

Use the chat box or click the hand icon



to ask a question.

Welcome to AHFC's
How to
Read Your Rating
Class

Please follow the screen prompts and use your phone to call into this webinar.

Once we begin, we will conduct a brief tutorial on how to interact during this webinar.

We will be starting shortly.

Use the chat box or click the hand icon



to ask a question.

Welcome

Betty Hall / Energy Information Specialist 330-8166

James Wright / Program Specialist 330-8193

Jimmy Ord / Energy Program Information Manager

Disclaimer

The information and materials provided by the Alaska Housing Finance Corporation are not comprehensive and do not necessarily constitute an endorsement or approval, but are intended to provide a starting point for research and information. AHFC does not endorse or sell any products.

All photos are property of AHFC unless otherwise noted.

What we'll cover:

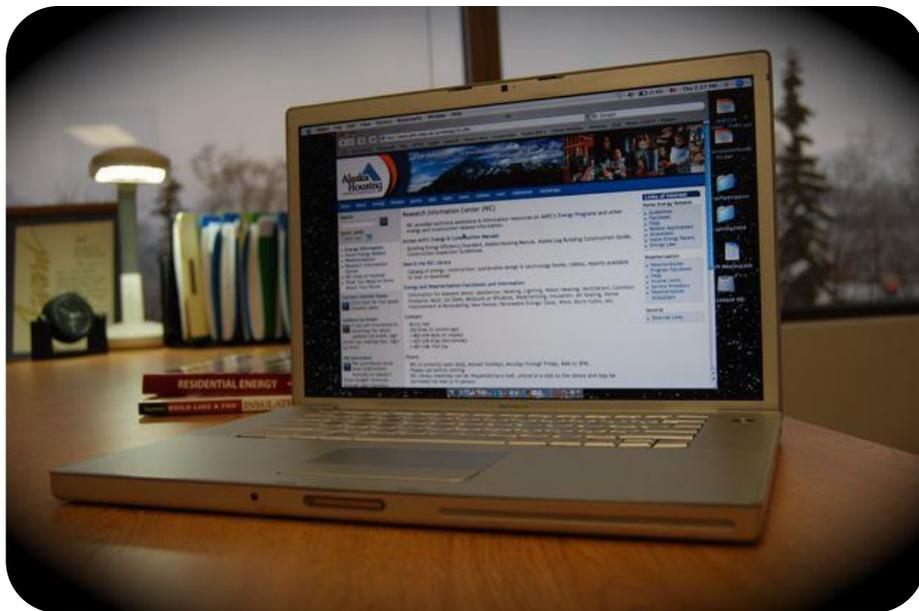
- Information resources
- Energy programs
- Rebate process
- Calculating your rebate
- Reading your rating
- Understanding energy improvements

Use the chat box or click the hand icon



to ask a question.

Information on Energy-Efficiency



Good information makes for good decisions.
It's up to you!

Go online and search the library of information:

AHFC Research Information Center

<http://www.ahfc.us/energy/ric.cfm>

Call 1-800-478-4636

or 1-907-330-8166

8AM-5PM, Monday–Friday,

except holidays

Appointment Recommended



Other Information Resources

Consumer Classes on Energy Efficient Improvements

To register: 1-877-257-3228 www.ahfc.us

Energy Star

Products, how-to manuals, federal tax credits

www.energystar.gov

Use the chat box or click the hand icon



to ask a question.

Energy Programs

AHFC Weatherization & Energy Rebate Programs

The home may participate in only one!

Weatherization Program

OR

Home Energy Rebate Program

OR

New Home Rebate

Weatherization Program

Individuals who meet income guidelines may apply for the Weatherization Program through the weatherization service provider in their area:

Alaska Community Development Corporation (ACDC)

SERVICE AREA: Mat-Su Borough, Kenai-Pen Borough, Copper River Valley, Southeast Alaska(Except Juneau), Bristol Bay, Prince William Sound, Aleutians, Kodiak

CONTACT: (907) 746-5680 or (800) 478 8080 or ltice@alaskaacdc.org or tstevenson@alaskaacdc.org

Interior Weatherization

SERVICE AREA: Fairbanks/North Star Borough, Road System: South to Cantwell and East to Delta Junction

CONTACT: (907) 452-5323 or (800) 478-5323 or iwi@alaska.com

RURAL Community Action Program (RURAL CAP)

SERVICE AREA: Anchorage, Juneau, Western Alaska, Northern Alaska

CONTACT: (907) 771-7800 or (800) 478-6343 or info@weatherizeme.org

Tanana Chiefs Conference (TCC)

SERVICE AREA: Interior Alaska

CONTACT: (907) 452-8251 x3419 or (800) 478-6822 x3419 or alfred.felix@tananachiefs.org or euphrasia.demoski@tananachiefs.org

If you are living in a house owned by a state designated housing authority, you may contact your housing authority directly.

Homeowners and renters may apply.

The weatherization provider will provide program services at no cost to qualified applicants.

Individuals may not participate in both the Weatherization Program and the Home Energy Rebate Program.

FY 2014 INCOME LIMITS FOR ALASKA

Effective
December
18, 2013

Community Name	INCOME LIMIT - 1 PERSON	INCOME LIMIT - 2 PERSONS	INCOME LIMIT - 3 PERSONS	INCOME LIMIT - 4 PERSONS	INCOME LIMIT - 5 PERSONS	INCOME LIMIT - 6 PERSONS	INCOME LIMIT - 7 PERSONS	INCOME LIMIT - 8 PERSONS	EA ADDED FAMILY MEMBER
Anchorage Municipality Low Income Limit	59,500	68,000	76,500	84,900	91,700	98,500	105,300	112,100	6,792
Aleutians East Borough Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
Aleutians West Census Low Income Limit	60,800	69,500	78,200	86,800	93,800	100,700	107,700	114,600	6,944
Bethel Census Area Low Income Limit	55,200	63,100	71,000	78,800	85,200	91,500	97,800	104,100	6,304
Bristol Bay Borough Low Income Limit	61,200	69,900	78,600	87,300	94,300	101,300	108,300	115,300	6,984
Denali Borough Low Income Limit	64,000	73,100	82,200	91,300	98,700	106,000	113,300	120,600	7,304
Dillingham Census Area Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
Fairbanks North Star Borough Low Income Limit	54,200	61,900	69,600	77,300	83,500	89,700	95,900	102,100	6,184
Haines Borough Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
Hoonah-Angoon Census Area Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
Juneau Borough Low Income Limit	66,600	76,100	85,600	95,100	102,800	110,400	118,000	125,600	7,608
Kenai Peninsula Borough Low Income Limit	53,300	60,900	68,500	76,100	82,200	88,300	94,400	100,500	6,088
Ketchikan Gateway Borough Low Income Limit	59,600	68,100	76,600	85,100	92,000	98,800	105,600	112,400	6,808
Kodiak Island Borough Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
Lake and Peninsula Borough Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
Matanuska-Susitna Borough Low Income Limit	55,000	62,800	70,700	78,500	84,800	91,100	97,400	103,700	6,280
Nome Census Area Low Income Limit	55,100	63,000	70,900	78,700	85,000	91,300	97,600	103,900	6,296
North Slope Borough Low Income Limit	55,200	63,100	71,000	78,800	85,200	91,500	97,800	104,100	6,304
Northwest Arctic Borough Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
Petersburg Census Area Low Income Limit	59,400	67,900	76,400	84,800	91,600	98,400	105,200	112,000	6,784
Prince of Wales-Hyder Census Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
Sitka City & Borough Low Income Limit	55,100	63,000	70,900	78,700	85,000	91,300	97,600	103,900	6,296
Skagway Municipality Low Income Limit	61,000	69,700	78,400	87,100	94,100	101,100	108,100	115,000	6,968
Southeast Fairbanks Census Area Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
Valdez-Cordova Census Low Income Limit	57,000	65,100	73,200	81,300	87,900	94,400	100,900	107,400	6,504
Wade Hampton Census Area Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
Wrangell City and Borough Census Area Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
Yakutat City & Borough Low Income Limit	59,200	67,600	76,100	84,500	91,300	98,100	104,800	111,600	6,760
Yukon-Koyukuk Census Area Low Income Limit	51,700	59,100	66,500	73,800	79,800	85,700	91,600	97,500	5,904
2014 DOE Poverty Income Levels-FINAL	29,160	39,320	49,480	59,640	69,800	79,960	90,120	100,280	10,160



Home Energy Rebate Program

- For individuals who do not qualify for Weatherization Program.
- No income requirements.
- Owner-occupied, year-round residences.
- Homeowners pay upfront & are then rebated for making eligible improvements they choose.
- “Before & After” energy ratings required.
- Dwellings may not participate in both the Weatherization Program and Home Energy Rebate Program.
- Homeowners may participate again if they have moved to a new primary residence and 2 years have passed since the date of their last rebate check.

New Home Rebate

- \$10,000 rebate for a new 6 Star home.
- \$7,000 rebate for a new 5 Star Plus home.
- Not more than 1 year old from the time of completion.
- For original owner.
- Must meet all AHFC property financing requirements & have a 5 Star Plus or 6 Star energy rating.

To Participate: Call AK-REBATE at 1-877-257-3228

Second Mortgage for Energy Conservation

- Homeowners may finance up to \$30,000 of energy efficient improvements
- Choose from a list of upgrades included on your home energy rating
- The maximum loan term is 15 years
- Rebate amount is applied toward loan amount
- For forms and instructions visit our website: http://www.ahfc.us/loans/second_energy_conserv.cfm
- Contact:**

Alaska USA Federal Credit Union
Real Estate Telephone Loan Center (RETLCL)
907-786-2800 (toll free 1-888-425-9813)
PO Box 196613
Anchorage, AK 99519-6613

Use the chat box or click the hand icon  to ask a question.

The Home Energy Rebate Process

What You Have to Do

to Participate in the Home Energy Rebate Program



1. **Request a home energy rating.** Sign-up at www.akrebate.com or contact the AK-REBATE Call Center at 1-877-257-3228.
2. **Get the first rating.** A rater will call to schedule and perform the first energy rating. Rater fees vary, so ask for their rate. Contact the Call Center if you would like a different rater.
3. **Fill out and send in the first energy rating paperwork.** You will be entered into the program and reimbursed up to \$325 for the rating. **You have 90 days from the dispatch date to submit paperwork and enter the program!**
4. **Choose and make the energy-efficiency improvements** listed in your energy rating.
5. **Get a second energy rating** after the improvements are done. **You have 18 months to complete improvements, post energy rating, and turn all paperwork into AHFC!**
6. **Fill out and send in the final rebate paperwork.** You will be reimbursed up to \$175 for the rating and receive a rebate based on your home's improved energy-efficiency and your eligible receipts.



Required Documents Checklist #1

Send to AHFC After the First Rating (As-Is)



- As-Is Rating Reimbursement Form (HER-1 Invoice).
- Copy of Home Energy Rating Certificate for first rating (As-Is).
- Copy of Energy Efficiency Improvement Options report (As-Is).
- Copy of proof of ownership (tax parcel notice, transfer deed or deed of trust that matches property address).
- Energy rater's receipt or check copy for the first energy rating (As-Is).

All documents need to be completed and sent to AHFC for you to be entered into the rebate program.

Use the chat box or click the hand icon  to ask a question.



As-Is Energy Rating Reimbursement Form
(HER-1 Invoice)

This form must be current and fully completed and signed by the homeowner and the energy rater. Please read the instructions on the following page. Incomplete forms may delay processing. The social security number is required for tax purposes. Reimbursements and rebates are subject to funding availability. Homeowner information, except for social security information provided in this form may be considered public information and, therefore, subject to public records disclosures.

The homeowner must send the completed form with all required documents to AHFC, P.O. Box 101020, Anchorage, AK 99510-1020; Attn: R2D2 to participate in the Home Energy Rebate program.

Homeowner Information please check this box if you have previously participated.

1. Homeowner Legal Name _____
2. Homeowner Social Security# _____ (required, or will not be processed)
3. Property Address/Legal Desc. _____
4. Mailing Address _____
5. City _____
6. State & Zip Code _____
7. Phone Number _____
8. E-mail Address _____
9. Reimbursement Amount \$ _____ (Not to Exceed \$325)

Certifying statement: I certify that this is my primary residence; I am the owner of and occupy the above-referenced property year-round. I also acknowledge and understand that reimbursements and rebates under the Home Energy Rebate program are deemed taxable and need to be reported on my federal tax return. AHFC will issue an IRS Form 1099 for any reimbursement or rebate amount received. I understand and agree that if I submit any false, inaccurate or incomplete information in this form and attachments, I will be subject to the following: (1) immediate repayment to AHFC of any amount paid to me by AHFC; and (2) possible prosecution for fraud and misrepresentation. Attached are the required copies of my:

1. Home Energy Rating certificate (As-Is),
2. Energy Efficiency Improvement Options report (As-Is),
3. Proof of ownership (tax parcel notice, transfer deed or deed of trust, that matches property address),
4. Energy rater's receipt or cleared check copy.

I also certify that I have 90 days from the date I am dispatched to get an as-is energy rating, and to submit all of the above listed paperwork to AHFC. I understand that improvements to my home must meet all applicable building codes and standards and may require ventilation.

Homeowner's Signature _____ Date _____

Energy Rater Information

1. Energy Rater _____
2. Address _____
3. City _____
4. State & Zip Code _____

I certify that the information contained in the energy rating on the above-referenced property is true and correct. I have provided the owner of the property with a copy of the As-Is Energy Rating, the As-Is Improvement Options report, consumer education on energy efficiency, and my receipt for the energy rating. I understand that any misrepresentation is subject to penalties detailed in 15 AAC 155.350.

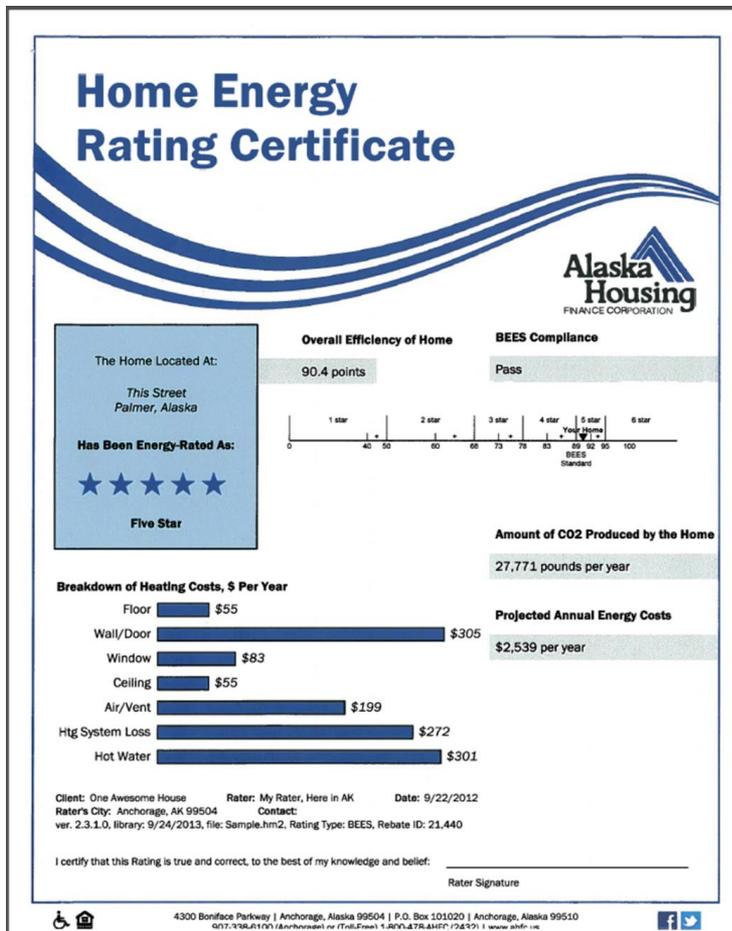
Energy Rater's Signature _____ Date _____ HER-1 _____ 7/11/13

 4300 Boniface Parkway • Anchorage, Alaska 99504 • PO, Box 101020 • Anchorage, Alaska 99510
907-338-6100 (Anchorage) or (Toll-Free) 1-800-478-AHFC (2432) • www.ahfc.us 

Sample As-Is Reimbursement Form

This needs to be filled out completely and signed by the homeowner and the energy rater.

