

# UNIVERSAL TUBULAR FURNACE MULTI-PROCESS 1500°C



This universal multi-process tubular furnace stands out for the unrivalled quality of the results it delivers. It is particularly suited to demanding research laboratories seeking a highperformance, reliable solution that is compatible with longduration thermal testing and heat treatment. The quality and robustness of its construction ensure a long service life, low maintenance requirements and ease of use.



## A PROPOS

Pyrox Thermique Matériaux specialises in the design and manufacture of electric laboratory furnaces.

The expertise acquired over many years has made it the leading French manufacturer of laboratory furnaces.

Building on this expertise, Pyrox Thermique Matériaux has been supporting major players in industry and research for over 50 years.

David D'ATTOMA  
Sales Director



### A modular universal tubular furnace

This vertical or horizontal multi-process tubular furnace has been designed for complete modularity. By adding a process tube tailored to specific requirements (temperatures, atmospheres and loads), this furnace can be configured in a range of different versions.



### A high-performance control system

Our system enables: rapid and precise response, temperature stability ( $\pm 1^\circ\text{C}$ ), reduced errors and optimised energy consumption. Helping to improve your products.



### 7-inch colour touchscreen

This control system provides comprehensive management of the equipment. It offers users user-friendly and secure control, parameter setting, data acquisition and archiving of process data.



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

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# UNIVERSAL TUBULAR FURNACE

## MULTI-PROCESS 1500°C

A universal multi-process tubular furnace delivering unrivalled results, ideal for research laboratories carrying out demanding tests and heat treatments.



Made in France



After - sales service



Recognition of excellence

### Key features

- 1500°C Max. temperature / Type S thermocouple
- 1 or 3 heating zones
- 50–85 mm internal effective diameter
- Max. power: 4 kW single-phase, 8 kW three-phase
- Gas options: up to 3 neutral gas lines (air, nitrogen, argon, helium); option for other gases (H<sub>2</sub>)
- Vacuum options: primary, secondary
- Temperature uniformity  $\pm 5^\circ\text{C}$
- Single-zone or three-zone (load instrumentation TC option)
- Thermal screens tailored to process requirements
- HMI interface: 7-inch colour touchscreen
- Rear USB port for CSV files, Ethernet connection
- Vertical mounting available



### Technical specifications\*

| Réf*                | Number of heating zones | Max. temp. °C *** | Internal diameter Ø | Heated length (mm) | Heating rate with alumina tube (°C/min) | Minimum tube length process under air (mm) | Process tube length under atmosphere (mm) | External dimensions: W x H x D (mm) without tube** | External dimensions: W x H x D (mm) with tube** | Uniform length (mm) $\leq \pm 5^\circ\text{C}$ | Max. power (kW) | Mains voltage                | Furnace weight ** (kg) |
|---------------------|-------------------------|-------------------|---------------------|--------------------|-----------------------------------------|--------------------------------------------|-------------------------------------------|----------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------|------------------------------|------------------------|
| UTFV-1500-01-150-50 | 1                       | 1500              | 50                  | 150                | 5                                       | 400                                        | 850                                       | 460 x 400 x 560                                    | 460 x 900 x 560                                 | > 50                                           | 4               | 230V (1 phase + N + T) 50Hz  | 30                     |
| UTFV-1500-01-300-50 | 1                       | 1500              | 50                  | 300                | 5                                       | 550                                        | 1000                                      | 460 x 550 x 560                                    | 460 x 1050 x 560                                | > 100                                          | 4               | 230V (1 phase + N + T) 50Hz  | 35                     |
| UTFV-1500-01-450-50 | 1                       | 1500              | 50                  | 450                | 5                                       | 700                                        | 1150                                      | 560 x 700 x 560                                    | 560 x 1200 x 560                                | > 300                                          | 8               | 400V (3 phases + N + T) 50Hz | 65                     |
| UTFV-1500-03-450-85 | 3                       | 1500              | 85                  | 450                | 5                                       | 700                                        | 1150                                      | 560 x 700 x 560                                    | 560 x 1200 x 560                                | > 300                                          | 8               | 400V (3 phases + N + T) 50Hz | 65                     |
| UTFV-1500-03-600-85 | 3                       | 1500              | 85                  | 600                | 5                                       | 850                                        | 1300                                      | 560 x 850 x 560                                    | 560 x 1350 x 560                                | > 450                                          | 8               | 400V (3 phases + N + T) 50Hz | 70                     |

\* Subject to technical changes

\*\* Without electrical control box

\*\*\* Also available in 1300°C and 1700°C versions



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