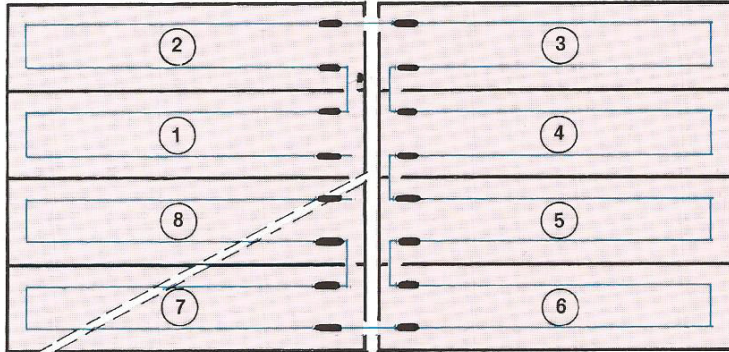




# Icefree Sapphire Ltd - Sectional Heater Panel Systems

The Icefree Sectional Heater Panel is offered as an alternative to screeded over Heater Mat, for situations where it is not convenient to introduce the problems of sand cement screeding, and where height limitations are an important factor, also this system can easily relocate to a new site.



The Icefree system is based on the use of Polyfoam panels, nominal size 2438 × 600 × 25 or 16mm.

The tough stainless steel heater wire, PVC sheathed overall, is pressed into grooves cut into one surface of the panel, and is terminated with 4mm<sup>2</sup> cable tails.

The surface accommodating the heater wire is then covered with a sheet of aluminium to dissipate the heat evenly over the floor area.

Channel for Temperature Sensor and Cold Tail  
Plastic Tubing (2 × 20mm)

Cable connections between panels are made as far as possible in the factory and the system layout is designed to have as few site made joints as possible.

In many cases no site made joints are required as all the necessary cable connections can be made in the factory, therefore shortening installation time.

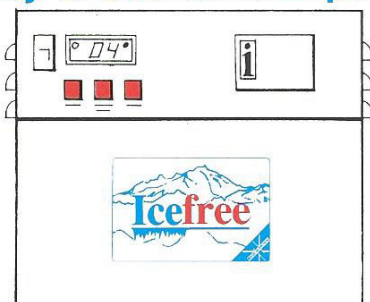
However, in some cases site made joints may be required, and these are made and sealed, with crimp lugs and heat shrink sleeving supplied by Icefree Ltd., who also supply the crimping tool as part of the kit.

The Icefree control panel manufactured from 1.2mm Zintex, finished in white houses the following items,

- 1 × step-down transformer up to 1.25KVA
- 1 × electronic thermostat/thermometer set to 4°C
- 1 × contactor
- 1 × auxilliary transformer
- 1 × on-off illuminated switch
- 2 × fuses
- 1 × indicating load light

Note: step-down transformers exceeding 1.25 KVA are housed in a separate steel case.  
Electrical loading of Heater Mat is 13.5 watts per metre<sup>2</sup>

## Easy-to-use control panel



### CONTROL PANEL SIZES

- 1) UP TO 400VA  
300 × 250 × 135
- 2) 400VA TO 1.25KVA  
340 × 290 × 160
- 3) 1.25KVA TO 4KVA  
190 × 250 × 120  
(PLUS STEEL CASE HOUSING TRANSFORMER)

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