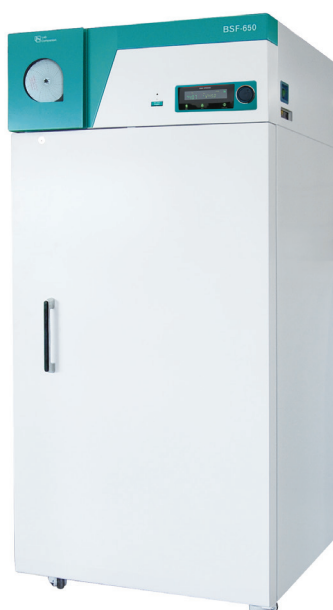


Plasma Freezers



The most suitable environments for sensitive plasma freezing.

Wide temperature range down to -40°C and high advanced safety functions satisfying the high medical standards. (ISO13485 / DIN 58375)



BSF-650

Standard accessories
see page 141

- Chart type recorder
- Auto dialing remote system
- Slide drawers, Door key

Performance

- Fully insulated chamber ensuring minimal chamber's temperature fluctuation.
- High thermal efficiency evaporation system, made of low corrosive materials.
- Auto-defrost system for automatic frost removal and manual defrost system for immediate frost removal.

Convenience

- Intuitive and easy-to-operate control panel with VFD and touch-sensitive buttons.
 - Easy temperature unit conversion between $^{\circ}\text{C}$ and $^{\circ}\text{F}$
- Air-tight door seal and lockable door latch enhances tightness to door closure.
- High-quality 304 grade stainless steel interior.
- Easy to store samples with smooth full-extension sliding drawers.
- Precise documentation is available by the provided chart type recorder.

Safety

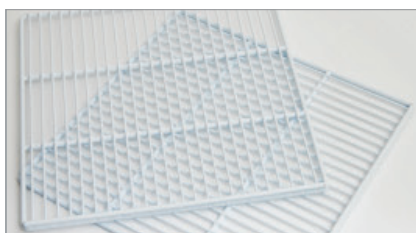
- Dual temperature controllers for safe blood storage.
 - If one controller fails to adjust temperature, then the other automatically activates to counteract the failure.
- Battery backup for emergency caused by power failures.
- Built in auto-dialing remote alarm to alert abnormal temperature changes or power failures.
- High/low temperature protection, Over current protection.
- Open door alarm and automatic fan stop interlocked with door opening for minimization of heat loss.
- Keypad lock function, Built in door lock with a key.

Model		BSF-300		BSF-650	
Chamber volume (L / cu ft)		303 / 10.7		647 / 22.8	
Temperature range ($^{\circ}\text{C}$ / $^{\circ}\text{F}$)		-40 to -25 / -40 to -13			
Refrigerator (Hp)		1		1-1/2	
No. of drawer shelf, slide (standard / max.)		4 / 4		6 / 6	
Max. load per shelf (kg / lbs)		26 / 57.3		30 / 66.1	
Material	Interior	Stainless steel #304			
	Exterior	Steel, 1 mm, powder coating			
	Insulation	100mm, Polyurethane foam			
Dimension (WxDxH)	Interior (mm / inch)	550x550x1000 / 21.7x21.7x39.4		700x675x1370 / 27.6x26.6x53.9	
	Exterior (mm / inch)	765x760x1650 / 30.1x29.9x64.9		915x885x2020 / 36x34.8x79.5	
	Net weight (kg / lbs)	150 / 331		240 / 529	
Electrical requirements (230V)		50Hz, 5.5A	60Hz, 5.5A	50Hz, 7.5A	60Hz, 7.5A
Cat. No.		AAHE5102K	AAHE5101K	AAHE5112K	AAHE5111K
Electrical requirements (120V)		60Hz, 11A			
Cat. No.		AAHE5103U		-	

* Technical data according to DIN 58375.

* FDA establishment registered company. FDA listed products.

Accessories & Options



Wire shelves



Wire shelves (slide type)



Drawer shelves (slide type)



