

## SYSTEM START-UP CHECK LIST

Customer \_\_\_\_\_ Job Name \_\_\_\_\_  
 City/State \_\_\_\_\_ System No. \_\_\_\_\_ Date \_\_\_\_\_  
 Condensing Unit Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Evaporator Model No. \_\_\_\_\_ Qty. \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Room No. or Name \_\_\_\_\_ Design Temp. \_\_\_\_\_ °F Size(Ft.) \_\_\_\_\_ L x \_\_\_\_\_ W x \_\_\_\_\_ H  
 Suction Line \_\_\_\_\_ OD Liquid Line \_\_\_\_\_ OD Equivalent Length \_\_\_\_\_ Ft. Liquid Lift \_\_\_\_\_ Ft.  
 Leak Test at \_\_\_\_\_ PSIG, for \_\_\_\_\_ Hours System is Leak Free \_\_\_\_\_  
 Evacuated \_\_\_\_\_ Times to \_\_\_\_\_ Microns + Final Vacuum to \_\_\_\_\_ Microns, for \_\_\_\_\_ Hours Total Hrs \_\_\_\_\_  
 Sight Glass Dry \_\_\_\_\_ Pressure Controls Set \_\_\_\_\_ Thermostats Set \_\_\_\_\_ Outdoor Ambient \_\_\_\_\_ °F  
 Design Voltage \_\_\_\_\_ Test Volts \_\_\_\_\_ Control Circuit Volts \_\_\_\_\_  
 Disconnect Fuse Size \_\_\_\_\_ Amps Control Circuit Fuse \_\_\_\_\_ Amps Estimated Refrigerant Charge \_\_\_\_\_ Lbs.  
 Refrigerant R- \_\_\_\_\_ Charge \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ Total Lbs. Sight Glass Clear \_\_\_\_\_  
 Compressor Oil Level \_\_\_\_\_ Glass Evap. Fans Running \_\_\_\_\_ Room Temp at Start-up \_\_\_\_\_ °F  
 Room Temp at 1 Hr. \_\_\_\_\_ °F Compressor Oil Level \_\_\_\_\_ Glass Defrost Timer Set \_\_\_\_\_  
 Room Temp at 2 Hr. \_\_\_\_\_ °F Compressor Oil Level \_\_\_\_\_ Glass Sight Glass Clear \_\_\_\_\_  
 Room Temp at 4 Hr. \_\_\_\_\_ °F Compressor Oil Level \_\_\_\_\_ Glass Outdoor Ambient \_\_\_\_\_ °F

Electrical <u>Component</u>	Specplate <u>Amps</u>	Test Amps		
		<u>L1</u>	<u>L2</u>	<u>L3</u>
Compressor	_____	_____	_____	_____
Condenser	_____	_____	_____	_____
Evaporator	_____	_____	_____	_____
Defrost Heaters	_____	_____	_____	_____

Evaporator Suction Temp \_\_\_\_\_ °F Evaporator Suction Pressure \_\_\_\_\_ PSIG  
 Convert PSIG to \_\_\_\_\_ °F Evaporator Superheat \_\_\_\_\_ °F  
 Compressor Suction Temp \_\_\_\_\_ °F Compressor Suction Pressure \_\_\_\_\_ PSIG  
 Convert PSIG to \_\_\_\_\_ °F Compressor Superheat \_\_\_\_\_ °F Sight Glass Clear \_\_\_\_\_  
 Compressor Discharge Pressure \_\_\_\_\_ PSIG Compressor Discharge Line Temp \_\_\_\_\_ °F  
 Liquid Temp Leaving Condensing Unit \_\_\_\_\_ °F Liquid Temp Entering Expansion Valve \_\_\_\_\_ °F  
 Evaporator Drain Line Trapped \_\_\_\_\_, Heated \_\_\_\_\_, Sloped \_\_\_\_\_, Will not freeze up \_\_\_\_\_  
 Type of Defrost: \_\_\_\_\_ Air \_\_\_\_\_ Electric \_\_\_\_\_ Hot Gas Defrost Time \_\_\_\_\_ Min. Is Coil Clean? \_\_\_\_\_  
 Temperature Termination \_\_\_\_\_ Fan Delay \_\_\_\_\_ Is Defrost Satisfactory? \_\_\_\_\_  
 Compressor Oil Level \_\_\_\_\_ Glass Timer Set \_\_\_\_\_ Defrost per Day with \_\_\_\_\_ Minute Fail Safe  
 Room Thermostat Set at \_\_\_\_\_ °F Room Temp Holding at \_\_\_\_\_ °F  
**FINAL** Evaporator Superheat \_\_\_\_\_ °F Sight Glass Clear \_\_\_\_\_ Pumpdown OK \_\_\_\_\_  
**CONDITION** Compressor Superheat \_\_\_\_\_ °F Compressor Oil Level \_\_\_\_\_ Glass  
 Discharge Line Temperature \_\_\_\_\_ °F Suction Pressure \_\_\_\_\_ PSIG  
 Start-Up By \_\_\_\_\_ Company \_\_\_\_\_ Phone \_\_\_\_\_

