

Energy Cost and Features

Property

Anthony Benore
568 Lambert Ln.
Fuquay-Varina, NC 27526

Organization

Energy Modeling Agency
610-516-1144
Charlie Ashcom

Weather: Raleigh, NC

Benore Residence Spray Foam
Benore Residence Spray Foam.blg

Builder

Annual Energy Costs (\$/yr)	Benore Residence Fiberglass	Benore Residence Spray Foam	Savings	%Saved
Heating	1181	483	697	59.1%
Cooling	914	373	542	59.2%
Water Heating	164	164		
Lights & Appliances	1125	1125		
Photovoltaics	-0	-0		
Service Charges	120	120		
Total	3503	2264	1239	35.4%
Average Monthly(\$/Month)	292	189	103	35.4%

Energy Features

Benore Residence Fiberglass

Benore Residence Spray Foam

Ceiling w/Attic	R-49 fiberglassAttic U=0.065	R-20 SprayFoam Attic U=0.045
Sealed Attic	None	
Vaulted Ceiling	R-49, Vaulted U=0.043	R-20, Spray Foam U=0.043
Above Grade Wall	R-19 fiberglass U=0.072	R-13 Spray Foam U=0.062
Foundation Walls (Cond)	None	
Foundation Walls (Uncond)	R-13 Finished R=13.0	R-10 Spray Foam R=10.0
Doors	Steel-urth w/brk U=0.187	
Windows	DbL/LoE/Arg - Vinyl U=0.330	
Floors	R-19 U=0.062	R-20 SprayFoam U=0.041
Slab Floors	None	
Infiltration	Htg: 0.67 Clg: 0.67 ACHnat	Htg: 1.00 Clg: 1.00 ACH50
Infiltration Measure	User estimate	Blower door
Mechanical Ventilation	None	
Interior Mass	None	
Mechanical Equipment 1	Heating: Fuel-fired air distribution, 48.0 kBtuh, 94.0 AFUE.	Heating: Fuel-fired air distribution, 24.0 kBtuh, 94.0 AFUE.
Mechanical Equipment 2	Cooling: Air conditioner, 36.0 kBtuh, 14.0 SEER.	Cooling: Air conditioner, 24.0 kBtuh, 14.0 SEER.
Mechanical Equipment 3	Water Heating: Instant water heater, Gas, 0.80 EF.	Water Heating: Instant water heater, Gas, 0.80 EF.
Programmable Thermostat	Heat=Yes; Cool=Yes	
Ducts	UninsulatedConditioned space	
Duct Leakage to Outside	RESNET/HERS default	

Note: Where feature level varies in home, the dominate value is shown. Only changed features are shown for second building.

REM/Design - Residential Energy Analysis Software v15.7.2

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Equipment Sizing

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Heating

Calculated Peak Load (kBtu/hr)	42.1	23.7
Infiltration	13.6	1.0
Envelope	28.4	22.7
Sizing Factor (%)	100.0	100.0
Heating Equipment Capacity(kBtu/hr)		
Required	42.1	23.7
Specified	48.0	24.0

Cooling

Calculated Peak Load (kBtu/hr)	36.0	18.3
Sensible	27.1	16.6
Latent	8.9	1.7
SHF	0.8	0.9
Sizing Factor(%)	100.0	100.0
Cooling Equipment Capacity (kBtu/hr)		
Required Total	36.0	18.3
Specified Total	36.0	24.0
Specified SHF	0.7	0.7
Required Sensible	27.14	16.57
Specified Sensible	25.20	16.80
Required Latent	8.86	1.70
Specified Latent	10.80	7.20

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