

Contact Shock Freezers



3

Cooling Systems

-30°C

Core Temperature
(°C)

60

Bags Freezing Capacity
(at 350ml)

5°

Inclined Plates
(2 levels)

SN

Climate Class

Class IIa/II

EU MDR / US FDA



medical
systems

Best quality of plasma

- Fast cooling down to -30°C in line with GMP
- Homogeneous freezing thanks to our stainless steel freezing plates
- Able to maintain a high concentration of factor VIII in the plasma
- Easy loading and manipulation of bags
- Easy cleaning and disinfection
- Class II(a)/II EU MDR / US FDA certified - AABB SCOPE compliant
- Adjustable freezing process temperatures and duration to better fit your processes



Monitoring / Communication

- Data Download - USB port and SD card data export
- Compatible with optional °B Connected - for a web-based 24/7 monitoring and data collection
- Bar code scanner



Superior Construction

- LED lighting
- Able to operate as high as +32°C ambient
- Linear actuators enabling even freezing allowing volume variation compensation Inclined plates enabling fast freezing
- Inclined plates enabling fast freezing by reducing air contact surface in your bags
- 7" touchscreen with access control
- Operating temperature at -50°C avoiding crazing of bags (bursting/leakage)
- 1 semi-hermetic compressor design for easy repairs
- Maintenance needed every 12 months vs 6 months for most competitors
- Fully independent levels for better flexibility with your donations
- Available optional transport trays and carrier for higher manipulation comfort



Sustainability

- Energy efficient
- Highly cost effective
- Eco mode of operation with adjustable setpoint to fit your storage requirements
- Low environmental impact refrigerant compared with competitors using R23 and other high GWP gases
- Inferior energy consumption driven by dual stage compressors, multiple injection valves, inclined freezer plates
- Available with water-cooling system for even higher efficiency and less heat ejection in your lab
- Available with air split cooling for highest comfort, no noise and heat ejection in your lab



Contact Shock Freezers

Where to sell?

- Hospitals
- Blood banks
- Transfusion center & service
- Blood centers

Key questions to ask the customers

- Is the unit replacing an existing unit or will it be for a new or renovated space?
- Are there any space constraints or limitations?
- How many contact shock freezers will you order?
- When do you need delivery?
- What volume blood plasma bags do you use?
- Are there any other cold storage products we can help you with?

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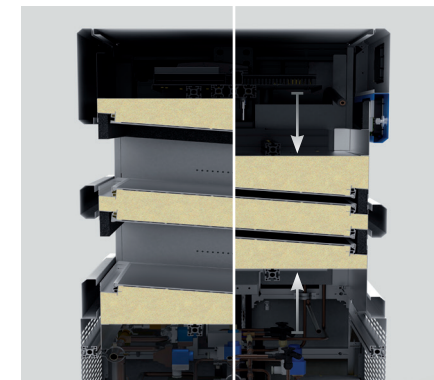
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Premium Line

	CSF61 L	CSF61 S	CSF61 W
Cooling systems	Standard	Split	Water-cooled
Configuration	Upright		
External dimensions (mm)	Height	1910	
	Width	1080	
	Depth	830	
Bags freezing capacity	Single layer	30 at 350ml (content 250ml)	
	Double layer	60 at 350ml (content 250ml)	
Freezing time to -30°C for 30 units at 350ml	± 26 min.	± 23 min.	± 26 min.
Refrigerant type	R449a		
Energy consumption (kWh/24h) 380-400V - 50/60Hz or 480V - 60Hz	0.7 (stable running)	1.2 (stable running)	0.4 (stable running)
	1.8 (per freezing cycle)	4.0 (per freezing cycle)	1.6 (per freezing cycle)
Compliance	Medical Device Regulations ¹	FDA (US) 21 CFR Part 864.9700, Class II	
		MDR (EU) 2017/745, Class IIa	
	EMC Standards	IEC 61326-1	
	Safety Standards ²	IEC 61010-1 / IEC 61010-2-011	
	Certifications	AABB Compliant: SCoPE – AABB's Standards-Compliant Product Evaluation	
	Company Standards	ISO 13485: Quality Management System for the Design and Manufacture of Medical Devices	
		ISO 9001: Quality Management System	
		ISO 14001: Environmental Management System	

1. Depending on the models | 2. Models comply to UL and CSA Safety Standards



OPTIMIZED CONTACT FREEZING

- Levels operate independently, allowing simultaneous freezing and defrosting as necessary
- Inclined plates at 5° ensure full contact with plasma and minimizes effect of air trapped in bags negatively influencing repeatability of freezing cycle times, providing operator independent performance for 100% performance consistency

