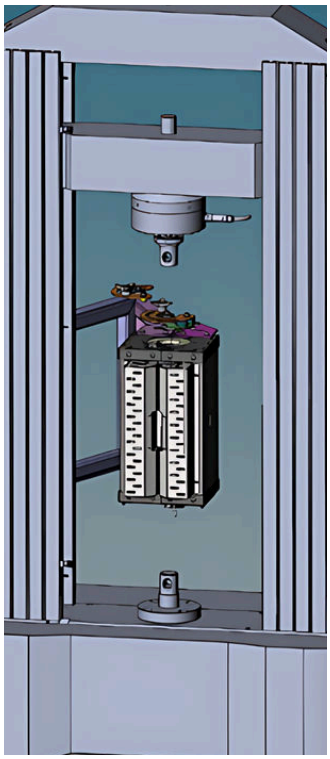
UNIVERSAL OPENING FURNACE 1300°C for tests machines and other applications

AET TECHNOLOGIES

This range of openwork furnaces can be integrated into all mechanical test machines, allowing continuous operation at temperatures up to 1300°C. Thanks to its double hinge support adjustable in height, the furnace can be easily handled by the user during sample assembly/disassembly on the load column, cold testing, calibration or maintenance.



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, automatisms 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

Compact and comprehensive equipment

Thanks to its small footprint, this furnace is suitable for all testing machine on the market. It is compatible with axial and transverse contact extensometers.

Standards for hot mechanical testing

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

Removable heating elements

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

AET GROUP

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

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UNIVERSAL OPENING FURNACE 1300°C
for tests machines and other applications

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.

SUITABLE FOR ALL MECHANICAL TESTING MACHINES
Can be installed on electromechanical or dynamic testing machines.

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 (1500°C on request)
- Maximum heating speed 20°C/min
- Regulation stability <2°C
- Natural cooling speed
- Compatible with axial contact extensometer
- Load column opening: Ø60 mm
- Power: 4kW or 6.5kW
- Temperature control on the furnace or on the test piece
- 3 heating zones controlled by setpoint offset
- HMI interface: 7-inch colour touch screen
- Ethernet connection TCP/IP

PRODUCT	Usable area 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 or 6.5
FUO-1300-310-75	75x75	150	310	420	260	355	230 ou 400	4 or 6.5
FUO-1300-310-120	120x120	110	330	420	340	420	230 ou 400	4 or 6.5
FUO-1300-370-120	120x120	170	390	480	340	420	230 ou 400	4 or 6.5

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

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STANDARD EQUIPEMENT

Resistive furnace with 3 independent zones
Temperature control on the furnace or directly on the specimen.
Thermocouple type “S”.
Heating element: ceramic resistor, $LaCrO_3$ type.
Multi-layer thermal insulation with “non-classified” materials.
Supplied with one set of thermal plugs.
Furnace support with dual hinges and independent angle adjustment.
Control cabinet: table-top or wall-mounted version, IP20.
Independent furnace overtemperature safety (threshold detector and measurement chain).
Furnace control and regulation via 7-inch color touchscreen HMI panel with Ethernet ports.

PRODUCT	Usable area 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)	Ex-works price in € (excl. VAT)
FUO-1300-250-75	75x75	90	250	360	260	355	230 ou 400	4 or 6.5	28 300
FUO-1300-310-75	75x75	150	310	420	260	355	230 ou 400	4 or 6.5	29 200
FUO-1300-310-120	120x120	110	330	420	340	420	230 ou 400	4 or 6.5	
FUO-1300-370-120	120x120	170	390	480	340	420	230 ou 400	4 or 6.5	

AVAILABLE OPTIONS

OPTIONS	DESCRIPTION	Ex-works price in € (excl. VAT)
Spare parts	Heating elements, coupling braids, and thermocouples.	Available on request
Thermal plugs	Set of two thermal plugs machined to match the diameter of the load column.	230
Custom electrical cabinet	Based on your specific needs and the design of your creep testing machine, we offer a dedicated study for the design and manufacturing of a custom control cabinet with optional functions (elongation measurement, specimen instrumentation).	Available on request
Hot opening	Hot opening system for positioning the furnace onto the specimen once the nominal temperature is reached.	Available on request
Standard commissioning	Assembly, commissioning, and functional testing up to nominal temperature on specimen, including training (travel expenses not included).	Available on request

*Our prices and delivery times are subject to change without prior notice. Only written orders confirmed in writing by AET Technologies are binding. Technical specifications are provided for information purposes only; we reserve the right to make any necessary modifications. This document supersedes and replaces all previous versions. Prices shown are valid as of 01/01/2024.

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