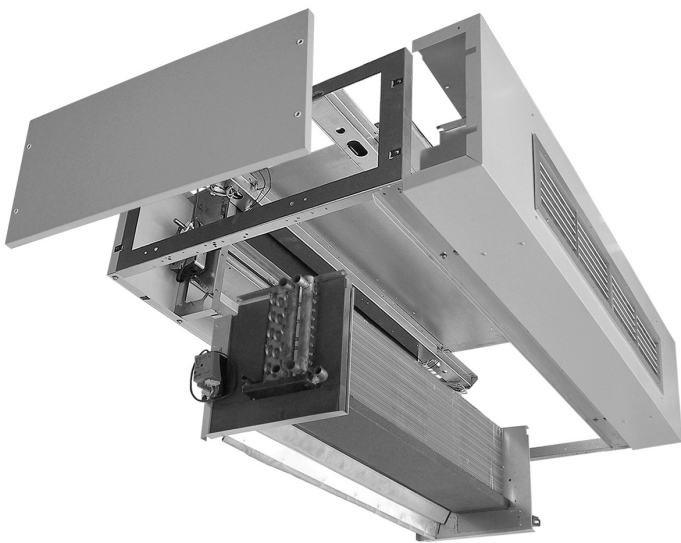


**Group: Unit Vent****Type: Capacity Data****Date: October 2013**

## **Daikin Classroom Unit Ventilator - Steam Coil Heating Capacity Data**

Ceiling Models AHF, AHV, AHR, AHB (F Vintage)



# Coil Selection

## Steam Heating Selection

The maximum allowable steam pressure, especially in public buildings, is often fixed by state or local boiler codes. Steam Capacity in Table-1 is based on steam supply pressure of 2 PSI gauge and steam temperature of 218.5°F.

Capacity Correction Factor in Table-2.  
Maximum steam pressure is 6 PSIG at coil inlet.

**Traps are by others.** Either float and thermostatic traps or thermostatic traps may be used.

To determine total capacity for conditions other than shown in the Steam Capacity Table-1, multiply the total capacity given by the proper constant from the Steam

Table 1. Steam Heating Capacities - 2# Steam Coils<sup>1</sup>

Unit	Coil Capacity	Airflow SCFM	Entering Air Temperature °F																			
			-20		-10		0		10		20		30		40		50		60		70	
			MBH	LAT, db	MBH	LAT, db	MBH	LAT, db	MBH	LAT, db	MBH	LAT, db	MBH	LAT, db	MBH	LAT, db	MBH	LAT, db	MBH	LAT, db	MBH	LAT, db
750	Std	750	55.1	47.8	52.7	54.9	50.3	61.8	47.8	68.8	45.3	75.7	42.7	82.6	40.0	89.2	37.3	95.9	35.6	103.8	32.9	110.5
	High	750	73.0	69.8	69.8	75.8	66.5	81.8	63.2	87.7	59.8	93.5	56.4	99.3	52.7	104.8	49.1	110.4	45.4	115.8	41.6	121.1
1000	Std	1000	82.1	55.8	78.7	62.6	75.2	69.3	71.6	76.0	68.0	82.7	65.6	90.5	61.8	97.0	58.0	103.5	54.1	109.9	50.4	116.5
	High	1000	98.3	70.6	94.1	76.8	89.9	82.9	85.6	89.0	81.3	95.0	77.0	101.0	72.3	106.7	67.7	112.4	63.0	118.1	58.4	123.9
1250	Std	1250	97.0	51.6	93.0	58.6	89.0	65.7	85.0	72.7	80.9	79.7	76.7	86.6	72.3	93.3	67.9	100.1	63.5	106.9	59.9	114.2
	High	1250	122.6	70.4	117.6	76.7	112.5	83.0	107.3	89.2	102.1	95.3	96.8	101.4	91.2	107.3	85.6	113.2	80.0	119.0	74.4	124.9
1500	Std	1500	121.3	54.6	116.5	61.6	111.5	68.5	106.5	75.5	101.4	82.3	96.3	89.2	90.8	95.8	85.5	102.5	80.0	109.2	75.6	116.5
	High	1500	140.0	66.0	134.3	72.5	128.5	79.0	123.6	86.0	117.7	92.4	111.8	98.7	105.5	104.8	99.2	111.0	92.8	117.1	86.6	123.2
2000	Std	2000	142.3	45.6	136.5	52.9	130.7	60.3	124.8	67.5	118.9	74.8	112.8	82.0	106.6	89.1	100.3	96.3	94.0	103.3	87.5	110.4
	High	2000	167.8	57.3	160.9	64.2	154.0	71.0	146.9	77.7	139.8	84.5	133.7	91.6	126.4	98.3	119.0	104.9	111.5	111.4	103.8	117.9

<sup>1</sup> Data based on 2psig steam pressure @ 10°F superheat vapor.

Table 2. Steam Capacity Correction Factors

Steam Pressure PSIG	Entering Air Temperature Mixture, °F									
	-20	-10	0	10	20	30	40	50	60	70
0	0.97	0.97	0.97	0.96	0.97	0.97	0.97	0.96	0.96	0.96
2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
5	1.02	1.03	1.03	1.04	1.04	1.05	1.05	1.05	1.05	1.05

