

Hourly Air System Design Day Loads for Packaged Rooftop AHU

Project Name: Example Problem
Prepared by: Carrier Corporation

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03:25PM

DESIGN MONTH: JUNE

Hour	OA TEMP (°F)	SUPPLY AIRFLOW (CFM)	CENTRAL COOLING SENSIBLE (MBH)	CENTRAL COOLING TOTAL (MBH)	CENTRAL HEATING COIL (MBH)	PRECOOL COIL (MBH)	PREHEAT COIL (MBH)	TERMINAL COOLING (MBH)	TERMINAL HEATING (MBH)	ZONE HEATING UNIT (MBH)
0000	73.1	417	8.4	17.3	0.0	0.0	0.0	0.0	0.0	0.0
0100	71.9	362	6.8	14.5	0.0	0.0	0.0	0.0	0.0	0.0
0200	70.9	310	5.5	12.1	0.0	0.0	0.0	0.0	0.0	0.0
0300	70.0	258	4.3	9.8	0.0	0.0	0.0	0.0	0.0	0.0
0400	69.2	209	3.4	7.8	0.0	0.0	0.0	0.0	0.0	0.0
0500	68.6	165	2.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0
0600	68.4	162	2.5	5.9	0.0	0.0	0.0	0.0	0.0	0.0
0700	68.8	7228	118.1	277.4	0.0	0.0	0.0	0.0	0.0	0.0
0800	69.8	7195	125.0	284.0	0.0	0.0	0.0	0.0	0.0	0.0
0900	71.5	7264	139.8	301.5	0.0	0.0	0.0	0.0	0.0	0.0
1000	74.1	7331	160.9	325.6	0.0	0.0	0.0	0.0	0.0	0.0
1100	77.0	7293	208.4	300.5	0.0	0.0	0.0	0.0	0.0	0.0
1200	80.4	7364	223.8	316.5	0.0	0.0	0.0	0.0	0.0	0.0
1300	83.5	7433	238.0	331.3	0.0	0.0	0.0	0.0	0.0	0.0
1400	85.8	7500	249.0	342.7	0.0	0.0	0.0	0.0	0.0	0.0
1500	87.4	7648	259.3	353.7	0.0	0.0	0.0	0.0	0.0	0.0
1600	88.0	7711	262.8	357.5	0.0	0.0	0.0	0.0	0.0	0.0
1700	87.4	7724	260.1	354.7	0.0	0.0	0.0	0.0	0.0	0.0
1800	86.0	6237	194.8	268.3	0.0	0.0	0.0	0.0	0.0	0.0
1900	83.9	5875	175.0	247.6	0.0	0.0	0.0	0.0	0.0	0.0
2000	81.3	5487	153.9	225.8	0.0	0.0	0.0	0.0	0.0	0.0
2100	78.8	5213	136.7	207.8	0.0	0.0	0.0	0.0	0.0	0.0
2200	76.6	529	15.6	17.0	0.0	0.0	0.0	0.0	0.0	0.0
2300	74.7	479	10.4	20.7	0.0	0.0	0.0	0.0	0.0	0.0