

Large vertical split tube furnace - KVT / KVZ

General Information

The KVT / KVZ vertical split tube furnaces have been designed for use with large work tubes or reactor vessels up to 200 mm outer diameter.

The furnace body is hinged and split into two along its length and is held closed with over-centre clamps providing easy access to reactors or work tube. These furnaces can be used for many applications such as heating reactors in pilot plant or the manufacture of plastic parts in the automotive industry.

The large diameter of the K range furnaces is perfect for heat treatment of wafers and fuel cells. Extended length work tubes of 200 mm diameter are possible in quartz and APM.



Standard features

- 1200 °C maximum operating temperature
- Single zone models fitted with Carbolite Gero 301 PID controller with single ramp to setpoint and process timer
- 3-zone models fitted with 1 x Carbolite Gero 301 PID controller and 2 x 2132 slave end zone controllers
- To suit work tubes or work pieces up to an outside diameter of 200 mm
- Heated length of 600 or 1200 mm
- Furnace splits into two halves to accommodate work tubes or samples fixed into a test rig
- Wire elements in high quality vacuum formed insulation ensure fast heat up, excellent temperature uniformity and short cool down times

Options (specify these at time of order)

- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications
- 300 mm diameter on request

Technical Specifications

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KVT 12/200/600

Max temp (°C)	1200
Number of heated zones	Single zone
Heated length (mm)	600
Dimensions: Max outer diameter accessory tube (mm)	200
Dimensions: External furnace (mm)	1690 x 800 x 940
Tube length for use in air (mm)	1100
Tube length for use with modified atmosphere (mm)	1300
Dimensions: Control module H x W x D (mm)	225 x 570 x 380
Max power (W)	8000

KVZ 12/200/600

Max temp (°C)	1200
Number of heated zones	Three zone
Heated length (mm)	Left zone = 200 Centre zone = 200 Right zone = 200
Dimensions: Max outer diameter accessory tube (mm)	200
Dimensions: External furnace (mm)	1690 x 800 x 940
Tube length for use in air (mm)	1100
Tube length for use with modified atmosphere (mm)	1300
Dimensions: Control module H x W x D (mm)	225 x 570 x 380
Max power (W)	8000

KVZ 12/200/1200

Max temp (°C)	1200
Number of heated zones	Three zone
Heated length (mm)	Left zone = 400 Centre zone = 400 Right zone = 400
Dimensions: Max outer diameter accessory tube (mm)	200
Dimensions: External furnace (mm)	2300 x 800 x 940
Tube length for use in air (mm)	1700
Tube length for use with modified atmosphere (mm)	1900
Dimensions: Control module H x W x D (mm)	225 x 570 x 380
Max power (W)	18000

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Please note:

- Heat up rate when using an optional ceramic work tube must be limited to 5 °C/min
- Maximum continuous operating temperature is 100 °C below maximum temperature