Send Copies of Energy Rating & Energy Efficiency Improvement Options Report



Energy Efficiency Improvement Options

Property: energy efficiency
110 full throttle
Anchorage, AK 99517

House: Multi-Family, One Unit
Living Floor Area: 1,500 sq.ft
2-Car Attached Garage

Initial Rating: Two Star, 54.3 points
Additional Rating Points needed to reach higher Rating Levels:
5.7 more points needed to reach 2+ Stars
13.7 more points needed to reach 3 Stars
18.7 more points needed to reach 3+ Stars
23.7 more points needed to reach 4 Stars
28.7 more points needed to reach 4+ Stars
33.7 more points needed to reach 5 Stars
37.7 more points needed to reach 5+ Stars

Rater: AHFC Rater
AHFC
Boniface
Anchorage

ID: read a rating

Fuel Prices used in this Analysis: Electricity = \$0.1242/kWh, Natural Gas = \$0.75/cf

The following are possible energy-saving improvements for your home.
Notes: The Rating points you receive for each improvement depend upon the other measures you install. In the report below, the points indicated for each measure assume that you install all prior measures on the list. The Break-Even cost is the *most* you could pay for the improvement and still have it be cost-effective based on energy savings over the life of the measure.

Improvement Description / Location	Annual Savings ¹	Break-Even Cost ²	Rating Points Gained ³	Rating, after all Improvements thru this one ⁴	Design Heat Loss, Btu/hr ⁵
Fill empty 2x12 cavity with R-38 blown-in dense-pack insulation . Location - Exposed Floor: garage floor	\$189	\$4,136	4.6	58.9 points 2+ Stars Increase: 4.6 pts, 0 steps	52,572
Add R-19 fiberglass batts to masonry wall. Cost does not include studs or furring strips. Location - Below- (part or all) Grade Wall: crawl space	\$117	\$2,564	2.8	61.7 points 2+ Stars Increase: 7.4 pts, 1 step	49,760
Install Lexan magnetic storm window on interior Location - Window/Skylight: 2nd floor skylights	\$29	\$456	0.7	62.4 points 2+ Stars Increase: 8.1 pts, 1 step	49,053
Caulk and Seal so that Home Air Leakage is Reduced by 1500 CFM at 50 Pascals.	\$422	\$3,787	10.2	72.6 points 3 Stars Increase: 10.3 pts, 2 steps	38,391
Add R-5 insulating blanket to garage door Location - Garage Door: garage overhead door	\$35	\$441	0.8	73.4 points 3+ Stars Increase: 19.1 pts, 3 steps	37,536
Add R-21 blown cellulose insulation to attic with Standard Truss. Location - Ceiling w/ Attic: garage attic	\$32	\$698	0.8	74.2 points 3+ Stars Increase: 19.9 pts, 3 steps	36,795
Install R-14 rigid board insulation Location - Exposed Floor: House floor	\$73	\$1,596	1.8	76.0 points 3+ Stars Increase: 21.7 pts, 3 steps	35,092
Add R-21 blown cellulose insulation to attic with Standard Truss.	\$55	\$1,207	1.3	77.3 points 3+ Stars	33,795

Page 1 of 15

Use the chat box or click the hand icon  to ask a question.

Joe Rater
Bubba's Rating Service
444 Energy Drive
Anchorage, AK

Invoice

DATE	INVOICE #
8/20/08	88

BILL TO

Larry Inefficient
1000 Nowhere Drive
Anchorage, AK

LEGAL ADDRESS

1000 Nowhere Drive
Anchorage, AK

DUE DATE
8/30/08

ITEM	SERVICES	AMOUNT
Charges	As-Is Energy Rating for Rebate Program	450.00
Tax	3% Borough	13.50
Payment	Check #1100	-463.50
Thank you for your business!		Total

Sample Energy Rater Receipt

Shows proof of payment to energy rater for the first (As-Is) energy rating



Required Documents Checklist #2

Send to AHFC After the Second Rating (Post-Improvement)



- Post-Improvement Rating & Reimbursement Form (HER-2 Invoice).
- Home Energy Rating certificate for the second rating (Post-Improvement).
- Your receipts (proof of payment) for eligible improvements completed.
- Energy rater's receipt or check copy for second rating (Post-Improvement).

All documents need to be completed and sent to AHFC for you to be eligible for the rebate.

Use the chat box or click the hand icon  to ask a question.



Post-Improvement Rating Reimbursement & Rebate Form
(HER-2 Invoice)

This form must be current and fully completed and signed by the homeowner and the energy rater. Please read the instructions on the following page. Incomplete forms will delay processing. Reimbursements and rebates are subject to funding availability. Homeowner information, except for social security information provided in this form may be considered public information and, therefore, subject to public records disclosures.

The homeowner must send the completed form with all required documents to AHFC, P.O. Box 101020, Anchorage, AK 99510-1020; Attn: R2D2.

Homeowner Information

1. Homeowner Legal Name _____
2. Property Address/Legal Desc. _____
3. Mailing Address _____
4. City _____
5. State & Zip Code _____
6. Phone Numbers _____
7. E-mail Address _____

Certifying statement: I certify that this is my primary residence. I am the owner of and occupy the above referenced property year-round. I also acknowledge and understand that reimbursements and rebates under the Home Energy Rebate program are deemed taxable and need to be reported on my federal tax return. AHFC will issue an IRS Form 1099 for any reimbursement or rebate amount received. I further certify that the attached copies of the required documentation support my reimbursement and rebate request. I understand and agree that if I submit any false, inaccurate or incomplete information in this form and attachments, I will be subject to the following: (1) immediate repayment to AHFC of any amount paid to me by AHFC; and (2) possible prosecution for fraud and misrepresentation. Attached are the required copies of my:

1. Home Energy Rating certificate (Post-Improvement),
2. Receipts with Proof of Payment for eligible improvements completed,
3. Energy rater's receipt or cleared check copy for Post-Improvement energy rating.

Total of receipts for improvements: \$ _____
Reimbursement for Post-Improvement energy rating: \$ _____ (not to exceed 175.00)

I understand AHFC will determine the actual rebate and reimbursement amount, based on points, steps improved and eligible receipts and proofs of payment.

Homeowner's Signature Date

Energy Rater Information

1. Energy Rater _____
2. Address _____
3. City _____
4. State & Zip Code _____

I certify that the information contained in the energy rating on the above-referenced property is true and correct. I have provided the owner of the property with a copy of the Post-Improvement energy rating and my receipt for this energy rating. I understand that any misrepresentation is subject to penalties detailed in 15 AAC 155.350

Energy Rater's Signature Date HER-2 7/11/13



Sample Post-Improvement Reimbursement Form

This needs to be filled out completely and signed by the homeowner and the energy rater.

Use the chat box or click the hand icon  to ask a question.

Home Energy Rating Certificate

UNOFFICIAL

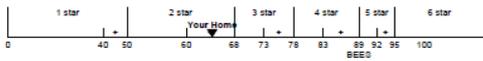


Overall Efficiency of Home
64.3 points

BEES Compliance
Fail

The Home Located At:
1234 Snow Filled Circle
Anchorage, Alaska

Has Been Energy-Rated As:
★★+
Two Star Plus



The first rating on this home was Two Star.

This rating shows it is now Two Star Plus!

Breakdown of Heating Costs, \$ Per Year

Floor	\$331
Wall/Door	\$367
Window	\$18
Ceiling	\$222
Air/Vent	\$487
Htg System Loss	\$1,450
Hot Water	\$1,242

Client: Happy Homeowner Rater: Rater A, Raters R Us Date: 1/29/2014
Rater's City: Anchorage, AK 99504 Contact: 907-330-9187, Notsocold@winter.us, FAX 907-330-8197
ver. 2.3.2.1, library: 9/24/2013, file: Happy Homeowner.hm2, Rating Type: BEES

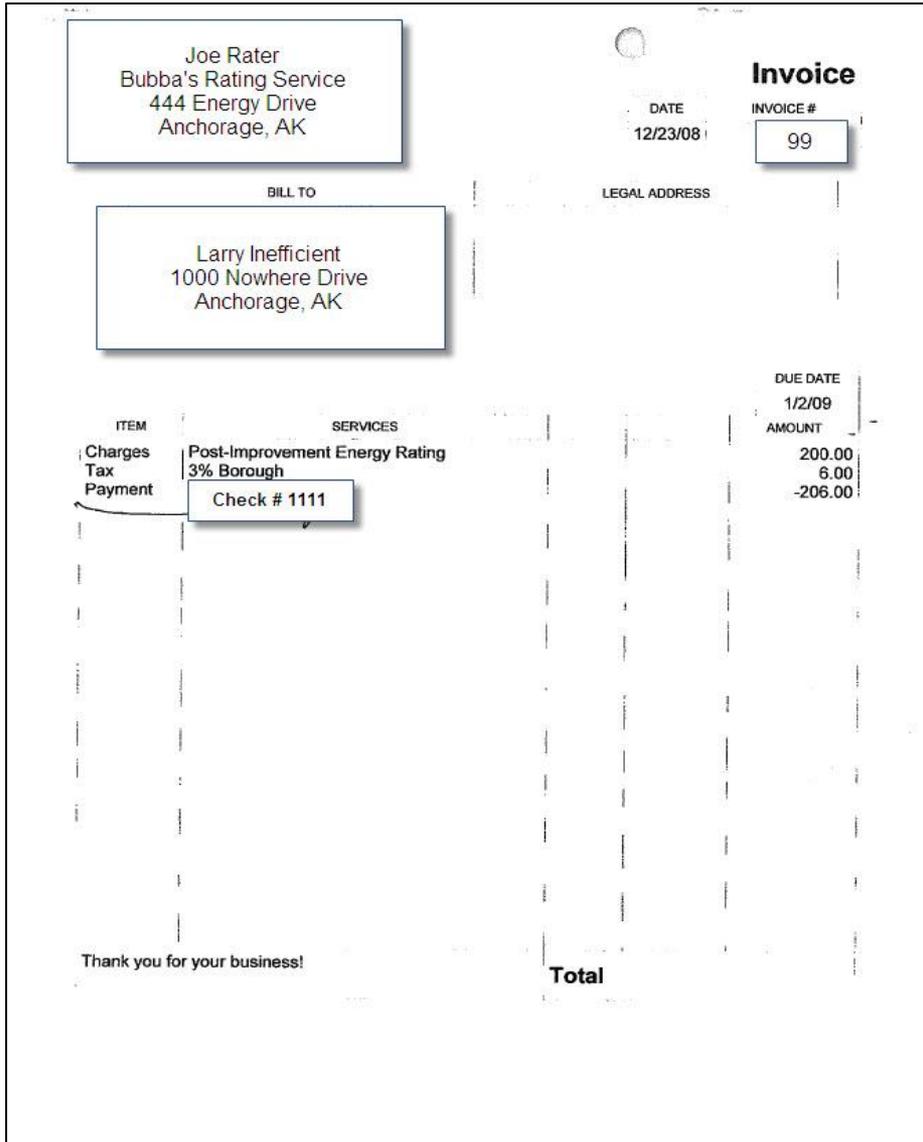
I certify that this Rating is true and correct, to the best of my knowledge and belief. _____
Rater Signature

 4300 Boniface Parkway | Anchorage, Alaska 99504 | P.O. Box 101020 | Anchorage, Alaska 99510
907-536-8100 (Anchorage) or (Toll-Free) 1-800-476-AHFC (2432) | www.ahfc.us  

Sample Post-Improvement Energy Rating

Shows the energy rating for the home after improvements have been completed.

Use the chat box or click the hand icon  to ask a question.



The image shows a sample energy rater receipt. At the top left, a box contains the name and address of the rater: Joe Rater, Bubba's Rating Service, 444 Energy Drive, Anchorage, AK. To the right, the word "Invoice" is printed. Below it, the date is 12/23/08 and the invoice number is 99. A "BILL TO" section contains the name and address of the customer: Larry Inefficient, 1000 Nowhere Drive, Anchorage, AK. The receipt lists several items: "Charges" for 200.00, "Tax" for 6.00, and "Payment" for -206.00. The "Payment" item is linked to a box labeled "Check # 1111". The "Total" amount is listed at the bottom right. The receipt also includes a "DUE DATE" of 1/2/09 and a "LEGAL ADDRESS" field. At the bottom left, it says "Thank you for your business!".

ITEM	SERVICES	AMOUNT
Charges	Post-Improvement Energy Rating	200.00
Tax	3% Borough	6.00
Payment	Check # 1111	-206.00
Total		

Sample Energy rater receipt for Post- Improvement energy rating

Shows proof of payment to
energy rater for the second
energy rating

Use the chat box or click the hand icon  to ask a question.

Joe's Heating Company
111 Heater Lane
Anchorage, AK

Invoice
Page 1 of 1 Date 12/17/08 Invoice # 2121

Bill to : 1495
Larry Inefficient
1000 Nowhere Drive
Anchorage, AK

Job # 007

Terms: Collect upon Completion Salesman: Poindexter Cust PO# Project Manager:

Job Description: Fantastic furnace 70,000 BTU \$6862.00
Inv Description: Job Completed as per Contract for the sum of \$6,862.00
Received Down payment \$3,431.00
Final Payment Authorized to Run \$3,431.00

Original Amount:	6,862.00
Change Orders:	.00
Total Contract:	6,862.00
Amount Previously Billed:	.00
Amount to Bill:	6,862.00
Total:	6,862.00
Sales Tax:	.00
Gross Invoice:	6,862.00
Payment -	\$6,862.00
Net Invoice Due:	\$0.00

PAID
12/17/09

Need cancelled check or credit card receipt to show proof of payment!

Sample Improvement Receipts

Shows proof of payment for eligible measures completed.

Receipt must show proof of payment!

Use the chat box or click the hand icon  to ask a question.



Use the chat box or click the hand icon  to ask a question.

Calculating the Rebate

Energy Rating & Energy Efficiency Improvement Options Report

Home Energy Rating Certificate



UNOFFICIAL

The Home Located At:

1234 Snow Filled Circle
Anchorage, Alaska

Has Been Energy-Rated As:

★ ★

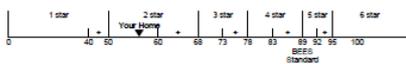
Two Star

Overall Efficiency of Home

56.2 points

BEES Compliance

Fail



Amount of CO2 Produced by the Home

30,902 pounds per year

Projected Annual Energy Costs

\$5,770 per year

Breakdown of Heating Costs, \$ Per Year

Floor \$353

Wall/Door \$389

Window \$14

Ceiling \$237

Air/Vent \$778

Htg System Loss \$1,801

Hot Water \$1,242

Client: Happy Homeowner Rater: Rater A, Raters R Us Date: 1/29/2014
 Rater's City: Anchorage, AK 99504 Contact: 907-330-9187, Notsooold@winter.us, FAX 907-330-8197
 ver. 2.3.2.1, library: 9/24/2013, file: Happy Homeowner.html, Rating Type: BEES

I certify that this Rating is true and correct, to the best of my knowledge and belief: _____

Rater Signature

4300 Boniface Parkway | Anchorage, Alaska 99504 | P.O. Box 101020 | Anchorage, Alaska 99510
 907-339-8100 (Anchorage) or (Toll-Free) 1-800-478-AHFC (2432) | www.ahfc.us

Energy Efficiency Improvement Options

Property: energy efficiency
110 full throttle
Anchorage, AK 99517

Initial Rating: Two Star, 54.3 points
Additional Rating Points needed to reach higher Rating Levels:
 5.7 more points needed to reach 2+ Stars
 13.7 more points needed to reach 3 Stars
 19.7 more points needed to reach 3+ Stars
 23.7 more points needed to reach 4 Stars
 28.7 more points needed to reach 4+ Stars
 33.7 more points needed to reach 5 Stars
 37.7 more points needed to reach 5+ Stars

Fuel Prices used in this Analysis: Electricity = \$0.1242/kWh, Natural Gas = \$0.75/cf

House: Multi-Family, One Unit
Living Floor Area: 1,500 sq.ft
2-Car Attached Garage

Rater: AHFC Rater
AHFC
Boniface
Anchorage

ID: read a rating

The following are possible energy-saving improvements for your home.
Notes: The Rating points you receive for each improvement depend upon the other measures you install. In the report below, the points indicated for each measure assume that you install all prior measures on the list. The Break-Even cost is the *most* you could pay for the improvement and still have it be cost-effective based on energy savings over the life of the measure.

