



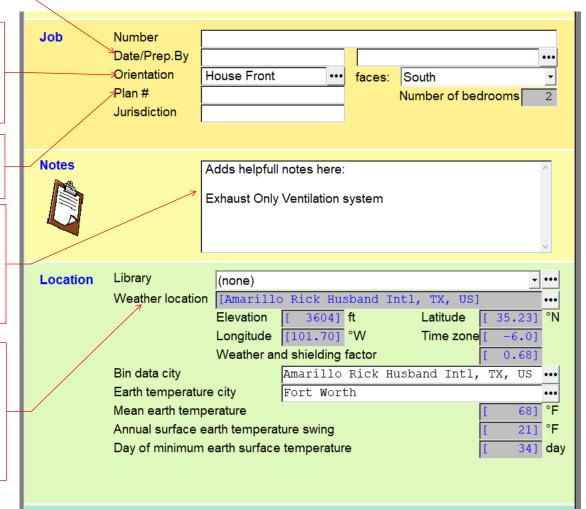
Design date would be nice but not required.

This would be for a custom home. We will show you later for worst case direction for a production home.

Model home plan number or custom home.

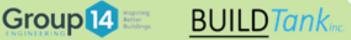
Add any special notes here for the plan review personnel. Indicating the whole house ventilation system is very helpful.

Not all locations are in the data base. Choose the location that is reasonably close to the actual location. The example is Amarillo, TX.

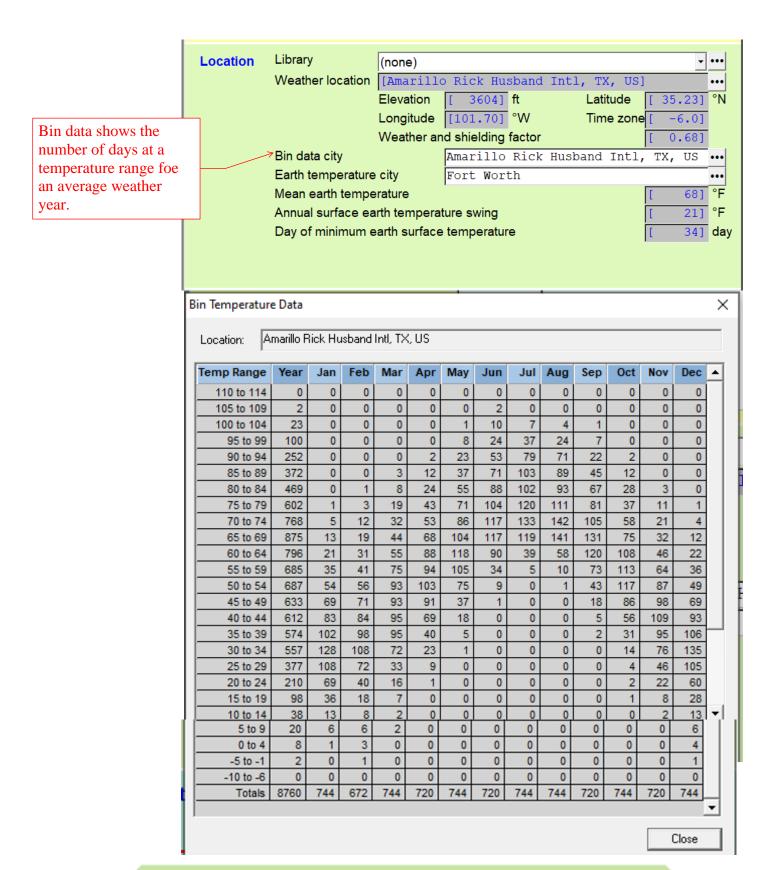


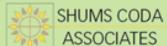










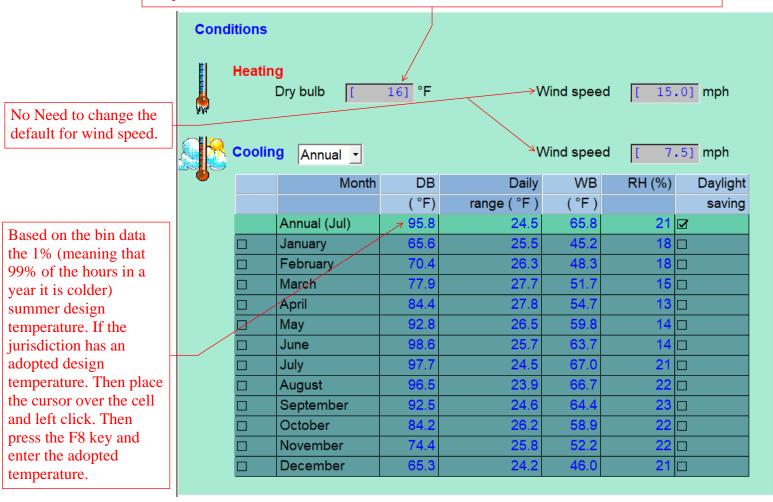








Based on the bin data the 99% (meaning that only 1% of the hours in a year is it colder) winter design temperature. If the jurisdiction has an adopted design temperature, then place the cursor over the cell and left click. Then press the F8 key and enter the adopted temperature.

