
ACTION REPORT

Building Name:	3500 sq/ft Home	Date:	November 27, 2007
Owner's Name:		Builder's Name:	
Property		Weather Site:	Boulder, CO
Address:	,	File Name:	SingleFamilyDetached3500.blg

The following table identifies and ranks energy use and cost by building component. A maximum of six components are shown. Current mechanical equipment is assumed for this analysis. To determine the impact of varying the equipment efficiency, change the equipment specified in the building file and perform the energy calculations again.

ANNUAL ENERGY PROFILE

Energy End-Use	Component	Consumption (MMBtu/yr)	Cost (\$/yr)
HEATING	Infiltration	49.7	\$ 520
	Above Grade Walls	25.6	\$ 268
	Foundation Walls	11.1	\$ 116
	Windows/Skylights	7.6	\$ 80
	Ceilings/Roofs	5.8	\$ 61
	Slab Floors	3.2	\$ 34
	Other	-22.0	\$ -230
	Total	81.1	\$ 848
COOLING	Windows/Skylights	7.7	\$ 226
	Internal Gains	5.1	\$ 149
	Ceilings/Roofs	0.1	\$ 3
	Other	-5.2	\$ -152
	Total	7.7	\$ 226
WATER HEATING	Water Heater	29.7	\$ 297
LIGHTS & APPLIANCES	Lights & Appliances	39.6	\$ 959

SUSTAINABLY BUILT

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COMPONENT LOAD SUMMARY

Building Name:	3500 sq/ft Home	Date:	November 27, 2007
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3500 sq/ft Home

HEATING SEASON (MMBtu/yr)

Ceilings/Roofs	4.4
Rim/Band Joists	1.1
Above Grade Walls	19.5
Foundation Walls	8.4
Doors	1.1
Windows/Skylights	5.8
Frame Floors	2.2
Crawl Space/Unht Bsmt	0.0
Slab Floors	2.5
Infiltration	37.8
Mechanical Ventilation	0.0
Ducts	0.0
Active Solar	0.0
Sunspace	0.0
Internal Gains	-21.3
Total	61.7

