



tube furnaces



HVT 12/60/700

Vacuum Tube Furnaces

This range of 1200°C and 1500°C horizontal vacuum tube furnaces, offers vacuum levels of better than 10^{-5} mbar with a clean empty worktube.

The vacuum system and all controls are housed in the base with one end of the worktube joined to the vacuum system via a stainless steel radiused bend. Access to the tube is via the other end which is fitted with a removable stainless steel flange. Radiation shields are provided for both ends of the furnace to ensure maximum temperature uniformity with minimum loss of pumping speed.

These furnaces include two stage sliding vane rotary pump, water cooled oil diffusion pump, high vacuum baffle valve, roughing/backing valve(s) and Pirani and Penning gauges.

A number of special options is available including gas systems, automatic/semi-automatic vacuum systems, air cooled diffusion pump, cooling water failure alarm, special vertical and custom built designs.

| Model | HVT 12/50/550 | HVT 12/60/700 | HVT 12/80/700 | HVT 15/50/450 | HVT 15/75/450 |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|
| Max. Temperature (°C) | 1200 | 1200 | 1200 | 1500 | 1500 |
| Continuous Temperature (°C) | 1100 | 1100 | 1100 | 1400 | 1400 |
| Tube Inside Diameter (mm) | 50 | 60 | 80 | 50 | 75 |
| Heated Length (mm) | 550 | 700 | 700 | 450 | 450 |
| Max. Power (W) | 2000 | 3000 | 3500 | 5500 | 5500 |
| Holding Power (W) | 1600 | 1800 | 2800 | 4800 | 4800 |
| External Dimensions: | | | | | |
| H (mm) | 1450 | 1450 | 1450 | 1565 | 1565 |
| W (mm) | 1700 | 1700 | 1700 | 1700 | 1700 |
| D (mm) | 600 | 600 | 600 | 600 | 600 |

- 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.
- 4) Extra information on Uniformity and heat up rate is available on request, due to information varying with application