

Zone Design Load Summary for Packaged Rooftop AHU

Project Name: Example Problem
Prepared by: Carrier Corporation

08/27/2002
03:22PM

D101 - Classroom	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1600 COOLING OA DB / WB 88.0 °F / 72.0 °F			HEATING DATA AT DES HTG HEATING OA DB / WB -6.0 °F / -7.2 °F		
	OCCUPIED T-STAT 74.0 °F			OCCUPIED T-STAT 72.0 °F		
ZONE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	72 ft²	3237	-	72 ft²	-	-
Wall Transmission	203 ft²	287	-	203 ft²	1332	-
Roof Transmission	908 ft²	1042	-	908 ft²	3946	-
Window Transmission	72 ft²	490	-	72 ft²	3645	-
Skylight Transmission	0 ft²	0	-	0 ft²	0	-
Door Loads	0 ft²	0	-	0 ft²	0	-
Floor Transmission	908 ft²	0	-	908 ft²	1459	-
Partitions	0 ft²	0	-	0 ft²	0	-
Ceiling	0 ft²	0	-	0 ft²	0	-
Overhead Lighting	2940 W	5800	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	25	4471	3000	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	1533	300	20%	2076	0
>> Total Zone Loads	-	16860	3300	-	12458	0

D102 - Classroom	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1600 COOLING OA DB / WB 88.0 °F / 72.0 °F			HEATING DATA AT DES HTG HEATING OA DB / WB -6.0 °F / -7.2 °F		
	OCCUPIED T-STAT 74.0 °F			OCCUPIED T-STAT 72.0 °F		
ZONE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	72 ft²	3237	-	72 ft²	-	-
Wall Transmission	203 ft²	287	-	203 ft²	1332	-
Roof Transmission	908 ft²	1042	-	908 ft²	3946	-
Window Transmission	72 ft²	490	-	72 ft²	3645	-
Skylight Transmission	0 ft²	0	-	0 ft²	0	-
Door Loads	0 ft²	0	-	0 ft²	0	-
Floor Transmission	908 ft²	0	-	908 ft²	1459	-
Partitions	0 ft²	0	-	0 ft²	0	-
Ceiling	0 ft²	0	-	0 ft²	0	-
Overhead Lighting	2940 W	5800	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	25	4471	3000	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	1533	300	20%	2076	0
>> Total Zone Loads	-	16860	3300	-	12458	0

Zone Design Load Summary for Packaged Rooftop AHU

Project Name: Example Problem
Prepared by: Carrier Corporation

08/27/2002
03:22PM

D103 - Classroom	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1600 COOLING OA DB / WB 88.0 °F / 72.0 °F			HEATING DATA AT DES HTG HEATING OA DB / WB -6.0 °F / -7.2 °F		
	OCCUPIED T-STAT 74.0 °F			OCCUPIED T-STAT 72.0 °F		
ZONE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	72 ft²	3237	-	72 ft²	-	-
Wall Transmission	203 ft²	287	-	203 ft²	1332	-
Roof Transmission	908 ft²	1042	-	908 ft²	3946	-
Window Transmission	72 ft²	490	-	72 ft²	3645	-
Skylight Transmission	0 ft²	0	-	0 ft²	0	-
Door Loads	0 ft²	0	-	0 ft²	0	-
Floor Transmission	908 ft²	0	-	908 ft²	1459	-
Partitions	0 ft²	0	-	0 ft²	0	-
Ceiling	0 ft²	0	-	0 ft²	0	-
Overhead Lighting	2940 W	5800	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	25	4471	3000	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	1533	300	20%	2076	0
>> Total Zone Loads	-	16860	3300	-	12458	0

D104 - Classroom	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Aug 1600 COOLING OA DB / WB 91.0 °F / 74.0 °F			HEATING DATA AT DES HTG HEATING OA DB / WB -6.0 °F / -7.2 °F		
	OCCUPIED T-STAT 74.0 °F			OCCUPIED T-STAT 72.0 °F		
ZONE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	72 ft²	3033	-	72 ft²	-	-
Wall Transmission	533 ft²	725	-	533 ft²	3498	-
Roof Transmission	908 ft²	973	-	908 ft²	3946	-
Window Transmission	72 ft²	630	-	72 ft²	3645	-
Skylight Transmission	0 ft²	0	-	0 ft²	0	-
Door Loads	0 ft²	0	-	0 ft²	0	-
Floor Transmission	908 ft²	0	-	908 ft²	2357	-
Partitions	0 ft²	0	-	0 ft²	0	-
Ceiling	0 ft²	0	-	0 ft²	0	-
Overhead Lighting	2940 W	5800	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	25	4471	3000	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	1563	300	20%	2689	0
>> Total Zone Loads	-	17196	3300	-	16135	0

NOTE

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