

Cooling HVAC Comprehensive Inspection

conducted for

Victor & Lara Wilson

Document No.

000071

Audit Title

Downstairs

Conducted on

07/20/2016, 05:11 PM

Prepared by

Victor Wilson

Location

5008 Ellison Court
Keller, Tx 76244

Completed on

07/20/2016, 05:31 PM

Audit

Question	Response	Details
Area Served, Capacity and/or System Number- Brand- Condensing unit Model- Condensing unit Serial- Evaporator coil Model- Evaporator coil Serial-	Downstairs 4 ton capacity 21 SEER Carrier 24ANA148A300 1907E17690 CNPHP6024ATAABAA 2407X20232	
R22 or R410A refrigerant	R410A	
Factory refrigerant charge (excluding external filter drier & line length beyond 25')	11.75 lbs.	
Metering Device: TXV or Fixed Orifice	TXV	
Outdoor Temperature	97 degrees	
Suction Pressure, Initial (if low on refrigerant or overcharged)	N/A	
Suction Pressure, Final	109.2 psig	
Head Pressure, Initial (if low on refrigerant or overcharged)	N/A	
Head Pressure, Final	355.9 psig	
Superheat, Initial (if low on refrigerant or overcharged)	N/A	
Superheat, Final	19.8 degrees	
Sub cooling, Initial (if low on refrigerant or overcharged)	N/A	
Sub cooling, Final	11 degrees	
Delta T (Temperature Drop), Initial (if low on refrigerant or overcharged)	N/A	
Return Air Temperature	N/A	
Supply Air Temperature	N/A	
Delta T (Temperature Drop), Final	20 degrees	
Return Air Temperature	76.4 degrees	

Question	Response	Details
Supply Air Temperature	56.6 degrees	
Compressor amps, RLA (rated load amps)	21.2 amps	
Compressor Amps, Initial (if low on refrigerant or overcharged)	N/A	
Compressor Amps, Final	12.47 amps	
Fan Motor Amps, FLA (full load amps)	2.2 amps	
Fan Motor Amps, Actual	1.09 amps	
Single Run Capacitor, MFD Rating	Compressor- 45 mfd	
Single Run Capacitor, MFD Actual Tested	Compressor- 28.6 mfd Replaced with Turbo 200	
Dual Run Capacitor, MFD Rating	N/A	
Dual Run Capacitor, MFD Actual Tested	N/A	
Start Capacitor, MFD Rating	N/A	
Start Capacitor, MFD Actual Tested	N/A	
Evaporator Coil	Functional	
Contactors	Functional	
High voltage L1 to L2 = High voltage T1 to T2 = Voltage drop across L1 to T1 = Voltage drop across L2 to T2 =	241.5 volts 241.4 volts .026 volts .036 volts	
Condenser Coil	Disassembled, split double coil & washed out with water.	
Slab/Base	Functional	
Condensate Drain	Tested & flushed with one gallon of water, added 4 ounces of bleach.	
Electrical Disconnect	Functional	
Control Wiring	Functional	
Air Filter, Type & Size	20 X 25 X 4 Infinity	
Summary, Recommendations:	Change air filter every 12 months.	