

Heat Loss Summary



Project #: 2014-035

Date: August 29, 2014

Prepared For: Optimal Building Systems LLC
David Butler

Bluewater Mechanical Inc 1048 Cox Cro Rd Toms River, NJ 08755
Prepared By: Richard McGrath Phone: 732-581-3833 Email: dmcgrath40@comcast.net

Project Summary

Project #:	2014-035	Total-Components Load:	22,979 Btu/hr
Project Name:	Anders Varga Residence	Total Infiltration Load:	7,931 Btu/hr
Location:		Total Floor Downward Load:	4,496 Btu/hr
CloseDate:		Total-Radiant Into Rooms:	30,910 Btu/hr
Engineer:		Total-Supplemental Load:	0 Btu/hr
Design Data Location:	(User-Specified Location)	Total-Project Heat Loss:	35,406 Btu/hr
Outdoor Temperature:	7 °F	RFH Glycol Level:	100% Water
Wind Speed:	15 mph	Design Temp. Drop:	10 °F
Total Area:	3,824 ft²	Radiant Tubing Volume:	95.2 gallons(US)
Construction Quality:	Best	Volume Water:	95.2 gallons(US)
		Volume Glycol:	0 gallons(US)

Heat Loss Data

Floorplan 1

Room	Area	Heated Area	Walls	Windows	Doors	Ceiling Upward	Skylights	Infiltration	Radiant Into Room	Floor Downward	Total Radiant Load	Total Room Load	Design Temp. Drop
Kitchen	551	465	996	632	313	878	0	1,109	3,928	528	4,456	4,456	10
Great Room	329	254	526	388	313	524	0	1,104	2,855	339	3,194	3,194	10
Sun Room	152	117	499	1,264	626	242	0	306	2,938	384	3,322	3,322	10

Units: Heat Loss = Btu/hr, Area = ft², Temperature = °F

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Sauna Bath	160	147	798	130	340	277	0	350	1,894	333	2,227	2,227	10
Laundry	152	127	109	123	0	242	0	306	780	81	862	862	10
Utility Room	97	97	573	0	0	168	0	340	1,080	237	1,317	1,317	10
Garage	770	530	1,758	0	731	900	0	2,136	5,525	832	6,357	6,357	10
Dining Room	168	138	174	849	0	268	0	234	1,525	200	1,724	1,724	10
Foyer / Powder Room	145	138	131	0	626	231	0	202	1,191	158	1,349	1,349	10
Library	179	137	183	632	0	285	0	249	1,350	181	1,531	1,531	10
Bed Room 2	183	140	230	557	0	292	0	255	1,333	193	1,526	1,526	10
Bed 2 Bath	38	33	0	0	0	64	0	56	119	8	127	127	10
Bed Room 3	183	140	232	544	0	292	0	255	1,322	192	1,514	1,514	10
Bed 3 Bath	38	33	0	0	0	64	0	56	119	8	127	127	10
Interior Hall	129	129	0	0	0	206	0	180	385	26	411	411	10
Master Bath	241	207	654	690	0	417	0	365	2,127	396	2,523	2,523	10
Master Bedroom	309	242	572	945	0	492	0	431	2,439	401	2,839	2,839	10

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