

INSTRUCTIONS FOR HEATING EQUIPMENT SIZING FORM

Building Code Section 1204.1 and Residential Code Section R303.8 establish a minimum required heating output, and Energy Code Sections 503.2.2 and 1422/1431.2 specify a maximum allowed heating equipment output.

General Information:

This form is recommended for sizing the heating systems for all residential buildings. It may be used for commercial buildings where appropriate. This form, or acceptable alternate calculations, must be completed for **each** dwelling unit. A separate copy shall be attached to each set of drawings submitted with the building permit application and over-the-counter (OTC) permit application.

If new or enlarged electric service is to be installed in an existing building, you may be subject to additional Seattle City Light requirements. For further information, contact Seattle City Light at 206-615-0600 if the project is north of Denny Way or 206-386-4200 if the project is south of Denny Way.

Detailed Instructions (step numbers match the numbers shown on the front of the form):

- For existing buildings, complete for each dwelling unit as proposed after remodeling. If space heating equipment is simply being replaced, complete for the dwelling unit as existing.

- For new construction, complete for each dwelling unit as proposed. **Values in bold are Prescriptive requirements for single-family/duplex.**

(1) On the line with the appropriate description:

- For components A-E, enter the square footage for windows, skylights, sliding glass doors, opaque doors, opaque roof/ceiling (minus skylights), opaque wall (minus windows and doors), floor over unheated space.

- For component F, enter the linear feet of perimeter for slab-on-grade floor (less than two feet below grade), not the square footage area of the slab.

- For component G, enter the linear feet of perimeter for basement floor (more than two feet below grade). Do not enter if the basement is unheated.

- For component H, enter the volume in cubic feet of the interior heated space based on when the dwelling unit or portion thereof was or will be built.

For glazing and doors, where U-factors different from those specified are used, enter those U-factors in the blanks provided for that category. For other components, where R-values different from those specified are used, enter that value and the corresponding U-factor or F-factor in the blanks provided in that category. For all new entries, multiply the U-factor or F-factor by the 46°F. design temperature difference (70°F. - 24°F.) to obtain the corresponding heat loss factor and enter that value in the Heat Loss Factor column.

(2) Multiply the heat loss factor by component square feet (sq.ft), linear feet (lin.ft.) or cubic feet (cu.ft), as appropriate to obtain the component heat loss.

[Automated in the electronic version of this form.]

(3) Add all entries to obtain the total which is the Design Heating Load (DHL). **[Automated in the electronic version of this form.]**

(4) Enter the heated floor area of the dwelling unit, then divide the DHL by the heated floor area to obtain the load on a square foot basis.

(Note that typical values for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(5) To determine the allowable heating equipment output range:

- Multiply Design Heating Load (in either Btuh or Watts) by 1.0 to obtain minimum size required by the Building Code (Section 303.8)

- Multiply Design Heating Load (in either Btuh or Watts) by 1.5 to obtain maximum allowed by the Energy Code (Section 503.2.2/1422/1431.2)

(Note that, for nonresidential buildings, there are no minimum Building Code requirements and the maximum Energy Code allowance is 150% of the DHL.)

[Automated in the electronic version of this form.]

(6) Enter proposed equipment size (output) and efficiency. The proposed equipment output must be within the minimum and maximum allowed.

Note that Energy Code Section 503.2.2,

- **Exception 2 exempts natural gas- and oil-fired space heating equipment whose total rated space heating output in any one dwelling unit is 40,000 Btu/h or less from the sizing limit.**

- **Exception 4 exempts electric resistance heaters under 2 kW from the sizing limit.**

(Note that there are no exceptions from the 150% sizing limit for high-efficiency equipment or for any other systems, such as heat pumps.)



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W13 1 (U = 0.26)	12.0 /SF x	40 SF =	478 Btuh
	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W20 1 (U = 0.26)	12.0 /SF x	13 SF =	153 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	211 SF =	494 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	32 LF =	805 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3559.9 CF =	1068 Btuh

(4) DHL/SF: DHL divided by(367 Heated floor area in SF) = 10 Btuh/SF or 2.9 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3598 Btuh
If electric, divide by 3.413 for DHL in watts = 1054 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3598 Btuh or 1054 Watts
Maximum allowed size = DHL x 1.5 = 5397 Btuh or 1581 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

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Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.18)	8.3 /SF x	50 SF =	415 Btuh
	W24 1 (U = 0.18)	8.3 /SF x	13 SF =	105 Btuh
	W11 1 (U = 0.18)	8.3 /SF x	20 SF =	166 Btuh
	W26 1 (U = 0.18)	8.3 /SF x	16 SF =	131 Btuh
	(U = 0.18)	8.3 /SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	389 SF =	912 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	Slab on grade / R-10 (F = 0.360)	16.6 /LF x	50 LF =	833 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3042.89 CF =	365 Btuh

(4) DHL/SF: DHL divided by(314 Heated floor area in SF)
= 9 Btuh/SF or 2.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2927 Btuh
If electric, divide by 3.413 for DHL in watts = 858 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2927 Btuh or 858 Watts
Maximum allowed size = DHL x 1.5 = 4390 Btuh or 1286 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

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Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W05 1 (U = 0.26)	12.0 /SF x	16 SF =	189 Btuh
	W26 1 (U = 0.26)	12.0 /SF x	16 SF =	189 Btuh
	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	297 SF =	696 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	41 LF =	1021 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3447.38 CF =	1034 Btuh

(4) DHL/SF: DHL divided by(355 Heated floor area in SF)
= 11 Btuh/SF or 3.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3969 Btuh
If electric, divide by 3.413 for DHL in watts = 1163 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3969 Btuh or 1163 Watts
Maximum allowed size = DHL x 1.5 = 5953 Btuh or 1744 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

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Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W26 1 (U = 0.26)	12.0 /SF x	16 SF =	189 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	83 SF =	194 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	15 LF =	383 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3447.38 CF =	1034 Btuh

(4) DHL/SF: DHL divided by(355 Heated floor area in SF)
= 7 Btuh/SF or 2.0 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2399 Btuh
If electric, divide by 3.413 for DHL in watts = 703 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2399 Btuh or 703 Watts
Maximum allowed size = DHL x 1.5 = 3599 Btuh or 1054 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

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Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W26 1 (U = 0.26)	12.0 /SF x	16 SF =	189 Btuh
	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	125 SF =	293 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	20 LF =	492 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3436.71 CF =	1031 Btuh

(4) DHL/SF: DHL divided by(354 Heated floor area in SF)
= 7 Btuh/SF or 2.2 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2604 Btuh
If electric, divide by 3.413 for DHL in watts = 763 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2604 Btuh or 763 Watts
Maximum allowed size = DHL x 1.5 = 3906 Btuh or 1144 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

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Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W05 1 (U = 0.26)	12.0 /SF x	16 SF =	189 Btuh
	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	72 SF =	170 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	15 LF =	383 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3447.38 CF =	1034 Btuh

(4) DHL/SF: DHL divided by(355 Heated floor area in SF)
= 7 Btuh/SF or 2.1 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2499 Btuh
If electric, divide by 3.413 for DHL in watts = 732 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2499 Btuh or 732 Watts
Maximum allowed size = DHL x 1.5 = 3748 Btuh or 1098 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W26 1 (U = 0.26)	12.0 /SF x	16 SF =	189 Btuh
	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	83 SF =	194 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	15 LF =	383 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3448.35 CF =	1035 Btuh

