

# COA Community Energy Center

## Home Energy Audit Report



SUBMITTED TO: Me\_test2

SUBMITTED BY: Rudy DATE: 17 June 2024

### Summary

Energy Audit of your property was conducted on 2024-05-24 We looked into insulation, mechanical equipment, conducted test like blower door test to quantify the energy efficiency of your home. By analyzing collected and all the data that you provided your home energy cost your approximately 4000 yearly. (This report also shows the list of improvements that could lower energy consumption and improve comfort and health)

Build: Year 2019  
Volume: 5000 cubic feet  
Area: 5000 square feet  
Net wall area: 500 square feet  
Ceiling/attic area: 2000 square feet  
Ceiling height: 5 feet

Primary heating fuel: Gas  
Secondary heating fuel:  
Water heating fuel:  
Window type: doublepaned  
Window area: 400 square feet  
Door type and area: no\_idea, 500 square feet

## **Home's current conditions**

### **Health and safety**

Combustion Gas Spillage Test – PASSED (Emissions Spilled for 50 seconds)  
Appliance Carbon Monoxide (CO) Test – FAILED( Detected 30parts per million)  
Ambient Carbon Monoxide (CO) Test – PASSED (Detected 20 parts per million)  
Combustion Appliance Draft Test – FAILED  
Gas leak detection: PASSED, NA  
Other Health & Safety Concerns: There were no further health and/or safety concerns that were identified at the time of your energy audit.

### **Air quality**

#### **Insulation levels**

HOME COMPONENT	YOUR HOME'S R-VALUES	US D.O.E. RECOMMENDED R-VALUES
Attics/Ceilings	50	60
Above Ground Walls	20	30
Basement Walls	20	19

source [U.S. Department of Energy, Pacific Northwest Laboratory](#)

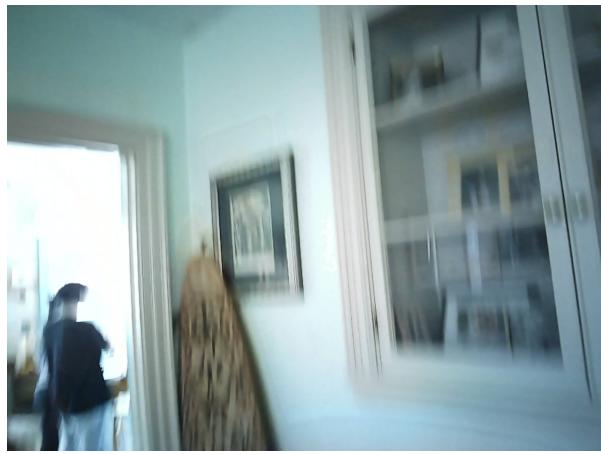
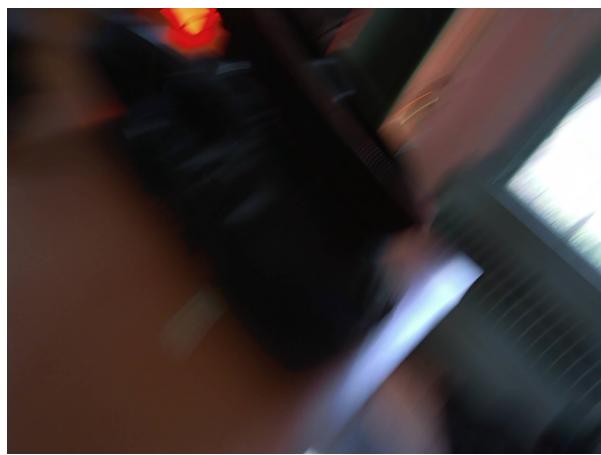
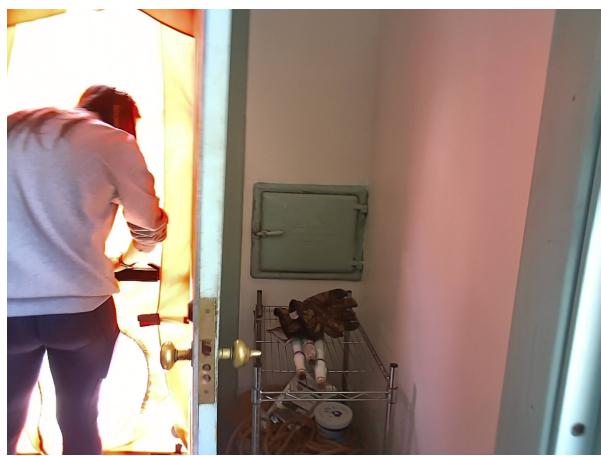
Here are some picture of your insulation.

