

Simple Heating System Size: Climate Zone 1

Project Information

Contact Information

Indoor Design Temperature

70

Outdoor Design Temperature

23 MILL CREEK

Design Temperature Difference

Indoor - Outdoor Design Temp

70

Conditioned Floor Area

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Conditioned Volume

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Glazing

Copy Sum of UA from Glazing Schedule

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Attic

U-Factor X Area = UA

R-38 0.031

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R-38 Scissor 0.035

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R-38 Advanced 0.026

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Single Rafter Joist

U-Factor X Area = UA

R-30 0.034

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R-38 0.027

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Above Grade Walls

U-Factor X Area = UA

R-21 0.057

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Floors

U-Factor X Area = UA

R-30 0.029

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Below Grade Walls

U-Factor X Area = UA

R-21 interior 0.037

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R-10 exterior 0.056

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Slab Below Grade

F-factor X Length = UA

R-21 interior walls 0.57

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R-10 exterior walls 0.42

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Slab on Grade

F-factor X Length = UA

R-10 perimeter 0.54

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R-10 Full - Heated 0.51

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Sum of UA

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Envelope Heat Load

Sum of UA X Design Temperature Difference

 Btu / Hour

Air Leakage Heat Load

((Volume X 0.6) X Design Outdoor Temp) X .018))

 Btu / Hour

Building Design Heat Load

Air Leakage + Envelope Heat Loss

 Btu / Hour

Building and Duct Heat Load

1 Btu / Hour

If ducts are located in unconditioned space: Sum of Building Heat Loss X 1.15

If ducts are located in conditioned space: Sum of Building Heat Loss X 1

Maximum Heat Equipment Output

Building and Duct Heat Loss X 1.50

150% Btu / Hour