

iManifold Report

Money Test

3362 E Grove Ave
Mesa, AZ 85204

Date of Service 6/12/2017

Time of Service 9:30:12AM

Work Performed

North Park Innovations

P.O. Box 900
6442 Route 242 E
Ellicottville, NY 14731

Field Technician

Eric Urrutia

iManifold ID

A20070

Job Number

1234



User Inputs / Measurements

Pressures	Value	VeriFied*
Suction Pressure	118.3 psig	✓
High Pressure	362.6 psig	✓

Temperatures	Value	VeriFied*
Suction Pressure Saturation	39.1°F	✓
High Pressure Saturation	108.92°F	✓
Suction Line Temperature	43.2°F	✓
Liquid Line Temperature	93°F	✓
Discharge Line Temperature		
Outdoor Air Temperature	88.3°F	✓
Superheat	4.1°F	✓
Subcooling	15.9°F	✓

Air Side Measurements

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%	✓
Return Air Static Pressure		
Supply Air Static Pressure		
Total External Static Pressure		
Estimated Airflow	1,355 cfm	✓

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

System Information

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

Condenser: LENNOX INDUSTRIES, I... XC25-036-230-**

Serial: 999123

Furnace/AHU: LENNOX INDUSTRIES, I... SL280UH090V36B

* Serial:12399900

Evaporator: LENNOX INDUSTRIES, I... CX34-38+TDR

Serial: 5551212

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	System Electrical Efficiency	
BTU/Hour Latent	1,790	Total Watts	2,069
Condenser Watts	1,379	Current EER	13.93
Air Handler Watts	690	Dehumidification	
Sensible Heat Ratio	0.94	Lbs/Hour	1.62
Bypass Factor	0.42	Gallons/Hour	0.19

Comments