



Oelwein Public Library  
201 East Charles Street ~ Oelwein, Iowa 50662-1939  
319.283.1515 (v) ~ 319.283.6646 (f)

June 21, 2023

To: Mayor, City Council, and City Administrator  
From: Susan Macken, Library Director

Project: Library HVAC

The following contractors were invited to look at the current HVAC system, give recommendations for resolving the HVAC issues, and submit an estimate for replacing the HVAC system:

Ken's Electric - Oelwein  
Young Plumbing and Heating - Waterloo  
Plumb Tech - Waterloo  
Mick Gage Plumbing and Heating – New Hampton  
Johnson Plumbing, Heating, and Cooling - Oelwein  
Fitzpatrick Water and Plumbing - Hazleton  
Casper Plumbing and Heating - Decorah  
Bergen Plumbing and Heating - Waterloo  
NEIA Mechanical - Elgin  
Marv Smith Electric, Plumbing, and Heating – Fort Atkinson

The following contractors submitted estimates for replacing five (5) heat pumps:

NEIA Mechanical -	\$192,580.94
Upgrade to 5 year Parts Warranty -	\$ 8,607.12
Total with upgrade -	\$201,188.06
Warranty: 18 months parts	

Plumb Tech -	\$231,229.00
Warranty: 1 year parts	
5 year refrigeration circuit parts	

Ken's Electric -	\$231,855.00
Warranty: 1 year parts	
3 years labor	

The following measures were taken to try and reduce the cost of replacing the HVAC system:

- Submitted an Equipment Breakdown Endorsement claim to EMC Insurance. This claim was denied.
- Researched the federal Inflation Reduction Act Geothermal Heat Pumps Tax Credit. This is for homeowners.
- Researched the Tax Deductions for Commercial Buildings. This is a tax deduction for systems demonstrating a 50% reduction in energy usage using a software program to calculate energy usage.
- Researched geothermal incentives on the Iowa Geothermal Association website. This circled back to the Geothermal Tax Credit for homeowners.
- Researched Alliant Energy Rebates. These are for new residential geothermal systems.

All the contractors stated that it is possible, but not recommended, to repair the HVAC system. The system is 17 years old and uses the R22 refrigerant that is no longer produced. R22 can only be acquired by harvesting it from decommissioned systems. Attached is a list of repairs from 2009-2022.

The Library Board of Trustees reviewed the following documents: estimates submitted, incentives sought, insurance company report, and repair history. The Board of Trustees recommend for the City Council's consideration replacing the five (5) HVAC units using NEIA Mechanical as the contractor with an estimate of \$192,580.94. This does not include the upgraded warranty option.

Respectfully submitted,  
Susan Macken  
Library Director



**PROPOSAL**

NEIA Mechanical  
19034 Fleet Rd  
ELGIN, IA 52141

PHONE- (563) 426-5144 FAX- (563)426-5145 CELL-(563)380-0381

SUBMITTED TO: Oelwein Library  
ADDRESS: 201 E Charles St  
Oelwein, IA  
PHONE #: 319-283-1515

JOB NAME:  
JOB #:  
DATE:  
EMAIL:

5/12/2023

WE HEREBY SUBMIT SPECIFICATONS AND ESTIMATES FOR:

<b>GEOTHERMAL REPLACEMENT / INSTALLATION</b>	<b>\$192,580.94</b>
Includes installation of new Waterfurance Water to Air Geothermal Units	
Includes all associated ductwork and electrical	
Warranty - 18 Months Parts Warranty	
Option - Upgrade to 5 Year Parts Warranty on all units \$	8,607.12
<b>TOTAL</b>	<b>\$201,188.06</b>

ALL MATERIAL IS GUARANTEED TO BE AS SPECIFIED, ALL WORK TO BE COMPLETED IN A WORKMANLIKE MANNER ACCORDING TO ALL STANDARD PRACTICES. ANY ALTERATION OR DEVIATION FROM ABOVE SPECIFICATIONS INVOLVING EXTRA COSTS WILL BE EXECUTED ONLY UPON WRITTEN ORDERS, AND WILL BECOME AN EXTRA CHARGE OVER AND ABOVE THE ESTIMATE.

NEIA MECHANICAL  
AUTHORIZED  
SIGNATURE:

*Doug A. Roche*

NOTE: THIS PROPOSAL MAY BE WITHDRAWN IF NOT ACCEPTED WITHIN 30 DAYS.

