

Fan Coil Performance Data

The Whalen Company

Model WFD-400

Cooling Capacity

| Entering Water°F | Entering air Water Rise°F | 75.0 db°F / 63.0 wb°F | | | | 78.0 db°F 65.0 wb°F | | | | 80.0 db°F 67.0 wb°F | | | |
|------------------|---|---------------------------|---|---------------------------|---------------------------|----------------------------|---------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|
| | | 10 | 12 | 14 | 16 | 10 | 12 | 14 | 16 | 10 | 12 | 14 | 16 |
| | | 42 | Cool kBTU Sens. kBTU GPM dp FT | 14.5 9.7 2.9 8.1 | 13.2 9.1 2.2 4.6 | 11.9 8.5 1.7 2.8 | 10.6 8.0 1.3 1.7 | 16.4 10.6 3.3 10.3 | 15.0 10.0 2.5 6.0 | 13.7 9.4 2.0 3.7 | 12.5 8.9 1.6 2.3 | 18.6 11.4 3.7 13.3 | 17.3 10.7 2.9 7.9 |
| 43 | Cool kBTU Sens. kBTU GPM dp FT | 13.4 9.2 2.7 6.9 | 12.1 8.6 2.0 3.9 | 10.8 8.0 1.5 2.3 | 9.6 7.5 1.2 1.4 | 15.2 10.1 3.0 8.9 | 13.9 9.5 2.3 5.1 | 12.6 8.9 1.8 3.1 | 11.4 8.4 1.4 1.9 | 17.5 10.8 3.5 11.7 | 16.1 10.2 2.7 6.9 | 14.8 9.6 2.1 4.3 | 13.5 9.1 1.7 2.7 |
| 44 | Cool kBTU Sens. kBTU GPM dp FT | 12.3 8.7 2.5 5.8 | 11.0 8.1 1.8 3.2 | 9.8 7.6 1.4 1.9 | 8.6 7.1 1.1 1.1 | 14.1 9.6 2.8 7.6 | 12.8 9.0 2.1 4.4 | 11.6 8.5 1.7 2.6 | 10.4 8.0 1.3 1.6 | 16.3 10.3 3.3 10.2 | 15.0 9.7 2.5 6.0 | 13.7 9.2 2.0 3.7 | 12.5 8.6 1.6 2.3 |
| 45 | Cool kBTU Sens. kBTU GPM dp FT | 11.2 8.2 2.2 4.8 | 10.0 7.7 1.7 2.6 | 8.8 7.2 1.3 1.5 | 7.7 6.7 1.0 0.9 | 13.1 9.1 2.6 6.5 | 11.8 8.6 2.0 3.7 | 10.6 8.1 1.5 2.2 | 9.4 7.6 1.2 1.3 | 15.2 9.8 3.0 8.8 | 13.9 9.2 2.3 5.1 | 12.6 8.7 1.8 3.1 | 11.4 8.2 1.4 1.9 |
| 46 | Cool kBTU Sens. kBTU GPM dp FT | 10.2 7.8 2.0 4.0 | 9.0 7.2 1.5 2.1 | 7.8 6.8 1.1 1.2 | 6.8 6.4 0.8 0.7 | 12.0 8.7 2.4 5.5 | 10.8 8.1 1.8 3.1 | 9.6 7.7 1.4 1.8 | 8.5 7.2 1.1 1.1 | 14.1 9.3 2.8 7.6 | 12.8 8.8 2.1 4.4 | 11.6 8.3 1.7 2.6 | 10.4 7.8 1.3 1.6 |
| 47 | Cool kBTU Sens. kBTU GPM dp FT | 9.2 7.3 1.8 3.2 | 8.0 6.9 1.3 1.7 | 6.9 6.4 1.0 0.9 | 5.9 5.9 0.7 0.5 | 11.0 8.2 2.2 4.6 | 9.8 7.7 1.6 2.5 | 8.6 7.3 1.2 1.5 | 7.6 6.9 0.9 0.9 | 13.0 8.9 2.6 6.5 | 11.8 8.4 2.0 3.7 | 10.6 7.9 1.5 2.2 | 9.4 7.5 1.2 1.3 |
| 48 | Cool kBTU Sens. kBTU GPM dp FT | 8.2 6.9 1.6 2.6 | 7.1 6.5 1.2 1.3 | 6.0 6.0 0.9 0.7 | 5.1 5.1 0.6 0.4 | 10.0 7.8 2.0 3.8 | 8.8 7.4 1.5 2.1 | 7.7 6.9 1.1 1.2 | 6.7 6.6 0.8 0.7 | 12.0 8.5 2.4 5.5 | 10.8 8.0 1.8 3.1 | 9.6 7.5 1.4 1.8 | 8.5 7.1 1.1 1.1 |