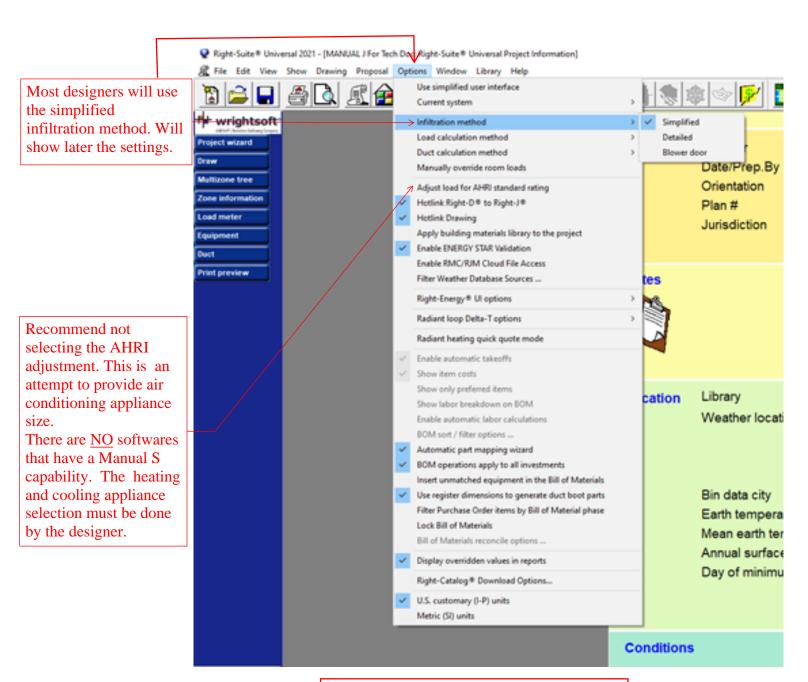








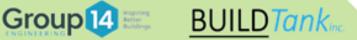




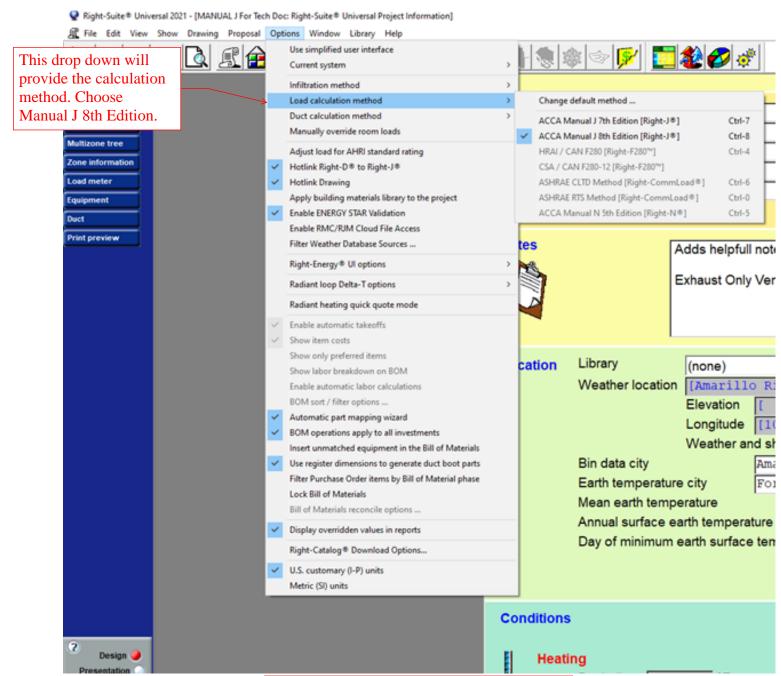
I know sorry for the blurry picture





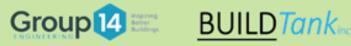






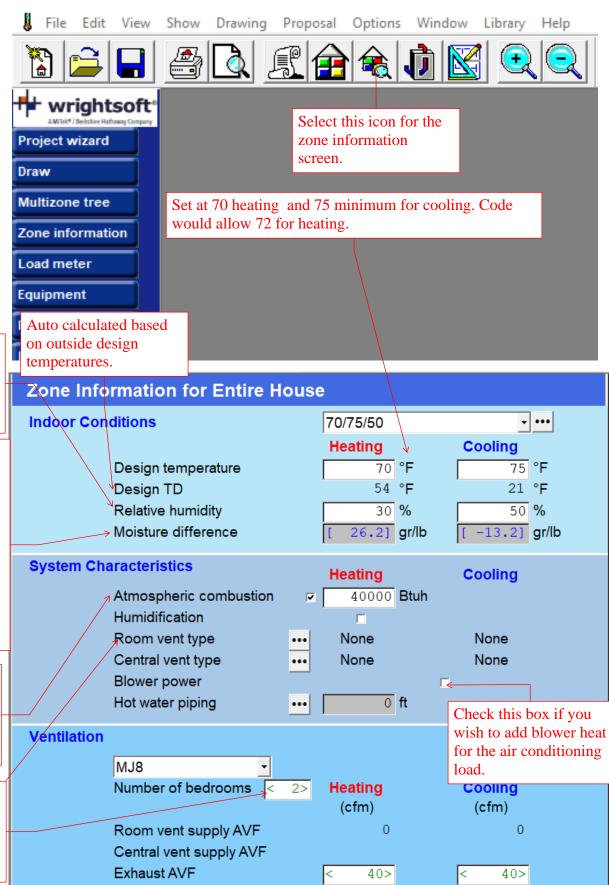
I know sorry for the blurry picture











BUILD Tanking

50% RH at 75° is considered "comfort" for a residential occupancy. Keep heating design at 30% maximum.

