

SPLIT TUBE FURNACE (+1200°C)

LABEC Spilt Tube Furnaces are manufactured with the highest quality components for laboratory, commercial and research purposes. Designed to suit applications such as mechanical testing apparatus with a hinged design for simple insertion of the working tube.

The exterior is manufactured from powder coated 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.

Digital microprocessor based PID temperature controllers controls the temperature within the range ambient +300°C to +1200°C The controller can supplied with RS232/RS458 communication ports which can be connected directly to a data loggers or computers to collect information.

The furnace features light weight ceramic fibre insulation which enables rapid thermal cycling

and heating is by electric embedded elements. The Spilt 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.

The spilt tube furnace models can be custom-fit to your needs with a variety of extras such as various working tubes of different materials to protective gas or vacuum operation. For optimum temperature distribution, all furnaces are also available as three-zone tube furnaces with modern PLC controls. The heat loss at the ends of the tube is compensated using this three-zoned control, and a longer uniform zone is the result.



Serving the Scientific, Medical and Research industries since 1945

LABEC

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SPECIFICATIONS

SPLIT TUBE FURNACE (+1200°C)

| Model | VTFS40-300/12 | VTFS40-450/12 | VTFS60-300/12 | VTFS60-450/12 | VTFS80-300/12 | VTFS80-450/12 | VTFS100-450/12 |
|------------------------|-------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Int. Dim.(mm) Dia | 40 | 40 | 60 | 60 | 80 | 80 | 100 |
| Heated Length (mm) | 300 | 450 | 300 | 450 | 300 | 450 | 450 |
| Temp. Min | 300°C | | | | | | |
| Temp. Max | 1200°C | | | | | | |
| Temp. Control | Programmable Controller | | | | | | |
| Temp. Setting Accuracy | 1°C | | | | | | |
| Uniform Heat Zone | +/- 5% | | | | | | |
| Heating Rate | 0-10°C / min (suggestion = < 10°C) | | | | | | |
| Interior Material | Light Weight Ceramic Fibre | | | | | | |
| Exterior Material | Powder Coated Steel or Stainless Steel | | | | | | |
| Options | Custom diametre tubes, single or multiple heat zones, higher temperature models. | | | | | | |
| Safety Features | Over temperature Alarm, temperature protection cut off, earth leakage breaker (ELB) | | | | | | |
| Power (W) | 2400 | 2400 | 3600 | 3600 | 3600 | 3600 | 4800 |
| Power Supply (AMPS) | 10AMPS | 10AMPS | 15AMPS | 15AMPS | 15AMPS | 15AMPS | 20AMPS |
| Weight (kg) | 70 | | 75 | | 80 | | 85 |

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