



Opto Edu A50.7098 Plunge Freezing Sample Preparation System for Scanning Electric Microscope

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A50.7098
- Minimum Order Quantity: 1 pc
- Price: FOB \$1~1000, Depend on Order Quantity
- Packaging Details: Carton Packing, For Export Transportation
- Delivery Time: 5~20 Days
- Payment Terms: T/T, West Union, Paypal
- Supply Ability: 5000 pcs/ Month

OPTO-EDU



Product Specification

- Highlight: **plunge freezing system for scanning microscope**
, sample preparation system for SEM,
Opto Edu microscope plunge freezer

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Product Description

Opto Edu A50.7098 Plunge Freezing Sample Preparation System for Scanning Electron Microscope

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A50.7098

Plunge Freezing Sample Preparation System



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A50.7098 Introduction



The A50.7098 Automated Cryo-TEM Sample Freezing Solution is a grid plunge freezer designed to rapidly fix thin liquid films containing samples into vitrified ice layers using cryogens such as liquid ethane. This system prepares proteins, cells, and solution system materials for subsequent 3D Cryo-TEM analysis.

Product Highlights

- Highly automated, stable, and repeatable vitrification process
- Specifically designed for Cryo-TEM, compatible with various sample types
- Precise control of key parameters (4 -60 , humidity 40%-100%)

- Multi-physical stimulation functional integration
- Customization on demand

Flexible adjustment of clamping and plunging parameters

User Interface

User-friendly HMI design, easy to operate, suitable for various scenarios

Glow Discharge Unit

Recommended use with glow discharge unit for grid hydrophilization to achieve higher quality vitrified samples



Application Capabilities

This equipment meets the sample preparation needs of various types of samples including proteins, large particle suspensions, and viruses.

A50.7098 Specification

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Technical Specifications

NO.	Parameter	Specification
1	Humidity Control	Maximum humidity can reach 100% and remain stable. Capable of real-time monitoring of sample chamber humidity, with ultrasonic control function and control accuracy of $\pm 1\%$.
2	Temperature Control	When ambient temperature is between 18°C and 25°C, chamber temperature can be controlled within 4°C to 60°C, adjustable in 0.5°C increments.
3	Sample Injection	Capable of preparing small-volume samples of 2-10 ul using pipette for manual sample loading.
4	Sample Adsorption Method	Double-sided adsorption.
5	Sample Blotting Method	Blotting using filter paper. Blotting action and vitrification time are controllable. Users can customize blotting compensation and draining time via software.
6	Number of Blotting Cycles per Grid	≥ 16 times, with multi-adjustable blotting force level. Both number of times and force can be set via software.
7	Sample Loading Method	Manual touch screen control or foot pedal control. Optional: button control and linkage control.
8	Plunging Depth	Adjustable from 1 to 5 levels.
9	Blotting Control	All controllable via software; single blotting time is independently adjustable. Number of blotting actions is adjustable.

1 0	Application Time	Application time and waiting time can be controlled via software, with relevant parameters pre-settable.
1 1	Secondary Coolant Reservoir Capacity	Dedicated container with <10 mL capacity.
1 2	Grid tweezers descent speed	<1 second.
1 3	Temperature control of coolant container and cryo-sample holder	Capable of synchronously lowering temperature while keeping grid submerged in coolant. Coolant container can include integrated anti-contamination ring.
1 4	Method for transferring grids from coolant to grid box in liquid nitrogen environment	Semi-automatic. Capable of transferring 4 or more grid boxes at one time.
1 5	Chamber lighting	Chamber equipped with lighting for easy observation and operation; can be turned off.
1 6	Dewar Cup	Dewar cup can be moved upward and can be used to pour out excess liquid nitrogen.
1 7	Shutter Operation	Equipped with automatic shutter control function.
1 8	Gripper Config	Equipped with motor-driven gripper to ensure highly repeatable clamping force.
1 9	Power Supply	220V power supply, 300W power.

MICROSCOPE IS OUR FOCUS

The Key To Micro World

Opto-Edu is one of the most professional supplier for microscope & educational instruments from China. We have been focusing in this field for more than 25 years, has a professional sales team who can assist our customer to find the BEST SELECTED microscope with competitive price and 3 YEARS Warranty.

25+ Year professional experience we know Microscopes the best!
 150+ Microscope & accessory manufacturers supply all models from China
 200+ Hot sale microscopes & Newest Models Updated Every Month
 750+ Customer from all over the world & keep rising every day
 1500+ Microscope products create your one-stop purchase platform
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 The Most Professional Microscope Manufacturer in China!



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