

Mr. & Mrs. Jones
Energy Cost Analysis

for

Mr. & Mrs. Jones
123 Main St
Warrington, Pa 18976



Prepared By:

Jeffrey A. Smith
J.A. Smith Heating & Air Cond Inc
360 Patricia Drive
Warminster, Pa 18974
215-956-9400 x113
Thursday, August 22, 2024



Project Summary

General Project Information

Project Title:	Mr. & Mrs. Jones	Company Name:	J.A. Smith Heating & Air Cond Inc
Designed By:	Jeffrey A Smith	Company Rep:	Jeffrey A. Smith
Project Date:	7/24/2024	Company Address:	360 Patricia Drive
Project Comment:	based on fuel rates of of 07/24/24 Natural Gas \$1.40 ccf Propane \$2.30 gal Fuel Oil \$3.13 gal res Elect \$.16/kwh	Company City:	Warminster, Pa 18974
		Company Phone:	215-956-9400 x113
		Company Fax:	215-672-5116
Client Name:	Mr. & Mrs. Jones	Company E-Mail Address:	jeff@jasmithheating.com
Client Address:	123 Main St	Company Website:	www.jasmithheating.com
Client City:	Warrington, Pa 18976		
Client Phone:			
Client Fax:			

Design Data

Building Area:	2,400 sq.ft.	Cooling Load:	48,000 Btuh
People:	2	Heating Load:	70,000 Btuh
Occupancy:	24	Loads Adj. Factor:	0.77
		AC On Temp.:	65 °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

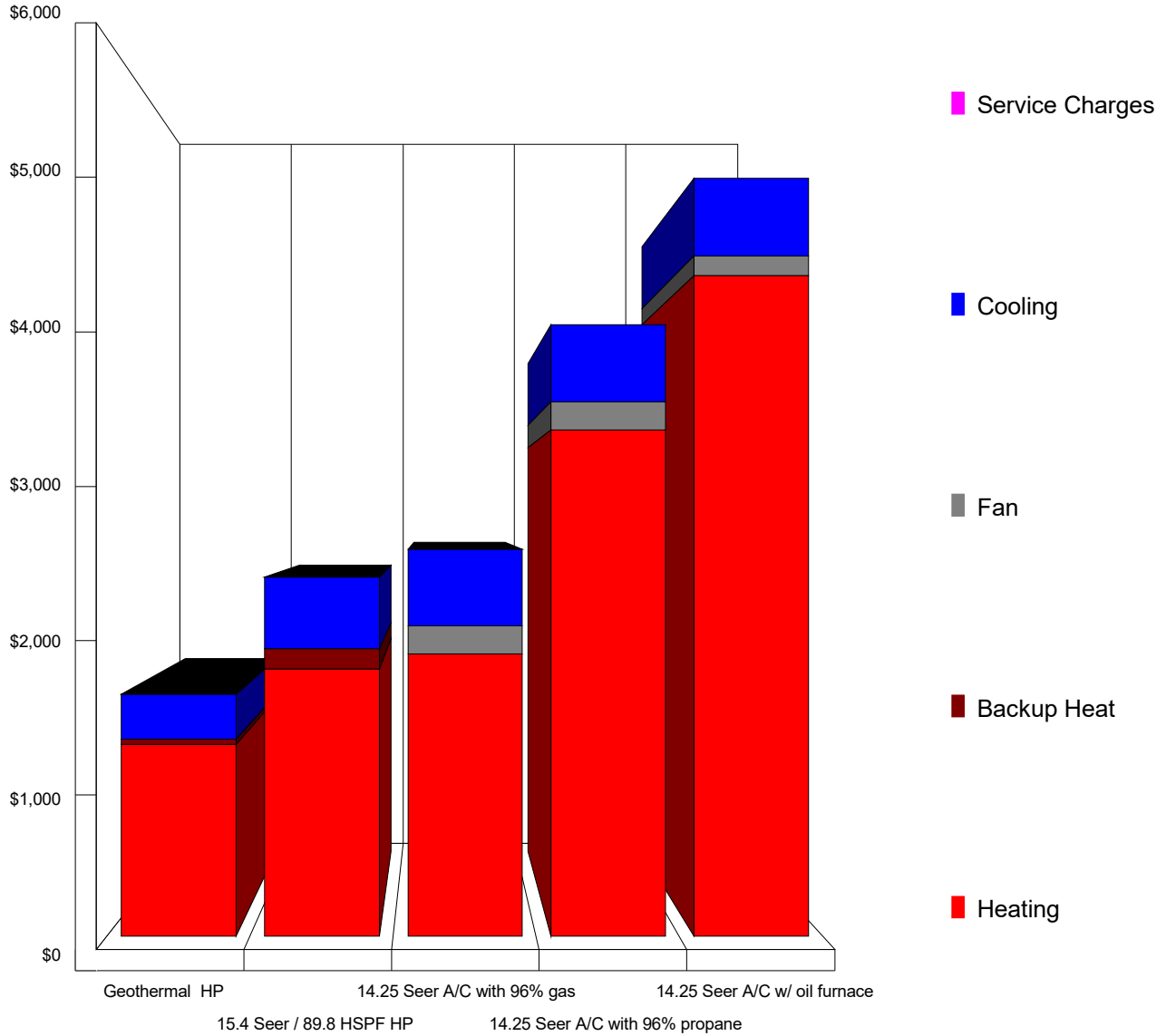
Annual Operating Cost Estimate

System Description	Fuel Rates Set	Total Heating Cost	Total Cooling Cost	Annual Service Charges	Total Oper. Cost	Average Monthly Cost
Geothermal HP	1	\$1,314	\$301	\$0	\$1,615	\$135
15.4 Seer / 89.8 HSPF HP	1	\$1,919	\$477	\$0	\$2,396	\$200
14.25 Seer A/C with 96% gas	1	\$2,071	\$515	\$0	\$2,586	\$216
14.25 Seer A/C with 96% propane	1	\$3,568	\$517	\$0	\$4,085	\$340
14.25 Seer A/C w/ oil furnace	1	\$4,545	\$517	\$0	\$5,062	\$422



Project Summary Bar Chart

System Operating Cost Comparison





Fuel Rates Set 1 - Local Rates for Warminster, Pa R

Electricity

Season	\$/kWh	Escalation	Service Charge
Winter	\$0.16	3.0%	\$0.00
Summer	\$0.16	3.0%	\$0.00

Summer Months: May to September

Natural Gas

Season	\$/Therm	Escalation	Service Charge
Winter	\$1.4	3.0%	\$0.00
Summer	\$1.4	3.0%	\$0.00

Summer Months: April to September

Propane

Season	\$/Gallon	Escalation
Winter	\$2.3	3.0%
Summer	\$2.3	3.0%

Summer Months: April to September

Fuel Oil

Season	\$/Gallon	Escalation
Winter	\$3.13	3.0%
Summer	\$3.13	3.0%

Summer Months: April to September