

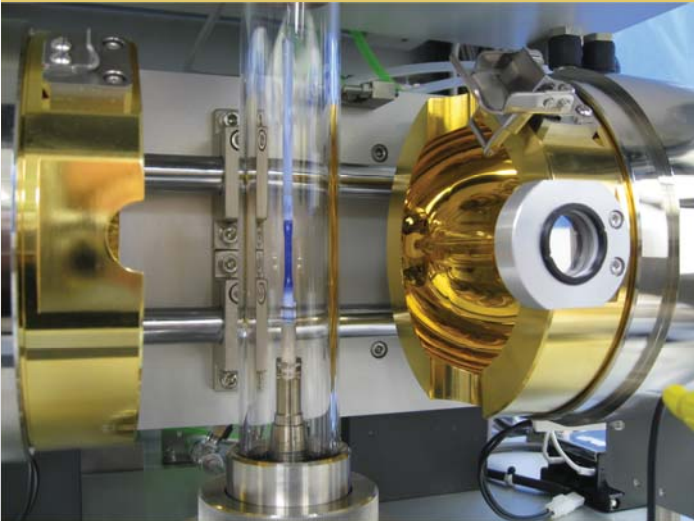


Quantum Design

The New Quantum Design IR Image Furnace

The High-Performance, Compact IR Image Furnace from Quantum Design

- Unsurpassed Performance in a Convenient, Stand-Alone Design
- Efficient 2-Mirror Design Results in Less Risk of Multiple Heating Zones
 - 2100° Celsius Temperature in Floating Zone Region
 - Excellent IR Power Stability
 - No External Cooling Requirements
 - Uses Standard "Off the Shelf" Lamps



The Quantum Design IR Image Furnace is Capable of Growing:

- High Temperature Superconductors
- Dielectrics and Magnetic Materials
- Metal Compounds
- Semiconductors
- Optical Crystals
- Precious Stones



Preliminary Specifications

Lamp	Number	2
	Type	Halogen
	Power (Programmable)	2 x 650 w Max
	Cooling	Air
	Power Supply Stability	0.02%
Mirror	Type	Double Elliptical
	Temperature (Floating Zone Region)	2100 C
	Crystal Growth Diameter Maximum	6 mm
	Cooling ¹	Coolant (Integrated into System)
Shaft Control	Crystal Growth Speed ²	0.1 - 1.4 mm/hr; 1 - 14 mm/hr
	Shaft Drive	Upper & Lower Independent
	Maximum Crystal Length	100 mm
	Speed	Course: 10 mm/min; Fine: 1 - 10 mm/hr
	Rotation	6 - 60 RPM
Other	Crystal Growth Monitoring	Via CCD Camera and Built-In LCD Display
	Max Pressure (Floating Zone Region)	300 KPa
	Total Furnace Size	72 cm (W) x 70 cm (D) x 170 cm (H)
	Furnace Weight	300 KG
	Power	220 V, 30 A, 1 Φ

1 - No external water source necessary

2 - Both ranges standard on all systems (user selectable)

