

iManifoldTM Report

Mr. David A Customer

1234 Main Street
Apt. # 4-B
Glenwillow, OH 44139

Date of Service 3/13/2014
Time of Service 11:20:00 AM

Work Performed
Equipment Service

Evans Heating and Air Conditioning

2800 S. Jennifer Ave.
Suite 300
Solon, OH 44139

Field Technician
Joe Technician

iManifold ID
abc123abc123



User Inputs / Measurements

Pressures	Value	Verified*
Suction Pressure	118 psig	✓
High Pressure	350 psig	✓

Temperatures	Value	Verified*
Suction Line Temperature	121°F	✓
Discharge Line Temperature	90°F	
Liquid Line Temperature	115°F	✓
Outdoor Air Temperature	75°F	

Superheat / Subcooling	Value	Verified*
Superheat	18°F	✓
Subcooling	17°F	✓

Air Side Measurements	Value
Supply Air Dry Bulb	55°F
Supply Air Relative Humidity	93%
Return Air Dry Bulb	70°F
Return Air Relative Humidity	40%

Airflow	Value
Actual Airflow	1100 cfm
Nominal Tonnage	4

Electrical: Condenser	Value
Nominal System Voltage	240 volts
Phase	3
L1 - L2 Voltage	108 volts
L1 Current	9.9 amps
L1-L3 Voltage	108 volts
L2 Current	9.9 amps
L2-L3 Voltage	108 volts
L3 Current	9.9 amps
Power Factor	0.95

Electrical: Air Handler	Value
Nominal System Voltage	240 volts
Phase	3
L1-L2 Voltage	107 volts
L1 Current	9.9 amps
L1-L3 Voltage	107 volts
L2 Current	9.9 amps
L2-L3 Voltage	107 volts
L3 Current	9.8 amps
Power Factor	0.97

System Information

Type of System Air Conditioning	Type of Metering Device Fixed Orifice
System Configuration Split	Refrigerant R410A
Nominal Tons 4	BTU's 48,000
Type of Condenser 6-8 SEER Stand. Eff.	Nominal Airflow 1,600 cfm
Type of Evaporator Standard	Target Box Temperature °F
Target Subcooling 21°F	Target Superheat 21°F

Condenser Model #
Trane abc12345xyz12345abc123

Evaporator Model #
Carrier 0123456789012345

Condenser Serial # xyz-12345-4567
Evaporator Serial # xyz-12345-4567

System Performance

System Capacity	Evaporator Performance
Actual Airflow 1100 cfm	Temperature Split 19.2
BTU / Hour Total 44,120	Target Temperature Split 19
BTU / Hour Sensible 32,604	Deviation from Target 0.2
BTU / Hour Latent 11,266	
Condenser Watts 6,592	System Electrical Efficiency
Air Handler Watts 4,801	Total Watts 11,394
kW Total 12.91	Current EER 3.86
kW Sensible 9.57	
kW Latent 3.3	Dehumidification
Sensible Heat Ratio 0.74	Lbs / Hour 10.47
Bypass Factor -0.38	Gallons / Hour 1.32

Comments

System had dirty condenser coil. The condenser was cleaned to obtain optimal performance.



This standard report is included with the current version of the iManifold App. To learn more about other reports and services visit www.iManifold.com.

*If this column is checked, the values displayed were obtained directly by remote sensors. The value cannot be changed by the technician. ©2014 Stride Tool Inc. All rights reserved.