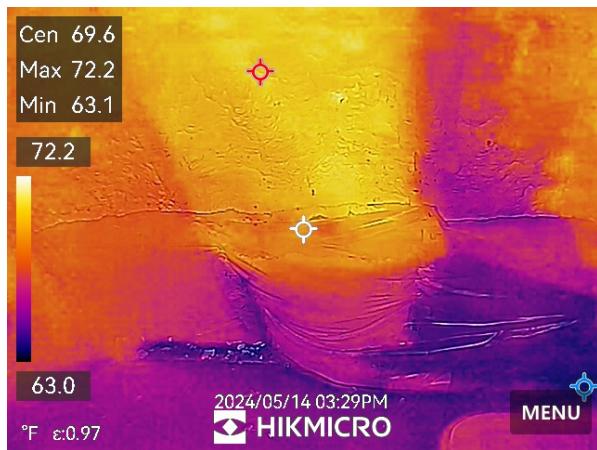
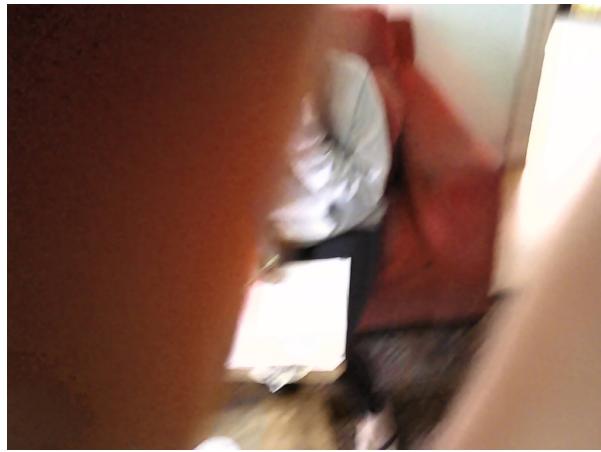
Images of the insulation pictures.

### **Air Leakage Test**

The blower door test, determined that your homes air leakage rate is 0.7Natural Air Changes per Hour(ACHn) (Should I explain what ACHn is?) CFM50 was 450 with B ring used. (Include photo)

