

Compact System Analyzer Form.



This form MUST be fully completed before submission.

Date: _____	Customer Name: _____
Dealer: _____	Site Address: _____
Technician: _____	City, State, Zip: _____
Dealer Phone: _____	Site Phone: _____

Data Plate Info	Outdoor Section	Furnace / Fan coil	Evaporator Coil
Model Number _____			
Serial Number _____			
Piston Size/TXV number _____			

Compressor Model Number _____	Compressor Serial Number _____
Voltage L1-L2 _____	Amperage L1 (C) _____
Voltage L1-L3 _____	Amperage L2 (S) _____
Voltage L2-L3 _____	Amperage L3 (R) _____
	Resistance Check L1-L2 _____
	Resistance Check L1-L3 _____
	Resistance Check L2-L3 _____

Suction Pressure _____	Evaporator Entering Air DB* _____
Suction Line Temperature _____	Evaporator Entering Air WB** _____
Discharge Pressure _____	Evaporator Leaving Air DB* _____
Liquid Line Temp @ Service Valve _____	Evaporator Leaving Air WB** _____
Liquid / Suction Line Temps @ Indoor ____/ ____	Return Static Pressure (after filter) _____
Outdoor Entering Air DB _____	Supply Static Pressure _____
Outdoor Discharge Air DB _____	Blower Speed being used _____

* DB = Dry Bulb ** WB = Wet Bulb

Instructions for properly taking and recording basic system analyzer readings:

1. Be sure all tools are calibrated and working properly with good batteries.
2. Connect manifold gauges to outdoor unit.
3. Turn system on and be sure it is going to run in high stage for at least 45 minutes.
4. Do not take any temperature or refrigerant pressure readings for at least 20 minutes.
5. Take and record your static readings while waiting on the system to stabilize.
6. After 20 minutes run time take and record your line readings inside at the cabinet.
7. Immediately after taking the indoor line readings take and record the outdoor line readings.
8. Outdoor entering and discharge reading are best if they are an average of 4-6 reading around the unit.
9. Completely fill in all remaining blanks.
10. This is the most basic system analyzer for the beginning technician trying to diagnose proper system operation and capacity. If there are any blanks left incomplete the basic system operation cannot be determined.