**ACCEPTANCE OF PROPOSAL** THE ABOVE PRICES, SPECIFICATIONS AND CONDITIONS ARE SATISFACTORY AND HEREBY ACCEPTED. YOU ARE AUTHORIZED TO DO THE WORK AS SPECIFIED. PAYMENT WILL BE MADE AS OUTLINED ABOVE. A 1 1/2% SERVICE CHARGE WILL BE ADDED TO ANY UNPAID BALANCE AFTER 30 DAYS. SHOULD LEGAL ACTION BE REQUIRED, I HEREBY AGREE TO PAY ANY LEGAL FEES REQUIRED FOR COLLECTION OF AMOUNT OWED.

SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_  
SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_

Updated 5/12/23

# **Plumb Tech Inc.**

**3261 W. Airline Hwy.**

**Waterloo, IA 50703**

**Phone: 319-233-5616**

**Fax: 319-233-5737**

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Date: 3/23/23

To: Oelwein Public Library

Attn: Susan

Re: Heat Pump Replacement

We propose to furnish the materials and labor to replace the three existing heat pumps at the Oelwein Public Library. We are proposing to replace the two big heat pumps that feed the common space and the conference room heat pump. We have based the price on removing and disposal of the existing units, installing and re-hooking up the new units, running new condensate, installing new ductwork, and reconnecting the stand-alone controls. We have also included in the quote a \$ 15,000.00 allowance for the electrical disconnect and reconnect and also the general construction work needed to install the new heat pumps.

Quote: \$ 191,824.00

If you wish to change out the other two Heat Pumps in the mechanical room at the same time as the others there will be an add to the quote above.

Add: \$ 39,405.00

warranty: 1 year parts  
5 year refrigeration circuit parts

All changed - 231,229

updated 5/31/23

**Plumb Tech Inc.**  
**Brett Behrends**



Ken's Electric, Inc.  
 841 1st Ave SE, Oelwein, Iowa 50662 United States  
 (319) 283-4221

Updated 5/10/23  
 Total to replace all units - \$231,855

**BILL TO**  
 Oelwein Public Library  
 201 East Charles Street  
 Oelwein, IA 50662 USA

<b>ESTIMATE</b> 28548585	<b>ESTIMATE DATE</b> Jan 27, 2023
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**JOB ADDRESS**  
 Oelwein Public Library  
 201 East Charles Street  
 Oelwein, IA 50662 USA

**Job:** 28243198

**ESTIMATE DETAILS**

HVAC-Heat Pump 1 & 2 Replacement: Included in this option will be the replacement of the current heat pump 1 and 2. We will install (2) new GeoComfort geothermal units to replace the current Florida Heat Pump units. The return air ducting will need to be redone to prevent pre mature failure of the new units. We will re due the return air connection from the main trunk line down to each unit. They will be isolated from each other with an air damper installed in each unit return air drop. The same will go for the supply air side of each unit. The dampers will open upon unit demand. All loop connections will be made back to each unit. All material and labor have been included to install the above.

Warranty:  
 1 year parts  
 3 year labor

TASK	DESCRIPTION	QTY	PRICE	TOTAL
IGWA3	INSTALL GEO WATER TO AIR 60 TON LIBRARY	1.00	\$53,500.00	\$53,500.00
NONSTOCK EQUIP	GEOCOMFORT 30 TON WATER TO AIR- ECV300AHC2AABTS	2.00	\$56,200.00	\$112,400.00
			<b>SUB-TOTAL</b>	\$165,900.00
			<b>TAX</b>	\$0.00
			<b>TOTAL</b>	\$165,900.00
			<b>EST. FINANCING</b>	\$3,069.15

Thank you for choosing Ken's Electric, Inc.

Pay online- <https://kenselectricinc.securepayments.cardpointe.com/pay>  
 CUSTOMER AUTHORIZATION

50% DUE UPON ACCEPTANCE OF THIS PROPOSAL AND 50% DUE UPON COMPLETION OF THE PROJECT. THIS PROPOSAL IS VALID FOR 30 DAYS.

