

Hourly Zone Loads for Packaged Rooftop AHU

Project Name: Example Problem
Prepared by: Carrier Corporation

08/27/2002
03:25PM

ZONE: D101 - Classroom DESIGN MONTH: JUNE									
Hour	OA TEMP (°F)	ZONE TEMP (°F)	RH (%)	ZONE AIRFLOW (CFM)	ZONE SENSIBLE LOAD (BTU/hr)	ZONE COND (BTU/hr)	TERMINAL COOLING COIL (BTU/hr)	TERMINAL HEATING COIL (BTU/hr)	ZONE HEATING UNIT (BTU/hr)
0000	73.1	80.4	41	44.9	5684.3	0.0	0.0	0.0	0.0
0100	71.9	80.5	41	39.0	5254.0	0.0	0.0	0.0	0.0
0200	70.9	80.6	41	33.4	4855.5	0.0	0.0	0.0	0.0
0300	70.0	80.7	42	27.8	4479.3	0.0	0.0	0.0	0.0
0400	69.2	80.8	42	22.5	4129.7	0.0	0.0	0.0	0.0
0500	68.6	80.9	43	17.8	3806.9	0.0	0.0	0.0	0.0
0600	68.4	81.8	42	17.5	5096.5	0.0	0.0	0.0	0.0
0700	68.8	76.6	49	790.0	13362.3	18003.3	0.0	0.0	0.0
0800	69.8	76.7	49	797.9	14709.8	18231.5	0.0	0.0	0.0
0900	71.5	76.8	49	809.5	15687.4	18567.9	0.0	0.0	0.0
1000	74.1	76.8	49	813.4	16258.7	18680.4	0.0	0.0	0.0
1100	77.0	76.6	48	788.2	15564.7	17951.9	0.0	0.0	0.0
1200	80.4	76.6	48	789.9	15995.6	17999.6	0.0	0.0	0.0
1300	83.5	76.6	47	791.5	16362.4	18046.9	0.0	0.0	0.0
1400	85.8	76.6	47	792.1	16641.0	18061.8	0.0	0.0	0.0
1500	87.4	76.6	47	790.9	16815.9	18027.9	0.0	0.0	0.0
1600	88.0	76.6	47	787.2	16859.7	17921.2	0.0	0.0	0.0
1700	87.4	76.6	47	780.5	16763.0	17729.9	0.0	0.0	0.0
1800	86.0	75.3	45	600.6	9944.6	12874.8	0.0	0.0	0.0
1900	83.9	75.1	45	565.0	9146.3	11980.2	0.0	0.0	0.0
2000	81.3	74.9	46	531.0	8341.7	11142.1	0.0	0.0	0.0
2100	78.8	74.7	46	500.4	7670.1	10402.4	0.0	0.0	0.0
2200	76.6	79.9	40	57.0	6678.8	0.0	0.0	0.0	0.0
2300	74.7	80.2	41	51.6	6156.6	0.0	0.0	0.0	0.0

ZONE: D102 - Classroom DESIGN MONTH: JUNE									
Hour	OA TEMP (°F)	ZONE TEMP (°F)	RH (%)	ZONE AIRFLOW (CFM)	ZONE SENSIBLE LOAD (BTU/hr)	ZONE COND (BTU/hr)	TERMINAL COOLING COIL (BTU/hr)	TERMINAL HEATING COIL (BTU/hr)	ZONE HEATING UNIT (BTU/hr)
0000	73.1	80.4	41	44.9	5684.3	0.0	0.0	0.0	0.0
0100	71.9	80.5	41	39.0	5254.0	0.0	0.0	0.0	0.0
0200	70.9	80.6	41	33.4	4855.5	0.0	0.0	0.0	0.0
0300	70.0	80.7	42	27.8	4479.3	0.0	0.0	0.0	0.0
0400	69.2	80.8	42	22.5	4129.7	0.0	0.0	0.0	0.0
0500	68.6	80.9	43	17.8	3806.9	0.0	0.0	0.0	0.0
0600	68.4	81.8	42	17.5	5096.5	0.0	0.0	0.0	0.0
0700	68.8	76.6	49	790.0	13362.3	18003.3	0.0	0.0	0.0
0800	69.8	76.7	49	797.9	14709.8	18231.5	0.0	0.0	0.0
0900	71.5	76.8	49	809.5	15687.4	18567.9	0.0	0.0	0.0
1000	74.1	76.8	49	813.4	16258.7	18680.4	0.0	0.0	0.0
1100	77.0	76.6	48	788.2	15564.7	17951.9	0.0	0.0	0.0
1200	80.4	76.6	48	789.9	15995.6	17999.6	0.0	0.0	0.0
1300	83.5	76.6	47	791.5	16362.4	18046.9	0.0	0.0	0.0
1400	85.8	76.6	47	792.1	16641.0	18061.8	0.0	0.0	0.0
1500	87.4	76.6	47	790.9	16815.9	18027.9	0.0	0.0	0.0
1600	88.0	76.6	47	787.2	16859.7	17921.2	0.0	0.0	0.0
1700	87.4	76.6	47	780.5	16763.0	17729.9	0.0	0.0	0.0
1800	86.0	75.3	45	600.6	9944.6	12874.8	0.0	0.0	0.0
1900	83.9	75.1	45	565.0	9146.3	11980.2	0.0	0.0	0.0
2000	81.3	74.9	46	531.0	8341.7	11142.1	0.0	0.0	0.0
2100	78.8	74.7	46	500.4	7670.1	10402.4	0.0	0.0	0.0
2200	76.6	79.9	40	57.0	6678.8	0.0	0.0	0.0	0.0
2300	74.7	80.2	41	51.6	6156.6	0.0	0.0	0.0	0.0

NOTE

**The remaining pages of this report
have been left off so as to improve access times.**