This will be based on your location. Amarillo, Texas is reasonably dry as is Colorado. So the grains difference for cooling will be a negative number. Places Florida would be a positive number. This will determine the latent load for cooling.

If you have any combustion air. Enter the Btuh for the appliances requiring combustion air.

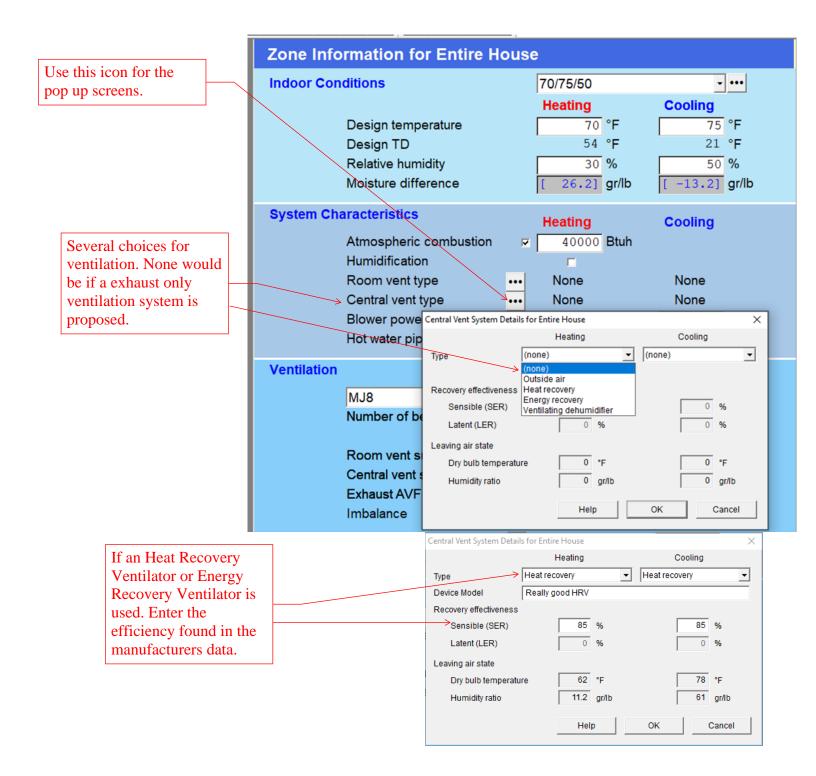
If you are providing individual ventilation for each bedroom, then enter the number of bedrooms here.

