Design outdoor Temperature		27		Degrees F		Coldest temperature expected in a "normal" year more						
Heating Degree Days		4500		Degree F - day		Heating Degree Days			more			
O Natural Gas				_	•			_	_			
Fuel Oil								Furna	ce Efficiency (%)			
O Propane		3.5		\$'s per gall	on	80		more				
O Electricity												
Area and Rvalue	laminta.			//		_						
Area and Rvalue		Entor	the are	o and D val	un for onah	ooilina	area in the	house	that is exposed to			
Ceilings		temperati				coming area in the hous			tilat is exposed to			
	Area		1	70	UA		Design Los	ss	Yearly Heat Loss			
	(sqft)		Rvalue		(BTU/hr-F)		(BTU/hr)		(million BTU/yr)			
Ceiling 1	1000		13		76.9		3308		8.3			
Ceiling 2	0		0		0		0		0			
Ceiling 3	0		0		0		0		0			
Ceiling 4	0		0		0		0		0			
	Enter the area and R value for each wall area in the house that is exposed to outside											
Walls	temperatures. Do not include window and door area.											
	Area (sqft)		Rvalue		UA (BTU/hr-F)		Design Loss (BTU/hr)		Yearly Heat Loss (million BTU/yr)			
wall 1	2208				169.8		7303		18.3			
wall 2	0		13		0		0		0			
wall 3	0		0		0		0		0			
wall 4	0				0		0		0			
Windows &	Enter th	0 0 0 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)										
Doors	Area				UA				Yearly Heat Loss			
	(sqft)		Rvalue		(BTU/hr-F)		(BTU/hr)		(million BTU/yr)			
Group 1	414	414			207		8901		22.4			
Group 2	80		.81		98.8		4247		10.7			
Group 3		55.5			22.2		955		2.4			
Group 4	0		0		0		0		0			
Floors	that is e	Floors - Wood Joist Type Enter the area and R value for each floor area in the house that is exposed to outside temperatures. Estimating R Value for crawl spaces										
	Area (sqft)		Rvalue		UA (BTU/hr-F)		Design Loss (BTU/hr)		Yearly Heat Loss (million BTU/yr)			
Floor 1	0				0		0		0			
Floor 2	0		0		0		0		0			
Floor 3	0		0		0		0		0			
Floor 4	0				0	0			0			
Slabs	length o	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> Darimeter (f) Rvalue per fl of JUA Design Loss Yearly Heat Los										
Full Slab	100			otel (1)	(BTU/hr-F)		(BTU/hr) 4443		(million BTU/yr)			
Infiltration	House \times th	155 1.5 103 4443 11.2 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 aircising construction?										
	House \	/olume		anges per	UA (BTU/hr-F))	Design Los (BTU/hr)	38	Yearly Heat Loss (million BTU/vr)			
Whole House	20777	.,	.75		280		12061		30.3			
These are heat gains from warm bodies, lights, appliances,									100.0			
Internal Heat	This is I	his is heat that your furnace does not need to provide.										
Gains			to acco	count for internal heat ga								
	Number Occupa				Internal Gains (BTU/hr)		Design Loss (BTU/hr)		Yearly Heat Loss (million BTU/yr)			
	2		9		1314		-1314		-11.5			

Summary Outpo	uts (see table a	bove for detail output	ts)								
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	77	3308	8.3	256	4077	1454					
Wall Loss	170	7303	18.3	565	9003	3210					
Window Loss	328	14103	35.4	1091	17384	6199					
Floor Loss	0	0	0	0	0	0					
Slab Loss	103	4443	11.2	344	5477	1953					
Infiltration	280	12061	30.3	933	14868	5301					
Totals	959	41218	103.5	3190	50810	18117					
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.										
		-1314	-11.5	-355	-5649						