Improvement Description / Location	Annual Savings ¹	Break-Even Cost ²	Rating Points Gained ³	Rating, after all Improvements thru this one ⁴	Design Heat Loss, Btu/hr ⁵
Fill empty 2x12 cavity with R-38 blown-in dense-pack insulation . Location - Exposed Floor: garage floor	\$189	\$4,136	4.6	58.9 points 2+ Stars Increase: 4.6 pts, 0 steps	52,572
Add R-19 fiberglass batts to masonry wall. Cost does not include studs or furring strips. Location - Below- (part or all) Grade Wall: crawl space	\$117	\$2,564	2.8	61.7 points 2+ Stars Increase: 7.4 pts, 1 step	49,760
Install Lexan magnetic storm window on interior Location - Window/Skylight: 2nd floor skylights	\$29	\$456	0.7	62.4 points 2+ Stars Increase: 8.1 pts, 1 step	49,053
Caulk and Seal so that Home Air Leakage is Reduced by 1500 CFM at 50 Pascals.	\$422	\$3,787	10.2	72.6 points 3 Stars Increase: 18.3 pts, 2 steps	38,391
Add R-5 insulating blanket to garage door Location - Garage Door: garage overhead door	\$35	\$441	0.8	73.4 points 3+ Stars Increase: 19.1 pts, 3 steps	37,536
Add R-21 blown cellulose insulation to attic with Standard Truss. Location - Ceiling w/ Attic: garage attic	\$32	\$698	0.8	74.2 points 3+ Stars Increase: 19.9 pts, 3 steps	36,795
Install R-14 rigid board insulation Location - Exposed Floor: House floor	\$73	\$1,596	1.8	76.0 points 3+ Stars Increase: 21.7 pts, 3 steps	35,092
Add R-21 blown cellulose insulation to attic with Standard Truss.	\$55	\$1,207	1.3	77.3 points 3+ Stars	33,795

Page 1 of 15

Although you may choose to do as many improvements as you like, *be sure to look at the “Rating Points Gained” you receive for each listed improvement.*

Improvement Description / Location	Annual Savings ¹	Break-Even Cost ²	Rating Points Gained ³	Rating, after all Improvements thru this one ⁴	Design Heat Loss, Btu/hr ⁵
Fill empty 2x12 cavity with R-38 blown-in dense-pack insulation . Location - Exposed Floor: garage floor	\$189	\$4,136	4.6	58.9 points 2 Stars Increase: 4.6 pts, 0 steps	52,572
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Caulk and Seal so that Home Air Leakage is Reduced by 1500 CFM at 50 Pascals.	\$422	\$3,787	10.2	72.6 points 3 Stars Increase: 18.3 pts, 2 steps	38,391

You must **get enough points to move up the energy rating scale** in order to qualify for a rebate!

Points Rating

0-39 1 Star

40-49 1 Star +

50-59 2 Star

60-67 2 Star +

1 step

68-72 3 Star

73-77 3 Star +

78-82 4 Star

83-88 4 Star +

89-91 5 Star

92-94 5 Star +

95-100 6 Star

❑ **For example:** A home receiving 50-59 points would be a 2 Star home. If the home increased in efficiency to total 60-67 points, it would be a 2 Star Plus home.

❑ Therefore, the home moved one step on the star rating level. *

*A minimum number of points is required.

Maximum Rebate Amounts

- One Step Up to \$4,000
- Two Steps Up to \$5,500
- Three Steps Up to \$7,000
- Four Steps Up to \$8,500
- Five Steps Up to \$10,000

- Therefore your rebate would be up to \$4000, based on your receipts.
- Your rebate will never be more than the amount you have spent.
- Maximum rebate is \$10,000.

Minimum Points Required

Points Rating

0-39	1 Star
40-49	1 Star +
50-59	2 Star
60-67	2 Star +

*5 points
required*

68-72	3 Star
73-77	3 Star +
78-82	4 Star
83-88	4 Star +
89-91	5 Star
92-94	5 Star +

*3 points
required*

95-100	6 Star
--------	--------

- A minimum number of points is also required to increase your energy rating for a rebate.
- Homes with *As-Is ratings from 1 Star to 2 Star Plus* need to increase their energy rating by a **minimum of 5 points** and at least one step to qualify for a rebate.
- Homes with *As-Is ratings from 3 Star to 5 Star Plus* need to increase their energy rating by a **minimum of 3 points** and at least one step to qualify for a rebate.

Use the chat box or click the hand icon  to ask a question.

AHFC will calculate your rebate and reimbursement.

You will receive a check in approximately
60 business days from submittal of all
completed paperwork.

About AkWarm Energy Rating Software

- Energy raters do not give points: the rating software calculates them.
- The rating software calculates efficiency by taking into account all parts of the house.
- Rating points & improvements vary from house to house, as each one is different.
- The rating software has been tested and approved by U.S. Department of Energy.

Rating or Rater Issues?

Questions about your rating?

Rater complaints?

1. Call your energy rater first.
2. If there is still a problem contact:

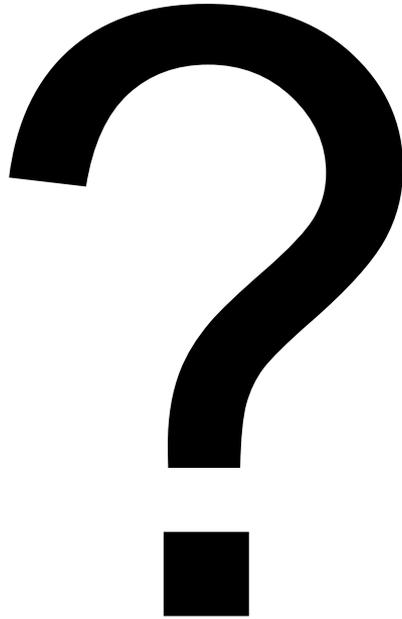
AHFC

1-907-330-8193 or 1-800-478-4636

Use the chat box or click the hand icon



to ask a question.



Use the chat box or click the hand icon



to ask a question.

Reading Your Rating

3 Parts of an As-Is Energy Rating

Home Energy Rating Certificate

UNOFFICIAL



Overall Efficiency of Home
58.2 points

BEES Compliance
Fail

The Home Located At:
1234 Snow Filled Circle
Anchorage, Alaska

Has Been Energy-Rated As:
☆☆
Two Star

Breakdown of Heating Costs, \$ Per Year

Floor	\$353
Wall/Door	\$389
Window	\$14
Ceiling	\$237
Air/Vent	\$778
Htg System Loss	\$1,801
Hot Water	\$1,242

Client: Happy Homeowner
Rater: Rater A, Rater's R Us
Rater's City: Anchorage, AK 99504
Date: 1/29/2014
Contact: 907-330-6187, Notocol@alaska-housing.com, FAX 907-330-6197
Ver: 2.3.2.1, library: 9/24/2013, file: happyhomeowner1.m2, Rating Type: BEES

I certify that this Rating is true and correct, to the best of my knowledge and belief.

Rater Signature

4300 Boniface Parkway | Anchorage, Alaska 99504 | P.O. Box 101020 | Anchorage, Alaska 99510
907-330-6100 (Anchorage) or (Toll-Free) 1-800-474-HAFIC (2424) | www.alaska-housing.com

Energy Efficiency Improvement Options

Property: energy efficiency
110 Full throttle
Anchorage, AK 99517

House: Multi-Family, One Unit
Living Floor Area: 1,500 sq.ft
2-Car Attached Garage

Rater: AHFC Rater
AHFC
Boniface
Anchorage

ID: read a rating

Initial Rating: Two Star, 54.3 points
Additional Rating Points needed to reach higher Rating Levels:
5.7 more points needed to reach 2+ Stars
13.7 more points needed to reach 3 Stars
18.7 more points needed to reach 3+ Stars
23.7 more points needed to reach 4 Stars
28.7 more points needed to reach 4+ Stars
33.7 more points needed to reach 5 Stars
37.7 more points needed to reach 5+ Stars

Fuel Prices used in this Analysis: Electricity = \$0.1242/kWh, Natural Gas = \$0.75/cf

The following are possible energy-saving improvements for your home.
Notes: The Rating points you receive for each improvement depend upon the other measures you install. In the report below, the points indicated for each measure assume that you install all prior measures on the list. The Break-Even cost is the most you could pay for the improvement and still have it be cost-effective based on energy savings over the life of the measure.

Improvement Description / Location	Annual Savings*	Break-Even Cost†	Rating Points Gained‡	Rating, after all Improvements from this one§	Design Heat Loss, Btu/h-ft²
Fill empty 2x12 cavity with R-38 blown-in dense-pack insulation. Location - Exposed Floor: garage floor	\$189	\$4,136	4.6	59.9 points 2+ Stars Increases: 4.6 pts. 0 steps	52,572
Add R-19 fiberglass batts to masonry wall. Cost does not include studs or firing strips. Location - Below: (part or all) Grade Wall: crawl space	\$117	\$2,564	2.0	61.7 points 2+ Stars Increases: 7.4 pts. 1 step	49,760
Install Lexan magnetic storm window on interior. Location - Window/Skylight: 2nd floor windows	\$29	\$456	0.7	62.4 points 2+ Stars Increases: 8.1 pts. 1 step	49,053
Caulk and Seal on that Home Air Leakage is Reduced by 1500 CFM at 50 Pascals.	\$422	\$3,787	10.2	72.6 points 3 Stars Increases: 18.3 pts. 2 steps	38,391
Add R-5 insulating blanket to garage door. Location - Garage Door: garage overhead door	\$35	\$441	0.8	73.4 points 3+ Stars Increases: 19.1 pts. 3 steps	37,536
Add R-21 blown cellulose insulation to attic with Standard Truss.Location - Ceiling w/ Attic: garage attic	\$32	\$698	0.8	74.2 points 3+ Stars Increases: 19.9 pts. 3 steps	36,795
Install R-14 rigid board insulation. Location - Exposed Floor: House floor	\$73	\$1,596	1.8	76.0 points 3+ Stars Increases: 21.7 pts. 3 steps	35,092
Add R-21 blown cellulose insulation to attic with Standard Truss.	\$55	\$1,207	1.3	77.3 points 3+ Stars	33,795

Page 1 of 15

Energy Cost and Features Report

Property: Happy Homeowner
1234 Snow Filled Circle
Anchorage, Alaska

Rater: Rater A
Rater's R Us
4400 Boniface Parkway
Anchorage, AK 99504

House: Single Family
Living Floor Area: 1,264 square feet
No Attached Garage

Rating: BEES

Envelope Efficiency

Floor Insulation	R-11.4
Wall/Door Insulation	R-12.1
Ceiling Insulation	R-26.0
Window R-Value	6-8.35
Window to Wall Ratio, Living Space	10.1%
South Facing Window Area	42 square feet
Air Leakage	17.8 Air Changes per Hour at 50 Pascals 0.83 Air Changes per Hour Natural

Space Heating System

System Efficiency: 59%
Fuel Type: #2 Oil
Supplemental Fuel: Birch Wood
Thermostat Setting: 70.0 degrees F
Setback Thermostat: None

Water Heater

Efficiency: 55%
Location: #2 Oil
Conditioned Space: #2 Oil

Space Cooling System

Ventilation: None

Other

Number of Occupants: 5
Clothes Dryer Fuel: Electricity
Cooking Range Fuel: Electricity
Miscellaneous Lights/Appliance Use: Average

DOES NOT COMPLY WITH BUILDING ENERGY EFFICIENCY STANDARDS. Home does not meet Air Tightness Requirements.

Ver: 2.3.2.1, library: 9/24/2013, file: Happy Homeowner1.m2

Estimated Annual Energy Costs

Actual use and costs may vary from these estimates depending upon weather conditions, occupancy, the sizes and sizes, new currency in effect.

Space Heating	\$1,242
Water Heating	\$778
Space Cooling	\$1,801
Light & Appliance	\$237

Electricity: \$0.1436/kWh, #2 Oil: \$3.76/gallon, Birch Wood: \$230/tons
Space Heating: 492 kWh of Electricity, 71.8 gallons of #2 Oil, 3.48 tons of Birch Wood
Water Heating: 329 gallons of #2 Oil
Space Cooling: 21.7 kWh of Electricity
Light & Appliances: 6,650 kWh of Electricity

4300 Boniface Parkway | Anchorage, Alaska 99504 | P.O. Box 101020 | Anchorage, Alaska 99510
907-330-6100 (Anchorage) or (Toll-Free) 1-800-474-HAFIC (2424) | www.alaska-housing.com

Use the chat box or click the hand icon to ask a question.



Home Energy Rating Certificate

UNOFFICIAL

The Home Located At:
1234 Snow Filled Circle
Anchorage, Alaska

Has Been Energy-Rated As:
★ ★
Two Star

Overall Efficiency of Home:
56.2 points

BEES Compliance:
Fail

Amount of CO2 Produced by the Home:
30,902 pounds per year

Projected Annual Energy Costs:
\$5,770 per year

Breakdown of Heating Costs, \$ Per Year

Floor	\$353
Wall/Door	\$389
Window	\$14
Ceiling	\$237
Air/Vent	\$778
Htg System Loss	\$1,801
Hot Water	\$1,242

Client: Happy Homeowner Rater: Rater A, Raters R Us Date: 1/29/2014
Rater's City: Anchorage, AK 99504 Contact: 907-330-9187, Notsocold@winter.us, FAX 907-330-8197
ver. 2.3.2.1, library: 9/24/2013, file: Happy Homeowner.hm2, Rating Type: BEES

I certify that this Rating is true and correct, to the best of my knowledge and belief: _____
Rater Signature

4300 Boniface Parkway | Anchorage, Alaska 99504 | P.O. Box 101020 | Anchorage, Alaska 99510
907-338-8100 (Anchorage) or (Toll-Free) 1-800-478-AHFC (2432) | www.ahfc.us

Energy Rating Certificate

Shows star rating, points & energy costs of home.

Energy Cost and Features Report

Property: Happy Homeowner
1234 Snow Filled Circle
Anchorage, Alaska

Rater: Rater A
Raters R Us
4400 Boniface Parkway
Anchorage, AK 99504

House: Single Family
Living Floor Area: 1,264 square feet
No Attached Garage

Rating: BEES

Envelope Efficiency
Floor Insulation R-17.4
Wall/Door Insulation R-12.1
Ceiling Insulation R-26.0
Window R-Value R-4.35
Window to Wall Ratio, Living Space 10.1%
South Facing Window Area 42 square feet
Air Leakage 17.8 Air Changes per Hour at 50 Pascals
0.83 Air Changes per Hour Natural

Space Heating System
System Efficiency 59%
Fuel Type #2 Oil
Supplemental Fuel Birch Wood
Thermostat Setting 70.0 degrees F
Setback Thermostat None

Water Heater
Efficiency 55%
Location Conditioned Space
Fuel Type #2 Oil

Space Cooling System
Ventilation None

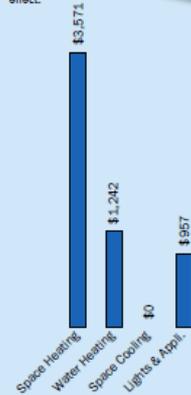
Other
Number of Occupants 5
Clothes Dryer Fuel Electricity
Cooking Range Fuel Electricity
Miscellaneous Lights/Appliance Use Average

DOES NOT COMPLY WITH BUILDING ENERGY EFFICIENCY STANDARD. Does not receive enough points (89.0 points required). Home does Not meet Air Tightness Requirements.

ver. 2.3.2.1, library: 9/24/2013, file: Happy Homeowner.hm2

Estimated Annual Energy Costs

Use and costs may vary from these estimates based upon weather conditions, occupant life styles and thermostat currently in effect.



Electricity: \$0.143¢/kWh, #2 Oil: \$3.76/gallons, Birch Wood: \$230/cords
Space Heating: 492 kWh of Electricity, 715 gallons of #2 Oil, 3.46 cords of Birch Wood
Water Heating: 328 gallons of #2 Oil
Space Cooling:
Lights & Appliances: 6,650 kWh of Electricity

Energy Cost & Features

Shows current energy features of home.

Poor insulation

Drafty

Inefficient



Energy Efficiency Improvement Options

Property: energy efficiency
110 full throttle
Anchorage, AK 99517

House: Multi-Family, One Unit
Living Floor Area: 1,500 sq.ft
2-Car Attached Garage

Initial Rating: Two Star, 54.3 points
Additional Rating Points needed to reach higher Rating Levels:

5.7 more points needed to reach 2+ Stars
13.7 more points needed to reach 3 Stars
18.7 more points needed to reach 3+ Stars
23.7 more points needed to reach 4 Stars
28.7 more points needed to reach 4+ Stars
33.7 more points needed to reach 5 Stars
37.7 more points needed to reach 5+ Stars

Rater: AHFC Rater
AHFC
Boniface
Anchorage

ID: read a rating

Fuel Prices used in this Analysis: Electricity = \$0.1242/kWh, Natural Gas = \$0.75/ccf

The following are possible energy-saving improvements for your home.