COMPONENT LOAD SUMMARY

3500 sq/ft Home

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3500 sq/ft Home

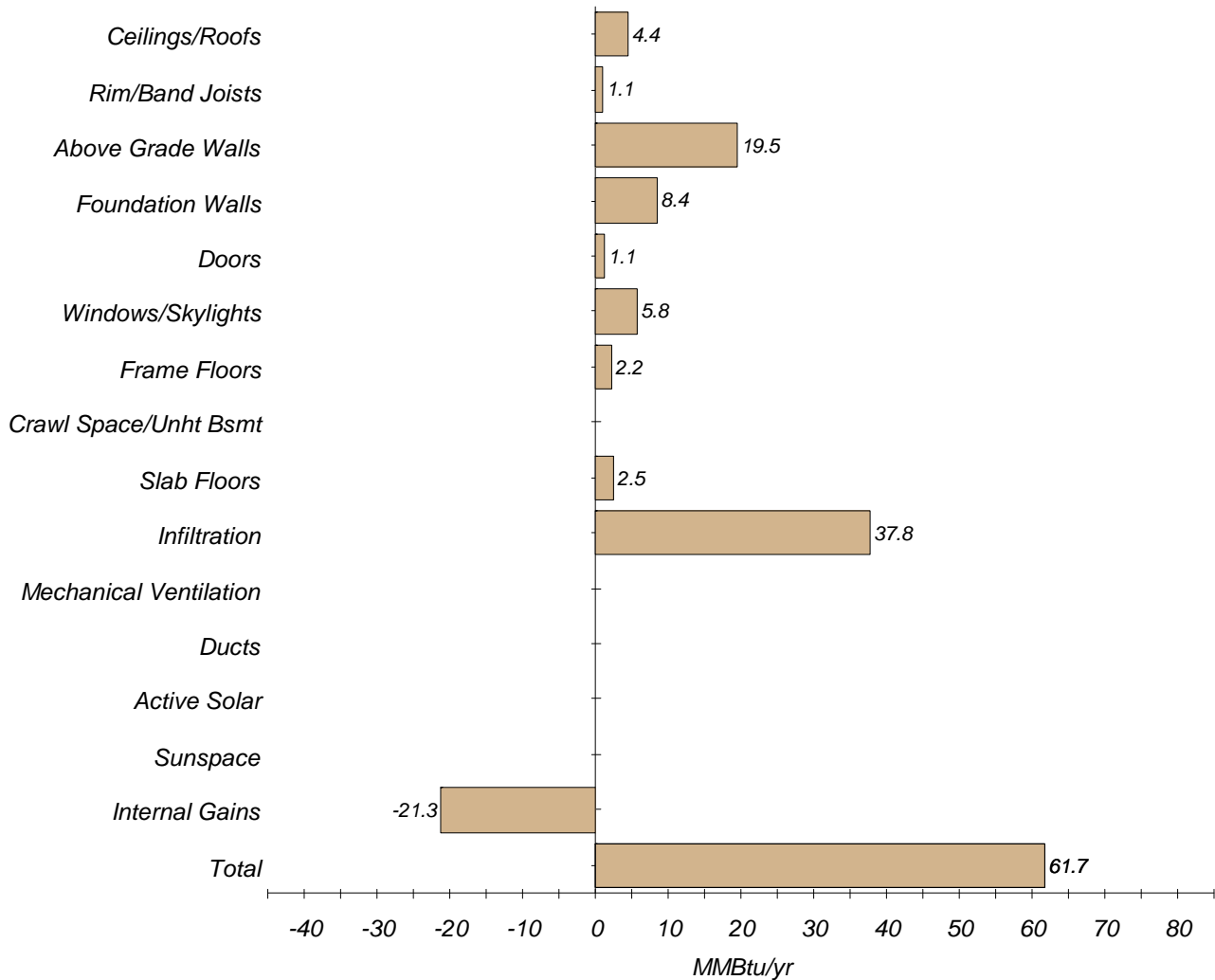
COOLING SEASON (MMBtu/yr)

Ceilings/Roofs	0.4
Rim/Band Joists	-0.1
Above Grade Walls	-0.2
Foundation Walls	-1.0
Doors	-0.1
Windows/Skylights	26.2
Frame Floors	-0.3
Crawl Space/Unht Bsmt	0.0
Slab Floors	-1.4
Infiltration	-4.1
Mechanical Ventilation	0.0
Ducts	0.0
Active Solar	0.0
Sunspace	0.0
Internal Gains	17.3
Whole House Ventilation	-10.4
Total	26.2