Dot recorder



Chart recorder



Thermal line recorder

for Laboratory Cooling

Cat. No.	Description	CLG-150	CLG-300	CLG-650	CLG-850	CLG-1400
AAAE1511		•	•	-	-	-
AAAE1512	Wire shelves - flat type (included shelf bracket)	-	-	•	-	•
AAAE1513		-	-	-	•	-
AAAE1514		•	•	-	-	-
AAAE1515	Wire shelves - slide type (included guide rail)	-	-	•	-	•
AAAE1516		-	-	-	•	-
AAAE1517		•	•	-	-	-
AAAE1518	Drawer shelves - slide type (included guide rail)	-	-	•	-	•
AAAE1519		-	-	-	•	-
AAAE1562	Recorder set; Recorder (dot type, 6 point) with Temp. sensor	•	•	•	•	•
AAAE1501	Recorder set; Recorder (chart type, 6", 24hr / 7day) with Temp. sensor	•	•	•	•	•
AAAE1502	Chart recorder paper (6", 60ea/1 package)	•	•	•	•	•
AAAE1563	Recorder set; Recorder (thermal line type) with Temp. sensor	•	•	•	•	•
AAAE1551	Auto dialing remote system	•	•	•	•	•
AAAE1521	Cable port	-	•	•	•	•
AAAE1531	Electric outlet (120V-US style)	-	•	•	•	•
AAAE1532	Electric outlet (230V-Korea style)	-	•	•	•	•

Cat. No.	Description	FHG-150 / FMG-150	FHG-300 / FMG-300	FHG-650 / FMG-650	FCG-150	FCG-300 / FDG-300	FCG-650 / FDG-650
AAAE1511		•	•	-	•	•	-
AAAE1512	Wire shelves - flat type (included shelf bracket)	-	-	•	-	-	•
AAAE1517		•	•	-	•	•	-
AAAE1518	Drawer shelves - slide type (included guide rail)	-	-	•	-	-	•
AAAE1562	Recorder set; Recorder (dot type, 6 point) with Temp. sensor	•	•	•	•	•	•
AAAE1501	Recorder set; Recorder (chart type, 6", 24hr / 7day) with Temp. sensor	•	•	•	•	•	•
AAAE1502	Chart recorder paper (6", 60ea/1 package)	•	•	•	•	•	•
AAAE1563	Recorder set; Recorder (thermal line type) with Temp. sensor	•	•	•	•	•	•
AAAE1551	Auto dialing remote system	•	•	•	•	•	•

for Medical Cooling

Cat. No.	Description	BSR-300	BSR-650
AAAE1517	Drawer shelves - slide type (included guide rail)	•	-
AAAE1518		-	•
AAAE1501	Recorder set; Recorder (chart type, 6", 24hr / 7day) with Temp. sensor	•	•
AAAE1502	Chart recorder paper (6", 60ea/1 package)	•	•
AAAE1551	Auto dialing remote system	•	•

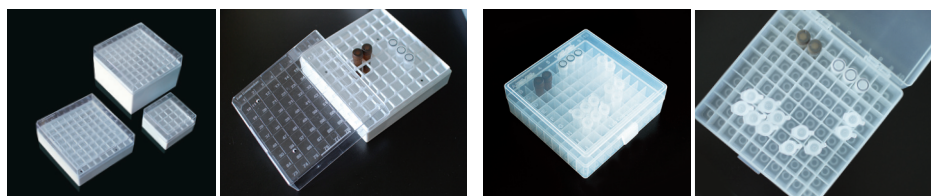
Cat. No.	Description	BSF-300	BSF-650
AAAE1517	Drawer shelves - slide type (included guide rail)	•	-
AAAE1518		-	•
AAAE1501	Recorder set; Recorder (chart type, 6", 24hr / 7day) with Temp. sensor	•	•
AAAE1502	Chart recorder paper (6", 60ea/1 package)	•	•
AAAE1551	Auto dialing remote system	•	•

Cat. No.	Description	PSR-300	PSR-650
AAAE1511	Wire shelves - flat type (included shelf bracket)	•	-
AAAE1512		-	•
AAAE1514	Wire shelves - slide type (included guide rail)	•	-
AAAE1515		-	•
AAAE1517	Drawer shelves - slide type (included guide rail)	•	-
AAAE1518		-	•
AAAE1501	Recorder set; Recorder (chart type, 6", 24hr / 7day) with Temp. sensor	•	•
AAAE1502	Chart recorder paper (6", 60ea/1 package)	•	•
AAAE1551	Auto dialing remote system	•	•

Cryo box / Storage box

Cryo box is designed for ultra-low temperature storage of biological materials. (heat resistance : -196°C to 121°C)

Storage box is suitable for storage of samples in general conditions. (heat resistance: 20°C to 121°C)



Cryo box

Storage box

Cat. No.	Description	Dimension (WxDxH) (mm / inch)
AAAJ7001	Cryo box (PC, 1.2 to 2.0ml tubes x 25)	77×77×53 / 3.0×3.0×2.1
AAAJ7002	Cryo box (PC, 1.2 to 2.0ml tubes x 81)	132×132×54 / 5.2×5.2×2.1
AAAJ7003	Cryo box (PC, 5ml tubes x 81)	132×132×96 / 5.2×5.2×3.8
AAAJ7011	Storage box (PP, 1.2 to 2.0ml tubes x 100)	140×140×53 / 5.5×5.5×2.1

※ 5ea for 1 set.