Sign here

Date

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**BILL TO**

Oelwein Public Library  
 201 East Charles Street  
 Oelwein, IA 50662 USA

<b>ESTIMATE</b> 29027942	<b>ESTIMATE DATE</b> Feb 10, 2023
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**JOB ADDRESS**

Oelwein Public Library  
 201 East Charles Street  
 Oelwein, IA 50662 USA

Job: 28243198

**ESTIMATE DETAILS**

HVAC-Conf. RM, Restroom, Horizontal Unit Replacement: Included in this option will be the replacement of the current heat pumps for the conference room, the restroom, and the horizontal unit. We will install (3) new GeoComfort geothermal units to replace the current Florida Heat Pump units. All material and labor have been included to install the above.

Warranty:  
 1 year parts  
 3 year labor

TASK	DESCRIPTION	QTY	PRICE	TOTAL
IGWA6	INSTALL GEO WATER TO AIR 6 TON	1.00	\$8,550.00	\$8,550.00
IGWA5	INSTALL GEO WATER TO AIR 5 TON	1.00	\$8,485.00	\$8,485.00
IGWA3	INSTALL GEO WATER TO AIR 2.5 TON HORIZONTAL	1.00	\$9,150.00	\$9,150.00
NONSTOCK EQUIP	GECOMFORT 6 TON WATER TO AIR-GYT072E20MT1CSS	1.00	\$15,385.00	\$15,385.00
NONSTOCK EQUIP	GECOMFORT 5 TON WATER TO AIR-GYT060E20MT1CSS	1.00	\$14,920.00	\$14,920.00
NONSTOCK EQUIP	GECOMFORT 2.5 TON WATER TO AIR-GZT030D20LM1CSS	1.00	\$9,465.00	\$9,465.00

<b>SUB-TOTAL</b>	\$65,955.00
<b>TAX</b>	\$0.00
<b>TOTAL</b>	\$65,955.00
<b>EST. FINANCING</b>	\$1,220.17

Thank you for choosing Ken's Electric, Inc.

Pay online- <https://kenselectricinc.securepayments.cardpointe.com/pay>

**CUSTOMER AUTHORIZATION**

50% DUE UPON ACCEPTANCE OF THIS PROPOSAL AND 50% DUE UPON COMPLETION OF THE PROJECT. THIS PROPOSAL IS VALID FOR 30 DAYS.

Sign here

Date

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**Des Moines Claim Department**

May 31, 2023

City Of Oelwein  
Attn: Susan Macken  
20 2<sup>nd</sup> Ave SW  
Oelwein, IA 5662-2247

**Via Email—Return Receipt Requested**

Re: Claim Number: Z01773149  
Date of Loss: 02/08/2023  
Loss Location: 201 E Charles St, Oelwein, IA  
Incident: Problem with water source heat pump system

Dear City of Oelwein:

EMC Property & Casualty Company (EMC) provides the commercial property insurance coverage under the CP7121 Public Entity Coverage Form, and including the CP7358 Equipment Breakdown Endorsement, subject to a \$10,000 deductible, regarding the above captioned claim. The Equipment Breakdown portion of the policy must be reviewed by Mutual Boiler Reinsurance Company (MBRe) to determine any possible coverage.

EMC has completed our investigation for the malfunction of the water source heat pump system under your base policy (CP7121), and MBRe has also completed their investigation under the equipment breakdown endorsement (CP7358). Nederveld Inc, a Forensic Engineering Company, assisted with the investigation of reported damages involving two 17-year-old water source heat pump systems.

It has been confirmed that the subject heat pump units are repairable and do not require full replacement. The units are currently operational, and all reports indicate that the units have met the heating and cooling needs of the building over the past several years despite the various refrigerant leaks that have been discovered, reported, and attempted to be remediated. The isolated locations of leaks in the refrigerant piping systems that were observed during this investigation need to be repaired and the systems need to be properly and thoroughly pressure-tested per manufacturer’s recommendations and/or typical industry standards to discover any other leaks that may not be currently evident and evaluate subsequent repairs.

It was noted that there have been multiple refrigerant leaks because of a gradually developing condition attributed to age-related use and vibration. The HVAC maintenance records determined the vibration isolators on the compressor suction lines have been replaced multiple times, including January of 2019 and July of 2022. There was no evidence of a mechanical or electrical system event that would support coverage under the Equipment Breakdown Endorsement. There was also no evidence that these units experienced damages because of a Covered Cause of Loss.

Unfortunately, based on the facts obtained and the language contained within your policy of insurance, we regret that we are unable to assist you with this claim.

