



System 1 Room Load Summary

8,375

4,670

4,710

4,572

No	Room Name	Area SF	Htg Sens Btuh	Min Htg CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Min Clg CFM	Act Sys CFM
---Zone 1---										
1	Living/Dining	324	3,993	54	1-6	536	2,219	139	105	105
2	Kitchen	120	1,995	27	2-4	679	2,498	1,276	119	119
3	Powder Room	32	689	9	1-4	103	189	26	9	9
4	Hallway/Closet	32	0	0	0-0	0	0	0	0	0
5	Mud Room	48	1,399	19	1-4	226	415	46	20	20
6	Stairs	48	299	4	1-4	27	49	13	2	2
7	Master Hall/ Closet	40	0	0	0-0	0	0	0	0	0
8	Master Bedroom	217	1,911	26	1-6	504	2,085	467	99	99
9	Walk In Closet	26	0	0	0-0	0	0	0	0	0
10	Master Bath	126	2,759	37	1-4	522	960	110	46	46
Zone 1 subtotal		1,013	13,046	177			8,415	2,077	399	399
---Zone 2---										
11	Bedroom 3	224	3,774	51	1-6	449	1,858	345	88	88
12	Upper Floor Bath	54	0	0	0-0	0	0	0	0	0
13	Gallery	100	936	13	1-4	82	150	41	7	7
14	Stairwell	63	876	12	1-4	233	429	35	20	20
15	Bedroom 2	225	3,696	50	1-6	464	1,919	342	91	91
Zone 2 subtotal		666	9,283	126			4,356	763	207	207
Duct Latent								718		
System 1 total		1,679	22,329	303			11,457	3,558	544	544

Sens: 5370

Lat: 1500

Sens: 3045

Lat: 577

Sens: 2008

Lat: 386

Sens: 2348

Lat: 377

System 1 Main Trunk Size: 8x14 in.
Velocity: 699 ft./min
Loss per 100 ft.: 0.104 in.wg

Note: Since the system is multizone, the Peak Fenestration Gain Procedure was used to determine glass sensible gains at the room and zone levels, so the sums of the zone sensible gains and airflows for cooling shown above are not intended to equal the totals at the system level. Room and zone sensible gains and cooling CFM values are for the hour in which the glass sensible gain for the zone is at its peak. Sensible gains at the system level are based on the "Average Load Procedure + Excursion" method.