Optical Floating zone furnace

Model: FZ-T-4000-H-VIII-VPO-PC



Optical floating zone furnace



Crystal Systems Corporation

9633-1 Kobuchisawa , Hokuto , Yamanashi 408-0044 Japan Tel:+81-551-36-5271 Fax:+81-551-36-5273 http://www.crystalsys.co.jp/ e-mail: csc@crystalsys.co.jp

Specification

Model		FZ-T-4000-H-VIII-VPO-PC		
Type of lamp			Halogen lamp	
Number of lamp & mirror			Mirror: 4 pieces	
		Lamp: 4 pieces		
Atmosphe	ric	Pressure	0.95 MPa	
pressure		Vacuum	6.7×10 ⁻³ Pa	(5×10 ⁻⁵ Torr)
Sealing		Shafts and Quartz tube are sealed by O-ring		
Growing method			Mirror stage moves	
Max. temperature			2,200℃	
Temperature in normal use		1,850℃		
Lamp power			1,200W (300W x 4 lamps)	
		4,000W (1,000W x 4 lamps)		
Temperature difference			<30℃ (along circumference of crystal)	
Lamp cooling		Air		
Mirror cooling			Air	
Quartz tube sealing part		Water		
Max. growth length		150 mm		
Upper shaft moving distance			150 mm	
Max. feed rod length			200 mm	
Mirror stage: slow moving		0.01~300mm/hr		
Mirror stage: fast moving		6~150 mm/min		
Upper shaft slow moving		0.01~300 mm/hr		
Upper shaft fast moving			6~150 mm/min	
Upper/lower shaft rotation speed		$5\sim$ 100 rpm		
Monitoring		CCD camera & LCD		
Control syste	tem	Computer	LabVIEW / Wi	indows 10 (with remote control function)
		Manual	Hand-Control-Box	
Output voltage stability		Less than +/-0.2 % against +/-10% of source		
Atmosphere gas flow rate			a. 5L/min Ar (*1)	
(flow meter)			b. 500cc/min O ² (*1)	
		c. 10L/min Air with compressor		
Utility	Elec	etricity	3-phase 200V, 30A	
	Wat	er	3∼5L/min	
Size of furnace			Main body	700W×760D×1950H (mm)
			Control box	605W×760D×1700H (mm)

Remarks:

- 1. Alternative lamp power (option): 150W / 500W / 750W
- 2. (*1) It is possible to change another type of gas and flow rate.
- 3. Warranty;

Crystal Systems Corporation warrants for one (1) year from the date of installation, except for abnormal use. Glassware such as (1) lamp (2) mirror and (3) quartz tube are out of warranty.

4. Specifications may by changed without any notification.