

SLAB DRYING AND MOISTURE TEST PROCEDURE: (Request Moisture Test Kit BEFORE starting Slab Drying Process)

1. Ensure that building is closed in, reasonably insulated and air-tight. Cool and cold weather operation of the construction heater without an air-tight and insulated envelope will not allow the slab to reach the desired drying temperature.
2. Remove any standing water and dirt in box with a high powered vacuum cleaner. Be sure to vacuum out each pipe run individually to ensure no water is present. Simply installing the construction heater without vacuuming out the lines will not expel standing water from the piping, causing water damage to the insert when the insert is first energized. This damage is not covered under warranty.
3. Install construction heater, referring to the [Construction Heater product data sheet](#) for power supply requirements.
4. Run construction heater 2-3 days continuously with construction heater uncovered to evaporate and disperse any trace water left in the piping. (See Figure 1)
5. Rotate construction heater 90° and repeat step 4 once. Rotation for steps 5-6 is required to ensure even air distribution **for 2" 4000 series boxes only**.
6. Rotate construction heater 90° and install enclosure over construction heater (shipping crate placed upside down over the construction heater, as illustrated in Figure 2). Improvise an enclosure in the absence of a shipping crate. Information on acquiring a shipping crate, or instructions on building a shipping crate can be obtained by [contacting LEGALETT](#). Continuous heating is required to raise the temperature of the slab to a minimum of 27°C (80°F) for non-insulative floor coverings, and 30°C (86°F) for insulative floor coverings. Runtime is an additional 7-10 days once the construction heater is enclosed, rotating the construction heater every 2-3 days, for a total runtime of 14 days of continuous heating. If the desired temperature is not reached by 14 days, increase runtime until the desired temperature is reached. Contact LEGALETT if slab drying occurs during extreme summer temperatures.
7. Check slab moisture content by following the Slab Moisture Test kit instructions (See Figure 3) provided. If moisture is present, repeat step 6. Moisture test to be left in place for observance by Heater Technician.
8. Re-vacuum box and pipe runs to confirm no water. If water is present repeat steps 2-7.
9. Record required run time and observed floor temperature readings during construction heater operation - required for the Start-up Inspection Report. Construction heater to be left in place for observance by Heater Technician.

FAILURE TO FOLLOW THE ABOVE STEPS WILL VOID ALL MECHANICAL WARRANTIES

The construction heater can also be used to heat the slab immediately after the pour to extend the construction season. The construction heater can be installed in the box, with appropriate temporary wiring, before the slab is poured. The construction heater is then run, starting immediately after the pour until the concrete has set (approximately 48 hours). This is recommended for cold weather pours, in conjunction with insulative blankets.

Pours have been performed at -10°C (14°F) when heated concrete is supplied. Please refer to your concrete supplier for instruction for all cold weather pours.

The construction heater can also be used to provide comfort heat before and after the drying period. For comfort heat-only operation, a standard 2 or 3-wire thermostat can be used to interface with the construction heater to cycle the heat as required to maintain the thermostat setpoint. The fan will only run during a call for heat. Refer to the wiring diagram inside the construction heater electrical enclosure. This modification should be performed by a qualified electrician only.

