LEGALETT®

HEATING UNIT IGV 5000 T

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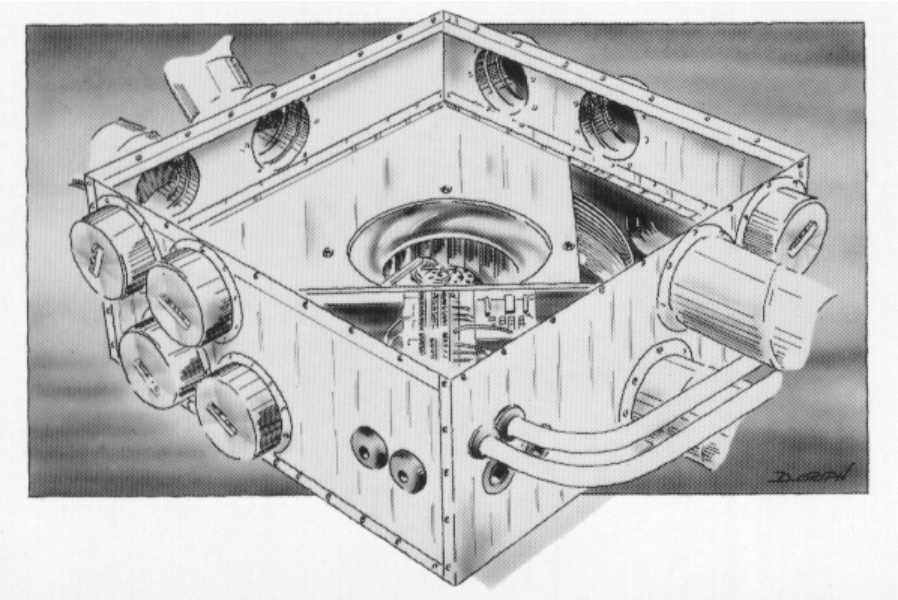
Form № 0502



OUTLINE

The IGV 5000 T is an electrical heating unit poured into the foundation slab and designed as heating and energy supply equipment for the LEGALETT Heated Foundation.

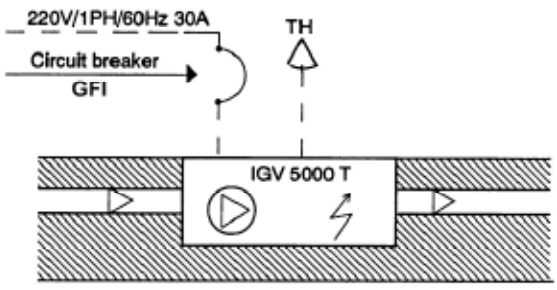
The IGV 5000 T contains a thermostat-controlled electrical element, maximum 5 kW, and a 0.2 kW fan with a delayed operational switch-off for after-cooling.

TECHNICAL DATA

Operating voltage ..... 220V/1PH/60 Hz
Output, electrical heating ..... 6 x 833 W
Output fan motor ..... 204 W
Air quantity 700-1000 m3/h
Breaker GFI ..... 30 A

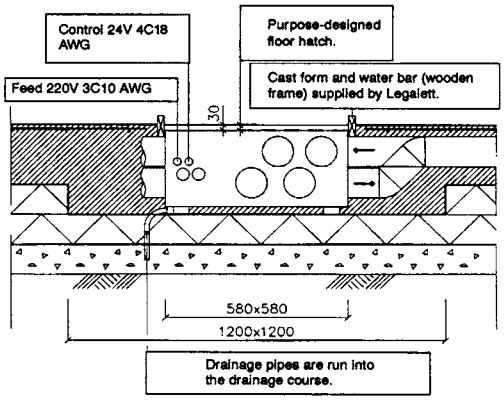
OPERATION

The IGV 5000 T is controlled by a typical line voltage thermostat or standard 24V timer thermostat. The thermostat controls the electrical heating, on-off, via contacts built into the IGV 5000 T. The IGV 5000 T is also equipped with two overheating protection circuits, one manual reset and the other automatic. The fan motor is controlled by a delayed switch-off timing relay, for after-cooling of the electrical element and equalizing of energy stored in the heated foundation.



ASSEMBLY

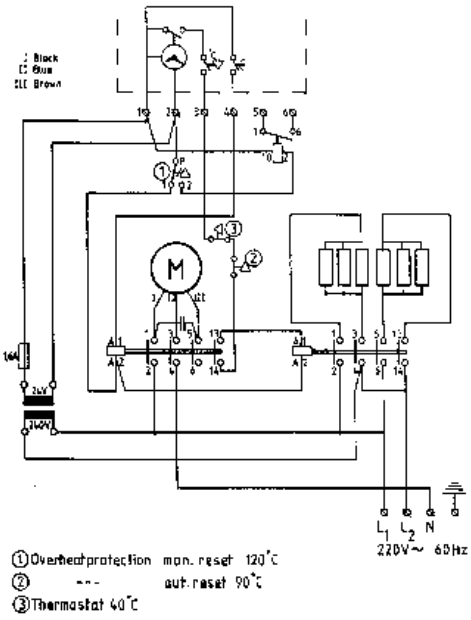
1. The IGV 5000 T heating unit rests on the polystyrene sheet, with its upper edge adjusted to min. 30 mm below the top of the level of the surface material of the floor. A hole is required in the insulation for the unit's drain pipe.
2. The space between the insulation sheet and the unit's lower edge is filled with concrete the day before the concrete slab is cast, in order to anchor the unit.
3. The conduit for the 3C10 AWG is run from one of the cable inlets on the unit to the circuit breaker on the wall.



4. The conduit for the 4C18 AWG is run from the other cable inlet to a device box on the wall where the thermostat is located. The thermostat box should be 1500 mm [59"] from the floor.
5. The ducts in the concrete slab are laid in accordance with the separate duct layout.

CONNECTION

1. Clean the heating unit box carefully. There should be no water or dampness in the box or ducts when the equipment is set up.
2. Mount the assembled unit, comprising fan, elements and other electrical equipment in position in the box. Screw tight.
3. Check the electrical data on the unit so that other installation materials are compatible.
4. A 30A two-pole GFI breaker must be installed on the wall next to the unit.
5. Voltage to the element should not be able to be turned on without prior or simultaneous start-up of the fan motor.
6. Voltage to the fan should not be able to be turned off without prior or simultaneous disconnection of voltage to the element.
7. The conduits which run into the unit are to be ealed using electrical putty after the electrical leads have been installed.
8. The installation must be carried out by an authorized electrician.



OVERHEATING PROTECTION

If the overheating protection is tripped, the following should be done:

1. Disconnect the current.
2. Carefully investigate the reason for the tripping of the overheating protection.
3. Any measures should be taken by an authorized electrician only, including opening the cover.

MAINTENANCE

1. No maintenance is required other than a periodic functional check.