(4) DHL/SF: DHL divided by(356 Heated floor area in SF)
= 7 Btuh/SF or 2.0 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2400 Btuh
If electric, divide by 3.413 for DHL in watts = 703 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2400 Btuh or 703 Watts
Maximum allowed size = DHL x 1.5 = 3599 Btuh or 1055 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W01 1 (U = 0.26)	12.0 /SF x	13 SF =	153 Btuh
	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W13 1 (U = 0.26)	12.0 /SF x	40 SF =	478 Btuh
	W14 1 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	W26 2 (U = 0.26)	12.0 /SF x	32 SF =	379 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.054)	2.5 /SF x	562 SF =	1396 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	78 LF =	1925 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	5855.89 CF =	703 Btuh

(4) DHL/SF: DHL divided by(604 Heated floor area in SF)
= 10 Btuh/SF or 3.0 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 6283 Btuh
If electric, divide by 3.413 for DHL in watts = 1841 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 6283 Btuh or 1841 Watts
Maximum allowed size = DHL x 1.5 = 9425 Btuh or 2762 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W12 3 (U = 0.26)	12.0 /SF x	95 SF =	1136 Btuh
	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	315 SF =	738 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	49 LF =	1215 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	5295.23 CF =	1589 Btuh

(4) DHL/SF: DHL divided by(546 Heated floor area in SF)
= 10 Btuh/SF or 2.9 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 5435 Btuh
If electric, divide by 3.413 for DHL in watts = 1592 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 5435 Btuh or 1592 Watts
Maximum allowed size = DHL x 1.5 = 8152 Btuh or 2389 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W13 1 (U = 0.26)	12.0 /SF x	40 SF =	478 Btuh
	W20 1 (U = 0.26)	12.0 /SF x	13 SF =	153 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	227 SF =	533 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	35 LF =	872 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3551.17 CF =	1065 Btuh

(4) DHL/SF: DHL divided by(366 Heated floor area in SF) = 10 Btuh/SF or 3.1 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3825 Btuh
If electric, divide by 3.413 for DHL in watts = 1121 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3825 Btuh or 1121 Watts
Maximum allowed size = DHL x 1.5 = 5737 Btuh or 1681 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W13 1 (U = 0.26)	12.0 /SF x	40 SF =	478 Btuh
	W20 1 (U = 0.26)	12.0 /SF x	13 SF =	153 Btuh
	R23 1 (U = 0.26)	12.0 /SF x	15 SF =	174 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	341 SF =	800 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	47 LF =	1175 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3573.48 CF =	1072 Btuh

(4) DHL/SF: DHL divided by(368 Heated floor area in SF)
= 12 Btuh/SF or 3.5 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4451 Btuh
If electric, divide by 3.413 for DHL in watts = 1304 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4451 Btuh or 1304 Watts
Maximum allowed size = DHL x 1.5 = 6677 Btuh or 1956 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W24 1 (U = 0.26)	12.0 /SF x	13 SF =	151 Btuh
	W12 2 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	W26 1 (U = 0.26)	12.0 /SF x	16 SF =	189 Btuh
	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	346 SF =	811 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	47 LF =	1172 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3639.44 CF =	1092 Btuh

(4) DHL/SF: DHL divided by(375 Heated floor area in SF)
= 12 Btuh/SF or 3.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4413 Btuh
If electric, divide by 3.413 for DHL in watts = 1293 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4413 Btuh or 1293 Watts
Maximum allowed size = DHL x 1.5 = 6620 Btuh or 1940 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W12	1 (U = 0.26)	12.0 /SF x 32 SF =	379 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 81 SF =	189 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10	(F = 0.540)	24.8 /LF x 12 LF =	291 Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3305.76 CF =	992 Btuh

(4) DHL/SF: DHL divided by(341 Heated floor area in SF) = 5 Btuh/SF or 1.6 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1850 Btuh
If electric, divide by 3.413 for DHL in watts = 542 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1850 Btuh or 542 Watts
Maximum allowed size = DHL x 1.5 = 2776 Btuh or 813 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W12	1 (U = 0.26)	12.0 /SF x 32 SF =	379 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 81 SF =	189 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10	(F = 0.540)	24.8 /LF x 12 LF =	291 Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	2943.95 CF =	883 Btuh

(4) DHL/SF: DHL divided by(304 Heated floor area in SF) = 6 Btuh/SF or 1.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1742 Btuh
If electric, divide by 3.413 for DHL in watts = 510 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1742 Btuh or 510 Watts
Maximum allowed size = DHL x 1.5 = 2613 Btuh or 766 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W12	1 (U = 0.26)	12.0 /SF x 32 SF =	379 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 81 SF =	189 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10	(F = 0.540)	24.8 /LF x 12 LF =	291 Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	2943.95 CF =	883 Btuh

(4) DHL/SF: DHL divided by(304 Heated floor area in SF)
= 6 Btuh/SF or 1.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1742 Btuh
If electric, divide by 3.413 for DHL in watts = 510 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1742 Btuh or 510 Watts
Maximum allowed size = DHL x 1.5 = 2613 Btuh or 766 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W12 3 (U = 0.26)	12.0 /SF x	95 SF =	1136 Btuh
	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W24 1 (U = 0.26)	12.0 /SF x	13 SF =	151 Btuh
	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	W30 1 (U = 0.26)	12.0 /SF x	15 SF =	180 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	557 SF =	1307 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	79 LF =	1957 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	5569.74 CF =	1671 Btuh

(4) DHL/SF: DHL divided by(574 Heated floor area in SF)
= 13 Btuh/SF or 3.8 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 7400 Btuh
If electric, divide by 3.413 for DHL in watts = 2168 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 7400 Btuh or 2168 Watts
Maximum allowed size = DHL x 1.5 = 11100 Btuh or 3252 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W12 3 (U = 0.26)	12.0 /SF x	95 SF =	1136 Btuh
	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	336 SF =	787 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	F6 / R-10 (F = 0.540)	24.8 /LF x	50 LF =	1245 Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	5595.93 CF =	1679 Btuh

(4) DHL/SF: DHL divided by(577 Heated floor area in SF) = 10 Btuh/SF or 2.8 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 5604 Btuh
If electric, divide by 3.413 for DHL in watts = 1642 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 5604 Btuh or 1642 Watts
Maximum allowed size = DHL x 1.5 = 8407 Btuh or 2463 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	W14 1 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	W21 1 (U = 0.26)	12.0 /SF x	13 SF =	159 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	203 SF =	476 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3560.87 CF =	1068 Btuh

(4) DHL/SF: DHL divided by(367 Heated floor area in SF)
= 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2870 Btuh
If electric, divide by 3.413 for DHL in watts = 841 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2870 Btuh or 841 Watts
Maximum allowed size = DHL x 1.5 = 4305 Btuh or 1261 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14 1 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W24 1 (U = 0.26)	12.0 /SF x	13 SF =	151 Btuh
	W31 1 (U = 0.26)	12.0 /SF x	17 SF =	205 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	402 SF =	942 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3042.89 CF =	913 Btuh

