

GSL-1100X6 Bench-top Vacuum Tube Furnace

Introduction

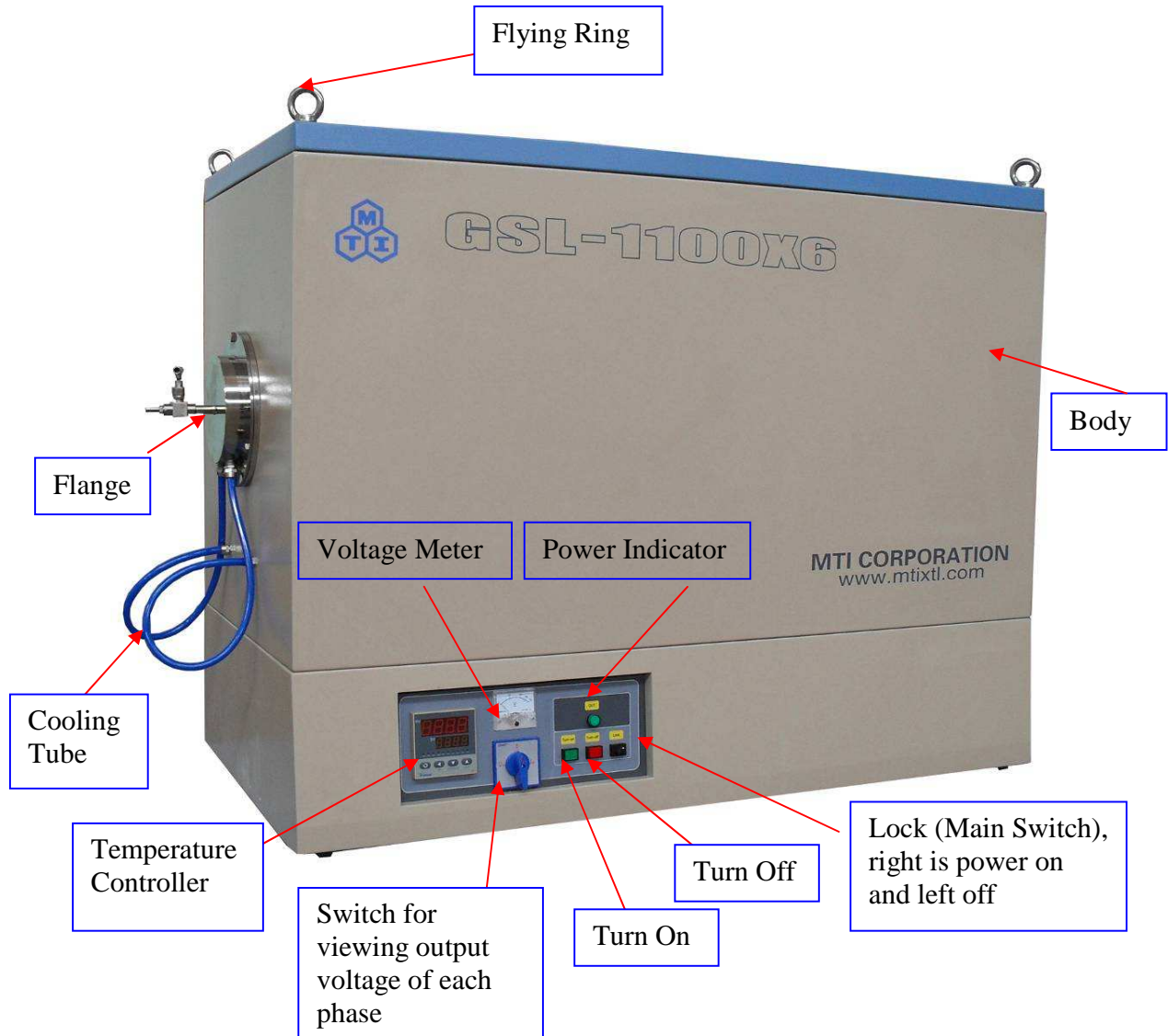
GSL1100X6 is a precision bench-top 5.7" I.D quartz tube furnace with vacuum flange. It is widely used for materials or chemical lab to sinter all types of new materials samples and anneal 4" semiconductor wafer under vacuum or other gases condition. The temperature of GSL1100X6 tubing furnace is controlled by a high precision controller with accuracy +/-1 °C and 30 segments programmable up to 1100 °C.

Specification

Item	Parameter
Furnace Structure	<ul style="list-style-type: none"> • Double layer steel casing with air cooling. • Two cooling fan inside to keep temperature of outside case < 70°C • High purity alumina fibrous insulation for max energy saving • Optional water cooling flange
Power	8 KW (50A breaker required)
Voltage	<ul style="list-style-type: none"> • AC 208-240V Single Phase, 50/60 Hz • Three phase 380V/440V 50 Hz (optional)
Max. Temperature	1100°C
Continuous Temperature	400~1050 °C
Max. Heating Rate	≤ 25 °C /min
Suggested Normal Heating Rate	≤ 10 °C /min
Tube Size and Materials	6" O.D x 5.7" I.D x 51" Length (150 mm x 140 mm x 1300mm); Quartz Tube with two end open
Constant Temperature Zone	350 mm within +/-1 °C (Hot Zone +/-2 °C at 1100 °C)
Temperature Controllers	PID automatic control via SCR (Silicon Controlled Rectifier) power control, 30 steps programmable
Temperature Accuracy	±1 °C
Vacuum Seal Kit	<ul style="list-style-type: none"> • one pair of stainless steel vacuum seal flange with one vacuum gauge and two valves 1/4" hose fitting • Water cooling flange available as optional • Vacuum pressure limit: depended on vacuum pump (usually 10⁻² torr by mechanical pump)
Heating Elements	Ni-Cr-Al Alloy
Dimension	1300 L x 670 W x 1060 H mm
Warranty	One year but excluding quartz tube, heating

	element or ceramic tube damaged by user
Net Weight	220 kg

Structure



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