

# nClarity Report

Pulse VeriFi  
Jul. 2021

## Date of Service

Thu, 04 Feb 2021 10:41 AM

## Work Performed

New Installation/ Commissioning

## Job Number

6267

## Field Technician

Brian Henry

## Job Name

IEC Phoenix

## Field Technician

iConnect Model 900C\_C4598

## AC Concept Mechanical

10317 E Irwin Ave

Meza, AZ 85209

## User Inputs / Measurements (Out)

Measurement Type	Value	VeriFied*
<b>Pressure</b>		
Suction Pressure	133.0 psi	✓
Liquid Pressure	258.0 psi	✓

Measurement Type	Value	VeriFied*
<b>Temperature</b>		
Suction Sat Temp	45.66 °F	✓
Suction Line Temp	62.96 °F	✓
System SuperHeat	17.30 °F	✓
Liquid Sat Temp	85.81 °F	✓
Liquid Line Temp	48.38 °F	✓
System SubCooling	37.43 °F	✓
Discharge Line Temp	0 °F	
Outdoor Air Temp	67.82 °F	✓
Outdoor Air Relative Humidity	-	

## Air Side Measurements

Supply Air Dry Bulb	53.24 °F	✓
Supply Air Wet Bulb	44.37 °F	✓
Supply Air Relative Humidity	48.50 %	✓
Return Air Dry Bulb	64.22 °F	✓
Return Air Wet Bulb	49.93 °F	✓
Return Air Relative Humidity	34.40 %	✓
Airflow Per Ton	400 cfm	
Total Airflow	800 cfm	

## Electrical: Package System

Nominal System Voltage	208v/ 230v
Phase	1
L1 Voltage to Ground	122 volts
L1 Current	2.1 amps
L2 Voltage to Ground	122 volts
L2 Current	2.1 amps
Power Factor	0.95

## System Information

<b>Type of System</b>	Air Conditioning	<b>Type of Metering Device</b>	Standard TXV
<b>System Configuration</b>	Package System	<b>Refrigerant</b>	R410A
<b>Nominal Tonnage</b>	2	<b>Design/ Rated Capacity</b>	24,000 Btu/hr
<b>Type of Condenser</b>	18-22 SEER : Ultra High Eff	<b>Design/ Rated Airflow</b>	800
<b>Type of Evaporator</b>	High Sensible Capacity: DTD 30	<b>Target System Subcooling</b>	10
<b>Target System Superheat</b>	14.5		

## Condenser:

## System Performance

<b>System Capacity</b>		<b>Evaporator Performance</b>	
Btu/ Hour Total	10,478	Target Temperature Split	-
Btu/ Hour Sensible	9,621	Temperature Split	10.98
Btu/ Hour Latent	857	Deviation From Target	-
Btu/ Hour Derated	24,000	<b>System Electrical Efficiency</b>	
Enthalpy In	20.16	Condenser Watts	487
Enthalpy Out	17.27	Air Handler Watts	0
Adjusted Target %	43.66	Total Watts	487
Actual Capacity %	43.66	Current EER	21.52
Sensible HEat Ratio	0.92		
Bypass Factor	0.63		
COP	6.30		
Dehumidification	0.77 lb/h		