(4) DHL/SF: DHL divided by(314 Heated floor area in SF)
= 9 Btuh/SF or 2.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2862 Btuh
If electric, divide by 3.413 for DHL in watts = 839 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2862 Btuh or 839 Watts
Maximum allowed size = DHL x 1.5 = 4293 Btuh or 1258 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W31 2 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	W14 1 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	313 SF =	734 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3447.38 CF =	1034 Btuh

(4) DHL/SF: DHL divided by(355 Heated floor area in SF)
= 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2829 Btuh
If electric, divide by 3.413 for DHL in watts = 829 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2829 Btuh or 829 Watts
Maximum allowed size = DHL x 1.5 = 4244 Btuh or 1243 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W31 1 (U = 0.26)	12.0 /SF x	17 SF =	205 Btuh
	W14 1 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	94 SF =	221 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3447.38 CF =	1034 Btuh

(4) DHL/SF: DHL divided by(355 Heated floor area in SF)
= 5 Btuh/SF or 1.5 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1870 Btuh
If electric, divide by 3.413 for DHL in watts = 548 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1870 Btuh or 548 Watts
Maximum allowed size = DHL x 1.5 = 2805 Btuh or 822 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W31 2 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	W14 1 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	180 SF =	423 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3436.71 CF =	1031 Btuh

(4) DHL/SF: DHL divided by(354 Heated floor area in SF)
= 6 Btuh/SF or 1.9 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2275 Btuh
If electric, divide by 3.413 for DHL in watts = 666 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2275 Btuh or 666 Watts
Maximum allowed size = DHL x 1.5 = 3412 Btuh or 1000 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W31 2 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	W14 1 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	177 SF =	416 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3447.38 CF =	1034 Btuh

(4) DHL/SF: DHL divided by(355 Heated floor area in SF)
= 6 Btuh/SF or 1.9 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2270 Btuh
If electric, divide by 3.413 for DHL in watts = 665 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2270 Btuh or 665 Watts
Maximum allowed size = DHL x 1.5 = 3405 Btuh or 998 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W31 1 (U = 0.26)	12.0 /SF x	17 SF =	205 Btuh
	W14 1 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	97 SF =	228 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3436.71 CF =	1031 Btuh

(4) DHL/SF: DHL divided by(354 Heated floor area in SF)
= 5 Btuh/SF or 1.6 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1875 Btuh
If electric, divide by 3.413 for DHL in watts = 549 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1875 Btuh or 549 Watts
Maximum allowed size = DHL x 1.5 = 2812 Btuh or 824 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W31 1 (U = 0.26)	12.0 /SF x	17 SF =	205 Btuh
	W14 1 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	97 SF =	228 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3436.71 CF =	1031 Btuh

(4) DHL/SF: DHL divided by(354 Heated floor area in SF) = 5 Btuh/SF or 1.6 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1875 Btuh
If electric, divide by 3.413 for DHL in watts = 549 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1875 Btuh or 549 Watts
Maximum allowed size = DHL x 1.5 = 2812 Btuh or 824 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14 2 (U = 0.26)	12.0 /SF x	69 SF =	821 Btuh
	W31 2 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	W26 1 (U = 0.26)	12.0 /SF x	16 SF =	189 Btuh
	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W02 1 (U = 0.26)	12.0 /SF x	13 SF =	159 Btuh
	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	541 SF =	1270 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	5855.89 CF =	1757 Btuh

(4) DHL/SF: DHL divided by(604 Heated floor area in SF)
= 9 Btuh/SF or 2.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 5603 Btuh
If electric, divide by 3.413 for DHL in watts = 1642 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 5603 Btuh or 1642 Watts
Maximum allowed size = DHL x 1.5 = 8404 Btuh or 2462 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	W14 3 (U = 0.26)	12.0 /SF x	103 SF =	1231 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	304 SF =	714 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	5295.04473 CF =	1589 Btuh

(4) DHL/SF: DHL divided by(546 Heated floor area in SF)
= 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4291 Btuh
If electric, divide by 3.413 for DHL in watts = 1257 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4291 Btuh or 1257 Watts
Maximum allowed size = DHL x 1.5 = 6436 Btuh or 1886 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	W14 1 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	W21 1 (U = 0.26)	12.0 /SF x	13 SF =	159 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	228 SF =	534 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3573.48 CF =	1072 Btuh

(4) DHL/SF: DHL divided by(368 Heated floor area in SF)
= 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2933 Btuh
If electric, divide by 3.413 for DHL in watts = 859 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2933 Btuh or 859 Watts
Maximum allowed size = DHL x 1.5 = 4399 Btuh or 1289 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	W14 1 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	W21 1 (U = 0.26)	12.0 /SF x	13 SF =	159 Btuh
	W26 1 (U = 0.26)	12.0 /SF x	16 SF =	189 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	332 SF =	778 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38 (U = 0.025)	1.2 /SF x	25 SF =	29 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3573.4703 CF =	1072 Btuh

(4) DHL/SF: DHL divided by(368 Heated floor area in SF) = 9 Btuh/SF or 2.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3394 Btuh
If electric, divide by 3.413 for DHL in watts = 994 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3394 Btuh or 994 Watts
Maximum allowed size = DHL x 1.5 = 5091 Btuh or 1492 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W14 2 (U = 0.26)	12.0 /SF x	69 SF =	821 Btuh
	W24 1 (U = 0.26)	12.0 /SF x	13 SF =	151 Btuh
	W31 1 (U = 0.26)	12.0 /SF x	17 SF =	205 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	370 SF =	867 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38 (U = 0.025)	1.2 /SF x	25 SF =	29 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3967.7559 CF =	1190 Btuh

(4) DHL/SF: DHL divided by(409 Heated floor area in SF) = 9 Btuh/SF or 2.5 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3503 Btuh
If electric, divide by 3.413 for DHL in watts = 1027 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3503 Btuh or 1027 Watts
Maximum allowed size = DHL x 1.5 = 5255 Btuh or 1540 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14	1 (U = 0.26)	12.0 /SF x 34 SF =	410 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 78 SF =	183 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38	(U = 0.025)	1.2 /SF x 25 SF =	29 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3271.81 CF =	982 Btuh

(4) DHL/SF: DHL divided by(337 Heated floor area in SF) = 5 Btuh/SF or 1.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1604 Btuh
If electric, divide by 3.413 for DHL in watts = 470 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1604 Btuh or 470 Watts
Maximum allowed size = DHL x 1.5 = 2405 Btuh or 705 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14	1 (U = 0.26)	12.0 /SF x 34 SF =	410 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 78 SF =	183 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38	(U = 0.025)	1.2 /SF x 25 SF =	29 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3270.84 CF =	981 Btuh

(4) DHL/SF: DHL divided by(337 Heated floor area in SF) = 5 Btuh/SF or 1.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1603 Btuh
If electric, divide by 3.413 for DHL in watts = 470 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1603 Btuh or 470 Watts
Maximum allowed size = DHL x 1.5 = 2405 Btuh or 705 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14	1 (U = 0.26)	12.0 /SF x 34 SF =	410 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 78 SF =	183 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38	(U = 0.025)	1.2 /SF x 337 SF =	388 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3271.81 CF =	982 Btuh