SHUMS CODA

ASSOCIATES

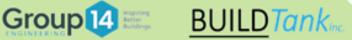
Group 14



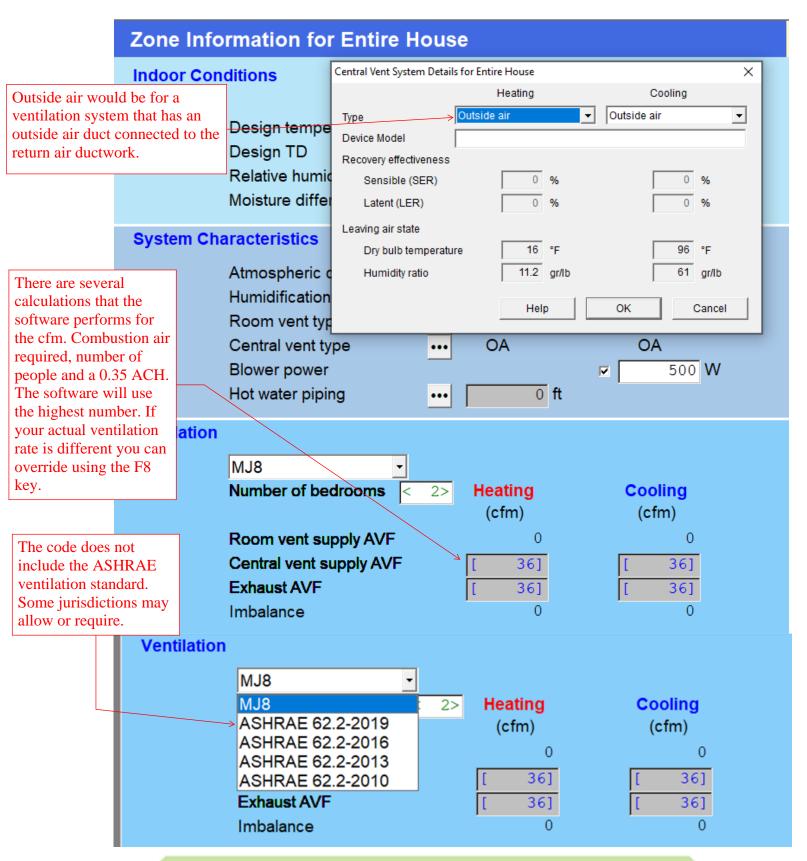


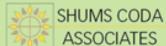








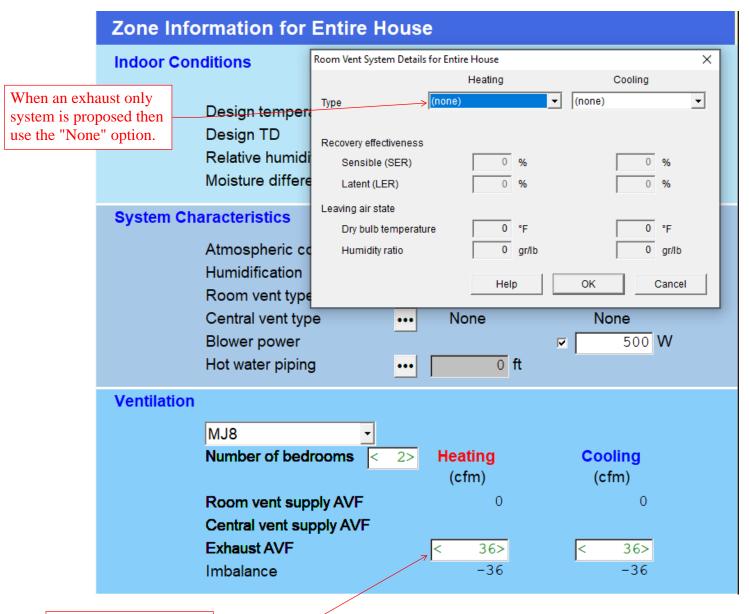












Use the F8 key to enter the proposed exhaust ventilation CFM. The software will calculate as infiltration.