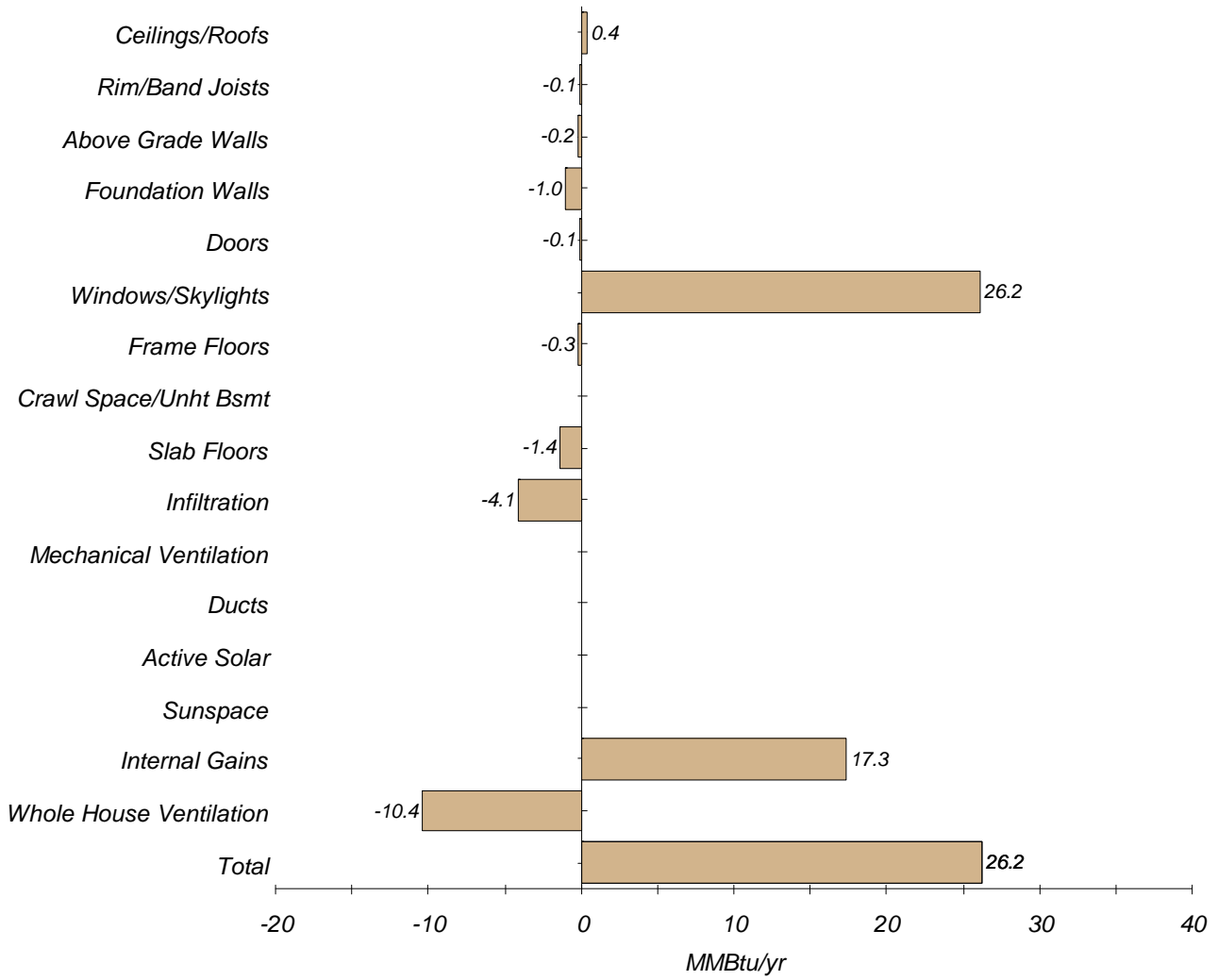
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Heating Season



Cooling Season



COMPONENT DESIGN LOAD SUMMARY

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3500 sq/ft Home**HEATING (KBtu/Hr)**

Ceilings/Roofs	2.2
Rim/Band Joists	0.5
Above Grade Walls	9.2
Foundation Walls	4.0
Doors	0.5
Windows/Skylights	13.8
Frame Floors	1.0
Crawl Space/Unht Bsmt	0.0
Slab Floors	0.7
Infiltration	16.5
Mechanical Ventilation	0.0
Ducts	0.0
Active Solar	0.0
Sunspace	0.0
Internal Gains	0.0
Total	48.3