(4) DHL/SF: DHL divided by(337 Heated floor area in SF) = 6 Btuh/SF or 1.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1963 Btuh
If electric, divide by 3.413 for DHL in watts = 575 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1963 Btuh or 575 Watts
Maximum allowed size = DHL x 1.5 = 2944 Btuh or 863 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14	1 (U = 0.26)	12.0 /SF x 34 SF =	410 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 78 SF =	183 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38	(U = 0.025)	1.2 /SF x 337 SF =	388 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3270.84 CF =	981 Btuh

(4) DHL/SF: DHL divided by(337 Heated floor area in SF)
= 6 Btuh/SF or 1.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1962 Btuh
If electric, divide by 3.413 for DHL in watts = 575 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1962 Btuh or 575 Watts
Maximum allowed size = DHL x 1.5 = 2944 Btuh or 862 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14	1 (U = 0.26)	12.0 /SF x 34 SF =	410 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 78 SF =	183 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38	(U = 0.025)	1.2 /SF x 25 SF =	29 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3271.81 CF =	982 Btuh

(4) DHL/SF: DHL divided by(337 Heated floor area in SF) = 5 Btuh/SF or 1.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1604 Btuh
If electric, divide by 3.413 for DHL in watts = 470 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1604 Btuh or 470 Watts
Maximum allowed size = DHL x 1.5 = 2405 Btuh or 705 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14	1 (U = 0.26)	12.0 /SF x 34 SF =	410 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 78 SF =	183 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38	(U = 0.025)	1.2 /SF x 25 SF =	29 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3270.84 CF =	981 Btuh

(4) DHL/SF: DHL divided by(337 Heated floor area in SF) = 5 Btuh/SF or 1.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1603 Btuh
If electric, divide by 3.413 for DHL in watts = 470 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1603 Btuh or 470 Watts
Maximum allowed size = DHL x 1.5 = 2405 Btuh or 705 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14	1 (U = 0.26)	12.0 /SF x 34 SF =	410 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 78 SF =	183 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38	(U = 0.025)	1.2 /SF x 25 SF =	29 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3271.81 CF =	982 Btuh

(4) DHL/SF: DHL divided by(337 Heated floor area in SF)
= 5 Btuh/SF or 1.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1604 Btuh
If electric, divide by 3.413 for DHL in watts = 470 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1604 Btuh or 470 Watts
Maximum allowed size = DHL x 1.5 = 2405 Btuh or 705 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14	1 (U = 0.26)	12.0 /SF x 34 SF =	410 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 78 SF =	183 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38	(U = 0.025)	1.2 /SF x 25 SF =	29 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3270.84 CF =	981 Btuh

(4) DHL/SF: DHL divided by(337 Heated floor area in SF) = 5 Btuh/SF or 1.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1603 Btuh
If electric, divide by 3.413 for DHL in watts = 470 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1603 Btuh or 470 Watts
Maximum allowed size = DHL x 1.5 = 2405 Btuh or 705 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14	1 (U = 0.26)	12.0 /SF x 34 SF =	410 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 78 SF =	183 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38	(U = 0.025)	1.2 /SF x 25 SF =	29 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3271.81 CF =	982 Btuh

(4) DHL/SF: DHL divided by(337 Heated floor area in SF) = 5 Btuh/SF or 1.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1604 Btuh
If electric, divide by 3.413 for DHL in watts = 470 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1604 Btuh or 470 Watts
Maximum allowed size = DHL x 1.5 = 2405 Btuh or 705 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14	1 (U = 0.26)	12.0 /SF x 34 SF =	410 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
B. Opaque Door		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std	(U = 0.051)	2.3 /SF x 78 SF =	183 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38	(U = 0.025)	1.2 /SF x 25 SF =	29 Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
		(U =)	/SF x SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
G. Basement Floor (for heated space ONLY)		(F =)	/LF x LF =	Btuh
		(F =)	/LF x LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	3271.81 CF =	982 Btuh

(4) DHL/SF: DHL divided by(337 Heated floor area in SF)
= 5 Btuh/SF or 1.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1604 Btuh
If electric, divide by 3.413 for DHL in watts = 470 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1604 Btuh or 470 Watts
Maximum allowed size = DHL x 1.5 = 2405 Btuh or 705 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE
Heating output: Btuh Efficiency: HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W14 3 (U = 0.26)	12.0 /SF x	103 SF =	1231 Btuh
	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W31 2 (U = 0.26)	12.0 /SF x	34 SF =	410 Btuh
	W25 1 (U = 0.26)	12.0 /SF x	14 SF =	166 Btuh
	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	559 SF =	1312 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	F1 / R-38 (U = 0.025)	1.2 /SF x	25 SF =	29 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	5896.63 CF =	1769 Btuh

(4) DHL/SF: DHL divided by(608 Heated floor area in SF) = 10 Btuh/SF or 2.9 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 5914 Btuh
If electric, divide by 3.413 for DHL in watts = 1733 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 5914 Btuh or 1733 Watts
Maximum allowed size = DHL x 1.5 = 8871 Btuh or 2599 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	W14 3 (U = 0.26)	12.0 /SF x	103 SF =	1231 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	328 SF =	769 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	5595.93 CF =	1679 Btuh

(4) DHL/SF: DHL divided by(577 Heated floor area in SF) = 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4436 Btuh
If electric, divide by 3.413 for DHL in watts = 1300 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4436 Btuh or 1300 Watts
Maximum allowed size = DHL x 1.5 = 6654 Btuh or 1950 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	286 SF =	670 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6761.78 CF =	2029 Btuh

(4) DHL/SF: DHL divided by(448 Heated floor area in SF)
= 11 Btuh/SF or 3.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 5116 Btuh
If electric, divide by 3.413 for DHL in watts = 1499 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 5116 Btuh or 1499 Watts
Maximum allowed size = DHL x 1.5 = 7675 Btuh or 2249 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W24 1 (U = 0.26)	12.0 /SF x	13 SF =	151 Btuh
	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	W06 1 (U = 0.26)	12.0 /SF x	17 SF =	206 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	562 SF =	1317 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	5930.978 CF =	712 Btuh

(4) DHL/SF: DHL divided by(393 Heated floor area in SF)
= 11 Btuh/SF or 3.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4378 Btuh
If electric, divide by 3.413 for DHL in watts = 1283 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4378 Btuh or 1283 Watts
Maximum allowed size = DHL x 1.5 = 6567 Btuh or 1924 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W37 2 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	W06 2 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	W50 1 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	395 SF =	926 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6573.03 CF =	1972 Btuh

(4) DHL/SF: DHL divided by(435 Heated floor area in SF) = 13 Btuh/SF or 3.8 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 5588 Btuh
If electric, divide by 3.413 for DHL in watts = 1637 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 5588 Btuh or 1637 Watts
Maximum allowed size = DHL x 1.5 = 8382 Btuh or 2456 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	W50 1 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	W06 1 (U = 0.26)	12.0 /SF x	17 SF =	206 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.054)	2.5 /SF x	104 SF =	259 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6574.54 CF =	1972 Btuh

(4) DHL/SF: DHL divided by(435 Heated floor area in SF)
= 9 Btuh/SF or 2.5 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3751 Btuh
If electric, divide by 3.413 for DHL in watts = 1099 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3751 Btuh or 1099 Watts
Maximum allowed size = DHL x 1.5 = 5626 Btuh or 1648 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W37 2 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W50 1 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	W06 2 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	214 SF =	501 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6553.4 CF =	786 Btuh