Notes: The Rating points you receive for each improvement depend upon the other measures you install. In the report below, the points indicated for each measure assume that you install all prior measures on the list. The Break-Even cost is the most you could pay for the improvement and still have it be cost-effective based on energy savings over the life of the measure.

Improvement Description / Location	Annual Savings ¹	Break Even Cost ²	Rating Points Gained ³	Rating, after all Improvements thru this one ⁴	Design Heat Loss, Btu/hr ⁵
Fill empty 2x12 cavity with R-38 blown-in dense-pack insulation . Location - Exposed Floor: garage floor	\$189	\$4,134	4.6	59.9 points 2 Stars Increase: 4.6 pts, 0 steps	52,572
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Install Lexan magnetic storm window on interior Location - Window/Skylight: 2nd floor skylights	\$29	\$456	0.7	63.4 points 2+ Stars Increase: 6.1 pts, 1 step	49,053
Caulk and Seal so that Home Air Leakage is Reduced by 1500 CFM at 50 Pascals.	\$422	\$3,781	10.2	73.6 points 3 Stars Increase: 10.3 pts, 2 steps	38,391
Add R-5 insulating blanket to garage door Location - Garage Door: garage overhead door	\$35	\$441	0.8	74.4 points 3+ Stars Increase: 10.1 pts, 3 steps	37,536
Add R-21 blown cellulose insulation to attic with Standard Truss. Location - Ceiling w/ Attic: garage attic	\$32	\$698	0.8	75.2 points 3+ Stars Increase: 10.9 pts, 3 steps	36,795
Install R-14 rigid board insulation Location - Exposed Floor: House floor	\$73	\$1,594	1.8	76.0 points 3+ Stars Increase: 11.7 pts, 3 steps	35,092
Add R-21 blown cellulose insulation to attic with Standard Truss.	\$55	\$1,201	1.3	77.3 points 3+ Stars	33,795

Energy Efficiency Improvement Options report

Shows the eligible improvements.

Look at:
“Rating Points Gained”

Also eligible:

- “Not cost-effective improvements” list.
- Ventilation fans/HRVs mentioned in “Notes”.

Energy Efficiency Improvement Options

Property: energy efficiency
110 full throttle
Anchorage, AK 99517

House: Multi-Family, One Unit
Living Floor Area: 1,500 sq.ft
2-Car Attached Garage

Rater: AHFC Rater

Initial Rating: Two Star, 54.3 points

Additional Rating: Each higher

Rating Levels:

5.7 more points needed

13.7 more points needed

18.7 more points needed

23.7 more points needed

28.7 more points needed

33.7 more points needed

37.7 more points needed

Fuel Prices used in this report:

Electricity = \$0.1247/kwh

Gas = \$0.75/ccf

The following are possible improvements:

Notes: The Rating points you receive will be based on the other measures you install. In the report below, the points indicate the number of points you will receive if you install all prior measures on the list. The Break-Even cost is the most you can pay for the improvement and still have it be cost-effective based on energy savings over the life of the improvement.

Improvement Description / Location	Cost	Payback	Rating Points Gained ^a	Rating, after all Improvements thru this one ^a	Design Heat Loss, Btu/hr ^a
Fill empty 2x12 cavity with R-38 blown-in dense-pack insulation . Location - Exposed Floor: garage floor			4.6	58.9 points 2 Stars Increase: 4.6 pts, 0 steps	52,572
Add R-19 fiberglass batts to masonry wall. Cost does not include studs or finish. Location - Below- (part or all) of crawl space				61.7 points 2+ Stars Increase: 4.6 pts, 1 step	49,760
Install Lexan magnetic storm door. Interior. Location - Window/Skylight: skylights	\$29	\$441		61.7 points 2+ Stars Increase: 4.6 pts, 1 step	49,053
Caulk and Seal storm door. Reduced by 1500 Btu/hr	\$422	\$3,787			38,391
Add R-5 insulation to garage door. Location - Garage Door: qaraqe overhead door	\$35	\$441	0.8	3+ Stars Increase: 19.1 pts, 3 steps	37,536
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Add R-21 blown cellulose insulation to attic with Standard Truss.	\$55	\$1,207	1.3	77.3 points 3+ Stars	33,795

- If you plan to install **less efficient products**, such as a lower-efficiency heating system or water heater, than recommended in the Energy Efficiency Improvement Options report, you may not get the needed points to get a rebate.
- You must contact your rater to re-run your Energy Efficiency Improvement Options report to determine the estimated points you will receive with the lower efficiency products you plan to install.

Products which MIGHT be recommended in a SPECIFIC energy rating

- Garage blankets & insulated garage doors
- Windows and doors
- Water heater blankets
- Air sealing products: caulk, spray foam, weatherstrip
- Insulation
- Heating systems
- Water heating systems
- Programmable thermostats
- Ventilation systems (exhaust fan, HRV)



IMPORTANT!

- AHFC does not “accept”, “endorse”, “recommend” or “approve” products or contractors.

- Installation techniques and products must follow manufacturer’s instruction and all applicable building codes and standards.

- Understand the “house as a system”

Use the chat box or click the hand icon



to ask a question.



Use the chat box or click the hand icon



to ask a question.

Understanding Energy Improvements

Use the chat box or click the hand icon

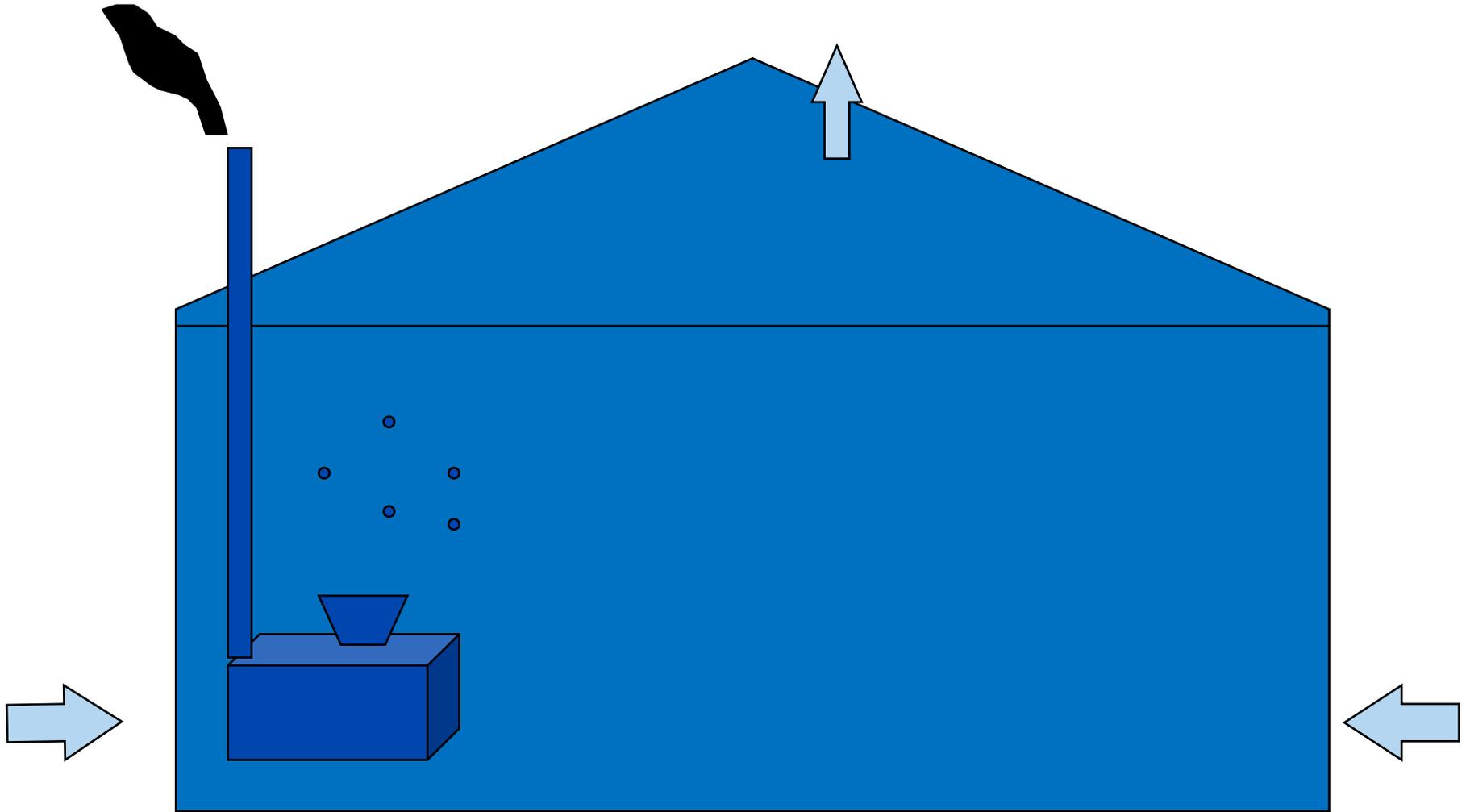


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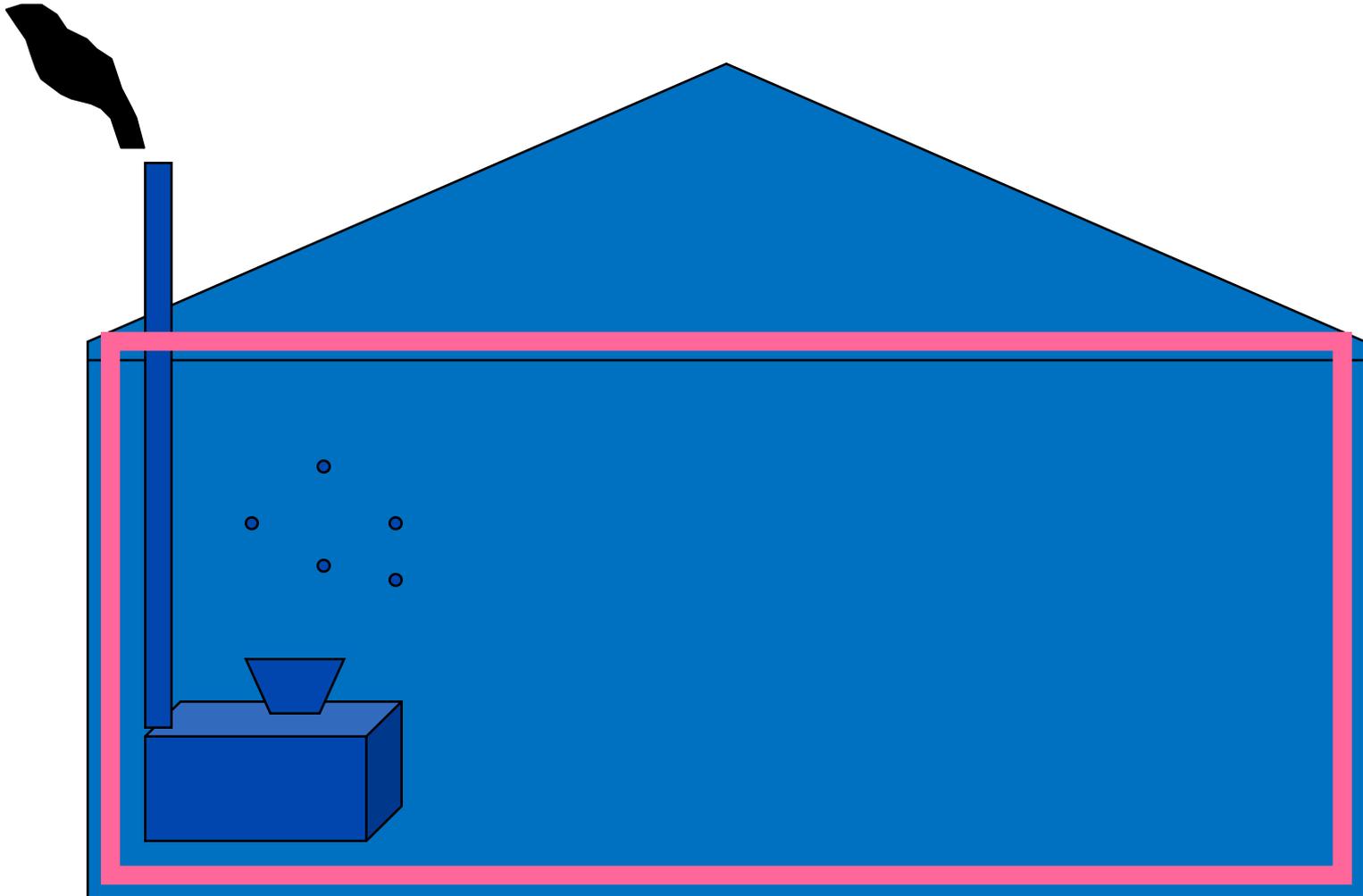
Building Science 101