We respectfully refer you to policy provisions which read, in part, as follows:

P.O. Box 884 | Des Moines, IA 50306-0884 | 515.280.2604 | 800.362.2227 | F 888.992.8213 P&C | F 888.992.8214 Work Comp | www.emcins.com

Employers Mutual Casualty Company	Illinois EMCASCO Insurance Company	Union Insurance Company of Providence	EMC Underwriters, LLC
EMCASCO Insurance Company	Dakota Fire Insurance Company	Hamilton Mutual Insurance Company	EMC National Life Company (affiliate)
EMC Reinsurance Company	EMC Property & Casualty Company	EMC Risk Services, LLC	

**EQUIPMENT BREAKDOWN COVERAGE – CP7358 (02/17)  
(INCLUDING ELECTRONIC CIRCUITRY IMPAIRMENT)**

The following is added to the applicable Causes of Loss Form or Coverage Form:

**A. Additional Coverage – Equipment Breakdown**

1. The term Covered Cause of Loss includes the Additional Coverage – Equipment Breakdown as described and limited below. Without an “accident” or “electronic circuitry impairment”, there is no Equipment Breakdown Coverage.

a. We will pay for direct physical damage to Covered Property that is the direct result of an “accident” or “electronic circuitry impairment”. We will consider “electronic circuitry impairment” to be physical damage to “covered equipment”.

**e. DEFINITIONS**

The following definitions are added with respect to this endorsement only:

**(1) “Accident”**

(a) An “accident” means a fortuitous event that causes direct physical damage to “covered equipment”. The event must be one of the following:

- (i) Mechanical breakdown, including rupture or bursting caused by centrifugal force;
- (ii) Artificially generated electrical current, including electric arcing, that disturbs electrical devices, appliances or wires;
- (iii) Explosion of steam boilers, steam pipes, steam engines or steam turbines owned or leased by you, or operated under your control;
- (iv) Loss or damage to steam boilers, steam pipes, steam engines or steam turbines caused by or resulting from any condition or event inside such equipment; or
- (v) Loss or damage to hot water boilers or other water heating equipment caused by or resulting from any condition or event inside such boilers or equipment.

**(5) “Covered equipment”**

(a) “Covered equipment” means, unless otherwise specified in a “Schedule”, Covered Property that:

- (i) Transmits, generates or utilizes energy; or
- (ii) Which, during normal usage, operates under vacuum or pressure, other than the weight of its contents.

“Covered equipment” may utilize conventional design and technology or new or newly commercialized design and technology.

(b) None of the following is “covered equipment”:

- (i) Structure, foundation, cabinet or compartment;
- (iii) Sewer piping, buried vessels or piping, or piping forming a part of a sprinkler or fire suppression system;
- (iv) Water piping other than boiler feedwater piping, boiler condensate return piping or water piping forming a part of a refrigerating or air conditioning system;

**2. EXCLUSIONS**

As respects this endorsement only, with the exception of “power outage”, all exclusions within the Exclusions section of the Property Coverage Form or Causes of Loss form apply, except as modified below and to the extent that coverage is specifically provided by this endorsement.

The following exclusions are added:

c. We will not pay for loss or damaged caused by or resulting from:

Depletion, deterioration, corrosion, erosion, wear and tear, or other gradually developing conditions, but if an “accident” or “electronic circuitry impairment” results, we will pay for that resulting loss, damage or expense caused by that “accident” or “electronic circuitry impairment”.

The heat pumps did not experience physical loss or damage from an “equipment breakdown.”

EMC also completed a review of the Property forms. Please refer to the following language from your policy:

**BUILDING AND PERSONAL PROPERTY COVERAGE FORM - CP7121 (10/20)**

**A. Coverage**

We will pay for direct physical loss of or damage to Covered Property at the premises described in the Declarations caused by or resulting from any Covered Cause of Loss.

**1. Covered Property**

Covered Property, as used in this Coverage Part, means the type of property described in this section, **A.1.**, and limited in **A.2.**, Property Not Covered, if a Limit of Insurance is shown in the Declarations for that type of property.

**3. Covered Causes Of Loss**

Covered Causes Of Loss means direct physical loss unless the loss is excluded or limited in Section **B.** Exclusions and Limitations.

