

Building Permit#: _____

Job Site Location: 121 SW Longleaf Dr, Lake City, FL 32024

2010 Florida Building Code (FBC)

FBC 101.4.7.1 Replacement HVAC Equipment

FBC 101.7.7.1.1 Duct sealing upon equipment replacement (mandatory).

AS THE CONTRACTOR OF RECORD

I certify that I have inspected the duct work associated with the HVAC unit referenced by the permit listed above and found it complies with the requirements of Section 101.4.7.1.1 as indicated below:

- ☒ Where needed, the existing ducts have been sealed using reinforced mastic or code-approved equivalent.
- ☒ Ducts are located within conditioned space. (Section 101.4.7.1.1 exception 1)
- ☒ The joints or seams are already sealed with fabric and mastic (Section 101.4.7.1.1 exception 2)
- ☐ System was tested (see below) and repairs were made as necessary – (Section 101.4.7.1.1 exception 3)

Note: (Section 101.4.7.1.1 exception 3) Complete this section.

Air Testing Company Name: N/A Air Testing Company License # _____

Air Testing Company Phone Number: (____) - (____) - (____)

Leakage Rate and Copy of the Test Report required on site if system is tested

**THIS DOCUMENT IS REQUIRED TO BE POSTED ON AIR HANDLER AT
TIME OF INSPECTION**

NAME OF CONTRACTOR: (PRINT) Carey Farm

NAME OF CONTRACTOR: (SIGNATURE) Carey Farm

CONTRACTORS LICENSE NUMBER: CAC1813864

DATE: 10/18/12

CONTACT PHONE NUMBER: (352) - (327) - (4480)



The New Degree of Comfort™

DesignStar Load Calculation

Customer Information

Location:

Street Address 121 sw long leaf drive, Lake City, FL 32024

Latitude, Longitude 30.3375°, -81.7686°

House Square Footage: 2110 sq. ft.

Name: Donna Thompson

Phone:

Email:

House Information

SHR .75

Number of residents 2

Ceiling height 9

Wall U-value | R-value 0.09 | 11

Floor U-value | R-value 0.2 | 5

Ceiling U-value | R-value 0.053 | 19

Window U-value 0.5

Window SHGF 0.85

Moisture grains 53

Duct loss % 10

Duct gain % 10

Cooling infiltration (ACH) 0.6

Heating infiltration (ACH) 0.8

Winter ventilation 0

Summer ventilation 0

ga

Design Conditions

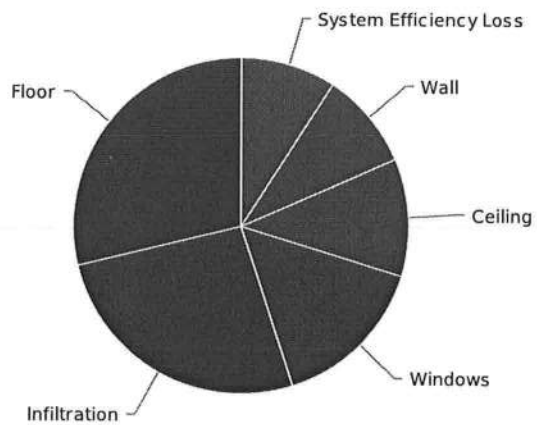
Outdoor	Heating	Cooling
Dry bulb (°F)	32	93
Daily range		M
Relative humidity		50%
Moisture difference		53
Indoor	Heating	Cooling
Indoor temperature (°F)	70	75
Design temperature difference(°F)	38	18

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Heating Loads

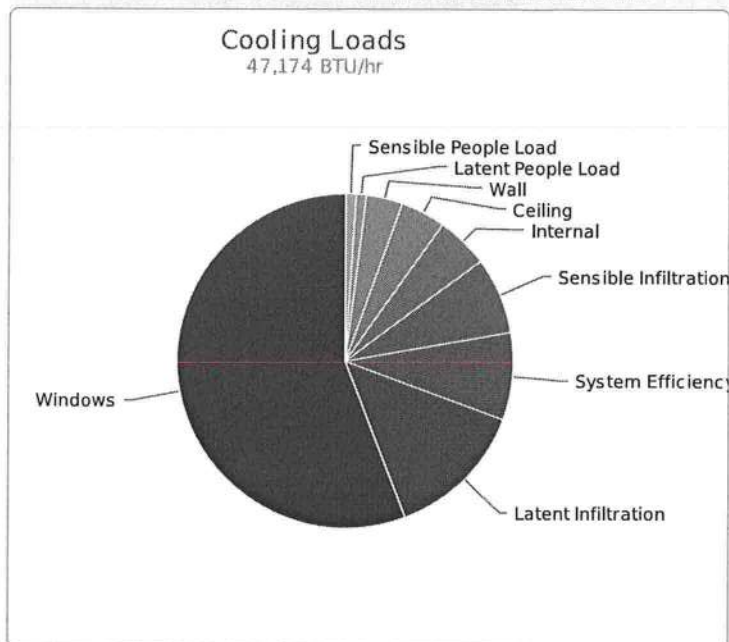
Area	Btuh	% of load
Wall	3509	9.3
Floor	10807	28.8
Ceiling	4250	11.3
Windows	5738	15.3
Infiltration	9843	26.2
System Efficiency Loss	3415	9.1
Total:	37562	