The House is a System

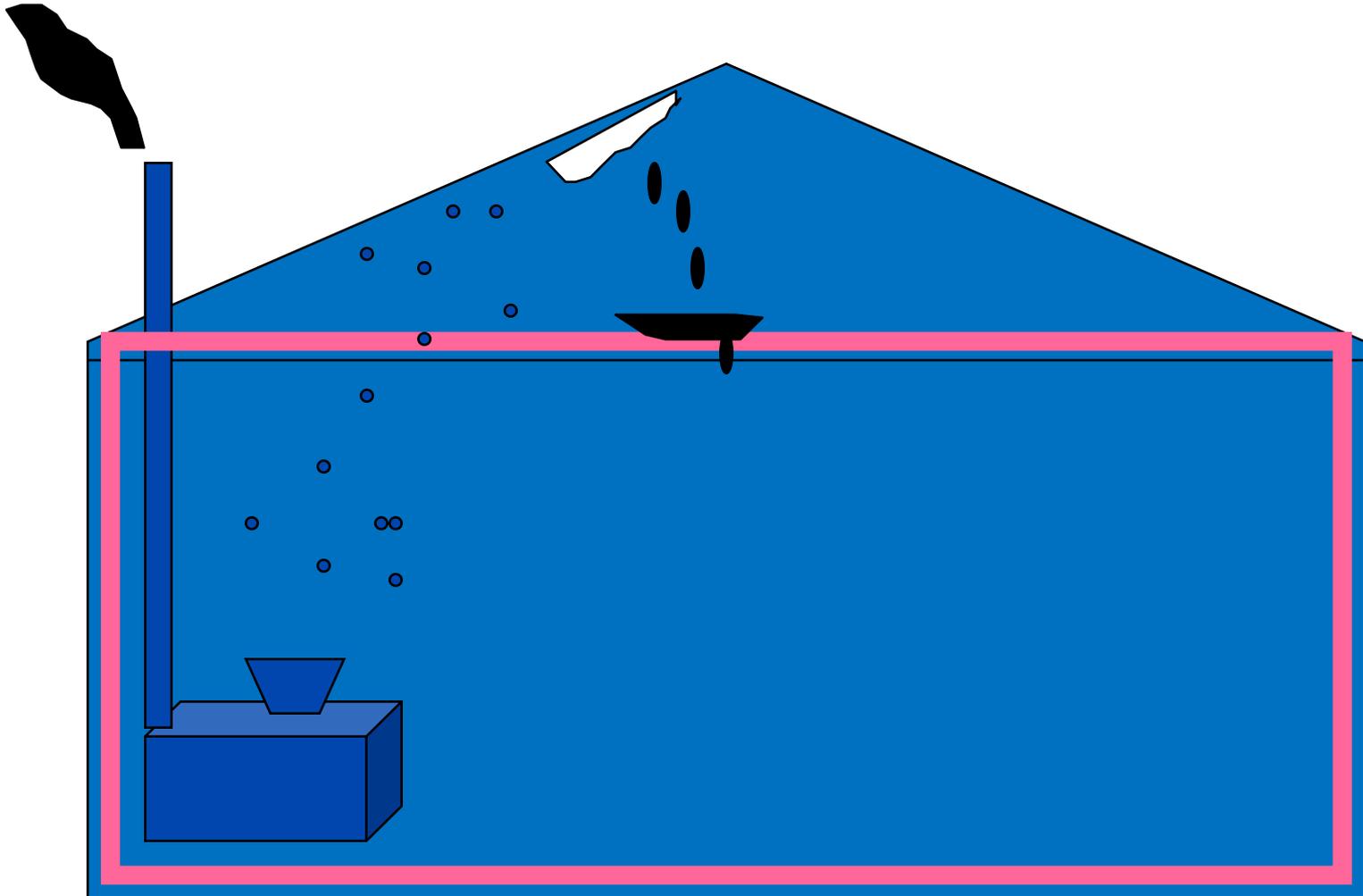
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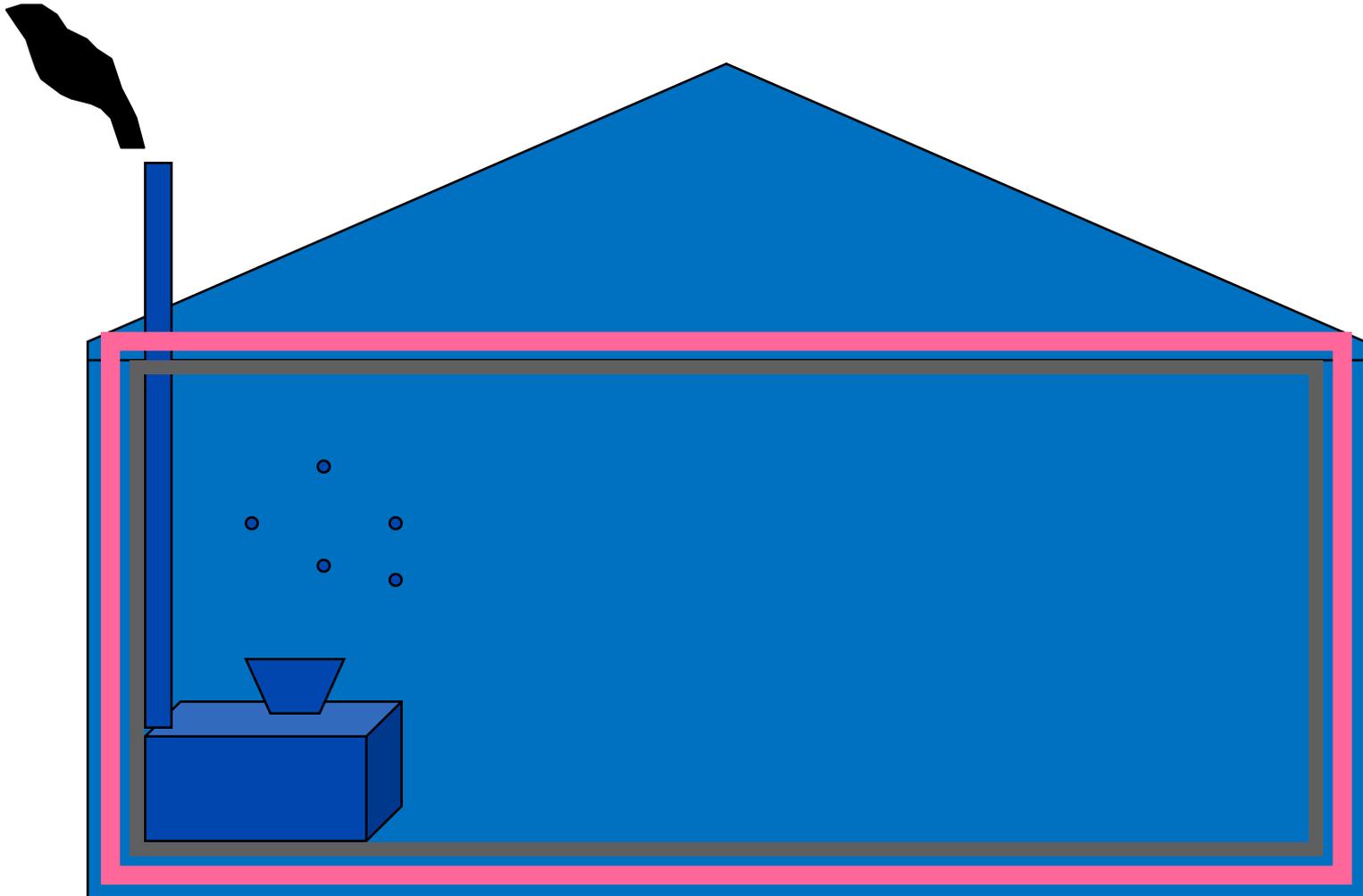
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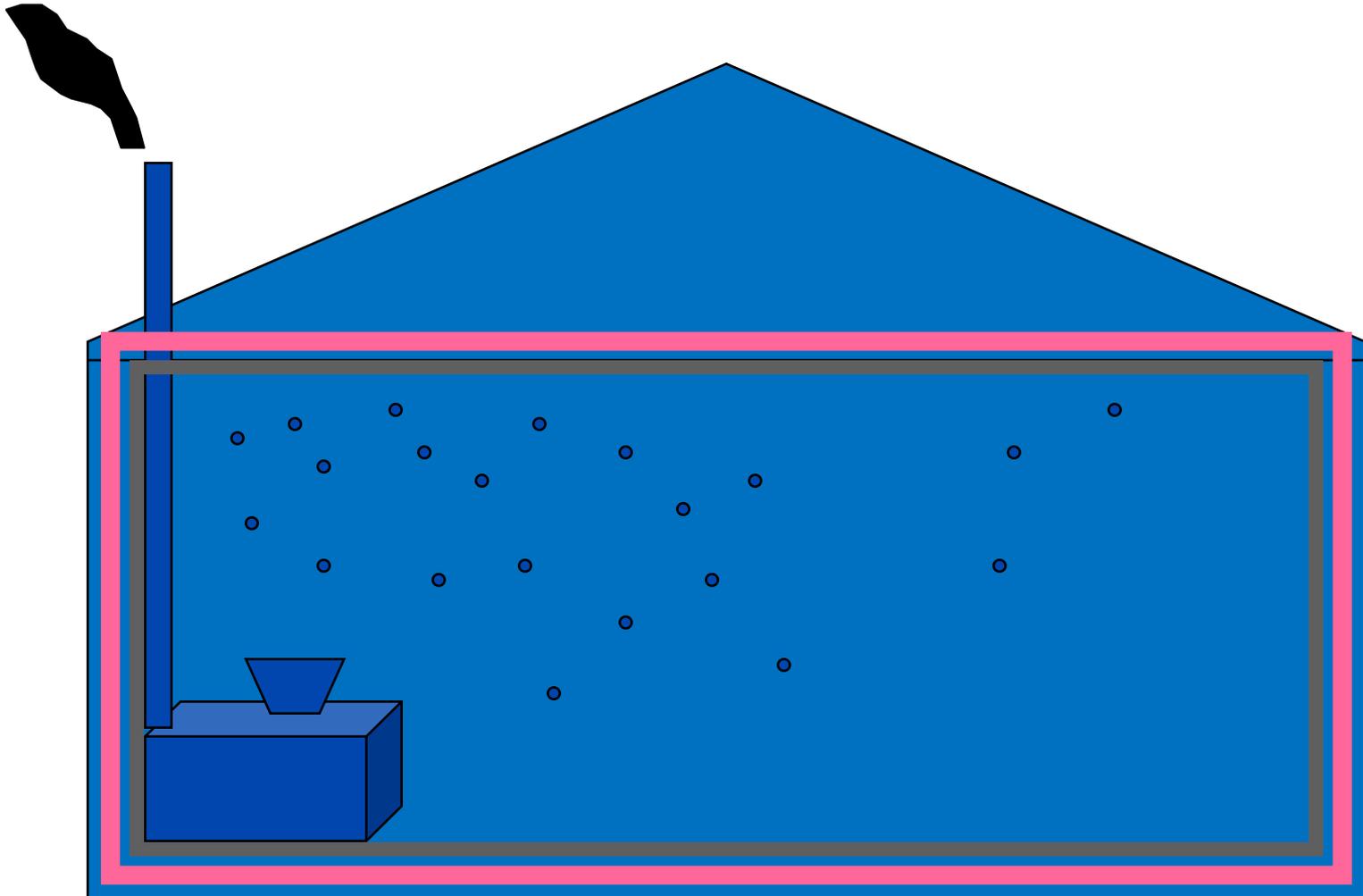
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Use the chat box or click the hand icon



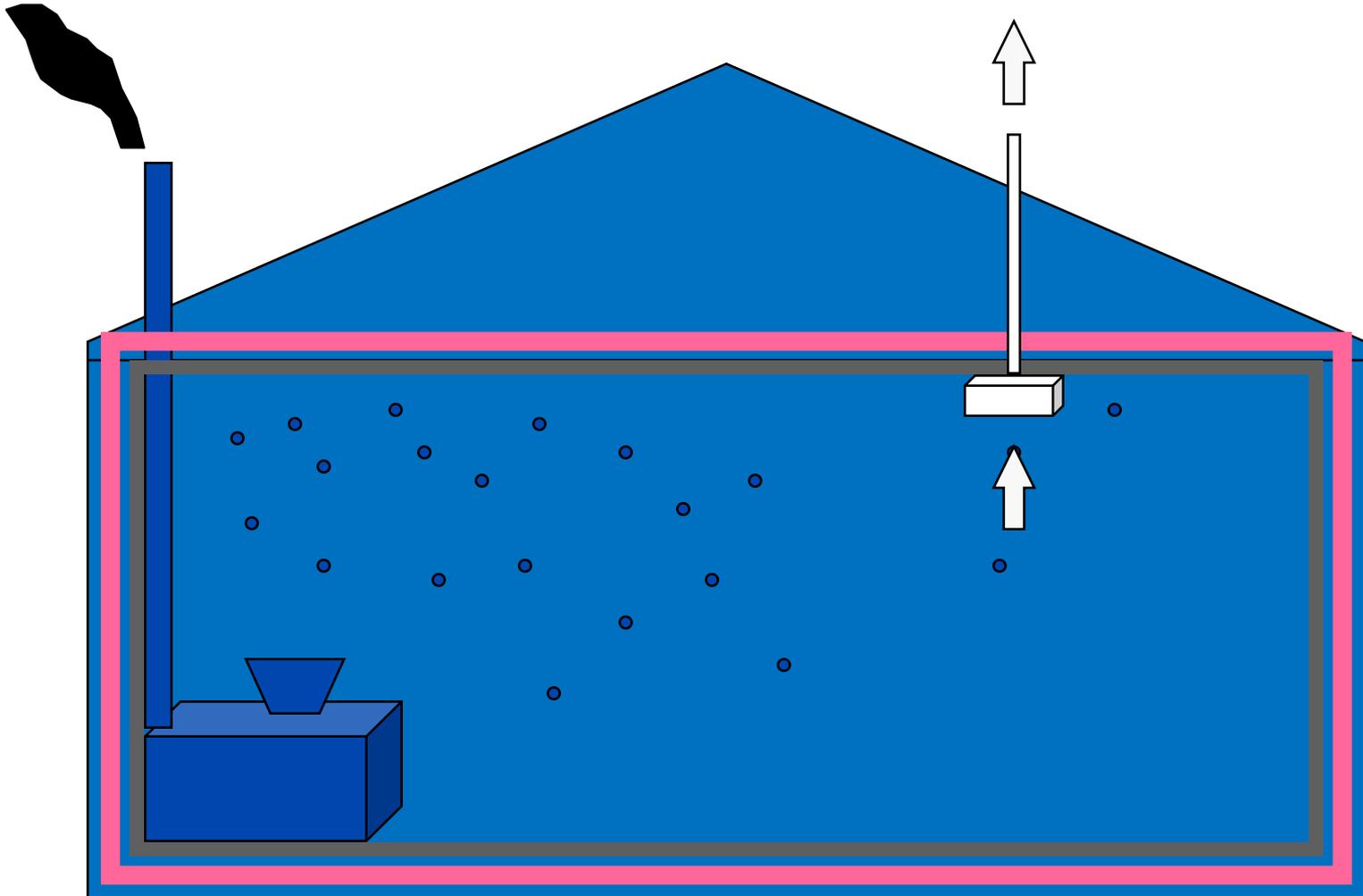
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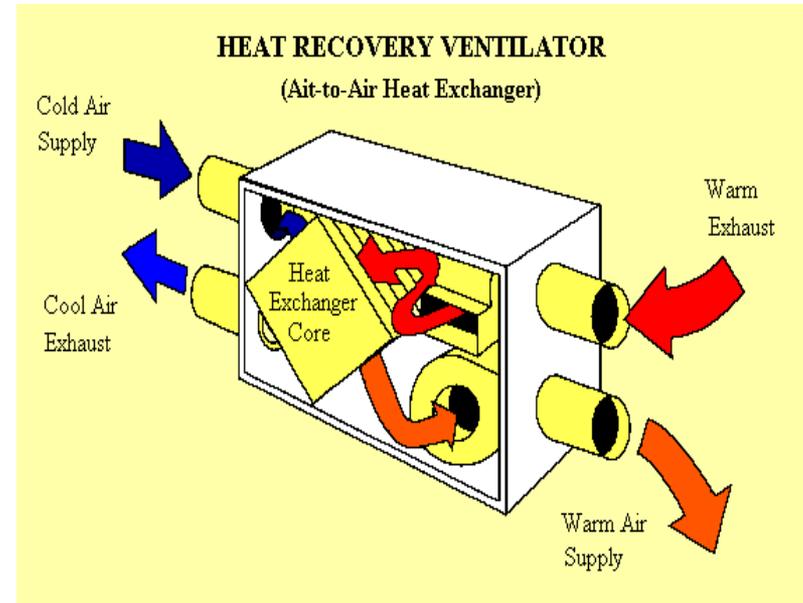
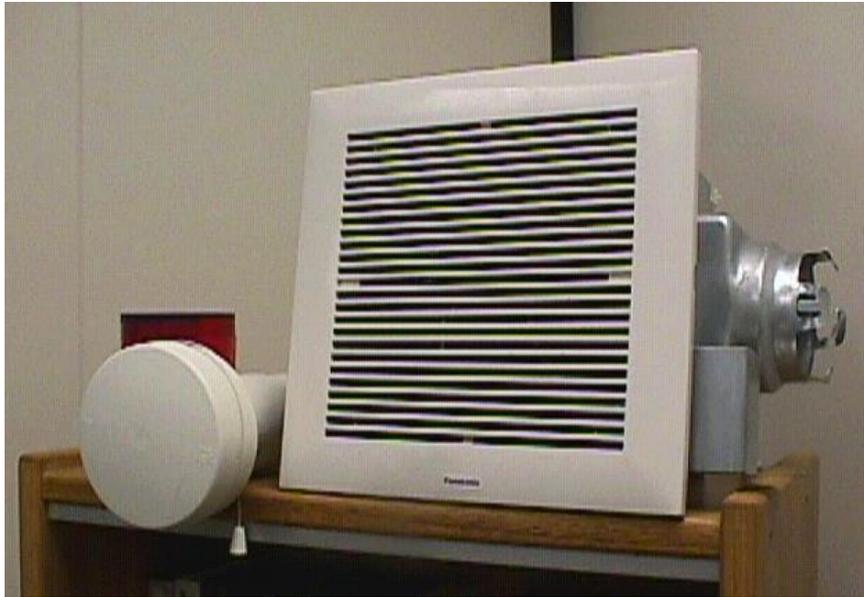
Use the chat box or click the hand icon  to ask a question.



Use the chat box or click the hand icon  to ask a question.