(4) DHL/SF: DHL divided by(434 Heated floor area in SF) = 8 Btuh/SF or 2.2 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3316 Btuh
If electric, divide by 3.413 for DHL in watts = 972 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3316 Btuh or 972 Watts
Maximum allowed size = DHL x 1.5 = 4975 Btuh or 1458 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W06 2 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	W50 1 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	239 SF =	561 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6574.54 CF =	789 Btuh

(4) DHL/SF: DHL divided by(435 Heated floor area in SF)
= 7 Btuh/SF or 2.1 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3075 Btuh
If electric, divide by 3.413 for DHL in watts = 901 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3075 Btuh or 901 Watts
Maximum allowed size = DHL x 1.5 = 4613 Btuh or 1352 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	W06 1 (U = 0.26)	12.0 /SF x	17 SF =	206 Btuh
	W50 1 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	94 SF =	220 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6573.03 CF =	789 Btuh

(4) DHL/SF: DHL divided by(435 Heated floor area in SF)
= 6 Btuh/SF or 1.8 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2653 Btuh
If electric, divide by 3.413 for DHL in watts = 777 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2653 Btuh or 777 Watts
Maximum allowed size = DHL x 1.5 = 3979 Btuh or 1166 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	W50 1 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	W06 1 (U = 0.26)	12.0 /SF x	17 SF =	206 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	104 SF =	244 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6573.03 CF =	789 Btuh

(4) DHL/SF: DHL divided by(435 Heated floor area in SF)
= 6 Btuh/SF or 1.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2553 Btuh
If electric, divide by 3.413 for DHL in watts = 748 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2553 Btuh or 748 Watts
Maximum allowed size = DHL x 1.5 = 3829 Btuh or 1122 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W37 2 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	R24 1 (U = 0.26)	12.0 /SF x	48 SF =	580 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W06 2 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	W52 1 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	433 SF =	1016 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	7797.64 CF =	936 Btuh

(4) DHL/SF: DHL divided by(516 Heated floor area in SF)
= 10 Btuh/SF or 2.9 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 5117 Btuh
If electric, divide by 3.413 for DHL in watts = 1499 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 5117 Btuh or 1499 Watts
Maximum allowed size = DHL x 1.5 = 7675 Btuh or 2249 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U = 0.26)	12.0 /SF x	SF =	Btuh
	(U = 0.26)	12.0 /SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	504 SF =	1183 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6787.45 CF =	814 Btuh

(4) DHL/SF: DHL divided by(450 Heated floor area in SF)
= 10 Btuh/SF or 3.0 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4655 Btuh
If electric, divide by 3.413 for DHL in watts = 1364 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4655 Btuh or 1364 Watts
Maximum allowed size = DHL x 1.5 = 6983 Btuh or 2046 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	280 SF =	658 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6710.44 CF =	805 Btuh

(4) DHL/SF: DHL divided by(444 Heated floor area in SF) = 9 Btuh/SF or 2.6 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3881 Btuh
If electric, divide by 3.413 for DHL in watts = 1137 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3881 Btuh or 1137 Watts
Maximum allowed size = DHL x 1.5 = 5822 Btuh or 1706 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W53 1 (U = 0.26)	12.0 /SF x	44 SF =	522 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	328 SF =	769 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6740.64 CF =	2022 Btuh

(4) DHL/SF: DHL divided by(446 Heated floor area in SF) = 12 Btuh/SF or 3.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 5199 Btuh
If electric, divide by 3.413 for DHL in watts = 1523 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 5199 Btuh or 1523 Watts
Maximum allowed size = DHL x 1.5 = 7799 Btuh or 2285 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	W06 1 (U = 0.26)	12.0 /SF x	17 SF =	206 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	493 SF =	1157 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6764.8 CF =	812 Btuh

(4) DHL/SF: DHL divided by(448 Heated floor area in SF)
= 10 Btuh/SF or 3.0 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4593 Btuh
If electric, divide by 3.413 for DHL in watts = 1346 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4593 Btuh or 1346 Watts
Maximum allowed size = DHL x 1.5 = 6890 Btuh or 2019 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W24 1 (U = 0.26)	12.0 /SF x	13 SF =	151 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W06 1 (U = 0.26)	12.0 /SF x	17 SF =	206 Btuh
	W50 1 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	536 SF =	1257 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	7479.66873 CF =	898 Btuh

(4) DHL/SF: DHL divided by(495 Heated floor area in SF) = 10 Btuh/SF or 2.9 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4828 Btuh
If electric, divide by 3.413 for DHL in watts = 1415 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4828 Btuh or 1415 Watts
Maximum allowed size = DHL x 1.5 = 7242 Btuh or 2122 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	91 SF =	215 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6299.72 CF =	756 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF) = 5 Btuh/SF or 1.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1966 Btuh
If electric, divide by 3.413 for DHL in watts = 576 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1966 Btuh or 576 Watts
Maximum allowed size = DHL x 1.5 = 2949 Btuh or 864 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	91 SF =	215 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6299.72 CF =	756 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF) = 5 Btuh/SF or 1.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 1966 Btuh
If electric, divide by 3.413 for DHL in watts = 576 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 1966 Btuh or 576 Watts
Maximum allowed size = DHL x 1.5 = 2949 Btuh or 864 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	91 SF =	215 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6299.72 CF =	1890 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF)
= 7 Btuh/SF or 2.2 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3100 Btuh
If electric, divide by 3.413 for DHL in watts = 908 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3100 Btuh or 908 Watts
Maximum allowed size = DHL x 1.5 = 4650 Btuh or 1363 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	91 SF =	215 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6299.72 CF =	1890 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF) = 7 Btuh/SF or 2.2 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3100 Btuh
If electric, divide by 3.413 for DHL in watts = 908 Watts

(5) Space Heating Equipment Sizing Limits
Minimum required size = DHL x 1.0 = 3100 Btuh or 908 Watts
Maximum allowed size = DHL x 1.5 = 4650 Btuh or 1363 Watts

(6) Proposed Space Heating Equipment
Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	91 SF =	215 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6305.76 CF =	1892 Btuh

(4) DHL/SF: DHL divided by(418 Heated floor area in SF) = 7 Btuh/SF or 2.2 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3102 Btuh
If electric, divide by 3.413 for DHL in watts = 909 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3102 Btuh or 909 Watts
Maximum allowed size = DHL x 1.5 = 4653 Btuh or 1363 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	91 SF =	215 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6299.72 CF =	1890 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF)
= 7 Btuh/SF or 2.2 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3100 Btuh
If electric, divide by 3.413 for DHL in watts = 908 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3100 Btuh or 908 Watts
Maximum allowed size = DHL x 1.5 = 4650 Btuh or 1363 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	91 SF =	215 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6299.72 CF =	1890 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF) = 7 Btuh/SF or 2.2 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3100 Btuh
If electric, divide by 3.413 for DHL in watts = 908 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3100 Btuh or 908 Watts
Maximum allowed size = DHL x 1.5 = 4650 Btuh or 1363 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	91 SF =	215 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6305.76 CF =	1892 Btuh

