

## Ceramic material resin firing furnace with afterburner



### Technical description:

The device is used for drying and firing 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 Kanthal thermoelectric elements. The furnace is equipped with a thermocouple for heating control and a control thermocouple. It has a working chamber with a convection system and an exhaust gas afterburner, allowing for the firing of a significant amount of organic fractions.

Device capabilities:

Operating temperature: up to 850°C
Furnace power: 5.7kW
Ability to program temperature-time characteristics.

**Trade name:** Ceramic material resin firing furnace with afterburner by KEPKA GROUP

**More details:** </equipment/piec-do-wypalania-zywicz-materiaow-ceramicznych-z/>

**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, 1:43 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 with a significant proportion of organic materials.

**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](https://acmin.agh.edu.pl/home/acmin/5_Wspolpraca/Aparatura/Zasady_i_koszty_korzystania_z_infrastruktury_badawczej_ACMiN.pdf))