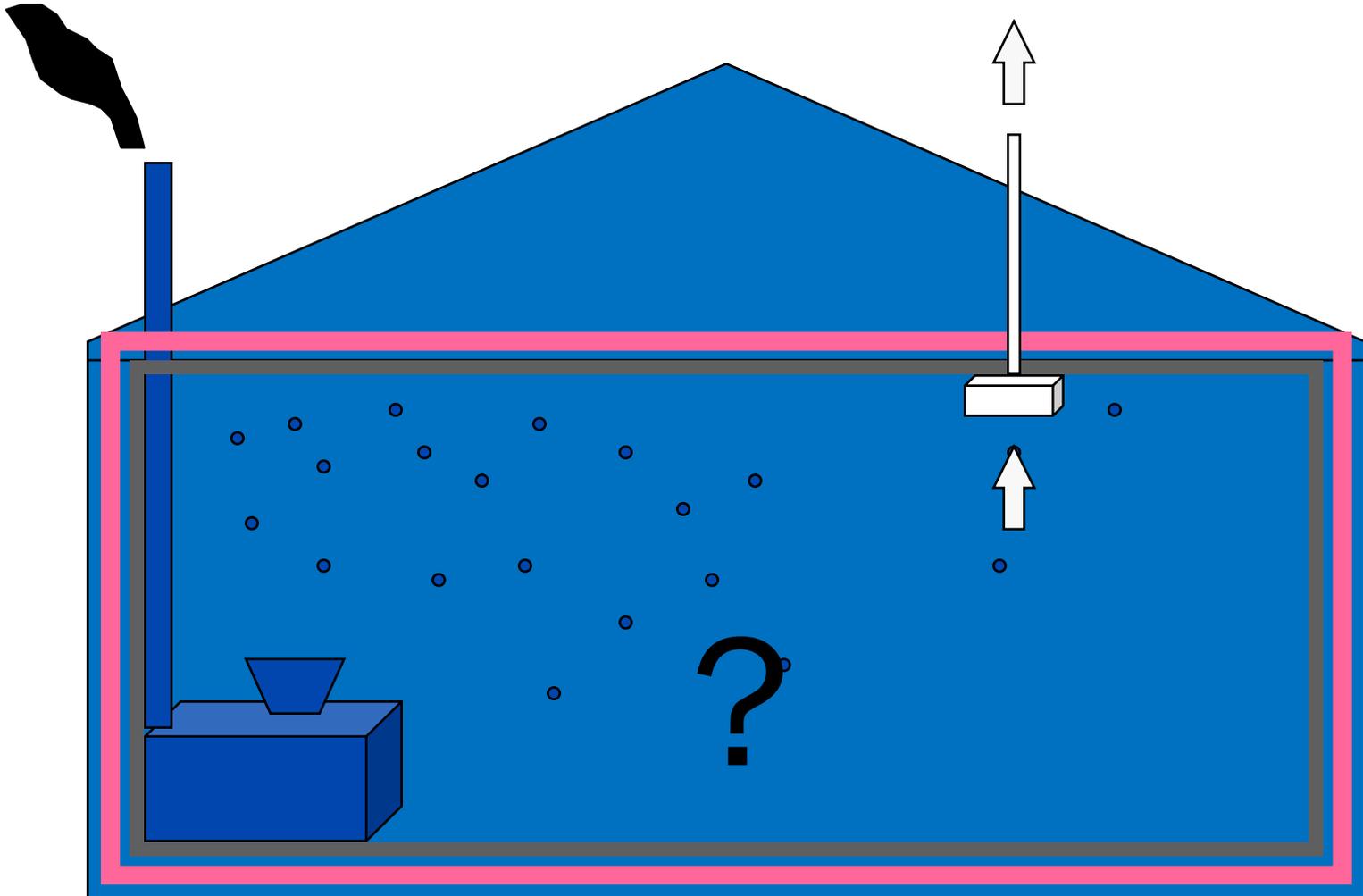


Ventilation System

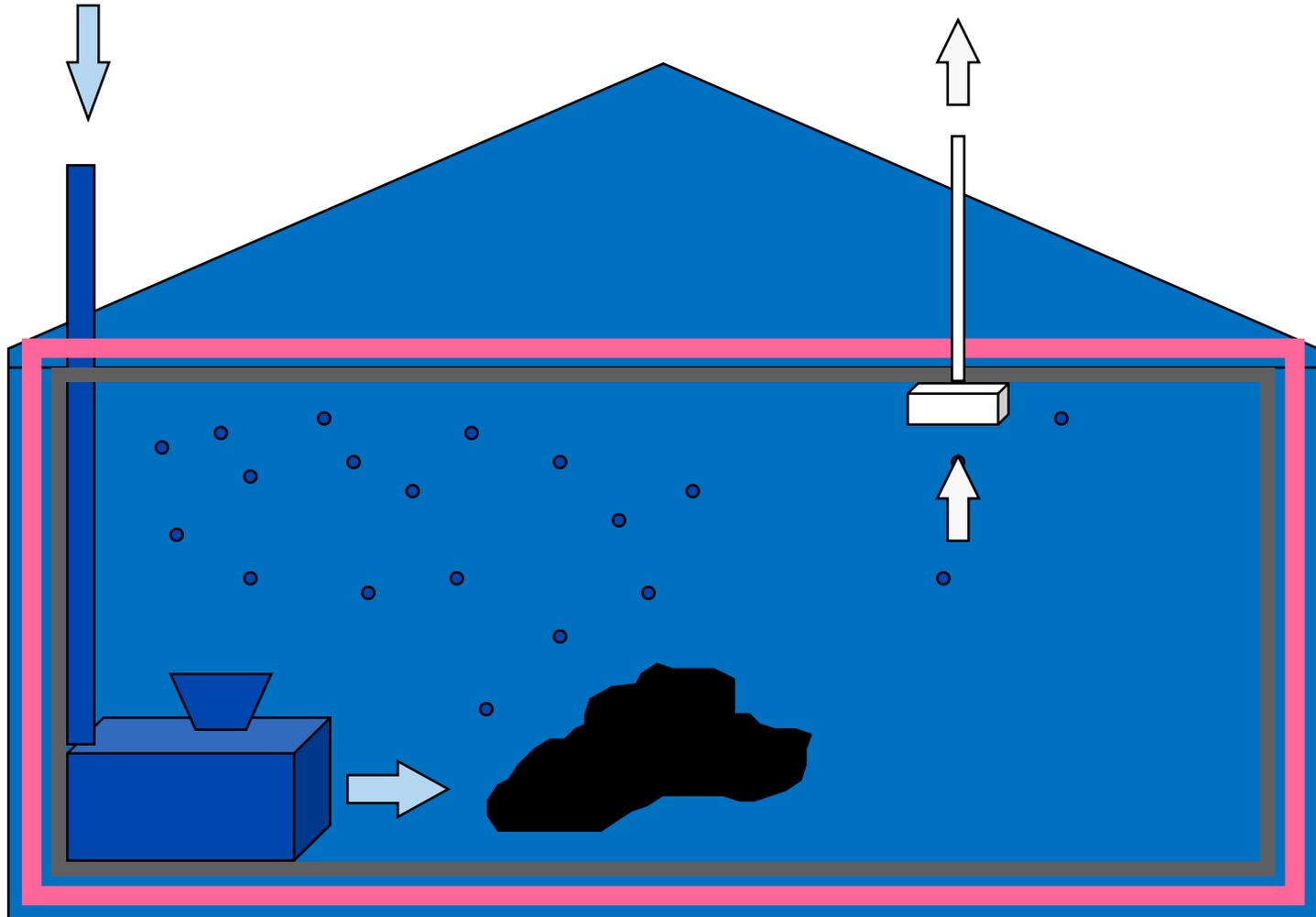


“Build tight, ventilate right”

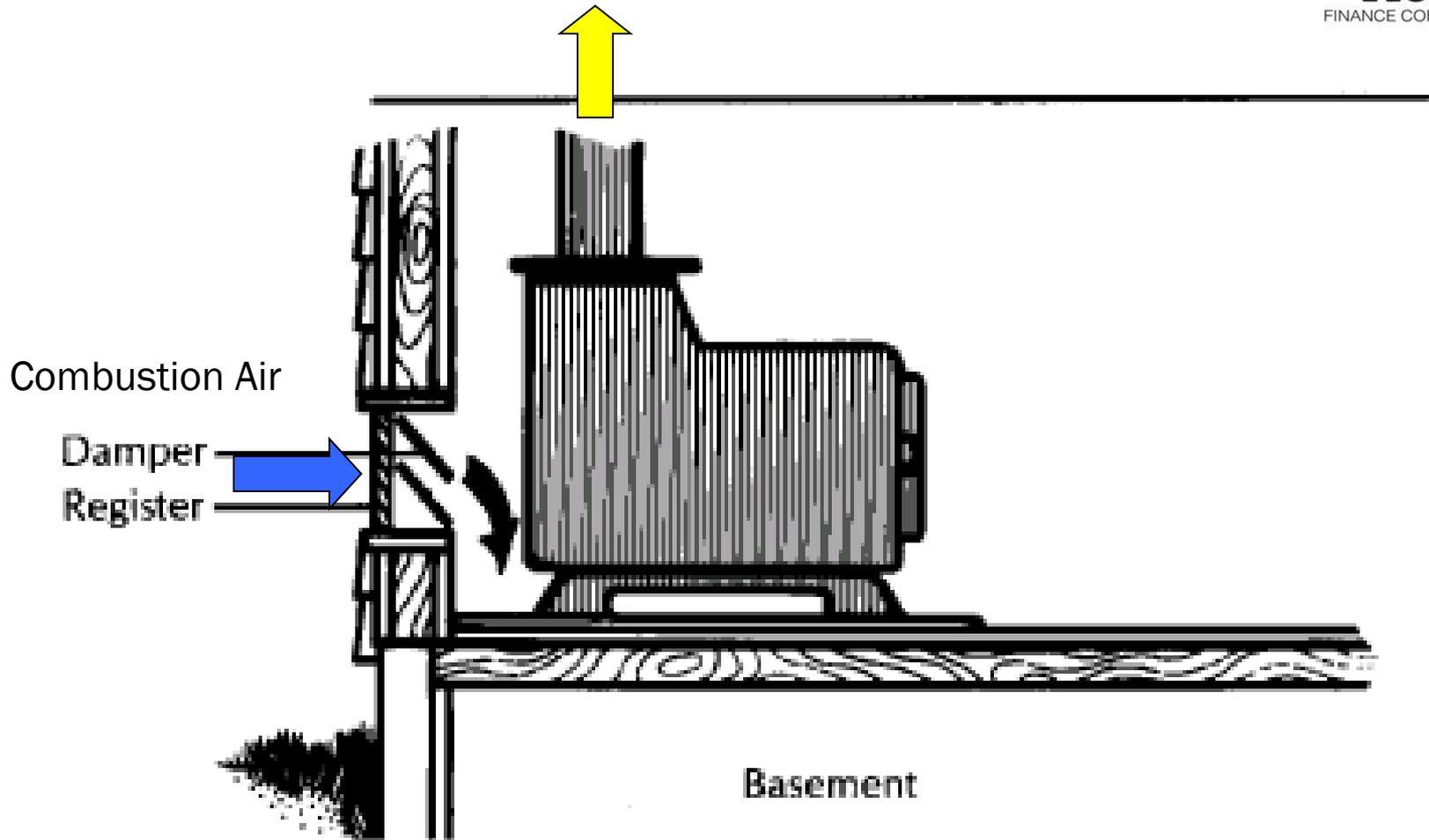
Use the chat box or click the hand icon  to ask a question.



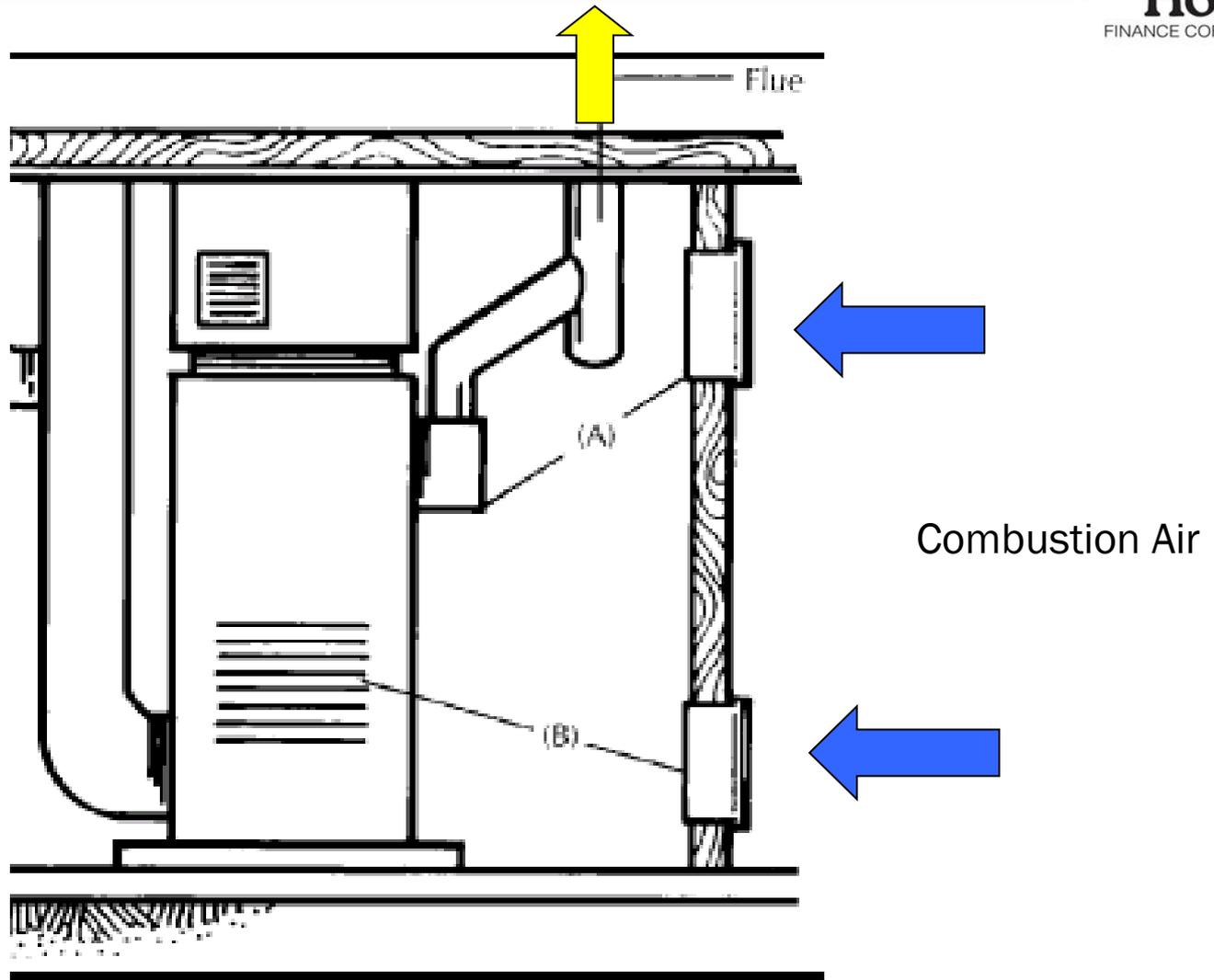
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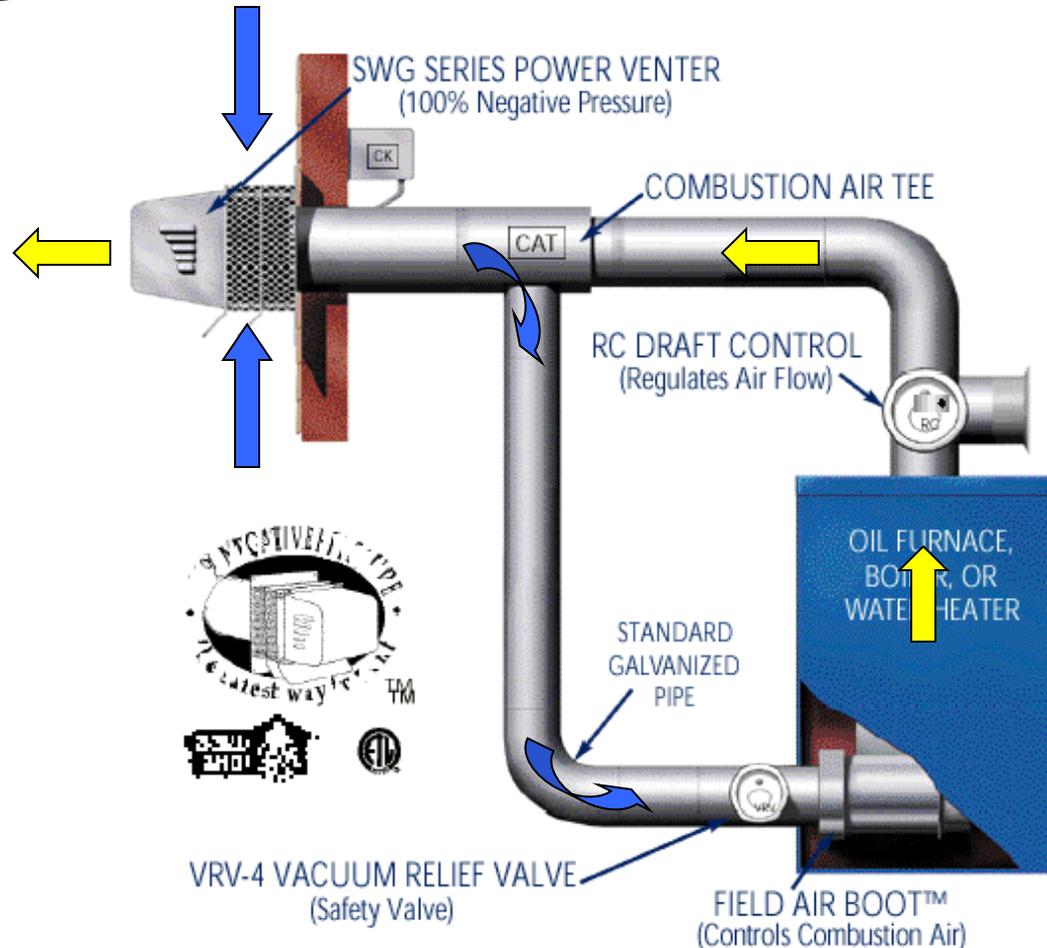
Use the chat box or click the hand icon  to ask a question.



