



# iManifold Report Pro

## Money Test

### Prepared For:

**Money Test**  
3362 E Grove Ave  
Mesa, AZ 85204

**Date of Service** 6/12/2017  
**Time of Service** 9:34:03AM



The Platform for Productivity

**North Park Innovations**  
P.O. Box 900  
6442 Route 242 E  
Ellicottville, NY 14731

**Field Technician**  
Eric Urrutia  
**iManifold ID**  
A20070  
**Job Number**  
1234

# iManifold Report Pro

## Project Information

### System Information

<b>Condenser Model #</b>	
LENNOX INDUSTRIES, INC... XC25-036-230-**	
<b>Furnace/AHU Model #</b>	
LENNOX INDUSTRIES, INC... SL280UH090V36B*	
<b>Evaporator Model #</b>	
LENNOX INDUSTRIES, INC... CX34-38+TDR	
<b>Condenser Serial #</b>	<b>Furnace/AHU Serial #</b>
999123	12399900
<b>Evaporator Serial #</b>	
5551212	

### Airside Measurements

Measurement	Value	VeriFied*
Supply Air Dry Bulb	55.2°F	✓
Supply Air Wet Bulb	47.8°F	✓
Supply Air Relative Humidity	58.7%	✓
Return Air Dry Bulb	74.8°F	✓
Return Air Wet Bulb	56.5°F	✓
Return Air Relative Humidity	31.1%	✓

### System Airflow and Tonnage

Measurement	Value	VeriFied*
Estimated Airflow	1,355 cfm	✓
Nominal Tonnage	3	

### System Electrical Total

Electrical: Condenser	
Nominal System Voltage	240 volts
Phase	1
L1 Voltage to Ground	121 volts
L1 Current	6 amps
L2 Voltage to Ground	121 volts
L2 Current	6 amps
Power Factor	0.95

#### Electrical: Air Handler

Nominal System Voltage	240 volts
Phase	1
L1 Voltage to Ground	121 volts
L1 Current	3 amps
L2 Voltage to Ground	121 volts
L2 Current	3 amps
Power Factor	0.95

### Comments

Smooth operation

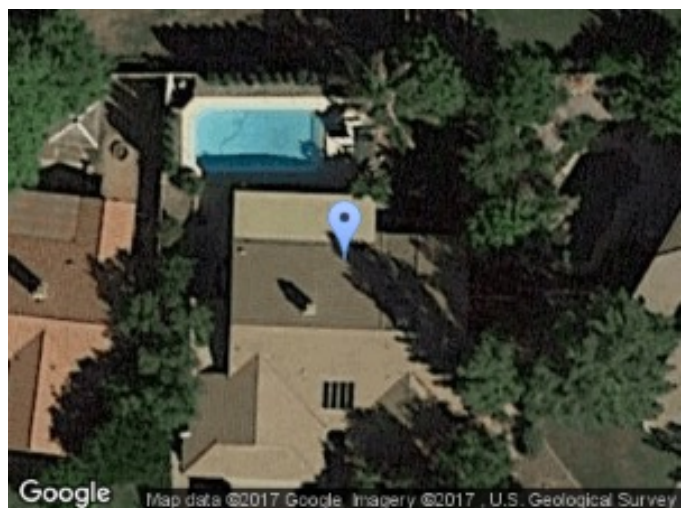
### System Profile

<b>Type of System</b>	<b>Type of Metering Device</b>
Heat Pump: Cooling Mode	Standard TXV
<b>System Configuration</b>	<b>Refrigerant</b>
Split	R410A
<b>Nominal Tons</b>	<b>Design/Rated Capacity (BTU/hr)</b>
3	35,600
<b>Type of Condenser</b>	<b>Nominal Airflow</b>
Custom DTD: 22	1,250
<b>Type of Evaporator</b>	<b>Target Superheat</b>
Custom DTD: 39.4	6.0
<b>Target Subcooling</b>	
14.0	

### System Performance

System Capacity		Evaporator Performance	
Adjusted BTU/Hour	30,853	Temperature Split	19.6
BTU/Hour Total	28,829	Target Temperature Split	21.6
Capacity Realized	93.4%	Deviation from Target	-1.9
BTU/Hour Sensible	27,039		
BTU/Hour Latent	1,790	System Electrical Efficiency	
Condenser Watts	1,379	Total Watts	2,069
Air Handler Watts	690	EER	13.93
Sensible Heat Ratio	0.94	Dehumidification	
Bypass Factor	0.42	Lbs/Hour	1.62
		Gallons/Hour	0.19

### Equipment Geolocation



Latitude: 33.390797894115956

Longitude: -111.75819775672227

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## Refrigerant Circuits

### Refrigerant Circuit 1




<b>Pressures</b>	<b>Value</b>	<b>VeriFied*</b>
Suction Pressure	118.3 psig	✓
High Pressure	362.6 psig	✓
<b>Temperatures</b>		
Suction Pressure Saturation	39.1°F	✓
High Pressure Saturation	108.9°F	✓
Suction Line Temp	43.2°F	✓
Discharge Line Temp	0.0°F	✓
Liquid Line Temp	93.0°F	✓
Outdoor Air Temp	88.3°F	✓
<b>Superheat/Subcooling</b>		
Superheat	4.1°F	✓
Subcooling	15.9°F	✓

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## AC Mechanical Inspection


### Thermostat

- Temperature setting:  
75°F
- Level
-  Battery voltage  
2.5 volts DC
- Programmed if required
-  Secured to wall
-  Wire hole is plugged

### Filter

- Held in place
-  Filter door is in place
- Cleaned/replaced
- Filter Type: Standard  
1: (1x) 20 in. x 20 in. x 1 in.


### Drain Line

- Has been cleaned
- Has cleanout tee
- Slope is OK
-  Fittings are tight
- Internal trap is clean

### Blower Motor


- Bearings are noise free
- Wheel is balanced
- Motor is oiled
- Dip switches & settings are OK

### General

- Low voltage wiring is tight
- High voltage wiring is tight
- Doors & panels are secured
- Ducts are not noisy or popping
-  Dampers are correctly positioned
- Vents are not covered

### A/C

- Wiring & connections are OK
- Condenser fan motor is oiled
- No excess vibrations
- Base pan ports are clean
- Condenser coil is clean

- Pressure drop across evap. coil:  
in. WC
- Appearance is OK
- Chassis & pad are level
- Schrader cores were checked
- Refrigerant caps & seals are in place
-  Suction line insulation was checked
- Wire insulation intact

### Service Wrap-up

- Unit is running outside
- Everything is left how it started
- Discussed service contract
- Explained suggestions & repairs
- Sticker is on the unit
- Reset thermostat to:  
75°F



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## Photo Page 1

**AHU Label Photo**  
Sample



**Blower Motor Photo**  
Sample



**Condenser Label Photo**  
Sample



**Disconnect Photo**  
Sample



**Name Plate Photo**  
Sample

