

# PVT High Temperature Vertical Tube Furnaces

## Standard features

- ✓ 1800°C maximum operating temperature
- ✓ Utilising lanthanum chromite elements (these generally achieve slower heating rates than other element materials)
- ✓ Using worktubes with maximum outer diameters of 60, 90, 115 or 140mm
- ✓ Heated lengths of 200mm or 350mm
- ✓ Vertical (only) configuration using the 'L' stand assembly
- ✓ Separate control module on 2 metre conduit
- ✓ 8 Segment programmable controller incorporating over-temperature protection

## Options

*specify these at time of order*

- ✦ Insulation plugs & radiation shields to prevent heat loss & improve uniformity (strongly recommended for vertical tubes)
- ✦ Gas injection & vacuum compatible tube end, seal assemblies
- ✦ 20 segment programmer
- ✦ RS232 communications & graphical recorders
- ✦ Alternative furnace sizes can be supplied upon request



PVT 18/125/350 (with custom shortened stand)

For slower heating, high temperature applications requiring a vertically orientated tube furnace body, which accepts RCA (recrystallised alumina) accessory worktubes.

*Requires but does not include an appropriate RCA (recrystallised alumina) accessory worktube 19.5mm to either 60mm, 90mm, 115mm or 140mm outer diameter, depending on the model.*

**Note:** Lanthanum chromite elements may give off small amounts of chromium vapour in use, which can cause contamination or slight pink colouration when work is carried out without the use of a worktube.

Model	Max temp (°C)	Heat-up time (mins)	Dimensions				Furnace body length (mm)	Max power (W)	Thermo-couple type	Weight (kg)	Power supply
			Max o/d accessory tube (mm)	Heated tube length (mm)	External Furnace						
					H x W x D (mm)	Control module H x W x D (mm)	Holding power (W)				
PVT 18/50/200	1800	Rate will vary with state of oxidation and age of elements	60	200	850 x 700 x 810 222 x 570 x 375	-	5500 4000	2‡	270	2 phase or 3 phase	
PVT 18/75/350	1800		90	350	1000 x 700 x 810 222 x 570 x 375	-	9000 5000	2‡	300	3 phase	
PVT 18/100/350	1800		115	350	1000 x 700 x 810 222 x 570 x 375	-	6000 5000	2‡	400	3 phase	
PVT 18/125/350	1800		140	350	1000 x 700 x 810 222 x 570 x 375	-	9300 7000	2‡	500	3 phase	



Continuous operating temperature is 100°C below maximum temperature.

Holding power is measured at the continuous operating temperature.

Uniform length measured with end plugs fitted.

‡A Carbolite proprietary thermocouple design.



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.