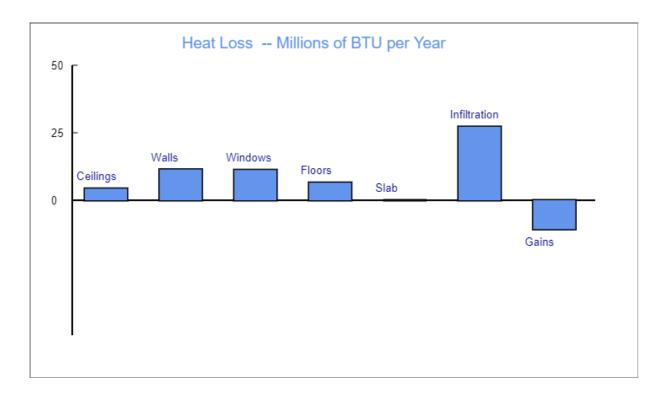
Design Temperat	ture and Fu	uel Type I	nputs							
Title		Brian's H	•							
Design outdoor Temperature				Decrees F		Coldest temperature expected in a "normal" year <u>more</u>				
Heating Degree Days		7000		Degree F - day		Heating Degree Days		Days <u>mo</u>	more	
 Natural Gas Fuel Oil Propane Electricity 						90		Furnace E <u>more</u>	urnace Efficiency (%)	
Area and Rvalue										
Ceilings		Ceilings Enter the area and R value for each ceiling area in the house that is exposed to outside temperatures. <u>Help on R values</u> Area UA Design Loss Yearly Heat Loss								
	Area (sqft)	(sqft)		Rvalue)	Design Loss (BTU/hr)		Yearly Heat Loss (million BTU/yr)	
Ceiling 1	768	768		30			1792		4.3	
Ceiling 2	0	0			0		0		0	
Ceiling 3	0	0			0		0		0	
Ceiling 4	0				0		0		0	
		Enter the area and R value for each wall area in the house that is exposed to outside temperatures. Do not include window and door area.								
Walls	Area (sqft)		Rvalue		UA (BTU/hr-F)		Design Loss (BTU/hr)		Yearly Heat Loss (million BTU/yr)	
wall 1	886				68.2		4771		11.4	
wall 2	0	0		0			0		0	
wall 3	0	0		0			0		0	
wall 4	0	0		0			0		0	
Windows & Doors	(U = 1/R, s Area	Enter the area and R value for each group of windows or doors having the same R value. (U = 1/R, so a window listed with a U of 0.33 has an R value of 3) Area Rvalue (DTLUter E) (DTLUter E) (DTLUter E) (DTLUter E) (DTLUter E)								
(sqft)				(BIU/nr-F) (BTU/hr) 4667)	(million BTU/yr)	
Group 1		120				66.7			11.2	
Group 2	0		0		0		0		0	
Group 3		0				0			0	
Group 4	0 0 0 0 0									
Floors	is expos	Floors - Wood Joist Type Enter the area and R value for each floor area in the house that is exposed to outside temperatures. <u>Estimating R Value for crawl spaces</u>								
	Area (sqft)		Rvalue 20		UA (BTU/hr-F)		Design Loss (BTU/hr)		Yearly Heat Loss (million BTU/yr)	
Floor 1		768			38.4		2688		6.5	
Floor 2	0		0		0		0		0	
Floor 3	0		0		0		0		0	
Floor 4	0		0		0		0		0	
Slabs	length of	Slab on Grade Floors Heat loss from slab on grade floors is primarily dependent on the length of the perimeter and not the area of the floor. "Rvalue" here is the effective R value per foot of perimeter. <u>Estimating effective R Value for slabs</u>								
	Perimete	er (ft)		e per ft of eter (1)	UA (BTU/hr-F)	Design I (BTU/hr)		Yearly Heat Loss (million BTU/yr)	
Full Slab	0		2.0		0		0		0	
Infiltration	times the Typical A 0.33 0.5 tie 1.0 le House V	House Volume is the total volume of the heated space of the house cubic feet (floor area times the ceiling height) Typical Air Changes Per Hour: 0.33 very tight minimum for health 0.5 tight new, careful construction 1.0 leaky typical existing construction?? House Volume Air Changes per UA Design Loss								
	(cubic ft)		hour		(BTU/hr-F)	(BTU/hr)		(million BTU/yr)	
Whole House	18000		0.5		162		11340		27.2	
Internal Heat	These a	re heat ga	ins fror	n warm bod	ies, lights,	applianc	es,			

Home Heat Loss Calculator

Gains	This is heat that your furnace does not need to provide. If you don't want to account for internal heat gains, enter 0 for the number of occupants							
	Number of Occupants		Internal <i>Gains</i> (BTU/hr)		Yearly Heat Loss (million BTU/yr)			
	3		1227	-1227	-10.7			

Summary Outpu	u ts (see table ab	ove for detail outputs)							
Calculate	Click to update Heat Loss results.								
Item	UA (BTU/hr-F)	Design Loss (BTU/hr)	Year Loss (Million BTU/yr)	Fuel Cost (US dollars)	Ten Year Cost 10% infla \$"s	Greenhouse Gas (lb CO2)			
Ceiling Loss	26	1792	4.3	79	1262	543			
Wall Loss	68	4771	11.4	211	3360	1446			
Window Loss	67	4667	11.2	206	3287	1415			
Floor Loss	38	2688	6.5	119	1893	815			
Slab Loss	0	0	0	0	0	0			
Infiltration	162	11340	27.2	501	7986	3438			
Totals	361	25257	60.6	1117	17788	7657			
Internal Gains	Internal heat gains (warm bodies, lights,) supply some of the heat listed above the line below shows approximately the contribution of internal heat gains this is heat that your furnace does NOT have to supply.								
		-1227	-10.7	-198	-3153				



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