

Muffle flow furnace TK2-3-12D3 for thermal forming of bulk materials and layers after deposition

Description

- The furnace consists of a double stainless steel housing with a cooling fan system and a rotary pump that provides a vacuum up to -0.1MPa . The programmable PID automatic control allows stepwise tempering in the range of $500 - 1000\text{ }^{\circ}\text{C}$ and temperature control by thermocouple with an accuracy of $\pm 1^{\circ}\text{C}$. The quartz tube has a diameter of 100 mm and a length of 1 m. It is equipped with inlet and outlet flanges and a pressure gauge. Sample processing can be carried out in inert (Ar) and reactive (N_2 , H_2 , O_2) environments.
- The furnace is designed for temperature forming of bulk materials and layers to study their composition and structure during thermal treatment under different environments.



Electric resistance chamber furnace for thermal treatment of samples

Description

- *The furnace consists of a working chamber with highly efficient thermal insulation in the form of plates to ensure low heat loss, with internal dimensions: width x depth x height = 100 mm x 100 mm x 100 mm. The heating system with a built-in thermocouple provides operating temperatures from room temperature to 1100°C with maintenance accuracy of ± 1 °C. Two operating modes are possible - in vacuum and in a nitrogen or argon environment.*
- *The furnace is designed to perform temperature tests of bulk materials and layers, studying their temperature stability in different environments.*

