

*Operating cost of different HVAC systems
Energy Cost Analysis*

for

Mr. and Mrs. John Doe
123 Main St
Warminster, Pa 18974



**ENERGY
AUDIT**

Residential and Light Commercial
Energy Analysis

Prepared By:

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J.A. Smith Heating & Air Cond Inc
360 Patricia Drive
Warminster, Pa 18974
215-956-9400 x113
Wednesday, January 12, 2011



Project Summary

General Project Information

Project Title:	Operating cost of different HVAC systems	Company Name:	J.A. Smith Heating & Air Cond Inc
Designed By:	Jeffrey A Smith	Company Rep:	Jeffrey A. Smith
Project Date:	1/12/2011	Company Address:	360 Patricia Drive
Project Comment:	based on fuel rates of of 1/11/2011 Natural Gas \$1.25 ccf Propane \$2.52 gallon Fuel Oil \$3.17 gallon	Company City:	Warminster, Pa 18974
		Company Phone:	215-956-9400 x113
		Company Fax:	215-672-5116
		Company E-Mail Address:	jeff@jasmithheating.com
Client Name:	Mr. and Mrs. John Doe	Company Website:	www.jasmithheating.com
Client Address:	123 Main St		
Client City:	Warminster, Pa 18974		
Client Phone:			
Client Fax:			

Design Data

Building Area:	2,800 sq.ft.	Cooling Load:	46,000 Btuh
People:	5	Heating Load:	95,776 Btuh
Occupancy:	12	Loads Adj. Factor:	0.77
		AC On Temp.:	50 °F
Actual City:	Philadelphia, Pennsylvania		
Weather Ref. City:	Philadelphia, Pennsylvania		
Summer Outdoor:	95 °F	Winter Outdoor:	0 °F
Summer Indoor:	75 °F	Winter Indoor:	72 °F
Cooling Hours:	960	Degree Days:	5,023

Annual Operating Cost Estimate

System Description	Fuel Rates Set	Total Heating Cost	Total Cooling Cost	Annual Service Charges	Total Oper. Cost	Average Monthly Cost
Geothermal HP	1	\$1,638	\$284	\$0	\$1,921	\$160
13 Seer A/C with 95% gas	1	\$2,401	\$391	\$0	\$2,792	\$233
13 Seer A/C with 95% propane	1	\$5,125	\$391	\$0	\$5,516	\$460
13 Seer A/C w/ oil furnace	1	\$5,142	\$391	\$0	\$5,533	\$461



Project Summary Bar Chart

System Operating Cost Comparison