(4) DHL/SF: DHL divided by(418 Heated floor area in SF) = 7 Btuh/SF or 2.2 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3102 Btuh
If electric, divide by 3.413 for DHL in watts = 909 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3102 Btuh or 909 Watts
Maximum allowed size = DHL x 1.5 = 4653 Btuh or 1363 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	91 SF =	215 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6299.72 CF =	1890 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF)
= 7 Btuh/SF or 2.2 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3100 Btuh
If electric, divide by 3.413 for DHL in watts = 908 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3100 Btuh or 908 Watts
Maximum allowed size = DHL x 1.5 = 4650 Btuh or 1363 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	91 SF =	215 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6299.72 CF =	1890 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF) = 7 Btuh/SF or 2.2 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3100 Btuh
If electric, divide by 3.413 for DHL in watts = 908 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3100 Btuh or 908 Watts
Maximum allowed size = DHL x 1.5 = 4650 Btuh or 1363 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W24 1 (U = 0.26)	12.0 /SF x	13 SF =	151 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	W06 1 (U = 0.26)	12.0 /SF x	17 SF =	206 Btuh
	W50 1 (U = 0.26)	12.0 /SF x	34 SF =	412 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
(U =)	/SF x	SF =	Btuh	
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	534 SF =	1254 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	7451.75487 CF =	894 Btuh

(4) DHL/SF: DHL divided by(493 Heated floor area in SF)
= 10 Btuh/SF or 2.9 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4822 Btuh
If electric, divide by 3.413 for DHL in watts = 1413 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4822 Btuh or 1413 Watts
Maximum allowed size = DHL x 1.5 = 7233 Btuh or 2119 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W35 1 (U = 0.26)	12.0 /SF x	24 SF =	289 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W07 1 (U = 0.26)	12.0 /SF x	18 SF =	211 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
(U =)	/SF x	SF =	Btuh	
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	501 SF =	1176 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	7325.01 CF =	879 Btuh

(4) DHL/SF: DHL divided by(485 Heated floor area in SF)
= 11 Btuh/SF or 3.1 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 5213 Btuh
If electric, divide by 3.413 for DHL in watts = 1527 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 5213 Btuh or 1527 Watts
Maximum allowed size = DHL x 1.5 = 7820 Btuh or 2291 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	274 SF =	642 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6701.38 CF =	804 Btuh

(4) DHL/SF: DHL divided by(444 Heated floor area in SF)
= 9 Btuh/SF or 2.6 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3899 Btuh
If electric, divide by 3.413 for DHL in watts = 1142 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3899 Btuh or 1142 Watts
Maximum allowed size = DHL x 1.5 = 5849 Btuh or 1714 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+53eff (U = 0.011)	0.5 /SF x	190 SF =	96 Btuh
	R1 / R=38+(20:45)ci (U = 0.013)	0.6 /SF x	82 SF =	49 Btuh
	R1A / R=30+(20:40)ci (U = 0.016)	0.7 /SF x	62 SF =	46 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	280 SF =	656 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6672.22 CF =	801 Btuh

(4) DHL/SF: DHL divided by(448 Heated floor area in SF)
= 9 Btuh/SF or 2.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4065 Btuh
If electric, divide by 3.413 for DHL in watts = 1191 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4065 Btuh or 1191 Watts
Maximum allowed size = DHL x 1.5 = 6098 Btuh or 1787 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W24 1 (U = 0.26)	12.0 /SF x	13 SF =	151 Btuh
	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	R17 1 (U = 0.26)	12.0 /SF x	36 SF =	430 Btuh
	R15 1 (U = 0.26)	12.0 /SF x	17 SF =	204 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+53eff (U = 0.011)	0.5 /SF x	187 SF =	95 Btuh
	R1 / R=38+(25:40)ci (U = 0.014)	0.6 /SF x	127 SF =	82 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-21int (U = 0.051)	2.3 /SF x	553 SF =	1297 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	5852.422 CF =	702 Btuh

(4) DHL/SF: DHL divided by(393 Heated floor area in SF)
= 12 Btuh/SF or 3.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4532 Btuh
If electric, divide by 3.413 for DHL in watts = 1328 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4532 Btuh or 1328 Watts
Maximum allowed size = DHL x 1.5 = 6798 Btuh or 1992 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W37 2 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	R14 1 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	R15 2 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	R17 1 (U = 0.26)	12.0 /SF x	36 SF =	430 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+53eff (U = 0.011)	0.5 /SF x	355 SF =	180 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	387 SF =	908 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6481.5 CF =	778 Btuh

(4) DHL/SF: DHL divided by(435 Heated floor area in SF) = 10 Btuh/SF or 3.1 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4558 Btuh
If electric, divide by 3.413 for DHL in watts = 1335 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4558 Btuh or 1335 Watts
Maximum allowed size = DHL x 1.5 = 6836 Btuh or 2003 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	R14 1 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	R15 1 (U = 0.26)	12.0 /SF x	17 SF =	204 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+53eff (U = 0.011)	0.5 /SF x	313 SF =	158 Btuh
	R1 / R=38+(25:40)ci (U = 0.014)	0.6 /SF x	6 SF =	4 Btuh
	R1A / R=30+(20:40)ci (U = 0.016)	0.7 /SF x	24 SF =	18 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	91 SF =	215 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6485.97 CF =	778 Btuh

(4) DHL/SF: DHL divided by(435 Heated floor area in SF)
= 6 Btuh/SF or 1.9 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2811 Btuh
If electric, divide by 3.413 for DHL in watts = 824 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2811 Btuh or 824 Watts
Maximum allowed size = DHL x 1.5 = 4217 Btuh or 1236 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W37 2 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	R14 1 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	R15 2 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+53eff (U = 0.011)	0.5 /SF x	157 SF =	79 Btuh
	R1 / R=38+(25:40)ci (U = 0.014)	0.6 /SF x	156 SF =	101 Btuh
	R1A / R=30+(20:45)ci (U = 0.015)	0.7 /SF x	16 SF =	11 Btuh
	R1A / R=30+(20:40)ci (U = 0.016)	0.7 /SF x	12 SF =	9 Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	210 SF =	492 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6477.03 CF =	777 Btuh

(4) DHL/SF: DHL divided by(435 Heated floor area in SF)
= 8 Btuh/SF or 2.4 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3491 Btuh
If electric, divide by 3.413 for DHL in watts = 1023 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3491 Btuh or 1023 Watts
Maximum allowed size = DHL x 1.5 = 5236 Btuh or 1534 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W37 2 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	R15 2 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	R14 1 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+53eff (U = 0.011)	0.5 /SF x	355 SF =	180 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	210 SF =	492 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6485.97 CF =	778 Btuh

(4) DHL/SF: DHL divided by(435 Heated floor area in SF) = 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3472 Btuh
If electric, divide by 3.413 for DHL in watts = 1017 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3472 Btuh or 1017 Watts
Maximum allowed size = DHL x 1.5 = 5208 Btuh or 1526 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	R15 1 (U = 0.26)	12.0 /SF x	17 SF =	204 Btuh
	R14 1 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+53eff (U = 0.011)	0.5 /SF x	337 SF =	170 Btuh
	R1 / R=38+(20:55:50)ci (U = 0.013)	0.6 /SF x	19 SF =	11 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	102 SF =	239 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6485.97 CF =	778 Btuh