Heating Loads
37,562 BTU/hr



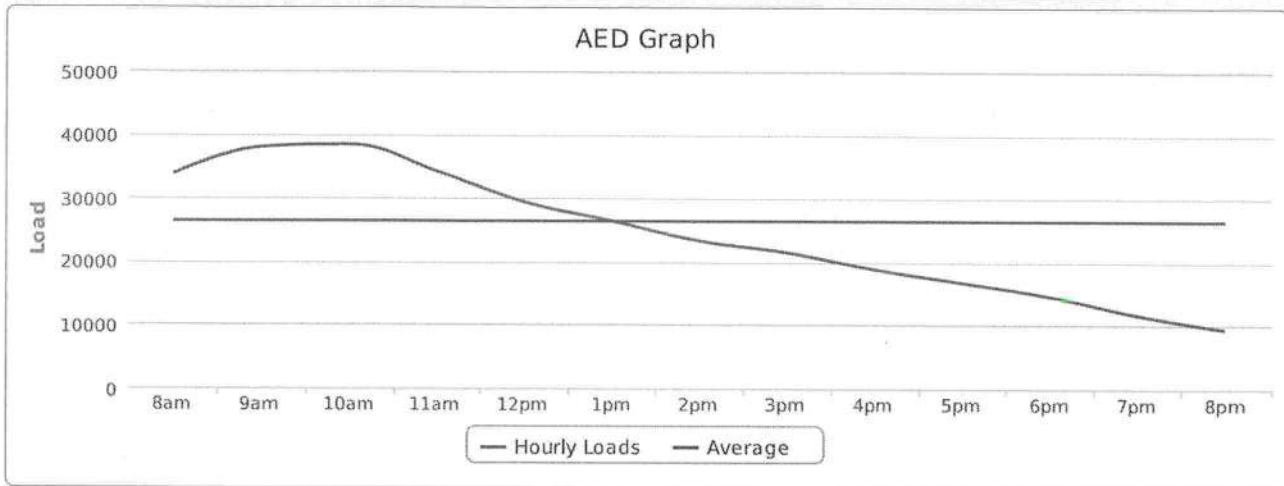
Cooling Loads

Area	Btuh	% of load
Wall	1662	3.5
Ceiling	2013	4.3
Windows	26360	55.9
Sensible Infiltration	3497	7.4
Latent Infiltration	6365	13.5
System Efficiency Gain	3990	8.5
Internal	2367	5
Sensible People Load	460	1
Latent People Load	460	1
Total:	47174	
Sensible load	40349	
Latent load	6825	
SHR	0.86	
Capacity at .75 SHR	4.48 Tons	



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Adequate Exposure Diversity



Equipment selection

System equipment selection will be made using the following derived values.

Summer Outdoor	93°F
Summer Wet Bulb	77°F
Summer Indoor	75°F
Summer Design Grains	50%
Winter Outdoor	32°F
Winter Indoor	70°F
Sensible Cooling	40,349 Btuh
Latent Cooling	6,825 Btuh
Required Cooling Airflow	1,834 CFM
Sensible Heating	37,562 Btuh
Required Heating Airflow	488 CFM

All calculations are based upon approved hvac industry standards and procedures, and comply with all local, state and federal code requirements. All computed results are Estimates. Product provided by Energy Design Systems and Idea Tree

Certificate of Product Ratings

AHRI Certified Reference Number: 5187566

Date: 10/22/2012

Product: Split System: Heat Pump with Remote Outdoor Unit-Air-Source

Outdoor Unit Model Number: 14HPX-048-230-18

Indoor Unit Model Number: CBX27UH-048-230*+TDR

Manufacturer: LENNOX INDUSTRIES, INC.

Trade/Brand name: 14HPX SERIES

Manufacturer responsible for the rating of this system combination is LENNOX INDUSTRIES, INC.

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh):	49500
EER Rating (Cooling):	12.70
SEER Rating (Cooling):	15.00
Heating Capacity(Btuh) @ 47 F:	47500
Region IV HSPF Rating (Heating):	9.20
Heating Capacity(Btuh) @ 17 F:	30600

* Ratings followed by an asterisk (*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

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CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed below.