**REFRIGERATION SYSTEM SERVICE RECORD**

Customer \_\_\_\_\_ Job Name \_\_\_\_\_

City/State \_\_\_\_\_ System No. \_\_\_\_\_ Date \_\_\_\_\_

Condensing Unit Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_

Evaporator Model No. \_\_\_\_\_ Qty. \_\_\_\_\_ Serial No. \_\_\_\_\_

Room Name \_\_\_\_\_ Design Room Temp \_\_\_\_\_ °F Actual Room Temp \_\_\_\_\_ °F

Date System was Installed \_\_\_\_\_ Product Stored \_\_\_\_\_ Total Pounds \_\_\_\_\_

Routine/Scheduled Preventive Maintenance  Service Call  Outdoor Ambient \_\_\_\_\_ °F

Service Requested \_\_\_\_\_

Service Performed \_\_\_\_\_

Design Voltage \_\_\_\_\_ Actual Voltage \_\_\_\_\_ Refrigerant R- \_\_\_\_\_

Electrical <u>Component</u>	Specplate <u>Amps</u>	Test Amps		
		<u>L1</u>	<u>L2</u>	<u>L3</u>
Compressor	_____	_____	_____	_____
Condenser	_____	_____	_____	_____
Evaporator	_____	_____	_____	_____
Defrost Htr.	_____	_____	_____	_____

Evaporator Suction Temp \_\_\_\_\_ °F Evaporator Suction Pressure \_\_\_\_\_ PSIG

Convert PSIG to \_\_\_\_\_ °F Evaporator Superheat \_\_\_\_\_ °F

Compressor Suction Temp \_\_\_\_\_ °F Compressor Suction Pressure \_\_\_\_\_ PSIG

Convert PSIG to \_\_\_\_\_ °F Compressor Superheat \_\_\_\_\_ °F Ambient Temp \_\_\_\_\_ °F

Compressor Discharge Pressure \_\_\_\_\_ PSIG Compressor Discharge Line Temp \_\_\_\_\_ °F

Compressor Oil Level \_\_\_\_\_ Glass Sight Glass Clear \_\_\_\_\_ Sight Glass Dry \_\_\_\_\_

Cond Coil Clean \_\_\_\_\_ All Cond Fans Operate \_\_\_\_\_ Liquid Temp Leaving Cond Unit \_\_\_\_\_ °F

Room Thermostat Set at \_\_\_\_\_ °F Room Temperature Holding at \_\_\_\_\_ °F

Evaporator Coil Clean \_\_\_\_\_ Drain Pan Clean \_\_\_\_\_ Fan Blades/Guards Clean \_\_\_\_\_

All Evap Fans Operate \_\_\_\_\_ Room Air Circulation OK \_\_\_\_\_ Defrosting OK \_\_\_\_\_

System Pumpdown OK \_\_\_\_\_ Cooler and Equipment in Safe Condition \_\_\_\_\_

System Notes \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Serviced by \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_