(4) DHL/SF: DHL divided by(435 Heated floor area in SF)
= 6 Btuh/SF or 1.8 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2714 Btuh
If electric, divide by 3.413 for DHL in watts = 795 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2714 Btuh or 795 Watts
Maximum allowed size = DHL x 1.5 = 4070 Btuh or 1193 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	R14 1 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	R15 1 (U = 0.26)	12.0 /SF x	17 SF =	204 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+53eff (U = 0.011)	0.5 /SF x	355 SF =	180 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	102 SF =	239 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6485.97 CF =	778 Btuh

(4) DHL/SF: DHL divided by(435 Heated floor area in SF)
= 6 Btuh/SF or 1.8 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2712 Btuh
If electric, divide by 3.413 for DHL in watts = 795 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2712 Btuh or 795 Watts
Maximum allowed size = DHL x 1.5 = 4068 Btuh or 1192 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD02 1 (U = 0.26)	12.0 /SF x	50 SF =	599 Btuh
	W37 2 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	R15 2 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	R18 1 (U = 0.26)	12.0 /SF x	17 SF =	203 Btuh
	R16 1 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+53eff (U = 0.011)	0.5 /SF x	438 SF =	221 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-21int (U = 0.051)	2.3 /SF x	441 SF =	1035 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	7692.87 CF =	923 Btuh

(4) DHL/SF: DHL divided by(516 Heated floor area in SF)
= 10 Btuh/SF or 2.9 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 5146 Btuh
If electric, divide by 3.413 for DHL in watts = 1508 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 5146 Btuh or 1508 Watts
Maximum allowed size = DHL x 1.5 = 7719 Btuh or 2262 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+53eff (U = 0.011)	0.5 /SF x	163 SF =	82 Btuh
	R1 / R=38+(20:55:50)ci (U = 0.013)	0.6 /SF x	155 SF =	92 Btuh
	R1A / R=30+(20:45)ci (U = 0.015)	0.7 /SF x	47 SF =	33 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	493 SF =	1157 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6699.04 CF =	804 Btuh

(4) DHL/SF: DHL divided by(450 Heated floor area in SF)
= 11 Btuh/SF or 3.1 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4826 Btuh
If electric, divide by 3.413 for DHL in watts = 1414 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4826 Btuh or 1414 Watts
Maximum allowed size = DHL x 1.5 = 7239 Btuh or 2121 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+53eff (U = 0.011)	0.5 /SF x	99 SF =	50 Btuh
	R1 / R=38+(20:55:50)ci (U = 0.013)	0.6 /SF x	263 SF =	157 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	275 SF =	644 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6620.07 CF =	794 Btuh

(4) DHL/SF: DHL divided by(444 Heated floor area in SF)
= 9 Btuh/SF or 2.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4064 Btuh
If electric, divide by 3.413 for DHL in watts = 1191 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4064 Btuh or 1191 Watts
Maximum allowed size = DHL x 1.5 = 6096 Btuh or 1786 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	112 SF =	51 Btuh
	R1 / R=38+(20:55:50)ci (U = 0.013)	0.6 /SF x	194 SF =	116 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	340 SF =	797 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	5764.81 CF =	692 Btuh

(4) DHL/SF: DHL divided by(387 Heated floor area in SF)
= 7 Btuh/SF or 2.1 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2819 Btuh
If electric, divide by 3.413 for DHL in watts = 826 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2819 Btuh or 826 Watts
Maximum allowed size = DHL x 1.5 = 4229 Btuh or 1239 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD01 1 (U = 0.26)	12.0 /SF x	60 SF =	723 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	R15 1 (U = 0.26)	12.0 /SF x	17 SF =	204 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	50 SF =	23 Btuh
	R1 / R=38+(20:60)ci (U = 0.012)	0.6 /SF x	319 SF =	176 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	485 SF =	1137 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6675.2 CF =	801 Btuh

(4) DHL/SF: DHL divided by(448 Heated floor area in SF)
= 11 Btuh/SF or 3.1 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4759 Btuh
If electric, divide by 3.413 for DHL in watts = 1394 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4759 Btuh or 1394 Watts
Maximum allowed size = DHL x 1.5 = 7139 Btuh or 2092 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W24 1 (U = 0.26)	12.0 /SF x	13 SF =	151 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	R15 1 (U = 0.26)	12.0 /SF x	17 SF =	204 Btuh
	R14 1 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	249 SF =	115 Btuh
	R1 / R=38+(20:60)ci (U = 0.012)	0.6 /SF x	160 SF =	88 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	527 SF =	1236 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	7380.566 CF =	886 Btuh

(4) DHL/SF: DHL divided by(495 Heated floor area in SF)
= 10 Btuh/SF or 3.0 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4994 Btuh
If electric, divide by 3.413 for DHL in watts = 1463 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4994 Btuh or 1463 Watts
Maximum allowed size = DHL x 1.5 = 7490 Btuh or 2195 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	336 SF =	154 Btuh
	R1 / R=38+(20:60)ci (U = 0.012)	0.6 /SF x	2 SF =	1 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	89 SF =	210 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6216.26 CF =	746 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF) = 5 Btuh/SF or 1.5 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 2107 Btuh
If electric, divide by 3.413 for DHL in watts = 617 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 2107 Btuh or 617 Watts
Maximum allowed size = DHL x 1.5 = 3160 Btuh or 926 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	337 SF =	155 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	89 SF =	210 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6216.28 CF =	1865 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF) = 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3225 Btuh
If electric, divide by 3.413 for DHL in watts = 945 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3225 Btuh or 945 Watts
Maximum allowed size = DHL x 1.5 = 4838 Btuh or 1418 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W54 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	337 SF =	155 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	89 SF =	210 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6217.77 CF =	1865 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF)
= 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3226 Btuh
If electric, divide by 3.413 for DHL in watts = 945 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3226 Btuh or 945 Watts
Maximum allowed size = DHL x 1.5 = 4839 Btuh or 1418 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	R17 1 (U = 0.26)	12.0 /SF x	36 SF =	430 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	327 SF =	151 Btuh
	R1 / R=38+(20:55:50)ci (U = 0.013)	0.6 /SF x	10 SF =	6 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	89 SF =	208 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6216.28 CF =	1865 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF)
= 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3234 Btuh
If electric, divide by 3.413 for DHL in watts = 947 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3234 Btuh or 947 Watts
Maximum allowed size = DHL x 1.5 = 4851 Btuh or 1421 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	R19 1 (U = 0.26)	12.0 /SF x	19 SF =	225 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	253 SF =	116 Btuh
	R1 / R=38+(20:60)ci (U = 0.012)	0.6 /SF x	43 SF =	24 Btuh
	R1 / R=38+(20:55;50)ci (U = 0.013)	0.6 /SF x	42 SF =	25 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	106 SF =	248 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6220.75 CF =	1866 Btuh