COMPONENT DESIGN LOAD SUMMARY

3500 sq/ft Home

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3500 sq/ft Home

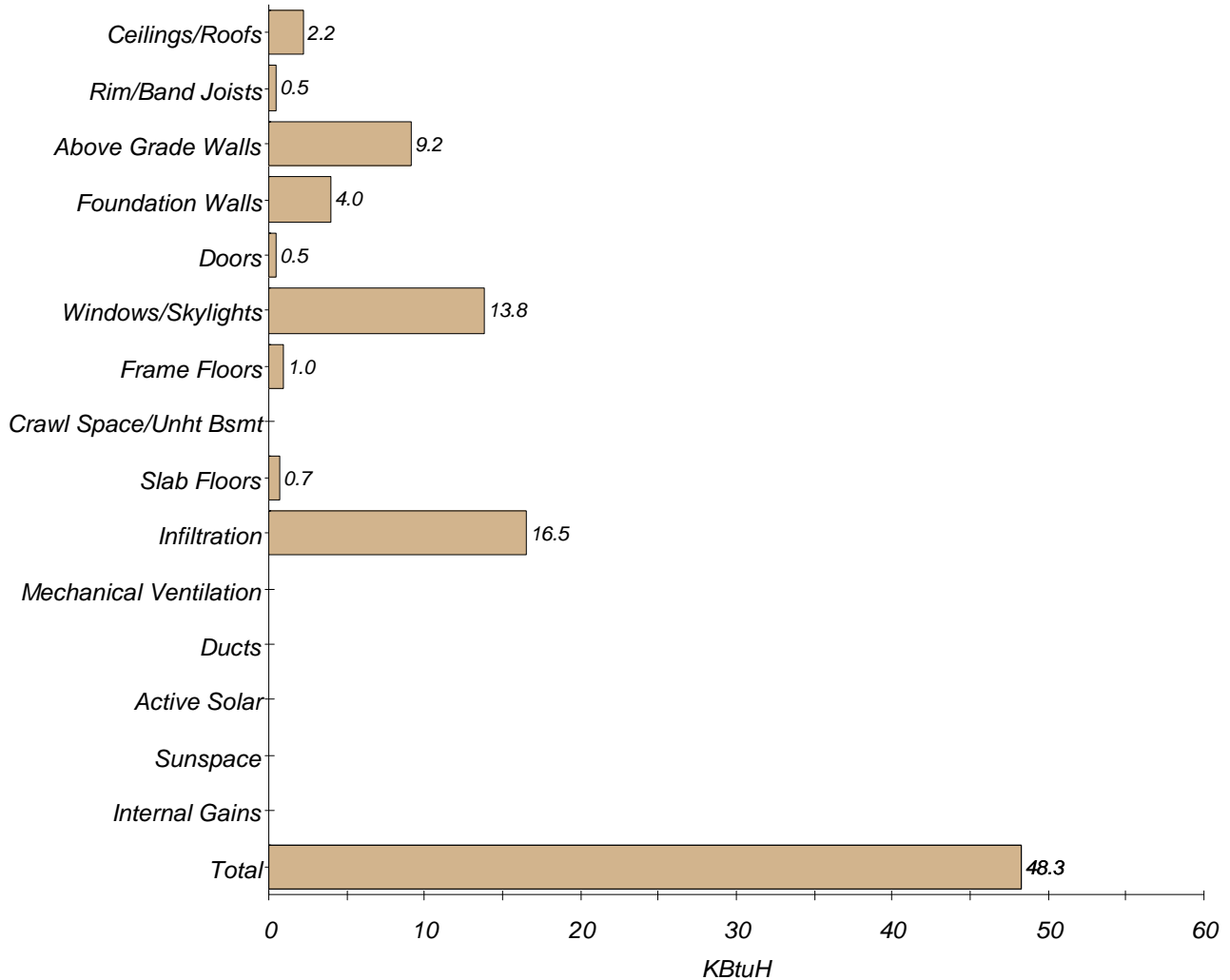
COOLING (KBtu/Hr)

Ceilings/Roofs	1.4
Rim/Band Joists	0.1
Above Grade Walls	2.6
Foundation Walls	0.7
Doors	0.1
Windows/Skylights	16.1
Frame Floors	0.2
Crawl Space/Unht Bsmt	0.0
Slab Floors	-0.5
Infiltration	3.9
Mechanical Ventilation	0.0
Ducts	0.0
Active Solar	0.0
Sunspace	0.0
Internal Gains	5.0
Whole House Ventilation	0.0
Total	29.7

