



# Liebert Piggy Back Air Cooled Condenser Warranty Inspection Check Sheet

**The following information must be fully completed and forwarded to your local Liebert sales office to establish your equipment warranty.**

Installer \_\_\_\_\_ Address \_\_\_\_\_

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

Owner \_\_\_\_\_ Address \_\_\_\_\_

\_\_\_\_\_

Owner e-mail address \_\_\_\_\_

Installation Date \_\_\_\_\_

Was the unit received in good condition?  Yes  No

If no, has the carrier been notified?  Yes  No

Have the manuals been kept with unit?  Yes  No

## **PRE-START-UP**

Condenser Unit Serial Number: \_\_\_\_\_

Condenser Model Number: \_\_\_\_\_

Evaporator Unit Serial Number: \_\_\_\_\_

Evaporator Unit Model Number: \_\_\_\_\_



### **WARNING**

**Arc flash and electric shock hazard. Open all local and remote electric power disconnect switches, verify with a voltmeter that power is off and wear personal protective equipment per NFPA 70E before working within the electric control enclosure or any hazardous voltage electric connection enclosure. Failure to comply can cause serious injury or death.**

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**With the electric power to the unit OFF check the following items as noted:**

- Internal piping clamps tight and secure on Evaporator and Condenser.
- Field piping properly supported and secure.
- Hot Gas line pitched according to User Manual.
- Field piping trapped according to User Manual.
- Field piping properly sized according to the User Manual.
- ALL electrical connections are tight and properly terminated on Evaporator and Condenser.
- Heat Rejection Interlock wiring has been correctly installed between Evaporator and Condenser(s) (70, 71, & 230).
- Equipment is installed level.
- Remove all debris from unit area.
- A separate power source is connected to the Lee-Temp heater pads.
- Duct work is secured to inlet and outlet of unit
- All panels are securely fastened to unit?
- Filters are installed in the unit?

**Filter Size** \_\_\_\_\_ **Quantity** \_\_\_\_\_

- Blower drive system rotates freely and belts are properly aligned and properly tensioned?

**Main fan HP** \_\_\_\_\_ **Voltage** \_\_\_\_\_

**Motor Sheave** \_\_\_\_\_ **Fan Pulley** \_\_\_\_\_ **Belt Size** \_\_\_\_\_

# Liebert Piggy Back Air Cooled Condenser

## Warranty Inspection Check Sheet

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### Condenser Inspection

#### **WARNING**

Risk of electric shock, contact with high speed moving parts and hot surfaces, Can cause serious injury or death. Use extreme caution when working inside the unit cabinet of an energized unit near bare live hazardous voltage terminals, high speed moving parts such as blower wheels and shafts, pulleys, belts, EC fan blades and hot surfaces such as motors, heater elements, hot gas lines, and humidifier bulbs

1. Check voltage at disconnect and record.

L1-L2 \_\_\_\_\_ L2-L3 \_\_\_\_\_ L1-L3 \_\_\_\_\_

2. Close all local and remote electric power disconnect switches. Verify with a voltmeter that power is on and the supply voltage matches the marked unit voltage rating.

#### **WARNING**

Arc flash and electric shock hazard. Wear personal protective equipment per NFPA 70E before working within the electric control enclosure or any hazardous voltage electric connection enclosure. Use extreme caution when checking the status of live hazardous voltage circuits. Failure to comply can cause serious injury or death.

- Check unit electrical phasing with a phase meter. If phasing is incorrect, change wiring at input source to unit. Do not change any unit or component phasing.
- Check the compressors for proper rotation by bumping the contactors and watching the gauge pressures. If the pressures are equalized and the compressor sounds noisy, then compressor is running backwards.

3. Check and record control voltage transformers for proper output. (Secondary voltage should not be under 23 VAC or exceed 27 VAC under load, change tap if necessary).

T1 \_\_\_\_\_ Volt

5. Check and record the amp draw for the condenser fan.

L1 \_\_\_\_\_ L2 \_\_\_\_\_ L3 \_\_\_\_\_ Fuse \_\_\_\_\_

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## Air Cooled Condenser Piggyback w/ Lee-Temp Receivers

On each receiver at the condenser there are two refrigerant-level sight glasses. Refrigerant level will vary with outside temperature. Check refrigerant level after the system has been on for at least 15 minutes. Record Ambient Temperature and Refrigerant level below.

**Ambient Temperature** \_\_\_\_\_

**Sight Glass Level** (Mark box)

40°F (4.5°C) and lower—bottom sight glass is 3/4 full

40 to 60°F (4.5 to 15.5°C)—bottom sight glass is full

60°F (15.5°C) and higher—top sight glass is 3/4 full

6. Check Voltage at Lee-Temp Heater Pad and record below.

**Circuit 1** \_\_\_\_\_

**Circuit 2** \_\_\_\_\_

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*Your start-up is now complete.*

Your input is important to us. Did you encounter any factory or field issues? If YES, please check the YES box and supply detailed description below. If NO, please check the NO box; however please feel free to provide any additional comments or suggestions.

YES

NO

Comments:

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START-UP

PERFORMED BY \_\_\_\_\_

(Please print name)

START-UP DATE \_\_\_\_\_

COMPANY \_\_\_\_\_

PHONE # \_\_\_\_\_

### IMPORTANT:

This form must be properly completed and returned to your local Liebert Sales office. If you do not know who your local Liebert sales office is, call 1-800-Liebert or check our website at:

<https://www.vertivco.com/en-us/products/brands/liebert/>