

iManifoldTM Report

Kelly pearson

1613 mclaurin lane
Fuquay varina, North carolina 27526

Date of Service 8/15/2014
Time of Service 11:01AM

Work Performed
Equipment Service

72 Degrees Heating and Cooling

3459 apex peakway
Apex, North carolina 27502

Field Technician
Scott odom

iManifold ID
2461-881



User Inputs / Measurements

Pressures	Value	Verified*
Suction Pressure	130.9 psig	✓
High Pressure	345.7 psig	✓

Temperatures	Value	Verified*
Suction Line Temperature	50.4°F	✓
Discharge Line Temperature		
Liquid Line Temperature	79.0°F	✓
Outdoor Air Temperature	79.0°F	

Superheat / Subcooling	Value	Verified*
Superheat	5.9°F	✓
Subcooling	26.3°F	✓

Air Side Measurements	Value
Supply Air Dry Bulb	52.0°F
Supply Air Relative Humidity	62%
Return Air Dry Bulb	75.0°F
Return Air Relative Humidity	47%

Airflow	Value
Actual Airflow	800 cfm
Nominal Tonnage	2

Electrical System	Value
Nominal Voltage	240 volts
Phase	1
L1 - Grd Voltage	122.5 volts
L1 Current	5.7 amps
L2 - Grd Voltage	122.5 volts
L2 Current	5.7 amps
Power Factor	0.95

System Information

Type of System Heat Pump	Type of Metering Device Standard TXV
System Configuration Package	Refrigerant R410A
Nominal Tons 2	BTU's 24,000
Type of Condenser 13-16 SEER High Eff.	Nominal Airflow 800 cfm
Type of Evaporator High Efficiency	Target Box Temperature
Target Subcooling 20.0°F	Target Superheat 15.0°F

Condenser Model #
York D6HQ024D05606NXA

Evaporator Model #
York

Condenser Serial #
Evaporator Serial #
W1A4383760

System Performance

System Capacity		Evaporator Performance	
Actual Airflow	800 cfm	Temperature Split	23.0
BTU / Hour Total	32,779	Target Temperature Split	19.6
BTU / Hour Sensible	19,191	Deviation from Target	3.4
BTU / Hour Latent	13,588	System Electrical Efficiency	
Condenser Watts	1,327	Total Watts	1,327
Air Handler Watts	0	Current EER	24.70
kW Total	9.61	Dehumidification	
kW Sensible	5.62	Lbs / Hour	12.65
kW Latent	3.98	Gallons / Hour	1.52
Sensible Heat Ratio	0.59		
Bypass Factor	0.25		

Comments

System check