Use the chat box or click the hand icon  to ask a question.



Direct Vent or Sealed Combustion Heating & Hot Water Heaters



Use the chat box or click the hand icon



to ask a question.

Rebate Program Tips

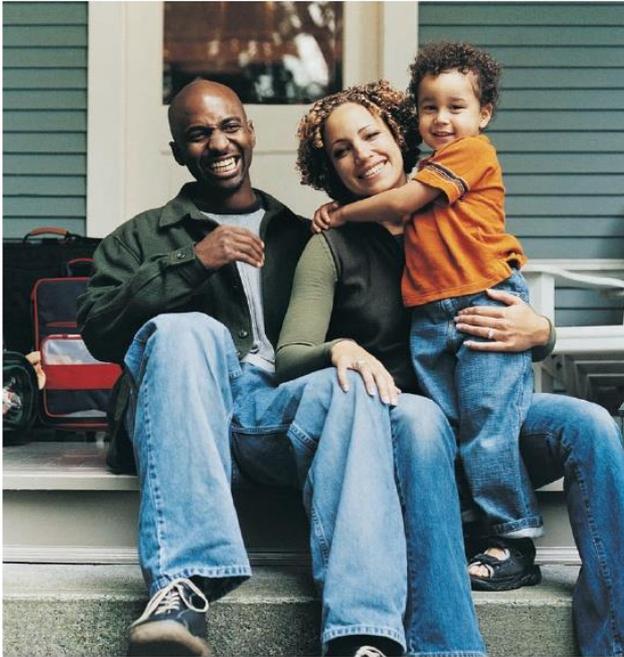
Be an informed consumer!

Use the chat box or click the hand icon



to ask a question.

Air Sealing & Insulating Information



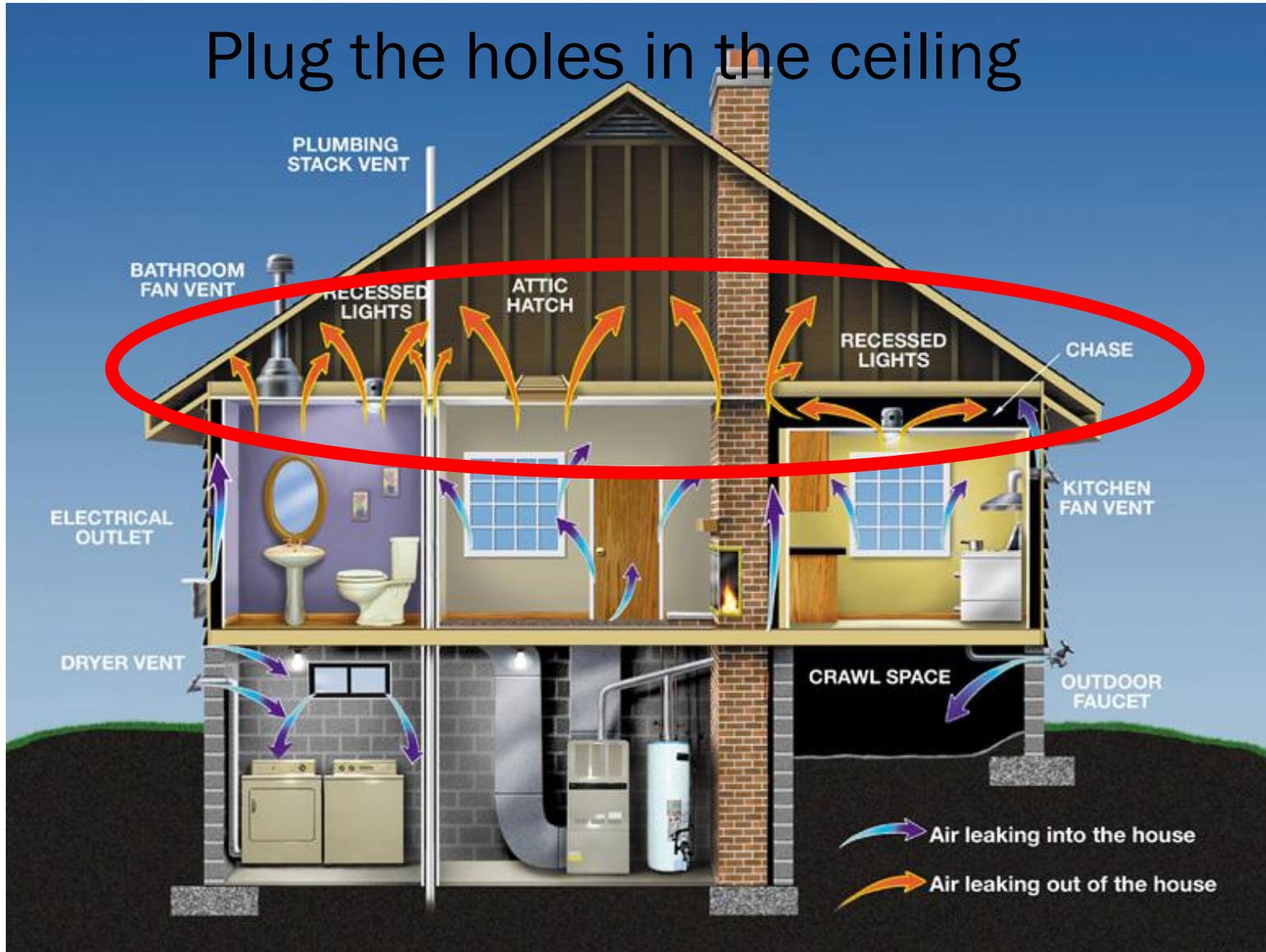
A DO-IT-YOURSELF GUIDE TO SEALING AND INSULATING WITH ENERGY STAR®
SEALING AIR LEAKS AND ADDING ATTIC INSULATION



More information at www.energystar.gov

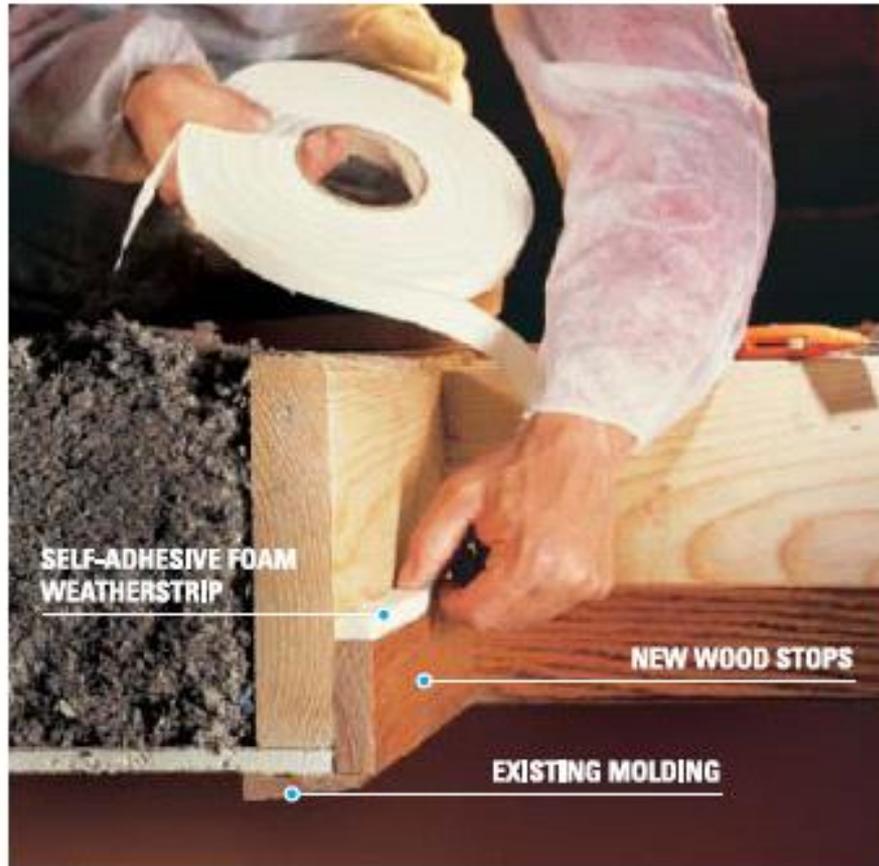
Some items may qualify for federal tax credits.

Plug the holes in the ceiling

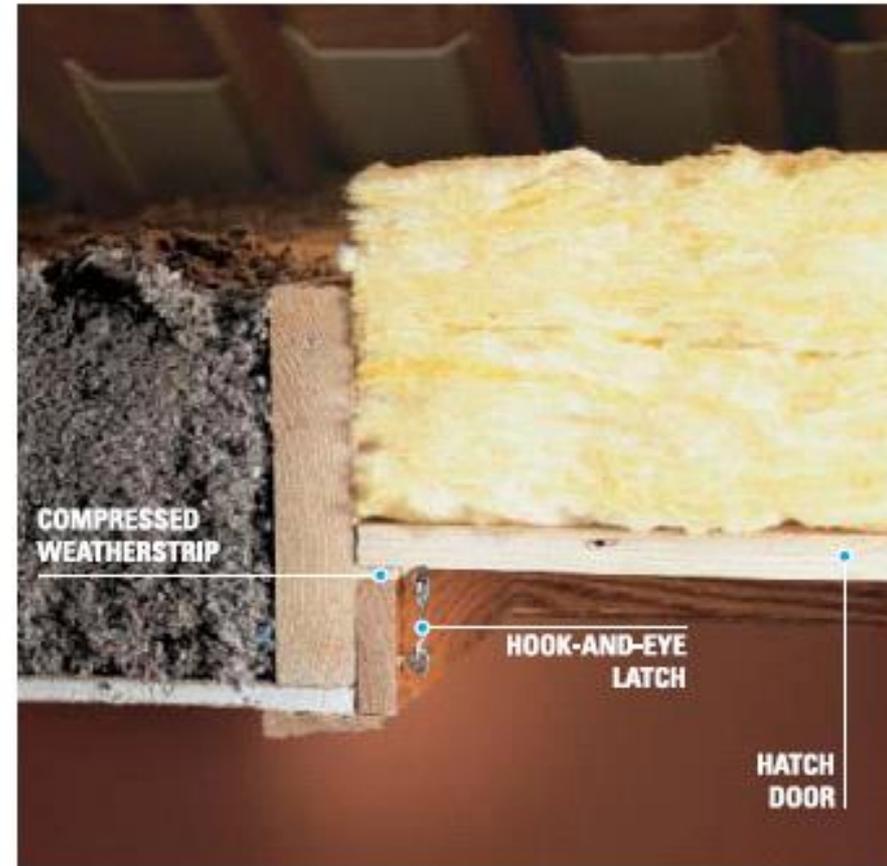


Use the chat box or click the hand icon  to ask a question.

11. WEATHERSTRIP THE DOOR

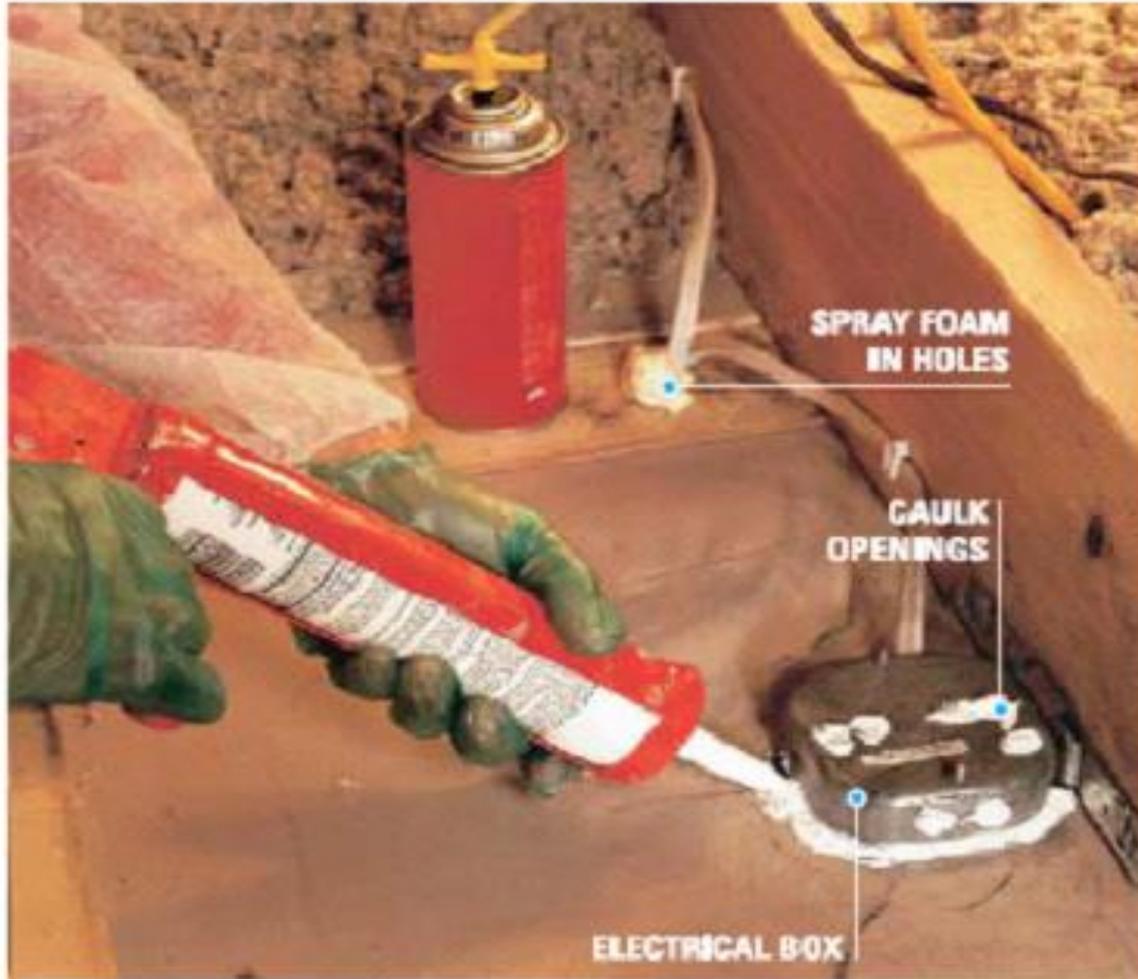


12. ATTACH FASTENERS

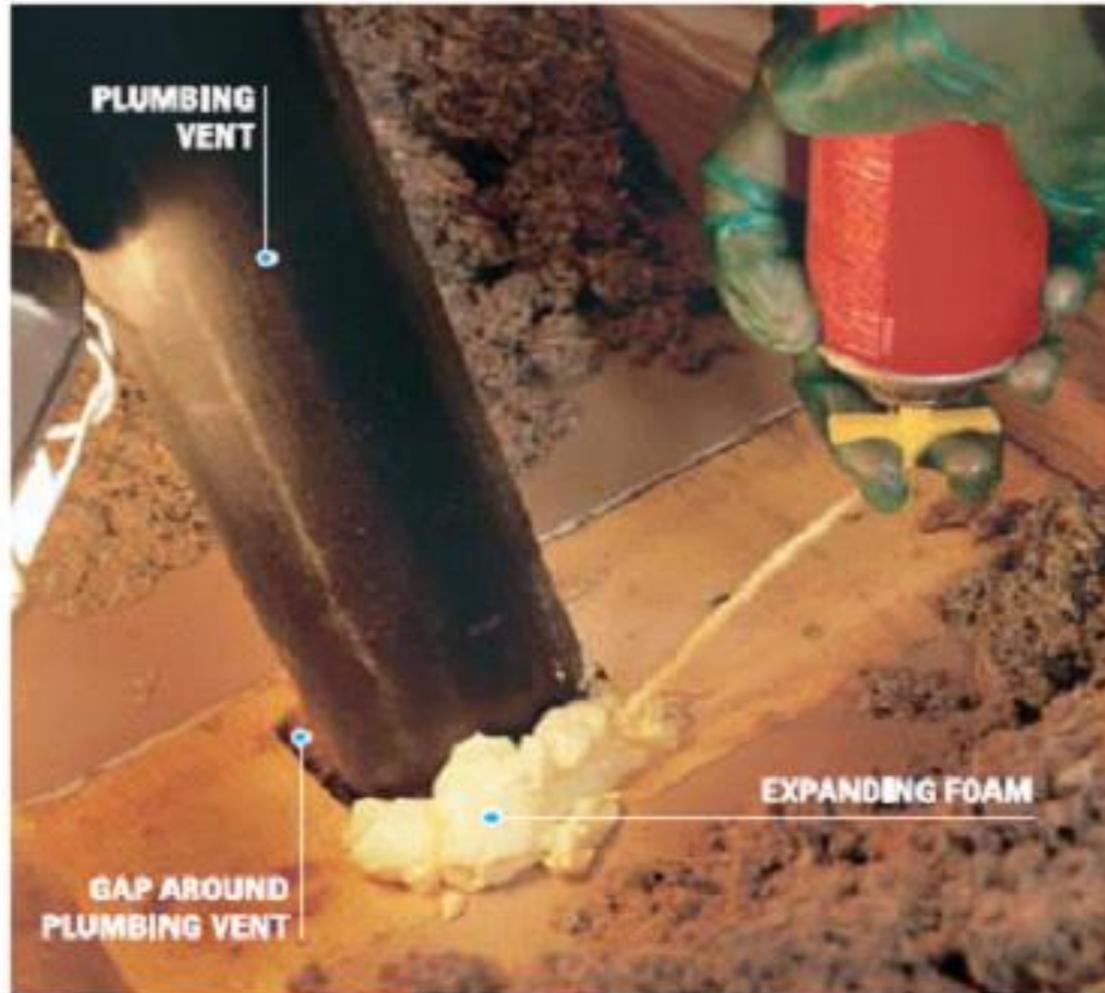


Use the chat box or click the hand icon  to ask a question.

