

RTP-1SS  
RTP-1SV

Specifications			
Model		RTP-1SS	RTP-1SV
Furnace Structure	- Double layer Aluminum or Steel casing with air cooling keeps furnace surface temperature lower than 70°C. - Without any extra insulating	✓	✓
Heating Elements	- 4 pcs 1Kw Halogen light tube, ( Dia. =10mm, L=190mm, Heated Length =225mm) - Standard working life: 2000 hrs. (depending on heating rate) - The Halogen light tube is consumable.	✓	✓
Heating Zone	150 mm length with 100 mm constant temperature zone within $\pm 5^\circ\text{C}$ uniformity	✓	✓
Working Temperature	1000° C Max. for < 10 minutes (Note: if running longer time, furnace case will >100 °C, must use fan cooling case from outside) 700° C Max. for < 30 minutes 600° C Max. for < 120 minutes 500° C Max. for Continuous use	✓	✓
Max. Heating Rate	900 ° C/min	✓	✓
Cooling Rate	Max. Cooling: 250° C/min	✓	✓
Temperature Controller	Proportional-Integral-Derivative (PID) controller	✓	✓
Quartz Tube & Sample Holder	Quart Tube Size: 38 mm O.D x 36 mm I.D x 225 mm Length. The sample holder is removable from the flange for using the RTP furnace for other purposes.  ** <i>Optional</i> : Graphite sample holder for annealing samples up to 1.4 cm Dia. Graphite has a very high thermal conductivity which provides very good temperature uniformity in the sample area.	✓	✓
Max sample size	14 x19 mm <sup>2</sup> ( for direct use without sample holder: smaller than quartz tube diameter)	✓	✓
Flow-meter	One flow meter is installed on the front panel for adjusting gas flow from 16-160 ml/min	optional	optional
Safety	Thermal Safety system for auto-deactivate setup as the temperature of setup body increase more than acceptable temperature	✓	✓
Accessories	Vacuum pump, Vacuum Gage	-	✓
Power Input	220 AC, 50 Hz single phase or 3 phase (25 A)V		
Atmosphere		Air, Gas static, Gas flow	Vacuum about 10 <sup>-3</sup> torr (up to 10 <sup>-6</sup> torr by user request), Gas static, Gas flow