Air-Conditioning, Heating,
and Refrigeration Institute

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CERTIFICATE NO.: 129953988919666280



H/C Fri-10:00
Reggie they might
Service Experts
HEATING & AIR CONDITIONING
ServiceExperts.com

pay with check.
4404 NW 6th Street
Gainesville, FL 32609
Alachua: 386.462.5431
Gainesville: 352.374.6602
License #: CAC1813864

OFFICE USE ONLY

Customer Name: Thompson, Bruce *pull Grill down &
Street Address: 121 Sw Longleaf dr Chalk dry wall
City: Lake City State: FL Zip: 32024 Email: _____
Home Phone: 386-255-1382 Work Phone: _____
Service Address: SAME

INVESTMENT AGREEMENT

Was possible asbestos observed? ☐ Yes ☒ No
Has the customer been informed of their responsibility to remove it? ☐ Yes ☒ No

Were possible microbes observed? ☐ Yes ☒ No
Has the customer been informed of the possible presence of microbes? ☐ Yes ☒ No

NEW SYSTEM

Equipment	Supreme	Premium	Deluxe	Standard	Size	Efficiency
<input type="radio"/> Air Conditioner	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
<input type="radio"/> Furnace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
<input checked="" type="radio"/> Heat Pump	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	4 Ton Lennox	14 HPX 048
<input checked="" type="radio"/> Air Handler	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	4 Ton Lennox	CBX 22 048
<input type="radio"/> Cooling Coil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
<input type="radio"/> Boiler	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

QUALITY ASSURANCE GUARANTEES

☐ PLATINUM PLUS PROTECTION PLAN ☐ PLUS MAINTENANCE AGREEMENT

- ☒ Written 100% Satisfaction Guarantee
- ☒ Highest Customer Satisfaction
- ☒ Highly-Graded BBB Accreditation
- ☒ NATE-Certified Professional Technicians
- ☒ Official ENERGY STAR® Retail Partner

Manufacturer Warranties (provided if checked)

- ☒ A/C Compressor 10 years
- ☒ A/C Parts 10 years
- ☒ Furnace Parts 10 years
- ☒ Heat Exchanger NA years
- ☒ Labor 3 years

Comfort Guarantee

- ☐ A/C system will provide a _____ indoor temperature on a _____ summer day.
- ☐ Heating system will provide a _____ indoor temperature on a _____ winter day.
- ☐ Other _____

NOTES whole system, new t-stat, line set, 8" skatulle
filter, float switch set unit on stand, new pad
new disconnect, mastie seal all ductwork

Date of Sale 1/1/12 Delivery Date 1/1/12

Model # _____

Serial # _____

THANK YOU!

Dealer Number 534812

☐ CASH ☐ VISA ☐ M/C ☐ AMEX ☐ DISC ☐ SEI ☐ Check # _____

Print Customer Name Bruce Thompson

Acct # 4313073045827467

Auth Code _____ Credit Plan CUC-930

Amount Financed _____ Exp. Date 9/1/14

Customer Signature Bruce R. Thompson

Date 10-17-12

Customer Signature

Comfort Advisor Signature Samuel Pitt

Date

Date 10-17-12

See Reverse Side For Terms & Conditions

QUALITY INSTALLATION

- ☒ Reconnect existing duct work
- ☐ Add Supply _____
- ☐ Add Return _____
- ☐ Insulate duct work
- ☐ Seal duct work
- ☐ Balance air flow
- ☐ Reconnect existing wiring
- ☐ Weatherproof elec. disconnect
- ☐ Circuit breaker
- ☐ Power circuit
- ☐ Control wiring
- ☐ Ceiling saver kit w/auto cutoff
- ☐ Gas Piping
- ☐ Flue Piping ☐ Flue Liner
- ☐ Opti-sized refrigerant piping
- ☐ Architectural piping cover
- ☐ Condensate piping/pump
- ☒ Condenser foundation pad
- ☐ Vibration/shock isolators
- ☐ Combustion air
- ☐ Gallon Water Heater
- ☐ Replaced components disposal
- ☐ Other _____
- ☐ Drop cloth/floor saver protection
- ☐ Complete cleanup & vacuuming
- ☐ Certified refrigerant handling
- ☐ Code compliance
- ☐ Permit
- ☐ Licensed & insured

INDOOR AIR QUALITY

FILTRATION

- ☐ High-efficiency 1" media filter
- ☐ High-efficiency 4" media filter
- ☐ Electronic air cleaner
- ☐ Electrostatic air cleaner
- ☐ PureAir system
- ☐ Charcoal filter
- ☐ UV Light - Single / Double
- ☐ BioFighter PLUS Single / Double
- ☐ P-MAC ☐ Dust lock ☐ Catalytic
- ☒ Other Skatulle

SOURCE CONTROL

- ☐ Humidifier ☐ Dehumidifier
- ☐ Duct cleaning
- ☐ Duct sanitization
- ☐ Duct sealing
- ☐ Other _____

VENTILATION

- ☐ Energy recovery ventilation
- ☐ Heat recovery ventilation
- ☐ Attic / Crawl space
- ☐ Fresh air mixing system
- ☐ Zoned Comfort System
- ☐ Zones _____

CONTROL

- ☐ Digital/programmable T-stat
- ☐ Smoke detector
- ☐ CO detector
- ☐ Efficiency enhancements
- ☒ Other HW 6000

INVESTMENT

System Investment
Indoor Air Quality
Total Home Comfort Investment
Sales Tax
Less Initial Investment
Balance Due Upon Completion

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