

System 1 Room Load Summary

Room 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	Master Bedroom	267	3,651	67	2-6	366	2,725	567	125	144
2	M Bath	173	1,387	25	1-6	334	1,243	738	57	66
3	Master Closet	121	137	3	1-4	129	213	0	10	11
4	Bath 2	110	125	2	1-4	117	193	250	9	10
5	Bedroom 2	210	2,634	48	1-6	424	1,577	118	72	83
6	Bedroom 3	165	2,184	40	1-6	340	1,264	99	58	67
7	Bedroom 4	200	2,992	55	1-6	409	1,522	143	70	80
8	Foyer	72	1,455	27	1-4	464	767	58	35	40
9	Dining	150	3,588	66	1-6	583	2,169	171	99	114
10	Kitchen	264	1,936	35	1-7	593	3,001	648	137	158
11	Pantry	48	1,168	21	1-4	224	371	65	17	20
12	Drop Zone	94	1,786	33	1-4	487	806	84	37	43
13	Laundry	66	1,980	36	1-4	486	804	362	37	42
14	Living Room	463	3,890	71	2-7	601	6,081	745	278	321
	Ventilation		4,266				1,860	3,496		
	Duct Latent							190		
	Return Duct		610				1,150	402		
	System 1 total	2,401	33,790	529			25,745	8,136	1,039	1,200
System 1 Main Trunk Size:			16x16 in.							
Velocity:			675 ft./min							
Loss per 100 ft.:			0.237 in.wg							

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	2.82	76% / 24%	25,745	8,136	33,881
Actual:	2.98	77% / 23%	27,566	8,234	35,800

Equipment Data

	Heating System	Cooling System
Type:	Air Source Heat Pump	Air Source Heat Pump
Model:	25HBC536A*030*	25HBC536A*030*
Indoor Model:		FX4DN(B,F)049L
Brand:		
Description:	Air Source Heat Pump	Air Source Heat Pump
Efficiency:	8.5 HSPF	15 SEER
Sound:	0	0
Capacity:	34,800 Btuh	35,800 Btuh
Sensible Capacity:	n/a	27,566 Btuh
Latent Capacity:	n/a	8,234 Btuh
AHRI Reference No.:	n/a	10514204

This system's equipment was selected in accordance with ACCA Manual S.
 Manual S equipment sizing data: SODB: 92F, SOWB: 77F, WODB: 33F, SIDB: 75F, SIRH: 50%, WIDB: 72F, Sen. gain: 25,745 Btuh, Lat. gain: 8,136 Btuh, Sen. loss: 33,790 Btuh, Entering clg. coil DB: 77.3F, Entering clg. coil WB: 64.2F, Entering htg. coil DB: 68.3F, Clg. coil TD: 20F, Htg. coil TD: 50F, Req. clg. airflow: 1039 CFM, Req. htg. airflow: 529 CFM

Architectural floor plan of a house with handwritten annotations. The plan includes rooms such as the Front Porch, Living Room, Kitchen, Dining, Laundry, and three Bedrooms. Numerous handwritten notes in black ink are scattered throughout, including dimensions like "12x6x7", "10x6x6", and "12x12x6 FBG". There are also notes like "RA 12x12x10" and "RA 10x10x8". The plan is framed by a grid with dimensions along the top and bottom edges.

$$1/4'' = 1'-0''$$

7/11/2019

— Σ S.W. LONG