



# TECHNICAL DATA SHEET

## SK1POCH Polymerization chambers

### ► DESCRIPTION

Polymerization chambers are industrial furnaces and drying furnaces. That type of equipment is used for heat treatment, drying, polymerization at temperature till 250°C of all materials, including deleterious ones. Treatment temperature and cure time are defined by heat-treater

Unit can be equipped with PC, which allows setting and controlling process parameters of heat treatment. Chamber can be connected to Ethernet of Customer's enterprise.

Heating elements are specifically located to provide maximal uniformity of temperature field. Maximal temperature gradient in ovens is  $\pm 3^{\circ}\text{C}$ .

Speed of heating and cooling is regulated by heat-treater.

### ► TECHNICAL DATA

- Useful size of drying furnace is defined by Customer. All oven useful volumes are possible.
- Max. use temperature: 250°C.
- The position of heaters of forced convection is determined according to size and shape of an oven by simulation method.
- Possible range of use temperature 40-250 °C.
- Heating speed of working area is defined by operator.
- Cooling speed of working area is defined by operator.
- Possible doors: hanging doors on hinges (double shutter /single shutter), guillotine type door.
- Door actuation: manually / motorized opening.
- Air exhauster – is designed according to the chamber volume. It is mounted on the chamber's body. Air duct has air baffle, which is opened after fan switching. Air exhauster is used to remove hot air after heat treatment process has been finished and to accelerate cooling of work piece. The air baffle is also used as a blast valve.





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- Operating time – till 48 hours.
- Three-phase supply line voltage 380 V.
- Transition time for the mode 185 °C without loading of work pieces – not more than 35 min
- Oven body is a modular construction, made of welded frame with internal welded skins. External skins are made of portable panels, connected with screws to the structure. To minimize heat losses the gap between skins is filled with ecologically clean nonflammable thermal insulation from mineral fiber. The floor and roof as well as sidewalls, are filled with thermal insulating material.
- Heating of oven workspace is realized by tubular heating elements mounted as units in boxes, placed at the lower part on the sides of a chamber. The boxes connected to blowing fans, provide circulation of heated air at oven workspace.
- Possible design: pusher oven /box oven.
- Oven can be demounted after manufacturing.
- Oven has interior light
- Possible installation of observation windows.
- Lines with quick-disconnect plug for connection of vacuum pump/ compressor.



#### ► NOTE

Please contact us to get further information, as well as to make an equipment design according to your technical specification.

Standard warranty period: 12 months.