

# Start Up Checklist

## Air Source Units

Unit Location: \_\_\_\_\_ HP: \_\_\_\_\_

Model #: \_\_\_\_\_ Serial #: \_\_\_\_\_

Unit Start Up Date: \_\_\_\_\_

- Check all the wiring connections to ensure they are tight
- Check to make sure the unit is mounted level
- Check the Condensate line to ensure a trap has been installed
- Check the Drain Pan to ensure it drains freely when unit is in operation
- Verify correct incoming Voltage

Voltage: \_\_\_\_\_ VAC

***Run Unit at 100% capacity for a minimum of 15 minutes then complete the following***

- Verify Flow Rates

Cond. Flow: \_\_\_\_\_ gpm

Evap. Flow: \_\_\_\_\_ CFM

- Record Condenser Water Temperature.

Water Temp. in (Tcondin) \_\_\_\_\_ °F

Water Temp. out (Tcondout) \_\_\_\_\_ °F

- Calculate Heating Capacity \_\_\_\_\_ btuh

*(Heating Capacity = (Tcondout - Tcondin) x Cond. Flow x 500)*

Record the Ambient Air Temperature \_\_\_\_\_ °F

Record Compressor amps per phase

L1 \_\_\_\_\_ amps

L2 \_\_\_\_\_ amps

L3 \_\_\_\_\_ amps

Calculate superheat prior to accumulator \_\_\_\_\_ °F

Check sight-glass

\_\_\_\_\_ Clear \_\_\_\_\_ Bubbles

Record Evaporator Pressure \_\_\_\_\_ psig

Saturated Evaporator Temperature (SET) \_\_\_\_\_ °F

Record Condenser Pressure \_\_\_\_\_ psig

Saturated Condenser Temperature (SCT) \_\_\_\_\_ °F

Measure compressor discharge line temperature \_\_\_\_\_ °F

Measure compressor suction line temperature \_\_\_\_\_ °F

Measure refrigerant liquid line temperature \_\_\_\_\_ °F

Record oil level in compressor sight glass

\_\_\_\_\_ Full \_\_\_\_\_ 3/4 \_\_\_\_\_ 1/2 \_\_\_\_\_ 1/4

Calculate approach temperature ( SCT - Tcondout) \_\_\_\_\_ °F

Installer Signature: \_\_\_\_\_ Date: \_\_\_\_\_