

OPENING FURNACE 1300°C TESTING MACHINE



AET
TECHNOLOGIES

Our solution for replacing mechanical test furnaces can work above 1100°C (the current limit for furnaces with long cycle times), as well as cold, thanks to its double-hinged support with independent angle adjustment.



ABOUT US

AET Technologies is the European leader on the hot mechanical testing market.

Our engineering know-how concerning heating and mechanical transfer, management of gases-atmospheres as well as vacuum, automatism and regulation allows us to give you a perfect answer adapted to your needs.

Autonomous or integrated furnaces, dedicated to production or to R&D, we deliver turnkey equipment, thanks to unique engineering and recognized experience.

David D'ATTOMA
Chief Sales Officer



A turnkey equipment

Adaptable on all creep machines with minimum centre spacing (250mm for diameter of 50mm) between columns



Standards for hot mechanical testing

This furnace meets the requirements of the various standards for hot mechanical testing (creep, tension, compression).



Removable heating elements

Lanthanum chromite heating elements can be replaced without disassembly of the load column thus insuring test continuity.



Let's innovate together to reinvent today's materials and discover tomorrow's.

AET GROUP

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OPENING FURNACE 1300°C TESTING MACHINE

A technical solution that can be supplied in 230V single-phase or 400V three-phase, without a transformer.



Made in France



After-sales service



Recognition of excellence

Key elements

DOUBLE-HINGED OVEN SUPPORT WITH INDEPENDENT ADJUSTMENT

Frees up working space (load columns) for cold testing and specimen instrumentation.

EXTENSOMETER PASSAGE

Compatible with contact extensometers: axial or transverse mounting.

INNOVATIVE TECHNOLOGY

The result of unique R&D work, lanthanum chromite technology is the property of AET Technologies.

100% NON-CARCINOGENIC MATERIALS

Eliminates the risk of user exposure to a hazardous dangerous substance (Directive 97/69/EC).



Technical specifications

- 1300°C continuous
- Maximum heating speed 20°C/min
- Regulation stability <2°C
- Natural cooling speed
- Compatible with axial contact extensometer
- Power from 4kW to 6.5kW
- Temperature control on the furnace or on the test piece
- 3 heating zones controlled by setpoint offset
- Dimensions depending on model :
- HMI interface: 7-inch colour touch screen
- USB panel for CSV file, Ethernet connection

| PRODUCT | Section size (L x W) mm | Heated height uniform (mm) | Heated height (mm) | Height overall (mm) | Width closed furnace (mm) | Minimum width open furnace (mm)* | Supply voltage (V) | Power (kW) |
|------------------|-------------------------|----------------------------|--------------------|---------------------|---------------------------|----------------------------------|--------------------|------------|
| FUO-1300-250-75 | 75x75 | 90 | 250 | 360 | 260 | 355 | 230 ou 400 | 4 |
| FUO-1300-310-75 | 75x75 | 150 | 310 | 420 | 260 | 355 | 230 ou 400 | 4 |
| FUO-1300-310-120 | 120x120 | 110 | 310 | 420 | 340 | 420 | 230 ou 400 | 6.5 |
| FUO-1300-370-120 | 120x120 | 170 | 370 | 480 | 340 | 420 | 230 ou 400 | 6.5 |

*Cross-section dimensions for 20° opening angle. Opening 90° max.



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