



SA Startup Request Form

Factory Assisted Start-Up consists of a Desert Aire Service Department Technician to visit the job-site and provide **supervisory** experience to installing contractors as they perform the required procedures as outlined in our warranty activation start-up report. The company technician will also present an educational review of the dehumidifier's operating and maintenance requirements. **Factory Assisted Start-Up is not an installation bid & therefore the system must be ready to run before scheduling.**

Items to be completed by the installing contractor before any Start-Up can be scheduled:

Unpacking and installing

- Dehumidifier leak checked and inspected for internal concealed damage. Remove access panels and inspect the interior of the unit for transit damage. Contact Desert Aire immediately if damage is noted. **(262) 946-7400**
- Dehumidifier leveled and properly supported per the installation manuals recommendations. **See section 2.1 of the LC/LV I&O manual for details**
- Return and supply duct work complete with grills, registers, and turning veins installed where necessary.
- Outside air and exhaust duct work complete.
- Condensate P Trap installed with heat trace for winter operation. **See SA I&O manual section 2.3 for details**
- Remove shipping blocks from under the compressor and blowers with spring isolation
- Inspect the remote condenser for nitrogen holding charge – condensers are shipped with 30 psig

Remote condenser installation and wiring

- Remote condenser plumbed per **Air Cooled I&O manual section 2.4**, Traps installed at the base of all hot gas risers and check valves installed in the hot gas discharge lines. **Pay careful attention to which circuit goes to each remote condenser header.** Many systems have dual circuits of different capacities. It is essential that the larger circuit on the dehumidifier is tied to the larger headers on the remote condenser.
- Refrigeration line sets are clamped and the header supported per the **Air Cooled &O manual sec 2.3**
- Linesets and remote condenser leak checked, evacuated, and charged if necessary. All SA units come pre-charged with enough refrigerant to accommodate up to a 50 foot lineset. If lineset is longer than 50 feet please contact Desert Aire for evaluation.
- Pressure transducers and cords sent with the remote condenser installed on the liquid line headers and wired to the Johnson 450 controller. **See section 2.7 of the Air Cooled I&O manual for wiring details.** (if applicable)
- All electrical connections terminated and verified for proper voltage at the unit and the condenser (if applicable).

Sensor Installation

- Combination temperature/humidity sensor installed in return air duct or on the wall in the conditioned space. See section **See section 2.8.1 of the SA I&O manual for details**
- Supply air sensor installed in supply air duct downstream of any auxiliary heat sources. **See section 2.8.1 of the SA I&O manual for details**
- Water condenser circuits connected to dehumidifier with flow meters and balancing valves installed in circuit. Water flow verified and air purged from water the lines. (if applicable)
- Water temperature sensor wells and temp sensors installed and wired per **I&O manual section 2.8.2** (if applicable)
- Aux pool heater and booster pump interlocked with dehumidifier.
- Static pressure sensors installed and tubing run back to dehumidifier. **See section 2.8.3 of the SA I&O manual for details.** These sensors are required on SA units with integral exhaust fans.
- VOC sensor installed. **See section 2.8.4 of the SA I/O manual for details** (if applicable)

Aux Heat Installation – Unit may be equipped with hot water coil, steam coil or aux gas heat package

- Water/Steam valve installed and wired **per section 2.9 of the SA I&O Manual**
- Gas heater installed **per section 2.10 of the SA I&O Manual** (if applicable)
- Gas heater lines plumbed and purged / Record gas pressure entering the unit - _____ 'wc (if applicable)