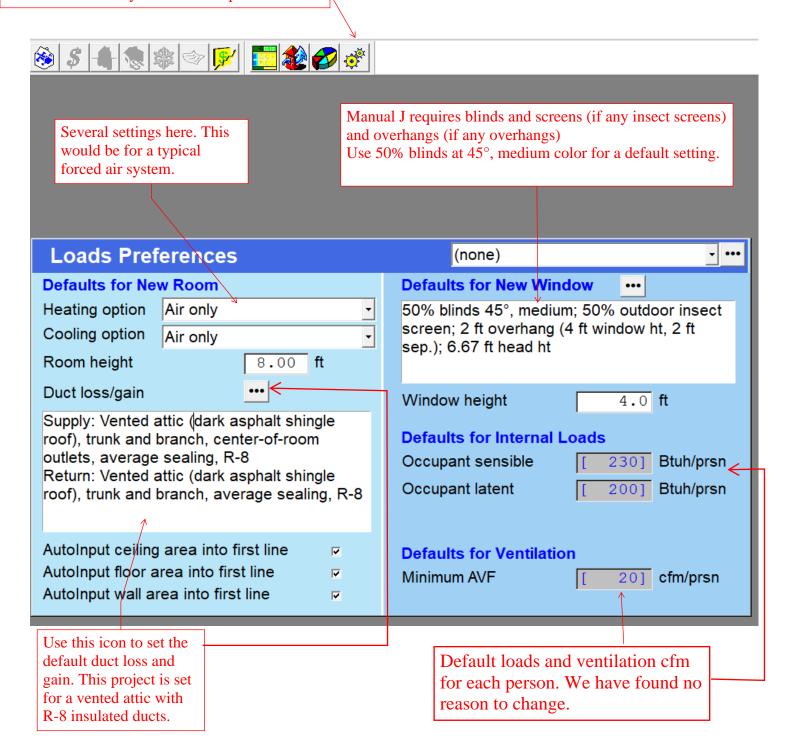








This icon will take you to the load preferences.











This icon will take you to the infiltration screen.



You have choices. Tight, Semi-Tight, Average, Semi-Loose and Loose. For new homes never use Semi-Loose or Loose. Using average as a starting place for new homes is acceptable. As your designer gets comfortable with consistent blower door test results, many will use Semi-Tight and Tight.

Simplified Method Infiltration for Entire House Conditions □ Isolated zone Construction quality Average Number of above grade stories Exposures 0 1 or 2 3 or 4 Number of fireplaces 0 Fireplace quality Average Summary Heating Cooling Conditioned floor area 18081 ft² 18081 ft² Above grade volume 14464] ft³ 14464] ft³ Air change rate 0.3801 ach 0.2001 ach Unadjusted AVF 921 cfm 481 cfm Vent adjustment 0 cfm 0 cfm



Net AVF



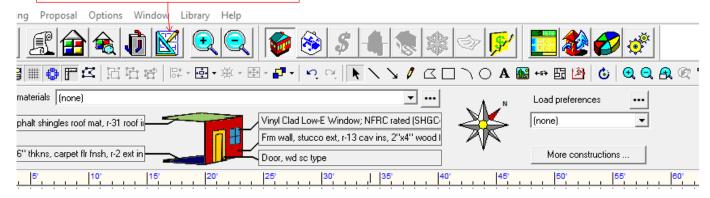
92 cfm

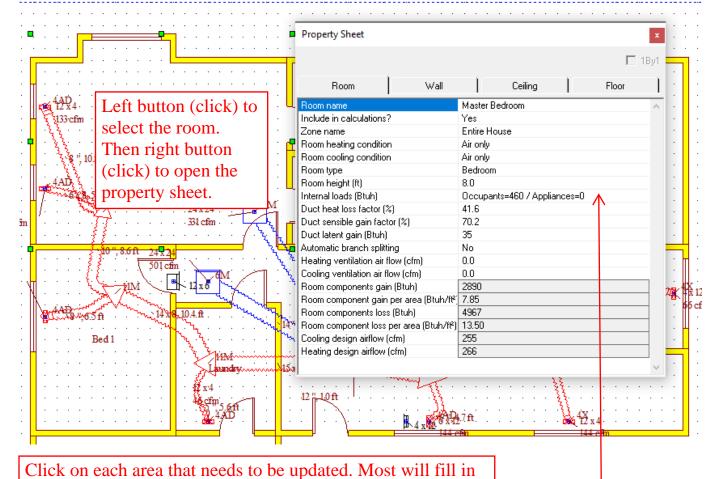


48 cfm



This icon will open the draw screen.





