



## Heating & Air Conditioning

Name: Paul & Molly Sample  
 Address: 4321 N. Nowhere St.  
Tucson Az 85718

Test-in Date: 5/3/2017  
 Report Date: 5/4/2017

System Location: Whole House

**This Report is being provided to you for informational purposes, part of the Russett Southwest  
 "Healthier Home Healthier You Program -- What Lies With-in and Why"**

During the testing for "Code Compliance" for Permitting the replacement of the Heating & Cooling Equipment in your home data was collected for a Healthy Home Assessment.

**"A Code Compliant Home Does Not Necessarily Mean a Healthy Home"**

Pima County Health Needs Assessment report for 2015 indicated that the third leading cause of death's in Pima County were **Chronic Lower Respiratory Diseases**.

The indoor environment of your home, where a large part of every day is spent, is where polutants and contaminants build-up.

Long term exposure to low levels of polutants and contaminants can lead to chronic health issues and in some cases acute health effects.

Acceptable Indoor Air Quality requires contaminant control, effective ventilation and efficient filtration.

The indoor environment is always improved with the following:

- A. Routine house keeping. Routine considered vacuming, floor cleaning, dusting and general cleaning weekly.
- B. ~~Increase Mechanical Ventilation and Pressure Management~~
- C. Improved Filtration.

**Ventilation for Human Occupancy:**

Mechanical Exhaust Ventilation provided by fan(s) designed for quiet low energy cost operaton.If operated continuously the annual cost would be less than \$6.00 per fan.  
 Additional features may include timed operation and humidity control.

**Ventilation for Make-up Air and Pressure Management:**

Filtered outside air provided, on an as needed basis, by a Versatile Model # VPMD-1 Passive and Self-balancing Device.

**Improved Filtration:**

The recommend filtration is Merv 13.

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Duct leakage, what can be the greatest driving force causing pressure issue's, contaminant movement and can adversely effect utility cost in a home was found to be:

Total:	1666
Leakage to the Outside:	786
Leakage to the Inside:	880

Recommended acceptable leakage for your home is: 168

Duct cleanliness, which can effect the air quality in a home was found to be:

	System 1 & 2 Return Air	System1 & 2 Supply Air
Dirty:	No	No
Contaminated:	No	No

Carbon Dioxide is the Natural Tracer Gas for Ventilation Effectiveness. The desired Carbon Dioxide (CO2) reading in your home at the time of testing should not exceed 632  
It was measured at 688

**If you would like to find out additional information on what would be involved and what the cost to improve the Indoor Air in your home would be, please contact, at Russett Southwest Corporation:**

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Building Performance Professional  
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When improvements regarding the Indoor Air Quality in your home are performed by Russett Southwest Corporation, a Performance Test is conducted approximately one week after the completion of the installation of the improvements.

The Performance Test includes, but not limited to, Pressure Performance and all the contaminants listed on the attached Glossary of Contaminants and Health Effects.

It is important to understand that all testing is at a "Point of Time and Conditions" and is realavant to comparing Indoor Conditions to Outdoor Conditions based upon that time and conditions.