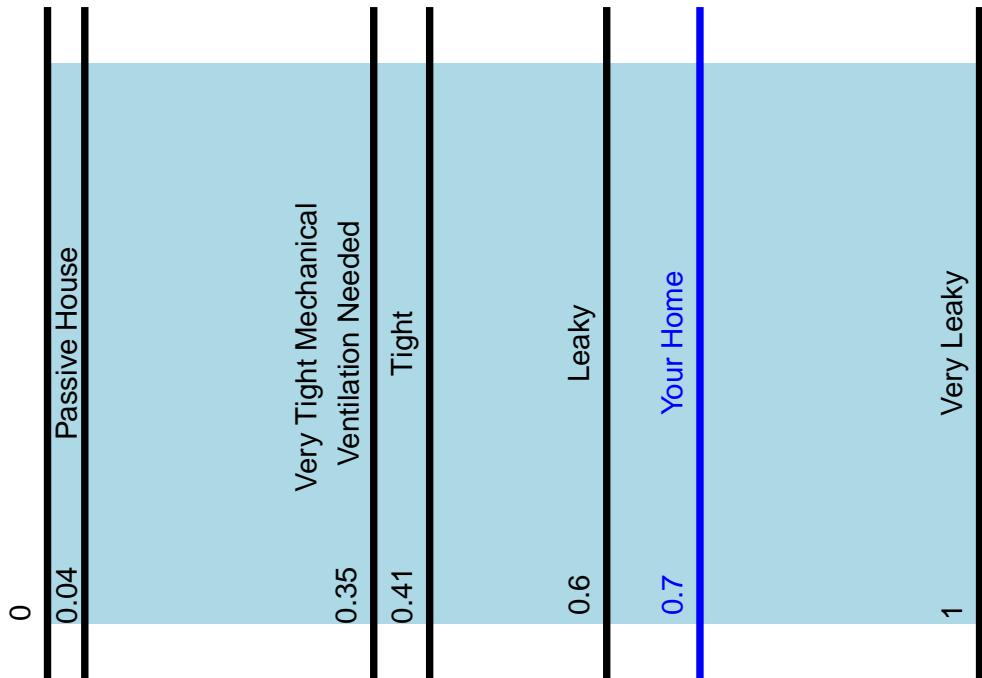
NA





## Your Building on the scale

This scale shows how is your building compare to air leakage standards. Where being closer to zero providing with the best energy saving.



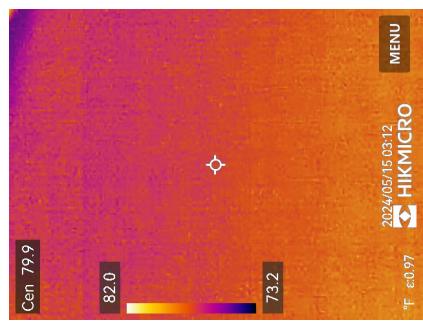
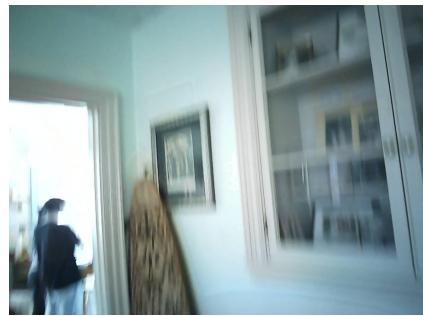
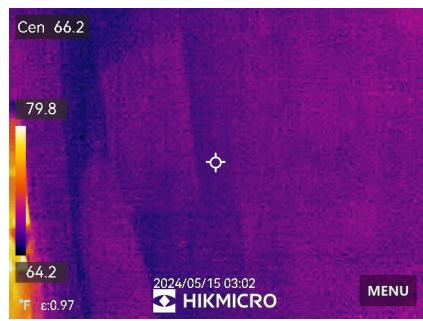
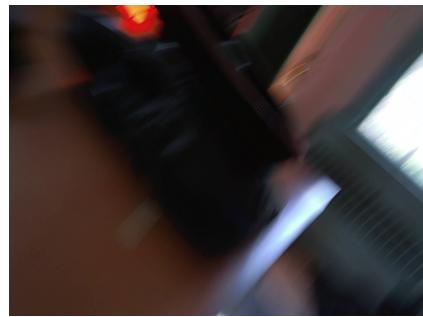
The blower door test and visual inspection detected the following areas for moderate to severe air leakage:

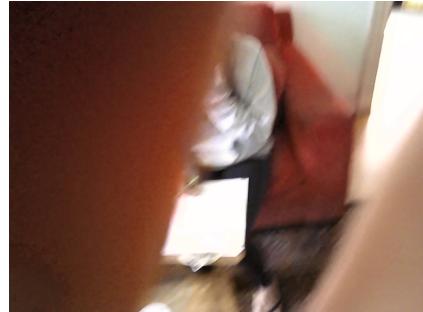
(This would be pictures)



## Heating and Cooling Systems

(Image of heating system) Your home is currently heated with an Gas Your current heating system has the following efficiency and output ratings:





- Heating efficiency = 20
- Annual Fuel Utilization Efficiency (AFUE)(need a new column here)
- Heating output = 2000 Btu/hr.

Your home is cooled with (need new column for cooling type) {r} reference to df.. (I need conditional rendering here) The size, construction, and energy consuming features of your home have all been factored into the calculation of the heating and cooling loads for your home:

- Heating load = 3000 Btu/hr
- Cooling load =  $1.5 \times 10^4$ Btu/hr

It is important to make sure that a new heating/cooling system is designed to meet the heating and cooling loads of your home. And please keep in mind that any changes to your home (i.e. – air sealing, insulating, etc...) will ultimately decrease your heating load and can lead to saving money on a new heating system by enabling you to purchase a system with a lower energy output.

## Buildings Electricity use

### Energy Bill analysis