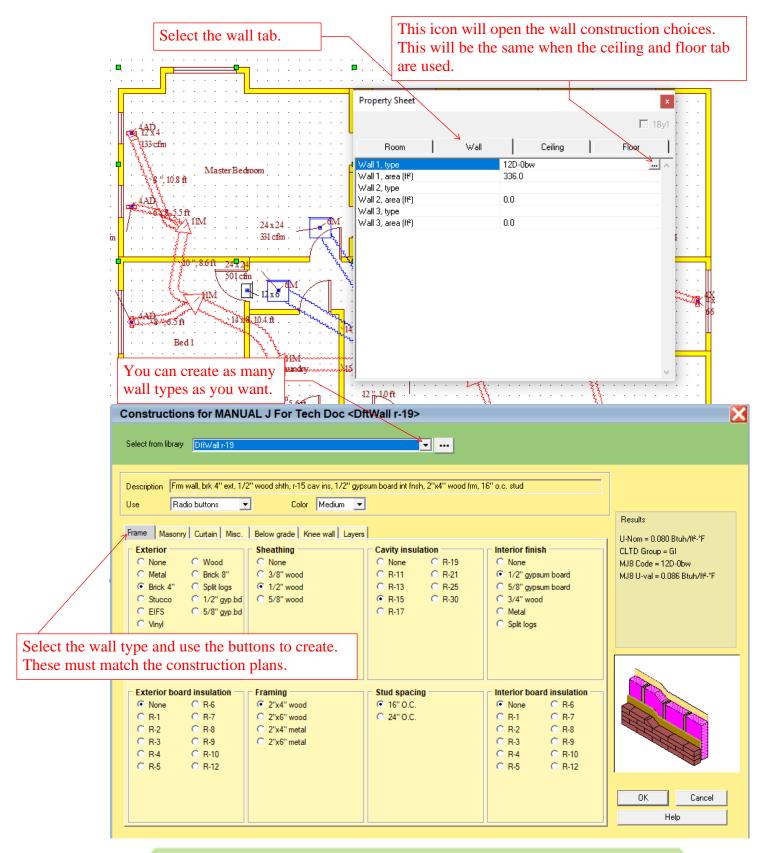


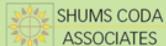
automatically. The number of occupants is entered here.







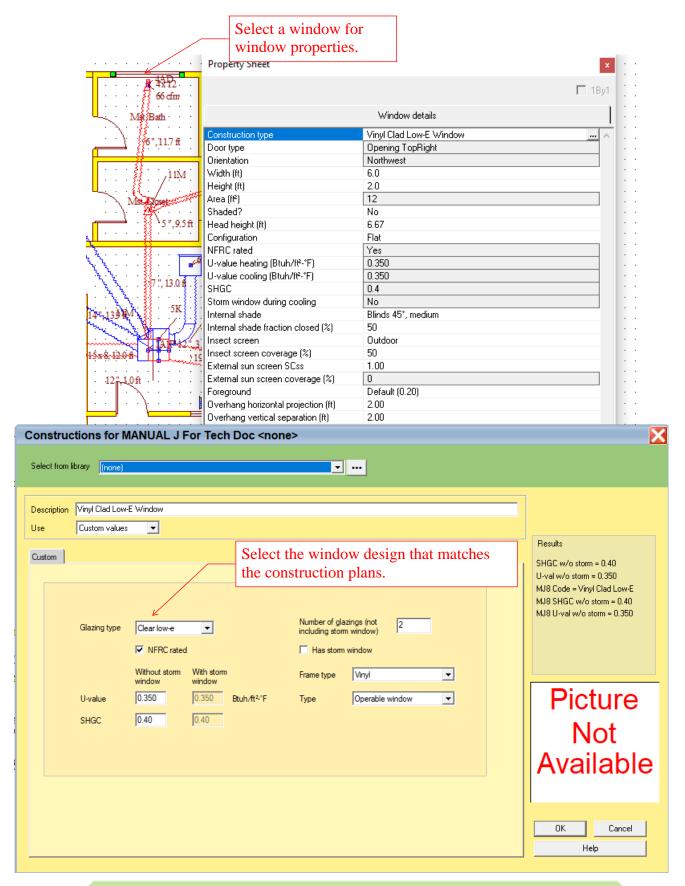


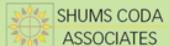








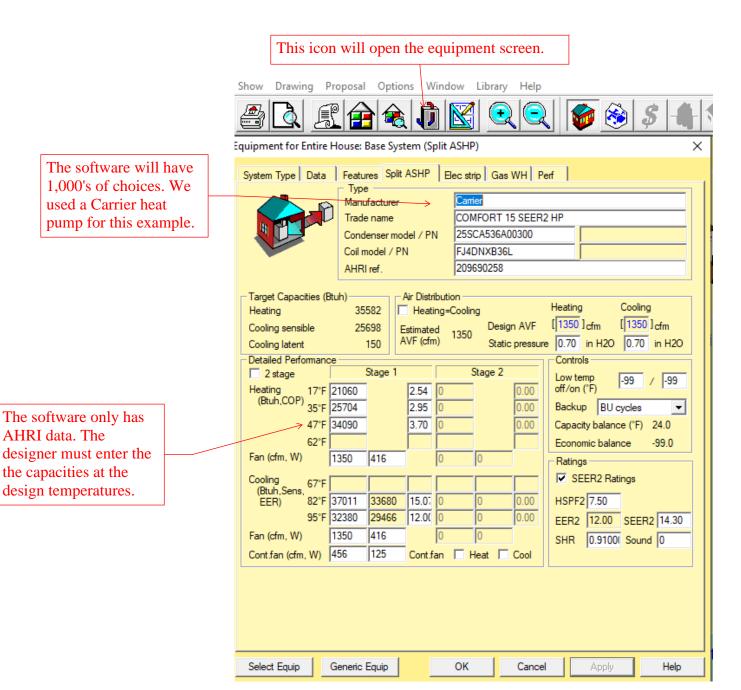






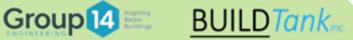














Used these values from the manufacturers expanded performance data.

