

Homeowner Heat Loss and Equipment Identification Form

Homeowner	Gas Contractor	
Job address	Contr Phone	
	Contr Phone	
City of Minneapolis requires this heating heat loss form for furnaduplexes be <i>left at the job site</i> . Do not submit the heating load calculations with your permit app (<i>Note: You can use the form you are presently using, as long has</i>)	lication.	
Measurements and calculations:		
1. Sq. Ft exposed walls above grade sqft x "U" (Note: A typical 2x4 wall with 2x4 wood framing without insua U value of 1.08 and a wall with 3½" of insulation has a "U"	ulation has	e =
2. Sq. Ft. of the ceiling area(Note: A typical 2x4 framing with 5" of insulation has a U vi of 0.05, with 9" of insulation has a U value of 0.032.)		=
3. Sq. ft of basement floor area below grade	sqft x 3 Btu's/Sq Ft	=
4. Sq. ft. of wall area below grade	sqft x 6 Btu's/Sq. Ft	=
5. Lin. Ft of infiltration for windows	x (.5) X 1.08 x 88	=
6. Lin. Ft of infiltration for doors	x (1.25) X (1.08) x 88	=
7. Lin. Ft of infiltration for sliding doors	x (.75) X (1.08) x 88	=
8. Allowance for exhaust fans: 600 Btu's per kitchen fan 200 Btu	's per Bath fan	=
9. Allowance for fireplaces: 1,500 Btu's each		=
10. Total Btu loss for all above items		=
11. Add for combustion air (0.001) x net loss above x (12.5) x (0.001)	.075) x 88	=
12. Total lines 10 and 11 to determine heat loss (Or substitute	heat loss from other)	=
13. Safety factor – Multiply heat loss by 1.10 to determine add	ditional allowance	=
(This is the size furnace you should use in this structure. The cod that the appropriate equipment is not readily available. Equipme the overall annual energy costs are not increased.)		
he undersigned, as applicant for a heating permit, hereby affirms tim/herself, or under his/her direction; hereby acknowledges the in-		
Proposed furnace/boiler size: Btu's. Prop	osed furnace/boiler make:	
roposed furnace/boiler model no		
ignature:	Date:	

Form can be found online at www.minneapolismn.gov/www/groups/public/@regservices/documents/webcontent/convert_280467.pdf