

Home Energy Rating Certificate

Projected Report

Rating Date:
Registry ID: Unregistered
Rating Number:



HERS® Index Score:

12

Your home's HERS score is a relative performance score. The lower the number, the more energy efficient the home. To learn more, visit www.hersindex.com

Annual Savings

\$6,923

*Relative to HERS Reference Home

Home:

55 W. 13th St., Tempe, AZ

Builder:

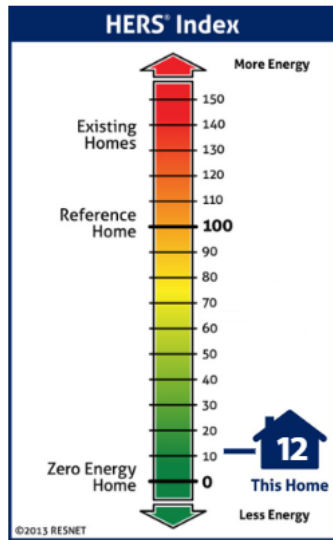
Temac Development, Inc.

Your Home's Estimated Energy Use:

	Use [MBtu]	Annual Cost
Heating	11.9	\$276
Cooling	48.6	\$1,667
Hot Water	1.7	\$45
Lights/Appliances	64.8	\$1,810
Service Charges		\$368
Generation (e.g. Solar)	93.3	-\$2,846
Total:	127.0	\$1,320

This home meets or exceeds the criteria of the following:

2012 International Energy Conservation Code



Home Feature Summary:

Home Type:	Single family detached
Conditioned Floor Area:	12,001 sq. ft.
Number of Bedrooms:	4
Primary Heating System:	Air Source Heat Pump • Electric • 8 HSPF
Primary Cooling System:	Air Source Heat Pump • Electric • 12.06 SEER
Primary Water Heating:	Water Heater • Electric • 3.25 Energy Factor
House Tightness:	3 ACH50
Duct Leakage to Outside:	720.06 CFM25
Above Grade Walls:	R-30
Ceiling:	Vaulted Roof, R-38
Window Type:	U-Value: 0.300, SHGC: 0.250
Foundation Walls:	R-0

Rating Completed by:

Energy Rater: Preston Johnson
RESNET ID: 1485191

Rating Company: D.R. Wastchak
40 W Baseline Rd St 102, Tempe, AZ 85283
480-350-9274

Rating Provider: D.R. Wastchak
40 W Baseline Rd St 102, Tempe, AZ 85283
480-350-9274



Preston Johnson, Certified Energy Rater

ENERGY STAR V2 Home Report

**Property**

Temac Development, Inc.
55 W. 13th St.
Tempe, AZ 85281

Organization

D.R. Wastchak
480-350-9274
Preston Johnson

Inspection Status

Results are projected

17.12.29 kj LEED
Pappas Residence

Builder

Temac Development, Inc.

Mandatory Requirements

- ✓ The building's HERS of 12 beats the target HERS of 85.
- ✓ The design passes the Thermal Bypass Inspection Checklist.
- ✓ All ducts and air handling equipment are located in conditioned space and the envelope leakage has been tested to be ≤ 3 ACH50 OR ≤ 0.25 CFM 50 per sq. ft. of the building envelope.
- ✓ On-site power generation is not used to achieve the HERS Index required to qualify the home.
- ✓ The design doesn't depend upon CFLs to achieve the HERS Index required to qualify the home.

Normalized, Modified End-Use Loads (MBtu / year)

	ENERGY STAR	As Designed
Heating	43.8	26.6
Cooling	281.7	125.8
Water Heating	6.0	1.4
Lights and Appliances	77.2	64.8
Total	408.7	218.6



This home **MEETS** or **EXCEEDS** the energy efficiency requirements for designation as an **EPA ENERGY STAR Qualified Home** under Version 2.0

Pollution Prevented

Type of Emissions	Reduction
Carbon Dioxide (CO ₂) - tons/yr	42.1

Energy Cost Savings

	\$/yr
Heating	187
Cooling	2,152
Water Heating	150
Lights & Appliances	406
Generation Savings	2,846
Total	5,742

The energy savings and pollution prevented are calculated by comparing the Rated Home to the ENERGY STAR Version 2.0 Reference Home as defined in the ENERGY STAR Qualified Homes HERS Index Target Procedure for National Program Requirements, Version 2.0 promulgated by the Environmental Protection Agency (EPA). In accordance with the ANSI/RESNET/ICC 301-2014 Standard, building inputs affecting setpoints infiltration rates, window shading and the existence of mechanical systems may have been changed prior to calculating loads

55 W. 13th St.

Tempe, AZ 85281

Temac Development, Inc.


THIS HOME IS CERTIFIED TO MEET THE 2012 INTERNATIONAL ENERGY CONSERVATION CODE

Building Features

Ceiling Vaulted Roof, R-38	Duct Supply R-6.0, Return R-6.0
Above Grade Walls R-30	Duct Leakage to Outside 720.1 CFM @ 25 Pa
Foundation Walls R-0	Total Duct Leakage 720.1 CFM @ 25 Pa
Framed Floor R-34	Heating Air Source Heat Pump • Electric • 8 HSPF
Slab R-0.0 Perimeter, R-0.0 Under	Cooling Air Source Heat Pump • Electric • 12.06 SEER
Infiltration 3 ACH50	Water Heating Water Heater • Electric • 3.25 Energy Factor
Window U-Value: 0.30 SHGC: 0.25	

The organization below certifies that the proposed building design described herein is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2012 IECC requirements in compliance with Chapter 4 based on Climate Zone 2 and with all mandatory requirements.

Name: Preston Johnson
Organization: D.R. Wastchak

Signature: 
Date: Jan 04, 2018

Ekotrope RATER - Version 2.2.1.1831

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