

Fan Coil Performance Data

The Whalen Company

Model WFD-1000

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	38.3 26.4 7.7 13.7	35.1 25.0 5.9 8.0	32.1 23.6 4.6 4.9	29.0 22.3 3.6 3.1	43.0 28.8 8.6 17.3	39.9 27.3 6.6 10.3	36.8 26.0 5.3 6.5	33.8 24.7 4.2 4.2	48.7 30.5 9.7 22.3	45.6 29.1 7.6 13.5
43	Cool kBTU Sens. kBTU GPM dp FT	35.4 25.1 7.1 11.8	32.3 23.7 5.4 6.8	29.3 22.4 4.2 4.1	26.3 21.2 3.3 2.5	40.1 27.5 8.0 15.1	37.0 26.1 6.2 8.9	34.0 24.8 4.9 5.5	31.0 23.6 3.9 3.5	45.8 29.2 9.1 19.6	42.6 27.8 7.1 11.8	39.6 26.5 5.7 7.5	36.5 25.2 4.6 4.9
44	Cool kBTU Sens. kBTU GPM dp FT	32.6 23.9 6.5 10.0	29.6 22.5 4.9 5.7	26.6 21.3 3.8 3.4	23.7 20.1 3.0 2.1	37.3 26.2 7.5 13.0	34.3 24.9 5.7 7.6	31.3 23.7 4.5 4.7	28.4 22.5 3.5 2.9	42.8 27.9 8.6 17.2	39.8 26.6 6.6 10.3	36.7 25.3 5.2 6.5	33.7 24.1 4.2 4.2
45	Cool kBTU Sens. kBTU GPM dp FT	29.9 22.7 6.0 8.4	26.9 21.4 4.5 4.7	24.0 20.2 3.4 2.8	21.2 19.1 2.6 1.6	34.6 25.0 6.9 11.2	31.6 23.8 5.3 6.5	28.6 22.6 4.1 3.9	25.8 21.5 3.2 2.4	40.0 26.7 8.0 15.0	37.0 25.4 6.2 8.9	34.0 24.2 4.9 5.5	31.0 23.1 3.9 3.5
46	Cool kBTU Sens. kBTU GPM dp FT	27.3 21.6 5.5 7.0	24.3 20.4 4.1 3.9	21.5 19.2 3.1 2.2	18.7 18.1 2.3 1.3	31.9 23.9 6.4 9.5	29.0 22.7 4.8 5.5	26.1 21.6 3.7 3.3	23.3 20.5 2.9 2.0	37.2 25.5 7.4 13.0	34.2 24.3 5.7 7.6	31.3 23.2 4.5 4.7	28.4 22.0 3.6 3.0
47	Cool kBTU Sens. kBTU GPM dp FT	24.7 20.5 4.9 5.7	21.8 19.3 3.6 3.1	19.0 18.3 2.7 1.7	16.4 16.4 2.0 1.0	29.3 22.9 5.9 8.0	26.4 21.7 4.4 4.5	23.6 20.6 3.4 2.7	20.9 19.6 2.6 1.6	34.5 24.4 6.9 11.2	31.6 23.3 5.3 6.5	28.7 22.2 4.1 3.9	25.8 21.1 3.2 2.4
48	Cool kBTU Sens. kBTU GPM dp FT	22.2 19.5 4.4 4.6	19.4 18.4 3.2 2.4	16.7 16.7 2.4 1.3	14.1 14.1 1.8 0.7	26.8 21.9 5.4 6.7	23.9 20.8 4.0 3.7	21.2 19.7 3.0 2.1	18.5 18.5 2.3 1.3	31.9 23.4 6.4 9.5	29.0 22.3 4.8 5.5	26.1 21.2 3.7 3.3	23.4 20.2 2.9 2.0

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	46.7 6.2 9.1	43.0 4.3 4.3	39.5 3.2 2.3	36.0 2.4 1.4	41.4 5.5 7.2	37.8 3.8 3.4	34.3 2.7 1.8	31.0 2.1 1.0	36.2 4.8 5.5	32.6 3.3 2.5
130	Heat kBTU GPM dp FT	57.2 7.6 13.6	53.5 5.4 6.7	49.9 4.0 3.7	46.4 3.1 2.2	51.9 6.9 11.2	48.3 4.8 5.5	44.7 3.6 3.0	41.2 2.7 1.8	46.7 6.2 9.1	43.0 4.3 4.3	39.5 3.2 2.3	36.1 2.4 1.4
140	Heat kBTU GPM dp FT	67.7 9.0 19.1	64.0 6.4 9.6	60.3 4.8 5.5	56.7 3.8 3.4	62.4 8.3 16.2	58.7 5.9 8.1	55.1 4.4 4.6	51.5 3.4 2.8	57.2 7.6 13.6	53.5 5.4 6.7	49.9 4.0 3.7	46.3 3.1 2.2
150	Heat kBTU GPM dp FT	78.2 10.4 25.5	74.5 7.4 13.0	70.8 5.7 7.5	67.2 4.5 4.7	73.0 9.7 22.2	69.2 6.9 11.2	65.6 5.2 6.5	62.0 4.1 4.0	67.7 9.0 19.1	64.0 6.4 9.6	60.3 4.8 5.5	56.7 3.8 3.4

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	37.6 2.5 15.4	34.7 1.7 7.4	31.8 1.3 4.0	28.9 1.0 2.3	35.2 2.3 13.5	32.3 1.6 6.4	29.3 1.2 3.4	26.4 0.9 1.9	32.8 2.2 11.7	29.8 1.5 5.4
180	Heat kBTU GPM dp FT	47.4 3.2 24.5	44.5 2.2 12.1	41.6 1.7 6.8	38.6 1.3 4.1	45.0 3.0 22.0	42.0 2.1 10.8	39.1 1.6 6.0	36.2 1.2 3.6	42.5 2.8 19.7	39.6 2.0 9.6	36.7 1.5 5.3	33.8 1.1 3.1