DETAILED COOLING CAPACITIES# (Continued)

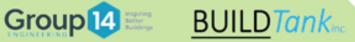
=1/4=		CONDENSER ENTERING AIR TEMPERATURES °F (°C)													
EVAPORATOR AIR		75.0 (23.9)				85.0 (29.4	1)		95.0 (35.0)	105.0 (40.6)				
CFM	EWB	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys		
CFM	EWB	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**		
				25SCA536A003 Outdoor Section With FJ4DNXB36L* Indoor Section											
	72.0 (22.2)	41.65	21.37	2.29	39.73	20.65	2.56	37.70	19.88	2.81	35.53	19.08	3.10		
	67.0 (19.4)	37.84	26.35	2.33	36.07	25.61	2.59	34.20	24.83	2.85	32.20	24.01	3.14		
1060	63.0 (17.2)††	35.05	25.33	2.34	33.41	24.59	2.61	31.65	23.80	2.87	29.77	22.97	3.15		
	62.0 (16.7)	34.43	31.15	2.34	32.85	30.37	2.61	31.16	29.52	2.87	29.40	28.59	3.15		
	57.0 (13.9)	33.21	33.21	2.34	31.95	31.95	2.61	30.59	30.59	2.87	29.12	29.12	3.15		
	72.0 (22.2)	42.35	22.32	2.33	40.36	21.58	2.59	38.26	20.80	2.84	36.01	19.99	3.13		
	67.0 (19.4)	38.52	27.88	2.36	36.73	27.17	2.63	34.73	26.33	2.89	32.65	25.53	3.17		
1200	63.0 (17.2)††	35.69	26.76	2.38	33.97	25.98	2.65	32.15	25.22	2.91	30.21	24.37	3.19		
	62.0 (16.7)	35.17	33.16	2.38	33.55	32.30	2.65	31.96	31.04	2.91	30.19	30.19	3.19		
	57.0 (13.9)	34.46	34.46	2.38	33.13	33.13	2.65	31.69	31.69	2.91	30.14	30.14	3.19		
1350	72.0 (22.2)	42.92	23.27	2.36	40.87	22.52	2.62	38.70	21.74	2.88	36.39	20.92	3.17		
	67.0 (19.4)	39.04	29.46	2.41	37.15	28.70	2.67	35.15	27.89	2.93	33.03	27.01	3.22		
	63.0 (17.2)††	36.22	28.22	2.42	34.43	27.45	2.69	32.38	26.55	2.95	30.58	25.76	3.23		
	62.0 (16.7)	35.86	35.05	2.42	34.24	34.24	2.69	32.73	32.73	2.95	31.07	31.07	3.23		
	57.0 (13.9)	35.60	35.60	2.43	34.18	34.18	2.69	32.67	32.67	2.95	31.03	31.03	3.23		

HEAT PUMP HEATING PERFORMANCE

INDOOR AIR			OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																
		-3.0 (-19.4)		7.0 (-13.9)		17.0 (-8.3)			27.0 (-2.8)			37.0 (2.8)			47.0 (8.3)				
EDB	CFM	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.
		Total	Integ*	KW†	Total	Integ*	KW†	Total	Integ*	KW†	Total	Integ*	KW†	Total Integ	Integ*	KW†	Total	Integ*	KW†
									25SC	A536A003 O	utdoor	Section V	ith FJ4DNX	B36L* Ir	ndoor Se	ction			
	1060	13.57	12.48	2.18	17.01	15.63	2.19	21.01	19.16	2.26	25.84	22.95	2.39	30.04	27.34	2.49	34.58	34.58	2.60
65.0 (18.3)	1200	13.82	12.71	2.20	17.30	15.90	2.20	21.35	19.47	2.27	26.14	23.22	2.38	30.41	27.67	2.48	35.06	35.06	2.58
	1350	14.06	12.93	2.23	17.57	16.14	2.22	21.65	19.74	2.28	26.43	23.48	2.39	30.76	27.99	2.48	35.49	35.49	2.57
	1060	12.97	11.93	2.28	16.42	15.09	2.29	20.40	18.60	2.35	25.37	22.54	2.48	29.53	26.87	2.59	34.00	34.00	2.69
70.0 (21.1)	1200	13.24	12.18	2.31	16.72	15.36	2.31	20.74	18.91	2.37	25.71	22.84	2.48	29.91	27.22	2.58	34.47	34.47	2.68
	1350	13.47	12.39	2.34	16.99	15.61	2.33	21.06	19.20	2.39	26.01	23.10	2.49	30.27	27.55	2.58	34.90	34.90	2.67
75.0 (23.9)	1060	12.31	11.32	2.36	15.76	14.48	2.37	19.74	18.00	2.44	24.24	21.53	2.55	29.02	26.41	2.68	33.42	33.42	2.79
	1200	12.56	11.55	2.39	16.05	14.75	2.39	20.08	18.31	2.45	24.77	22.00	2.56	29.40	26.75	2.67	33.88	33.88	2.78
	1350	12.81	11.78	2.43	16.34	15.01	2.42	20.40	18.60	2.47	25.51	22.66	2.59	29.74	27.06	2.68	34.30	34.30	2.77

