



HOT BOX

Protective Cabinet for High Internal Temperatures

1 Application

In chemical plants and refineries it is often necessary to maintain certain substances in various media at high temperature levels in order to avoid condensation or crystallization during analysis.

Without this high temperature maintain, certain analysis cannot be made that is necessary for process control.

2 Special Features and Advantages

- Sandwich construction with extremely high insulation properties, made from glassfibre reinforced polyester (GRP) with PU-core.
- The sandwich construction can be modified to meet application requirements, e.g.:
 - ◆ Insulation values
 - ◆ Temperature resistance
 - ◆ Antistatic design
 - ◆ Colour (inside/outside)
 - ◆ C-rails for the installation of instruments

3 Description

The HOT BOX is a special variant of the ARCTIC-SHELTER system.

The design places special emphasis on avoiding thermal bridges between the inner and outer skin of the cabinet, thus ensuring that the heat remains in the cabinet and the outer skin remains cool (even at temperatures of 140 °C in the cabinet).

This is particularly important for applications in hazardous areas where high temperatures of 60° to 140°C can only be reached with sophisticated and expensive equipment.

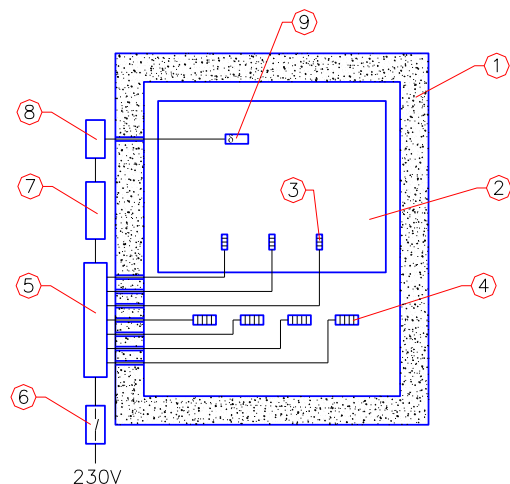
4 Technical Data

Protection Degree	IP 65
Material	GRP/ PU/ GRP
alternatively	GRP/ MW/ GRP
Heating	Electrically or steam
Other designs	Upon Request



5 Heating Scheme (Example)

(see also data sheet SD015)



- 1 Protective cabinet
- 2 Mounting plate
- 3 Conduction heater SL MINITHERM EBA T3
- 4 Convection heater CP VARITHERM ... T3R
- 5 Terminal box
- 6 On/off switch
- 7 VARIOTRACE power controller
- 8 Capillary tube thermostat
- 9 Temperature sensor