Heating Capacity - 2Pipe configuration

| Entering Water°F | Entering air Water Rise°F | 65.0 db°F | | | | 70.0 db°F | | | | 75.0 db°F | | | |
|------------------|------------------------------|---------------------|---------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|
| | | 15 | 20 | 25 | 30 | 15 | 20 | 25 | 30 | 15 | 20 | 25 | 30 |
| | | 120 | Heat kBTU GPM dp FT | 18.2 2.4 5.7 | 16.7 1.7 2.7 | 15.2 1.2 1.4 | 13.8 0.9 0.8 | 16.1 2.2 4.4 | 14.6 1.5 2.0 | 13.2 1.1 1.1 | 11.8 0.8 0.6 | 14.1 1.9 3.4 | 12.6 1.3 1.5 |
| 130 | Heat kBTU GPM dp FT | 22.4 3.0 8.6 | 20.8 2.1 4.2 | 19.3 1.5 2.3 | 17.8 1.2 1.4 | 20.3 2.7 7.0 | 18.8 1.9 3.4 | 17.2 1.4 1.8 | 15.8 1.1 1.1 | 18.2 2.4 5.7 | 16.7 1.7 2.7 | 15.2 1.2 1.4 | 13.8 0.9 0.8 |
| 140 | Heat kBTU GPM dp FT | 26.6 3.5 12.1 | 25.0 2.5 6.0 | 23.4 1.9 3.4 | 21.9 1.5 2.0 | 24.5 3.3 10.2 | 22.9 2.3 5.0 | 21.4 1.7 2.8 | 19.9 1.3 1.7 | 22.4 3.0 8.6 | 20.8 2.1 4.2 | 19.3 1.5 2.3 | 17.8 1.2 1.3 |
| 150 | Heat kBTU GPM dp FT | 30.8 4.1 16.2 | 29.2 2.9 8.2 | 27.6 2.2 4.7 | 26.0 1.7 2.9 | 28.7 3.8 14.0 | 27.1 2.7 7.0 | 25.5 2.0 4.0 | 24.0 1.6 2.4 | 26.6 3.5 12.1 | 25.0 2.5 6.0 | 23.4 1.9 3.4 | 21.9 1.5 2.0 |

Heating Capacity - 4Pipe configuration (Standard coils- other coils available)

| Entering Water°F | Entering air Water Rise°F | 65.0 db°F | | | | 70.0 db°F | | | | 75.0 db°F | | | |
|------------------|------------------------------|--------------------|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | 30 | 40 | 50 | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 | 60 |
| | | 160 | Heat kBTU GPM dp FT | 13.1 0.9 4.4 | 11.8 0.6 2.0 | 10.5 0.4 1.0 | 9.2 0.3 0.6 | 12.2 0.8 3.8 | 10.9 0.5 1.7 | 9.6 0.4 0.9 | 8.4 0.3 0.5 | 11.3 0.8 3.3 | 10.0 0.5 1.4 |
| 180 | Heat kBTU GPM dp FT | 16.7 1.1 7.2 | 15.4 0.8 3.4 | 14.0 0.6 1.8 | 12.7 0.4 1.0 | 15.8 1.1 6.5 | 14.5 0.7 3.0 | 13.1 0.5 1.6 | 11.9 0.4 0.9 | 14.9 1.0 5.8 | 13.6 0.7 2.7 | 12.2 0.5 1.4 | 11.0 0.4 0.8 |