(4) DHL/SF: DHL divided by(418 Heated floor area in SF)
= 7 Btuh/SF or 2.2 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3079 Btuh
If electric, divide by 3.413 for DHL in watts = 902 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3079 Btuh or 902 Watts
Maximum allowed size = DHL x 1.5 = 4619 Btuh or 1353 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	R17 1 (U = 0.26)	12.0 /SF x	36 SF =	430 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	329 SF =	151 Btuh
	R1 / R=38+(20:60)ci (U = 0.012)	0.6 /SF x	9 SF =	5 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	89 SF =	208 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6216.28 CF =	1865 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF)
= 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3233 Btuh
If electric, divide by 3.413 for DHL in watts = 947 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3233 Btuh or 947 Watts
Maximum allowed size = DHL x 1.5 = 4850 Btuh or 1421 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	R17 1 (U = 0.26)	12.0 /SF x	36 SF =	430 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	337 SF =	155 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	89 SF =	208 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6216.28 CF =	1865 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF)
= 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3232 Btuh
If electric, divide by 3.413 for DHL in watts = 947 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3232 Btuh or 947 Watts
Maximum allowed size = DHL x 1.5 = 4849 Btuh or 1421 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	R17 1 (U = 0.26)	12.0 /SF x	36 SF =	430 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	338 SF =	155 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	89 SF =	208 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6220.75 CF =	1866 Btuh

(4) DHL/SF: DHL divided by(418 Heated floor area in SF) = 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3234 Btuh
If electric, divide by 3.413 for DHL in watts = 948 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3234 Btuh or 948 Watts
Maximum allowed size = DHL x 1.5 = 4851 Btuh or 1421 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	R17 1 (U = 0.26)	12.0 /SF x	36 SF =	430 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	337 SF =	155 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	89 SF =	208 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6216.28 CF =	1865 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF) = 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3232 Btuh
If electric, divide by 3.413 for DHL in watts = 947 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3232 Btuh or 947 Watts
Maximum allowed size = DHL x 1.5 = 4849 Btuh or 1421 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	R17 1 (U = 0.26)	12.0 /SF x	36 SF =	430 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	337 SF =	155 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	89 SF =	208 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6216.28 CF =	1865 Btuh

(4) DHL/SF: DHL divided by(417 Heated floor area in SF)
= 8 Btuh/SF or 2.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 3232 Btuh
If electric, divide by 3.413 for DHL in watts = 947 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 3232 Btuh or 947 Watts
Maximum allowed size = DHL x 1.5 = 4849 Btuh or 1421 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°FΔt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	S142 1 (U = 0.26)	12.0 /SF x	48 SF =	574 Btuh
	W37 1 (U = 0.26)	12.0 /SF x	25 SF =	303 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W22 1 (U = 0.26)	12.0 /SF x	11 SF =	134 Btuh
	R14 1 (U = 0.26)	12.0 /SF x	34 SF =	409 Btuh
	R15 1 (U = 0.26)	12.0 /SF x	17 SF =	204 Btuh
	R17 1 (U = 0.26)	12.0 /SF x	36 SF =	430 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	290 SF =	133 Btuh
	R1 / R=38+(20:55:50)ci (U = 0.013)	0.6 /SF x	118 SF =	71 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	526 SF =	1235 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	7353.001 CF =	882 Btuh

(4) DHL/SF: DHL divided by(493 Heated floor area in SF)
= 10 Btuh/SF or 3.0 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4982 Btuh
If electric, divide by 3.413 for DHL in watts = 1460 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4982 Btuh or 1460 Watts
Maximum allowed size = DHL x 1.5 = 7472 Btuh or 2189 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

January 2011

Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	W11 1 (U = 0.26)	12.0 /SF x	20 SF =	240 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W35 1 (U = 0.26)	12.0 /SF x	24 SF =	289 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W07 1 (U = 0.26)	12.0 /SF x	18 SF =	211 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
(U =)	/SF x	SF =	Btuh	
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	121 SF =	56 Btuh
	R1 / R=38+(20:55:50)ci (U = 0.013)	0.6 /SF x	278 SF =	166 Btuh
	R1A / R=30+(20:45)ci (U = 0.015)	0.7 /SF x	5 SF =	3 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	489 SF =	1148 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	7227.99 CF =	867 Btuh

(4) DHL/SF: DHL divided by(485 Heated floor area in SF)
= 11 Btuh/SF or 3.3 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 5432 Btuh
If electric, divide by 3.413 for DHL in watts = 1592 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 5432 Btuh or 1592 Watts
Maximum allowed size = DHL x 1.5 = 8149 Btuh or 2388 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: Watts



Instructions: See reverse

HEATING EQUIPMENT SIZING FORM

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Building Component	Description Including U-Factor or F-Factor	Heat Loss Factor (HLF = U x 46°Δt)	(1) Component Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	(2) Component Heat Loss (HLF x SF, LF or CF)
A. Window, Glass Block Sliding & Swinging Glass Door Skylight Garden Window	SD03 1 (U = 0.26)	12.0 /SF x	63 SF =	757 Btuh
	W57 1 (U = 0.26)	12.0 /SF x	51 SF =	606 Btuh
	W23 1 (U = 0.26)	12.0 /SF x	11 SF =	136 Btuh
	W55 1 (U = 0.26)	12.0 /SF x	45 SF =	532 Btuh
	W51 1 (U = 0.26)	12.0 /SF x	35 SF =	421 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
B. Opaque Door	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
C. Roof/Ceiling Insulation (OPAQUE area only, does not include skylight area)	R1 / R=38+59eff (U = 0.010)	0.5 /SF x	182 SF =	84 Btuh
	R1 / R=38+(20:60)ci (U = 0.012)	0.6 /SF x	152 SF =	84 Btuh
	R1 / R=38+(20:30;35)ci (U = 0.015)	0.7 /SF x	30 SF =	21 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
D. Wall Insulation, above and below grade (OPAQUE area only, does not include window & door area)	E1,E1S,E2,E2S / R-25std (U = 0.051)	2.3 /SF x	268 SF =	629 Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
E. Floor Over Unheated Space	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
	(U =)	/SF x	SF =	Btuh
F. Slab On Grade Floor Perimeter Insulation (use linear ft, NOT sq.ft.)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
G. Basement Floor (for heated space ONLY)	(F =)	/LF x	LF =	Btuh
	(F =)	/LF x	LF =	Btuh
H. Infiltration (use cubic ft, NOT sq.ft.)	Pre-1980 (.018 x 1.2 ACH)	1.0 /CF x	CF =	Btuh
	1980-2010 (.018 x 0.6 ACH)	0.5 /CF x	CF =	Btuh
	Post-2010 (.018 x 0.35 ACH)	0.3 /CF x	6612.62 CF =	794 Btuh

(4) DHL/SF: DHL divided by(444 Heated floor area in SF)
= 9 Btuh/SF or 2.7 Watts/SF
(Typical values for DHL/SF for new construction are 8 Btuh/SF or 2.5 Watts/SF.)

(3) Total = Design Heating Load (DHL) in Btuh = 4063 Btuh
If electric, divide by 3.413 for DHL in watts = 1191 Watts

(5) Space Heating Equipment Sizing Limits

Minimum required size = DHL x 1.0 = 4063 Btuh or 1191 Watts
Maximum allowed size = DHL x 1.5 = 6095 Btuh or 1786 Watts

(6) Proposed Space Heating Equipment

Manufacturer: Model #: AFUE HSPF
Heating output: Btuh Efficiency: AFUE HSPF
Watts