

tube furnaces



Showing versatile stand for vertical and/or horizontal use



Showing wall mounting brackets

GVA models

The GVA range of vertical tube furnaces have a maximum operating temperature of 1200°C and a tube diameter ranging from 19.5 to 150mm id. An integral worktube is not fitted as standard, but is needed and therefore a worktube must be ordered separately.

Heating is provided by resistance wire heating elements, semi-embedded in rigidised vacuum formed low thermal mass insulation modules, models are available in seven heated lengths from 300 - 1200mm. These elements give both long life and rapid heat up times to operating temperature. Removable tube adapters are available that allow rapid changes for different size worktubes if required.

All of our tube furnaces can be adapted to allow a non-oxidising atmosphere or vacuum, if required, by fitting an additional worktube and end seals (see page 44 for details).

This furnace range is supplied with a versatile stand kit, which allows the furnace to be mounted vertically on a stand or wall mounted, or bench mounted horizontally (shown left), all using the separate control box

Applications include testing of novel materials under strict temperature & various atmosphere conditions, testing electronic components and semiconductor materials under inert atmospheres or vacuum, testing of temperature sensors such as thermocouples and PT100's, which may require enhanced thermal uniformity, as well as many other applications requiring rapid accurate heat up with the option for an atmosphere.

Vertical Tube Furnaces	GVA 12/300	GVA 12/450	GVA 12/600	GVA 12/750	GVA 12/900	GVA 12/1050	GVA 12/1200
Max. Temperature (°C)	1200	1200	1200	1200	1200	1200	1200
Continuous Temperature (°C)	1100	1100	1100	1100	1100	1100	1100
Maximum o/d of separate worktube (to hold sample) (min 20mm)	170	170	170	170	170	170	170
Separate worktube length required:							
heating in air (mm)	500	650	800	950	1100	1250	1400
heating in atmosphere (mm)	900	1050	1200	1350	1500	1650	1800
Heated length (mm)	300	450	600	750	900	1050	1200
Overall furnace length (mm)	480	630	780	930	1080	1230	1380
Versatile mounting: L stand / Wall bracket	✓	✓	✓	✓	✓	✓	✓
Thermocouple type	N	N	N	N	N	N	N
Max Power (W)	2340	3120	3900	4680	5460	6240	7020
Holding power (W)							
Weight (kg)	~	~	~	50	57	68	~
External Dimensions:							
H (mm)	1345	1418	1418	1793	1860	1943	2018
W (mm)	468	468	468	468	468	468	468
D (mm) Depth includes stand	662	662	662	662	662	662	662
Clearance under furnace:							
min & max (mm)	251-778	177-702	177-550	177-777	100-702	26-627	26-551
V model control box dimensions:							
H x W x D 222 x 570 x 375 (mm)	✓	✓	✓	✓	✓	✓	✓

1) Holding power is measured at 100°C below max. temperature, based on 240V supply, with an empty chamber.

2) Uniformity graphs are available on request, for most models.

3) Heat up time is measured at 100°C below max. temperature with an empty tube.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.