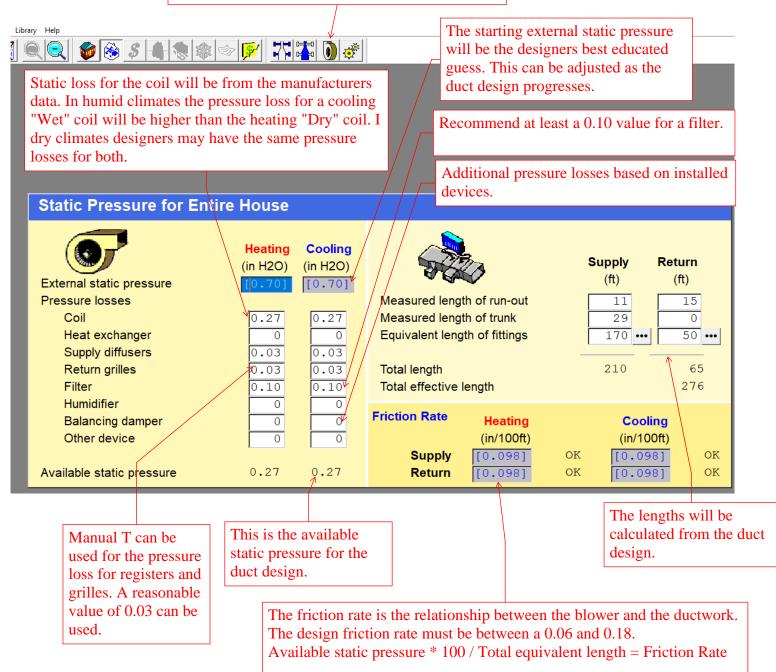


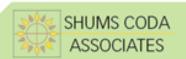






This icon will open the blower information screen.







0.27*100/276 = 0.098





This icon will open the duct preferences information screen. Flex/Flex Junc Boxes -Duct Preferences for Entire House □ Separate per floor **Duct / Register Preferences** Supply Return Branch Trunk Branch Trunk VinlFlx ••• VinlFlx VinlFlx ••• VinlFlx Duct material 0 Rect ▼ Duct height 0 Rect ▼ 0 Rect ▼ 0 Rect ▼ in in Maximum velocity 600 600 fpm 600 600 fpm Minimum velocity 200 200 200 200 fpm fpm Minimum diameter 4 in in Round ducts sizes Std roun - ... Std roun -Std roun - ... Std roun -Rect/oval duct sizes (none) - ··· (none) (none) - (none) Insulation Low or Non - Low or Non -Low or Non - Low or Non -|12.0 Register shape/size in -24.0×12.0 Round Rect Register type/material Ceiling diffuser three - Metal Ceiling diffuser four \ - Metal Autosize registers Supply register sizes ... Return register sizes ... Face Vel / Free area (%) 400 400 80 80 User defined Duct layout Duct size Round to nearest inch Auto regs placement None Automatic trunk reduction 8000 Max SB heating Use variable friction rate Btuh 4000 Max SB cooling Btuh Bi-level zoning

> The designer has many choices for duct design. This has been st up for a flex duct system that will be located in the attic.

3.0 ft



Auto flex end

None







This icon will open the draw screen. 60€0 2060 30€0 3020 10 Mst. Bath .162 cfm 162 cfm ", 5.9 ft Kitchen 15." 377 cfm 16'-0" 11M 3@20 Mst. Closet 11 ", 11.3 ft 18 x 12 12 ", 8.0 ft 458 cfm ", 10.0 ft 32'-0' 23×12 ", 6.5 ft 3060 Dining Bed 1 18 ", 5.1 f 11 176 cfm How to draw rooms and ducts will be for another basics help document. 22'-0"





