

The GVA tube furnaces use free radiating wire elements embedded within the insulation of the furnace body. The benefit of this design is its flexibility; with the use of tube adapters the same furnace can be used with a variety of tube diameters.

This range of tube furnaces does not include an integral work tube and one must be selected as an additional item. The work tube length is dependent on the application eg for use with modified atmosphere or vacuum. This information can be found on pages 92-93.

The use of a separate work tube has the advantage of protecting the heating elements from damage or contamination.



GVA 12/600

Standard features

- 1200°C maximum operating temperature
- Accepts work tubes with outer diameters up to 170 mm
- Heated lengths of 300, 450, 600, 750, 900, 1050 or 1200 mm
- Removable tube adapters simplify working with different tube diameters
- Long life, rapid heating, resistance wire elements mounted in rigid, vacuum formed insulation modules
- Supplied with versatile stand for vertical, wall mounted and horizontal use
- Control module with 2 metre conduit to furnace
- Carbolite 301 PID controller with single ramp to setpoint and process timer

Options (specify these at time of order)

- Wide choice of tube diameters and materials is available: eg quartz, ceramic, metal. See pages 92-93 for tube materials and dimensions
- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- Available without stand (comprising control module & furnace body)
- Insulation plugs & radiation shields to prevent heat loss & improve uniformity
- Modified atmosphere and vacuum assemblies are available (see page 95)
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications (see pages 88-91)

Technical data

Model	Max temp (°C)	Max continuous operating temp (°C)	Dimensions: Max outer diameter accessory tube (mm)	Dimensions: Heated length (mm)	Dimensions: Furnace body length (mm)	Tube length for use in air (mm)	Tube length for use with modified atmosphere (mm)	Dimensions: External Furnace body (inc stand) H x W x D (mm)	Dimensions: Control module H x W x D (mm)	Dimensions: Clearance under furnace (mm)	Max power (W)	Thermocouple type	Weight (kg)
GVA 12/300	1200	1100	170	300	480	500	900	1345 x 468 x 662	225 x 600 x 380	251 to 778	2300	N	73
GVA 12/450	1200	1100	170	450	630	650	1050	1418 x 468 x 662	225 x 600 x 380	177 to 702	3100	N	87
GVA 12/600	1200	1100	170	600	780	800	1200	1418 x 648 x 662	225 x 600 x 380	177 to 550	3900	N	95
GVA 12/750	1200	1100	170	750	930	950	1350	1793 x 468 x 662	225 x 600 x 380	177 to 777	4600	N	100
GVA 12/900	1200	1100	170	900	1080	1100	1500	1860 x 468 x 662	225 x 600 x 380	100 to 702	5400	N	110
GVA 12/1050	1200	1100	170	1050	1230	1250	1650	1943 x 468 x 662	225 x 600 x 380	26 to 627	6200	N	120
GVA 12/1200	1200	1100	170	1200	1380	1400	1800	2018 x 468 x 662	225 x 600 x 380	26 to 551	7000	N	130

i Please note:
- Heat up rate is measured to 100°C below max, using an empty tube & insulation plugs



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

