

High-temperature furnace 1750°C for ceramics firing



Technical description:

The device is used for firing and sintering various types of ceramics. The furnace features an automatically closing worktable with a lift, facilitating easier loading of the charge from below. Heating is achieved through resistance using Super-Kanthal thermoelectric elements. The furnace is equipped with a thermocouple for heating control and a control thermocouple. It can operate in an argon or nitrogen atmosphere and is equipped with a precise system for supplying protective gases.

Device capabilities:

Operating temperature: up to 1750°C
Furnace power: 14kW
Possibility to program temperature-time characteristics.

Trade name: High-temperature furnace up to 1750°C by KEPKA GROUP

More details: </equipment/piec-wysokotemperaturowy-1750c/>

Access type: External

Type of accreditation / certificate: Not applicable

Contact person: Tokarski Tomasz

Contact person url: <https://skos.agh.edu.pl/osoba/tomasz-tokarski-8130.html>

Responsible body: Academic Centre for Materials and Nanotechnology

Group / laboratory / team: Department of Materials Engineering

Last update date: March 10, 2025, 1:45 p.m.

Year of commissioning: 2016

IDUB research areas:

(PRA 7) Design, production, and testing of modern materials and the technologies of the future based on a multidisciplinary approach combining materials engineering with chemistry, physics, mathematics, and medicine

Research capabilities:

Firing ceramics according to programmed characteristics.

Conducting heat treatment processes.

Conditions for providing infrastructure:

Equipment is available in accordance with the Regulations for the Use of ACMiN's Research Infrastructure. (https://acmin.agh.edu.pl/home/acmin/5_Wspolpraca/Aparatura/Zasady_i_koszty_korzystania_z_infrastruktury_badawczej_ACMiN.pdf)