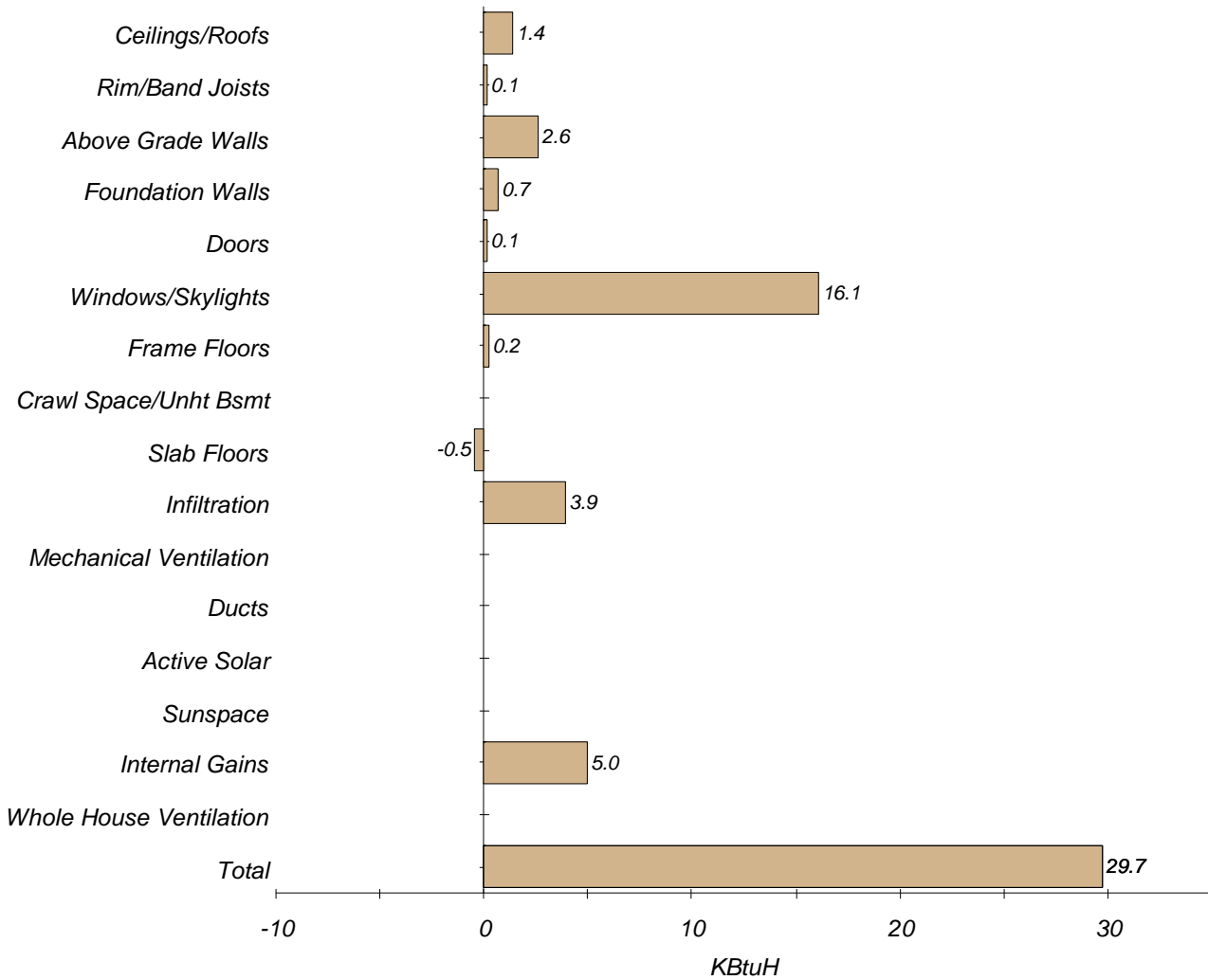
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Heating



Cooling



EQUIPMENT SIZING SUMMARY

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3500 sq/ft Home**HEATING**

Calculated Peak Load (kBtu/hr)	48.3
Oversize Factor (%)	100.0

HEATING EQUIPMENT CAPACITY (kBtu/hr)

Required	48.3
Specified	96.0

COOLING

Calculated Peak Load (kBtu/hr)	29.7
Sensible	29.7
Latent	0.0
Oversize Factor (%)	100.0

COOLING EQUIPMENT CAPACITY (kBtu/hr)

Required Total	29.7
Specified Total	48.0

Required Sensible	29.72
Specified Sensible	33.60

Required Latent	0.00
Specified Latent	14.40

Notes: