



## **Tube Furnace LD-LTF-D10**

**Labodam Equipment Ltd.**

**[info@labodam.com](mailto:info@labodam.com) | [www.labodam.com](http://www.labodam.com)**

# Tube Furnace LD-LTF-D10

## Overview

Three Zonal Tube Furnace is software based PID controlled device which offers 3 internally separated heating zone within one furnace which allows easy positioning of work tube. It is equipped with LCD display, thermal shock resistant tubes and 50 mm inner tube diameter. Fe Cr Al Resistance Wire is used as heating element and K-type thermocouple tube furnaces are mostly used in heat treatment processes, including annealing, hardening, and tempering of metals and alloys.

## Features:

- Software based PID controller
- Three hot zone length of 120 mm
- Homogeneous temperature distribution
- Thermal shock resistant tubes
- Purge system and gas inlet optional

## Applications:

Tube furnace is used for purification, coating, drying, hardening or ageing of samples, for annealing, brazing, calcination, degassing, sintering, soldering, sublimation, synthesis, and tempering, thermocouple calibration, in the testing of fuel cells, or in catalyst research.

## Specifications:

|                 |                             |
|-----------------|-----------------------------|
| Power           | 2500 W                      |
| Control         | Software Based PID Control  |
| Display         | 4x20 LCD                    |
| Software        | Software versions available |
| Net Weight      | 33 kgs                      |
| Tube Length     | 600 mm                      |
| Gross Weight    | 45 kgs                      |
| Heating Rate    | 3-20°C/min                  |
| Max. Current    | 10 A                        |
| Heating Element | Fe Cr Al Resistance Wire    |
| Heating Program | 4 steps                     |
| Housing Coating | Epoxy powder coating        |
| Hot zone length | 3 x 120 mm                  |

|                                           |                                                                     |
|-------------------------------------------|---------------------------------------------------------------------|
| <b>Housing Material</b>                   | Steel sheet                                                         |
| <b>Thermocouple Type</b>                  | K Type                                                              |
| <b>Measurement Accuracy</b>               | ±1°C                                                                |
| <b>Tube Inner Dimension</b>               | 50 mm                                                               |
| <b>Tube outer Dimension</b>               | 60 mm                                                               |
| <b>Custom Preset Program</b>              | 4                                                                   |
| <b>Inner Insulation Material</b>          | Ceramic Fiber Blanket                                               |
| <b>Tube Material Description</b>          | Type C610 (DIN VDE 0335) Al <sub>2</sub> O <sub>3</sub> content 60% |
| <b>Gross Dimensions W x L x D</b>         | 900 x 500 x 650 mm                                                  |
| <b>Temperature Control Accuracy</b>       | ±1°C                                                                |
| <b>Product Outer Dimensions W x D x H</b> | 740 x 380 x 475 mm                                                  |
| <b>± 10°C Homogeneous Hot Zone Length</b> | 150 mm                                                              |