

Optical floating zone furnace

Model : FZ-T-10000-H-VIII-VPM-MII-PC



Optical Floating Zone Furnace



Crystal Systems Corporation

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Specification

Model		FZ-T-10000-H-VIII-VPM-MII-PC		
Lamp system		Halogen		
No. of lamp and mirror		4 pieces each		
Atmospheric pressure	Pressure	0.95 MPa		
	Vacuum	6.7×10^{-3} Pa (5×10^{-5} Torr)		
Sealing for shafts		Shafts are sealed with Magnetic Liquid*1 Quartz tube is sealed with O-ring		
Max. temperature		2,200°C		
Normal temperature		1,850°C		
Lamp power		1,200W (300W x 4 lamps)		
		4,000W (1,000W x 4 lamps)		
		6,000W (1,500W x 4 lamps)		
Shaft		Upper and lower shafts transfer vertically		
Temperature difference		< 30°C		
Lamp cooling		Air cooling		
Mirror cooling		Air cooling		
Max. growth length		150 mm		
Max. gap adjustment		150 mm		
Max. feed rod length		150 mm		
Growth rare slow move		0.01~300mm/hr		
Growth rate fast move		6~150mm/min		
Shaft rotation rate		5~100rpm		
Monitoring		CCD camera and LCD		
Control system	Computer	LabVIEW / Windows 10 (with remote control function)		
	Manual	Hand-control-system		
Atmosphere gas flow rate		① 5L/min Ar MFC ② 500cc/min O ₂ MFC ③ 10L/min Air (Float) flow meter		
Lamp control power		Programmable (4 lamps as 1 set) with PC		
Fluctuation of power		Less than +/-0.2% against +/-10% of source		
Utilities	Electricity	3-phase 200V, 40A		
	Water	3L/min		
Size (mm)		Main body	Control box	
		Width	890	605
		Depth	800	760
		Height	2900	1640

Remarks:

1. Above specifications may be changed without any announcement
2. Alternative lamp power (option): 150W / 500W / 750W
3. It is possible to change other type of gas and flow amount
4. 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.