**B. Exclusions And Limitations**

2. We will not pay for loss or damage caused by or resulting from any of the following:

d. (1) Wear and tear;

(2) Rust or other corrosion, decay, deterioration, hidden or latent defect or any quality in property that causes it to damage or destroy itself;

(4) Settling, cracking, shrinking or expansion;

(6) Mechanical breakdown, including rupture or bursting caused by centrifugal force. But if mechanical breakdown results in elevator collision, we will pay for the loss or damage caused by that elevator collision;

3. We will not pay for loss or damage caused by or resulting from any of the following, **3.a.** through **3.c.** But if an excluded cause of loss that is listed in **3.a.** through **3.c.** results in a Covered Cause of Loss, we will pay for the loss or damage caused by that Covered Cause of Loss.

c. Faulty, inadequate or defective:

(1) Planning, zoning, development, surveying, siting;

(2) Design, specifications, workmanship, repair, construction, renovation, remodeling, grading, compaction;

(3) Materials used in repair, construction, renovation or remodeling; or

(4) Maintenance;

of part or all of any property on or off the described premises.

**E. Loss Conditions**

The following conditions apply in addition to the Common Policy Conditions and the Commercial Property Conditions. The following conditions, **1.** through **7.**, do not apply to Additional Coverage **o.**, Legal Liability. The following condition **1.** does not apply to Additional Coverage **i.** Business Income And Extra Expense.

**3. Duties In The Event Of Loss Or Damage**

a. You must see that the following are done in the event of loss or damage to Covered Property:

(4) Take all reasonable steps to protect the Covered Property from further damage, and keep a record of your expenses necessary to protect the Covered Property, for consideration in the settlement of the claim. This will not increase the Limit of Insurance. However, we will not pay for any subsequent loss or damage resulting from a cause of loss that is not a Covered Cause of Loss. Also, if feasible, set the damaged property aside and in the best possible order for examination.

As the cause of loss was not accidental in nature, as defined, and due to an excluded cause of loss (wear/tear/deterioration), we regret to inform that you we are unable to find coverage for the loss regarding the repairs related to the heat pump systems.



Nothing in this letter is intended to be, nor should be construed as, a waiver of any of the terms or conditions of your policy of insurance. EMC expressly reserves all rights, conditions, and defenses it may have now or those that may become apparent through additional investigation.

Please understand that by making specific reference to certain language and sections contained within your policy, EMC neither waives, nor shall it be estopped from, raising other exclusions, conditions, limitations, or provisions of your policy or the facts of this specific claim. Further, nothing in this letter is intended to be, nor should be construed as, a waiver of any of the terms or Conditions of your policy of insurance. EMC expressly reserves all rights, Conditions, and defenses it may have now or those that may become apparent through additional investigation or claim handling.

If you have any additional information you would like us to consider, please forward it to us for review. If you have any questions or concerns regarding your claim, or wish to discuss any aspect of your claim, please feel free to contact me.

Sincerely,

Mike Otto  
Claims Adjuster  
[Mike.j.otto@emcins.com](mailto:Mike.j.otto@emcins.com)  
#515-345-2519

cc: Vogel Agency, 34 W Charles St, Oelwein, IA (via email)



## About ENERGY STAR

About ENERGY STAR

ENERGY STAR Impacts ▶

How ENERGY STAR Works ▶

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Air Source Heat Pumps

Battery Storage Technology

Biomass Stoves/Boilers

Central Air Conditioners

Electric Panel Upgrade

Electric Vehicles

Exterior Doors

Fuel Cells (Residential Fuel Cell and Microturbine System)

Furnaces (Natural Gas, Oil)

Geothermal Heat Pumps

Heat Pump Water Heaters

Home Energy Audit

Hot Water Boilers (Natural Gas, Propane, Oil)

Insulation

Small Wind Turbines (Residential)

Solar Energy Systems

Water Heaters (Natural Gas)

Windows & Skylights

# Geothermal Heat Pumps Tax Credit

Information updated 12/30/2022

Subscribe to ENERGY STAR's Newsletter for updates on tax credits for energy efficiency and other ways to save energy and money at home.

See tax credits for 2022 and previous years.

The following Residential Clean Energy Tax Credit amounts apply for the prescribed periods:

- 30% for property placed in service after December 31, 2016, and before January 1, 2020
- 26% for property placed in service after December 31, 2019, and before January 1, 2022
- 30% for property placed in service after December 31, 2021, and before January 1, 2033
- 26% for property placed in service after December 31, 2032, and before January 1, 2034
- 22% for property placed in service after December 31, 2033, and before January 1, 2035

## What products are eligible?

### Qualified geothermal heat pump property:

Equipment which:

- (1) uses the ground or ground water as a thermal energy source (to heat), or as a thermal energy sink (to cool) a home, and
- (2) is ENERGY STAR certified.

