



OUTLINE

The 3001 EI heating unit is installed in the foundation slab or in the intermediate floor. The unit contains a fan and 2

electric coils that are controlled by 1 or 2 external electric room thermostats.

TECHNICAL DATA

The following data is generic. Each LEGALETT installation is unique. For actual design parameters refer to customized specification on the design drawing for your specific installation.

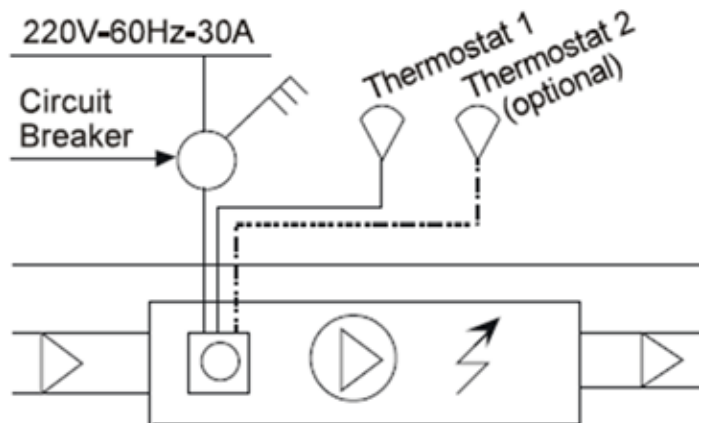
Operating voltage 1P - 220V - 60 Hz
 Fan motor power consumption 192 W
 Breaker rating 30A

Electric coil power consumption/output 2 x 2.0 kW
 Air temperature range 30 - 55°C (86 - 130°F)
 Air flow 700 m³/h (412 CFM)

FUNCTION

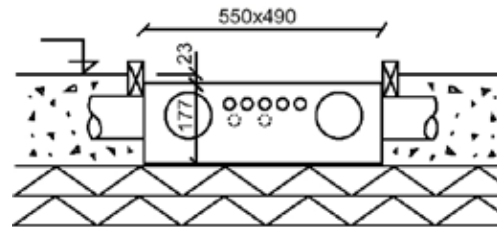
The 3001 EI is controlled by one (single zone) or two (dual zone) external electrical room thermostats. These external thermostats operate the contactors, energizing both the elements and the fan.

When connected to a clock thermostat, the 3001 EI can use differentiated energy rates for night storage of heat in the LEGALETT heated foundation.



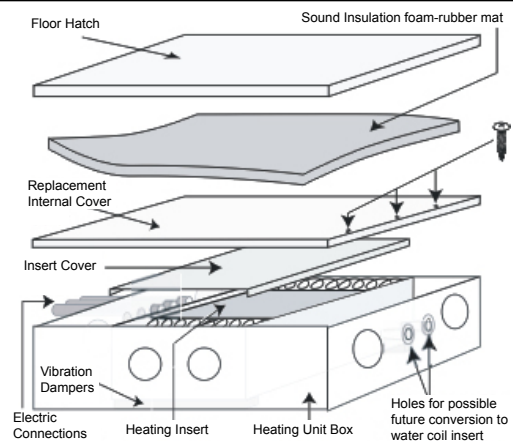
ASSEMBLY

1. The 3000 series heating unit box rests on the polystyrene sheet, with its upper edge adjusted to min. 23 mm below top of the finished slab elevation.
2. Conduit, for power to the unit, is run from one of the cable inlets on the unit to the local disconnect. Individual conduit is run from the remaining cable inlets for each of the thermostats. Wiring and termination must be in accordance with local building codes.
3. The spiral ducts in the concrete slab are laid in accordance with a separate drawing.
4. Prior to placing concrete, the furnace box should be covered with plastic sheeting to protect the unit from water and concrete. Install the wooden frame to secure the plastic sheeting in place.
5. After the concrete has dried sufficiently with the use of the construction heater, the box is prepared for the heating unit by an authorized electrician.
6. Clean the furnace box carefully. There should not be any water or dampness in the box or duct system when the equipment is set up.



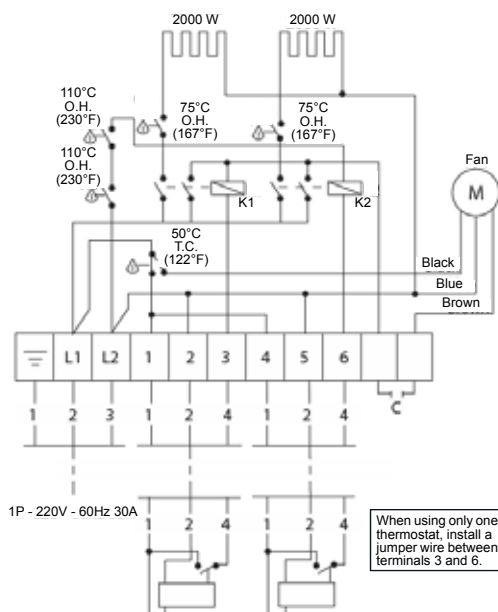
INSERT INSTALLATION

1. Verify that the vibration dampers (thick foam strips that are attached to insert) are installed properly at the bottom edge of the insert, under the coil ends.
2. Insert the insert assembly into the box so that the terminal block is facing the electrical conduits.



ELECTRICAL CONNECTION

1. Check the electrical data on the unit so that other installation materials and equipment are compatible.
2. Used properly sized copper wire for connection to the panel.
3. A properly sized two-pole local disconnect must be included in the installation to enable total isolation for maintenance etc.
4. The installation must be by a licenced electrician.
5. The conduits which run into the unit must be sealed using sealing compound after the electrical connections have been made.
6. Mount the cover onto the unit as per the data sheet for the cover. Test run for 1 hour and then open for a check. If necessary clean, check for dryness, and test run again. If moisture is present, re-install construction heater and run until the system is dry.



NOTE: If the overheating protection for the fan has been tripped, it can be reset by turning the breaker off and on.