2.02 | 2.10 | 2.26 | 2.02 | 2.10 | 2.26 |
| | Heat of Rejection kBTUH | 28.69 | 28.42 | 27.76 | 27.75 | 27.51 | 26.90 | 26.81 | 26.60 | 26.04 |
| | Liquid Rise °F | 9.6 | 11.4 | 13.9 | 9.3 | 11.0 | 13.4 | 8.9 | 10.6 | 13.0 |

Heating Capacity

| ELT | Entering Air GPM Pd FT | 65°F db | | | 70°F db | | | 75°F db | | |
|-----|------------------------------|---------|-------|-------|---------|-------|-------|---------|-------|-------|
| | | 6 | 5 | 4 | 6 | 5 | 4 | 6 | 5 | 4 |
| | | 16.0 | 11.1 | 7.1 | 16.0 | 11.1 | 7.1 | 16.0 | 11.1 | 7.1 |
| 60 | Heat kBTUH | 27.73 | 26.91 | 25.37 | 27.13 | 26.33 | 24.83 | 26.53 | 25.75 | 24.28 |
| | Watts kW | 2.19 | 2.17 | 2.12 | 2.30 | 2.28 | 2.23 | 2.42 | 2.39 | 2.34 |
| | Heat of Absorption kBTUH | 20.25 | 19.52 | 18.14 | 19.28 | 18.57 | 17.23 | 18.29 | 17.60 | 16.30 |
| | Liquid Drop °F | 6.8 | 7.8 | 9.1 | 6.4 | 7.4 | 8.6 | 6.1 | 7.0 | 8.1 |
| 65 | Heat kBTUH | 29.50 | 28.63 | 26.99 | 28.87 | 28.02 | 26.42 | 28.23 | 27.40 | 25.83 |
| | Watts kW | 2.24 | 2.21 | 2.17 | 2.35 | 2.33 | 2.28 | 2.47 | 2.44 | 2.39 |
| | Heat of Absorption kBTUH | 21.86 | 21.08 | 19.60 | 20.84 | 20.08 | 18.65 | 19.80 | 19.06 | 17.67 |
| | Liquid Drop °F | 7.3 | 8.4 | 9.8 | 6.9 | 8.0 | 9.3 | 6.6 | 7.6 | 8.8 |
| 70 | Heat kBTUH | 31.28 | 30.36 | 28.62 | 30.61 | 29.71 | 28.01 | 29.93 | 29.05 | 27.38 |
| | Watts kW | 2.29 | 2.27 | 2.22 | 2.41 | 2.38 | 2.33 | 2.53 | 2.50 | 2.45 |
| | Heat of Absorption kBTUH | 23.46 | 22.62 | 21.05 | 22.39 | 21.58 | 20.05 | 21.30 | 20.52 | 19.04 |
| | Liquid Drop °F | 7.8 | 9.0 | 10.5 | 7.5 | 8.6 | 10.0 | 7.1 | 8.2 | 9.5 |
| 75 | Heat kBTUH | 33.05 | 32.08 | 30.24 | 32.34 | 31.39 | 29.60 | 31.63 | 30.70 | 28.94 |
| | Watts kW | 2.35 | 2.32 | 2.27 | 2.47 | 2.44 | 2.39 | 2.59 | 2.56 | 2.51 |
| | Heat of Absorption kBTUH | 25.05 | 24.16 | 22.49 | 23.93 | 23.07 | 21.45 | 22.79 | 21.96 | 20.39 |
| | Liquid Drop °F | 8.3 | 9.7 | 11.2 | 8.0 | 9.2 | 10.7 | 7.6 | 8.8 | 10.2 |
| 80 | Heat kBTUH | 34.83 | 33.80 | 31.87 | 34.08 | 33.08 | 31.19 | 33.32 | 32.34 | 30.49 |
| | Watts kW | 2.40 | 2.38 | 2.33 | 2.53 | 2.50 | 2.45 | 2.65 | 2.62 | 2.57 |
| | Heat of Absorption kBTUH | 26.62 | 25.68 | 23.93 | 25.46 | 24.55 | 22.84 | 24.27 | 23.39 | 21.73 |
| | Liquid Drop °F | 8.9 | 10.3 | 12.0 | 8.5 | 9.8 | 11.4 | 8.1 | 9.4 | 10.9 |