

# Vertical Tube Furnace (+1200°C)

Serving the Scientific, Medical and Research industries since 1945

**LABEC**

**LABEC Vertical Tube Furnaces** are manufactured in Australia with highest quality components for laboratory, commercial and research purposes. The exterior is manufactured from stainless steel for easy maintenance and excellent durability, whilst the double skinned construction keeps the exterior cool at high temperatures. The inner material is fibre board and provides excellent thermal stability.

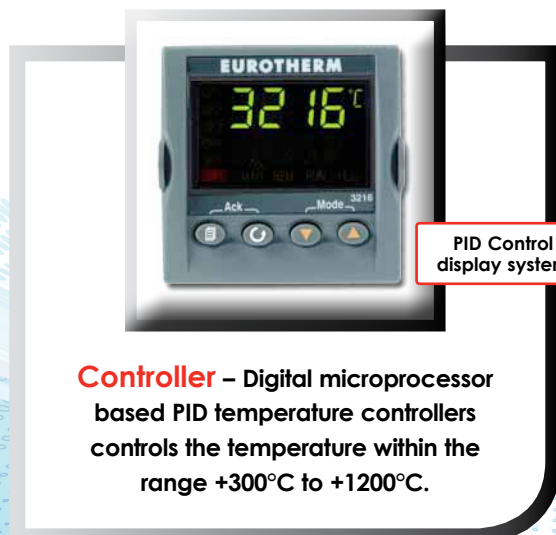
The furnace features light weight ceramic fibre insulation which enables rapid thermal cycling and heating is by electric embedded elements. The Vertical tube furnaces are available in single or multiple heating zones with independent zone control available on each zone. Policeman safety controllers with independent thermocouples can be fitted. An extensive range of tube diameters are available, ranging from 40mm to 300mm with varying heated length zones available up to 2000mm length.

**Custom models are available upon request.**



## Features include:

- RCD/ ELB (earth leakage breaker).
- Type N Thermocouple.
- Stainless Steel exterior.
- Over Temperature Alarm Cut Off.



## Data logging

The controller can be supplied with RS232/RS485 communication ports which can be connected directly to a data logger or computers to collect information. Software is available for programming and monitoring.

## Additional options

To suit your requirements the addition of options such as programmable controllers, timers and cable access ports are also available.



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Model	VTF40/12	VTF50/12	VTF60/12	VTF70/12	VTF80/12	VTF90/12
Length (mm)	500	600	600	750	750	1000
Heated Length (mm)	450	540	540	690	690	900
Int. Diameter (mm)	40	50	60	70	80	90
Temp. Max	1200°C					
Temp. Setting Accuracy	1°C					
Temp. Fluctuation	+/- 5%					
Temp. Sensor	Type N					
Heating System	Electric Element					
Interior Material	Light Weight Ceramic Fibre					
Exterior Material	Stainless Steel					
Options	Cable entry port, timer, programmable controller, custom diameter tubes, single or multiple heat zones, high temperature models RS232 connection.					
Safety Features	Over Temperature Alarm, temperature protection cut off, earth leakage breaker (ELB)					
Power (W)	1500	2000	2200	2400	3000	3600
Weight (kg)	16	19	23	25	27	31

**SEAL CAP SYSTEM (TUBE FURNACES)** - Designed for atmospheric control, these sealing caps are specifically manufactured for high temperature tube furnaces.

**Features:**

- Made of 304 grade Stainless Steel with double high temperature silicone O-rings (300°C Max) on each flange.
- One end flange has a vacuum gauge with adjustable valve, and another end has an adjustable valve.
- Seal the tube by tightening the screws on the flange without the need for any welding or glue.
- The vacuum sealing assembly will connect to rubber hose.
- Excellent for any type of tubing: ceramic, glass, quartz and steel pipe.
- Standard sizes are 25mm, 40mm-42mm, 50mm, 57mm-60mm, 76mm, 80mm-82mm, 101mm, 114mm and 152mm.
- Customized size assembling is available upon request.
- Each set includes: one flange with gauge and valve, one flange with valve, two steel sealing rings, four high temperature silicone O-rings (300°C Max), and six screws.