### Qualified geothermal heat pump property expenditure:

An expenditure for qualified geothermal heat pump property installed on or in connection with the taxpayer's residence.



## Find Eligible Products

Find products that are eligible for this tax credit.

Explore models



Your go-to resource for the latest advice from ENERGY STAR experts on saving energy at home and work.

Learn more



ENERGY STAR Home Upgrade

Upgrade now

## Who can use this credit?

Existing homes and new construction qualify. Both principal residences and second homes qualify. Rentals do not qualify.

This system must be installed in connection with a dwelling unit located in the United States and used as a residence by the taxpayer. The home served by this system does not have to be the taxpayer's principal residence.

A principal residence is the home where you live most of the time. The home must be in the United States. It can include a house, houseboat, mobile home, cooperative apartment, condominium, and a manufactured home.

## About ENERGY STAR

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ENERGY STAR Kids Page

## Tax Deductions for Commercial Buildings

Section 179D of the Internal Revenue Code allows deductions for energy-efficient commercial buildings. The following information applies to building upgrades completed on or before December 31, 2022.

**The Inflation Reduction Act extended and expanded these tax deductions. We will have updated information on this page as soon as guidance becomes available from the IRS.**

### What Can Be Deducted?

A tax deduction of up to \$1.80 per square foot is available to owners or designers of commercial buildings or systems that demonstrate a 50% reduction in energy usage accomplished solely through improvements to the heating, cooling, ventilation, hot water, and interior lighting systems. Partial deductions of up to \$.60 per square foot can be taken for qualifying measures.

### How to Apply for the Tax Deduction

The IRS requires that you use a qualified software program to model your energy usage. See a list of qualified software for calculating energy savings.

### Additional Information

- IRS Notice 2006-52 (6/2/2006) provides guidance on the deduction for energy-efficient commercial buildings.
- IRS Notice 2008-40 (4/7/2008) - Amplification of Notice 2006-52 sets forth additional guidance not covered in the initial notice.
- IRS Notice 2012-26, page 5, provides savings percentages for a partial tax deduction.
- Renewable Energy Tax Credits

## Get Help Saving Energy in Your Commercial Building

For information on capturing energy-efficiency opportunities for your commercial property, visit [www.energystar.gov/buildings](http://www.energystar.gov/buildings).

# Rebates

## Geothermal system

A geothermal pump heats and cools your home by using the renewable power of the earth. The units are over 45% more efficient than other standard heating and cooling equipment.

To learn more about how a geothermal system works check out [powerhousetv.com](http://powerhousetv.com).

### Rebate requirements:

- Alliant Energy must provide the electricity for the equipment installed.
- The equipment must be ENERGY STAR and listed in the current AHRI directory.
- Must be a new geothermal system including equipment and ground loop. See rebate claim form for types, applications and other qualifications.

The age of your home will determine your rebate.

- Homes five years or older are considered existing homes.
- Homes less than five year old are considered new homes.

### Important information:

If locked rotor amps are more than 100, please call **1-800-ALLIANT** (800-255-4268) and ask for a field engineering specialist.

### How do I find a qualified dealer?

Visit our [Dealer Locator](#) to find a professional in your area.

## Work Done on HVAC 2009-2022

February 2009	Loop Pump Fuse	\$380
July 2010	Freon	\$2,004
January 2011	Repair Blowers	\$1,592
May 2011	Transformer and Contactor	\$1,558
November 2011	Wire Short	\$195
October 2013	Algae in HVAC Lines	\$320
February 2014	Transformer	\$618
May 2014	Contactor	\$573
September 2016	Actuator	\$1,124
April 2018	Damper Motor and Linkage, Replaced Actuator	\$1,840
January 2019	Leak on Vibration Isolator on Suction Line at Compressor, Freon	\$3,338
December 2019	Replace Damper Motor	\$1,643
March 2020	Compressor	\$322
April 2020	Blower Wheel, Compressor (Ken's)	\$5,890
September 2020	Freon Leak (Ken's)	\$2,919
July 2021	Reversing Valve Leak, Sensing Bulb Line Worn, Replace TXV, Freon	\$3,278
July 2022	Replaced Suction Line Vibration Isolator, Freon	\$3,852
		\$31,446