9. FILL HOLES WITH CAULK



10. STUFF GAPS WITH INSULATION



5. CUT ALUMINUM FLASHING



And SEAL LOW!

Areas to Caulk or Foam

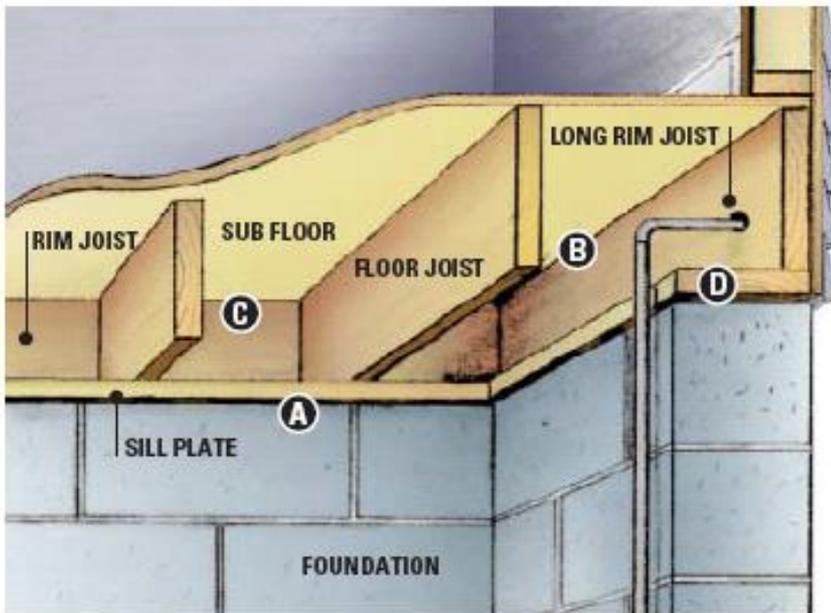
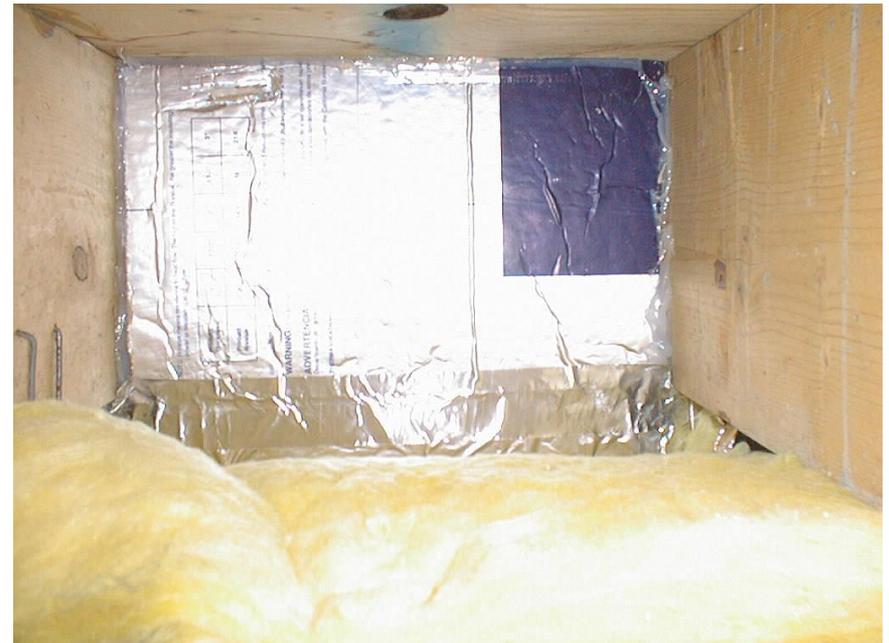


ILLUSTRATION BY DALE HOFFMEYER

Seal and Insulate





Air Sealing Tips

- Seal BEFORE insulate.
- Seal high and low
- Use special care around items which produce heat (like chimneys, recessed light fixtures).
- Add mechanical ventilation for good indoor air quality

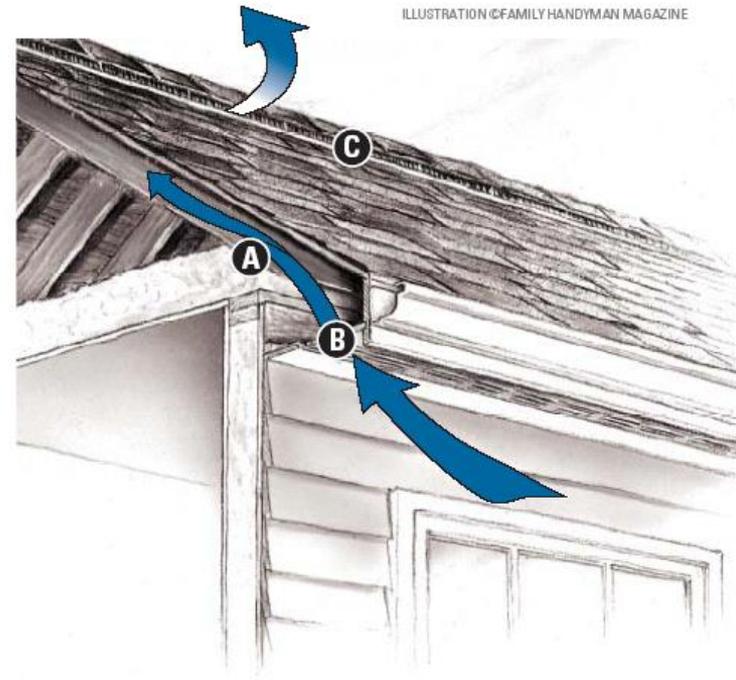


More information at www.energystar.gov



Insulating Tips

- Install properly*
- Count bags for blown-in type insulation (like cellulose),*
- Do not block roof ventilation*



More information at www.energystar.gov

Window & Door Information



NFRC

www.nfrc.org

 National Fenestration Rating Council® CERTIFIED	World's Best Window Co. Millennium 2000+ Vinyl-Clad Wood Frame Double Glazing • Argon Fill • Low E Product Type: Vertical Slider	
ENERGY PERFORMANCE RATINGS		
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient	
0.30	0.30	
ADDITIONAL PERFORMANCE RATINGS		
Visible Transmittance	Air Leakage (U.S./I-P)	
0.51	0.2	
Condensation Resistance		
51	—	
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org</small>		

$$U = 1/R$$

$$R = 1/U$$

Look for the label!

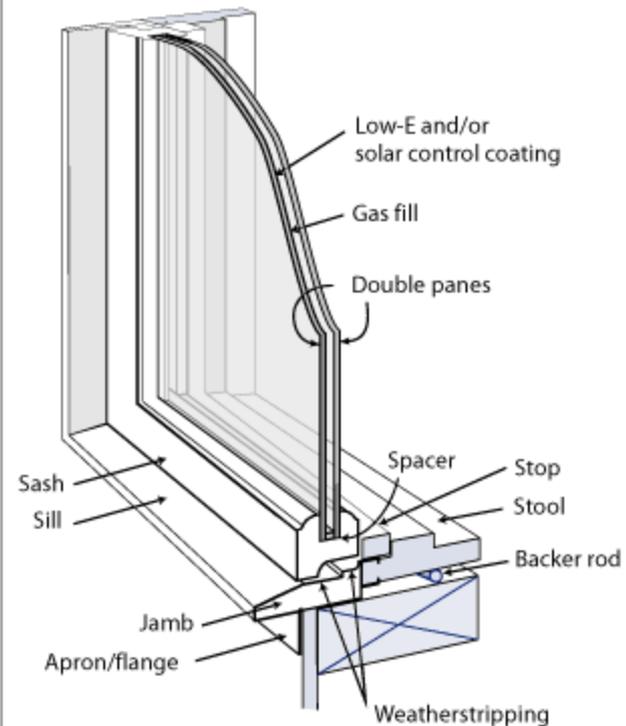
Window Replacement Tips

Keep NFRC window labels to show the rater.

		World's Best Window Co. Millennium 2000 ⁺ Vinyl Clad Wood Frame Double Glazing • Argon Fill • Low E Product Type: Vertical Slider	
ENERGY PERFORMANCE RATINGS			
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient		
0.35	0.32		
ADDITIONAL PERFORMANCE RATINGS			
Visible Transmittance	Air Leakage (U.S./I-P)		
0.51	0.2		
Condensation Resistance	—		
51			
<small>Manufacturer declares that these ratings conform to applicable NFRC procedures for determining window product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. Consult manufacturer's literature for other product performance information. www.nfrc.org</small>			

Window Technologies

Energy-efficient window technologies are available to produce windows with the U-factor, SHGC, and VT properties needed for any application.





Water Heater & Heating System Information



A Guide to Energy-Efficient
Heating and Cooling



Be an informed buyer:

- Tankless / demand water heaters*
- High efficiency heating systems*
- Proper sizing of systems*

More information at www.energystar.gov



Water Heater Replacement Tips

- Sealed combustion and direct vent systems are safer.*
- Get at least 3 bids for work. Costs may vary considerably*

RESEARCH NOTE: *Tankless water heaters work in Alaska when properly sized.*

Water Heater Technology	Average Annual Savings*
High-Efficiency Gas Storage	\$30
Gas Condensing	\$110
Whole-Home Gas Tankless	\$115
Solar	\$220
Heat Pump	\$290

* Savings for average household of 2.6 people.

Five types of water heaters can now earn the ENERGY STAR.
[Find the one that's right for you](#)

More information at www.energystar.gov

Heating & Hot Water Efficiency Info
www.ahrinet.org

Heating System Replacement Tips

- ACCA Manual J or AkWarm software will properly size a replacement heating system.*
- Sealed combustion and direct vent heating systems are safer*
- Get at least 3 bids for work. Costs may vary by thousands of dollars.*

RESEARCH NOTE: Heating systems in Alaska are oversized 120%!

Table 1. Annual Estimated Savings for Every \$100 of Fuel Costs by Increasing Your Heating Equipment Efficiency*

Existing System AFUE	New/Upgraded System AFUE								
	55%	60%	65%	70%	75%	80%	85%	90%	95%
50%	\$9.09	\$16.76	\$23.07	\$28.57	\$33.33	\$37.50	\$41.24	\$44.24	\$47.36
55%	----	\$8.33	\$15.38	\$21.42	\$26.66	\$31.20	\$35.29	\$38.88	\$42.10
60%	----	----	\$7.69	\$14.28	\$20.00	\$25.00	\$29.41	\$33.33	\$37.80
65%	----	----	----	\$7.14	\$13.33	\$18.75	\$23.52	\$27.77	\$31.57
70%	----	----	----	----	\$6.66	\$12.50	\$17.64	\$22.22	\$26.32
75%	----	----	----	----	----	\$6.50	\$11.76	\$16.66	\$21.10
80%	----	----	----	----	----	----	\$5.88	\$11.11	\$15.80
85%	----	----	----	----	----	----	----	\$5.55	\$10.50
90%	----	----	----	----	----	----	----	----	\$5.30

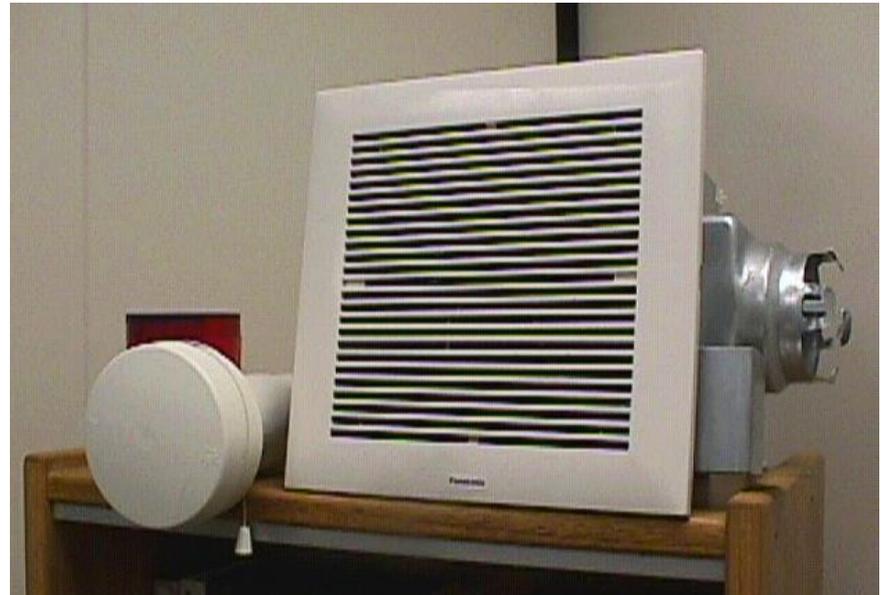
*Assuming the same heat output

Heating & Hot Water Efficiency Info
www.ahrinet.org

Only high efficiency heating systems qualify for federal tax credits!
Check at: www.energystar.gov

Ventilation Tips

- Quiet = 1 sone or less*
- Continuous duty rated*
- Proper sizing*
- Energy Star*



More information at www.energystar.gov & www.ahfc.us

Whole Building Ventilation Sizing in CFM (cubic feet per minute)

Number of Bedrooms	0-1	2-3	4-5	6-7	>7
<1500 ft²	35	55	75	95	115
1501-3000	50	70	90	110	125
3001-4500	65	85	105	125	145
4501-6000	80	100	120	140	160
6001-7500	95	115	135	155	175
>7500 ft²	110	130	150	170	190

Use the chat box or click the hand icon



to ask a question.

Additional Information



Department of the Treasury
Internal Revenue Service

- AHFC will report the rebate to the IRS and issue a Form 1099-G to you.

- Consult a tax professional.

*Some items may qualify for federal tax credits.
Check at: <http://www.energytaxincentives.org>*



Funding



Rebate funds are subject to appropriation by the Alaska Legislature and are subject to funding availability.



More Information

AHFC Energy Programs:

*For complete details on the **Home Energy Rebate Program**, the **5 Star Plus New Home Energy Rebate Program**, the **Weatherization Program**, the **Second Mortgage for Energy Conservation Loan** and other programs go to: www.ahfc.us or call AHFC at 1-800-478-2432 or 1-907-338-6100.*

Energy Efficiency Improvement Factsheets & Information

AHFC Research Information Center (RIC Library) www.ahfc.us/energy/ric.cfm

Energy Efficiency RE, U.S. Department of Energy www.eere.energy.gov/consumer

Energy Star www.energystar.gov

Federal Tax Credits for Energy Improvements:

For information on tax credits for caulking, insulation, windows, doors, water heaters and heating systems go to: www.energytaxincentives.org or www.energystar.gov.

Use the chat box or click the hand icon



to ask a question.



Thank You For Joining Us Today!

1-907-330-8193 or 1-800-478-4636

www.ahfc.us

