

Refrigerator & Freezer for Laboratory/ Medical















General Application

Lab Refrigerators & Freezers: Chemical samples, various reagents, storage of culture media, temperature-sensitive materials, enzymes, preliminary cooling before freezing.

Medical refrigerators: Storage of medicines and vaccines in hospitals and pharmacies.

	Description	Temp. Range (°C/°F)	Volume (L / Cu ft)	Model	Page
Laboratory	Refrigerator <ul style="list-style-type: none"> • Verified by international standards • Temperature stabilization by defrost control 	2 to 10 / 35.6 to 50	73, 156, 303, 660, 1451 / 2.6, 5.5, 10.7, 23.3, 51.2	CLG CLG3	260
		Freezer <ul style="list-style-type: none"> • Model selected based on temperature range • Excellent insulation and sealing structure 	-25 to -15 / -13 to 5	154, 303, 647 / 5.4, 10.7, 22.8	FMG
	-35 to -25 / -31 to -13		154, 303, 647 / 5.4, 10.7, 22.8	FCG	
Medical	Pharmaceutical Refrigerator <ul style="list-style-type: none"> • Stable cold storage of medicines • Designed based on KS P 6108 (pharmaceuticals refrigerator conditions and tests) 	2 to 10 / 35.6 to 50	73 / 2.6	PSR3	264

※ The contents of the above and the contents of this catalog may differ depending on the specific model and conditions of use. For the information about the features and specifications that applying to each models, please check the information on the corresponding page of each models.

	Satisfaction with the requirements of European regulations and guidelines.		More convenient security system with electronic lock function.		Real-time temperature monitoring by thermal line recorder.
	Real-time equipment monitoring and control system using mobile app.		Registered patent based on Jeio Tech's proprietary technology.		Comply with the standards for manufacturing and quality management of medical supplies.
	Certificate of medical devices management system for the manufacturers of medical devices.		Eco-friendly product that has passed environmental impact assessment tests.		Automatic defrosting does not need the work of unnecessary frost elimination.
	In case of abnormal operation of the device, a voice message alarm is transmitted via telephone.		Warning alarm in case of deviation of temperature control.		It memorizes the state of power failure and operates automatically when power is restored.
	2 year warranty free A/S.		Door locking system with key.		



Refrigerator & Freezer for Laboratory/Medical

Improved reliability with strict international standard verification
Stable temperature control with excellent sealing and defrost control

> **Stable temperature control and maintenance**

More precise and stable temperature control due to Jeio Tech's exclusive controller.

> **Internal uniform temperature**

Optimized structural design for each model maintains uniform temperature inside.

> **Complete chamber structure**

Excellent thermal insulation and sealing to minimize heat loss for long-term use.

> **Clean use and maintenance**

Internal stainless steel material allows for clean maintenance and excellent corrosion resistance.

> **Satisfies the requirements for safe cold storage of pharmaceuticals**

Temperature fluctuation and variation meets the requirements of ICH Guideline Q1A(R2). (CLG model)

> **Licensed Pharmaceutical refrigerator as a Medical device (PSR3)**

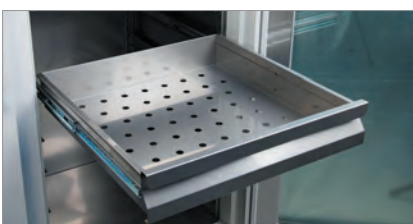
Meet the standard for medicine storage. (KS P 6108) Uniform temperature even with stricter standards.

> **Application of defrost control technology of Jeio Tech**

Automatic defrosting or dual refrigeration without the need for defrosting minimizes temperature changes.

> **Dew-free exterior**

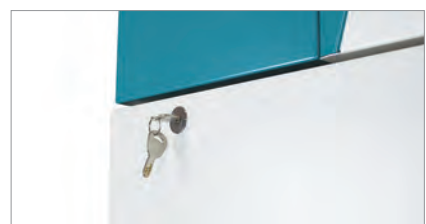
Provides a clean environment with a structure that does not form dew on the door and outer wall.



Solid steel drawer shelf. (option)



Drawer type of wire shelf with excellent permeability. (option)



Key lock door.



Provides optimized selection for storage purpose Convenient safety features for safe storage

- > **Mobile monitoring system (CLG3, PSR3)**
LC Connected system (option) to monitor the current status of the equipment through the mobile app and receipt of status messages.
- > **Door lock with key**
Door structure with key lock as standard provides a safe storage environment.
- > **Convenient mobility and installation**
Easy to move and install with casters. (except for 150 model)
- > **Convenient accessory selection supported**
Selection of various accessories such as temperature recorder as well as various shelves according to storage type.
- > **Temperature deviation notification function**
Warning when the actual temperature is out of a certain range of the set temperature. (High & Low Temperature)
- > **Lock function of controller**
Lock function for preventing change of controller settings prevents erroneous operation due to arbitrary changing.
- > **Self-protection system**
Door open alarm overcurrent protection and current leakage protection.
- > **Voice alarm system supported**
Alarm system (option) that transmits voice messages to designated users when device malfunction occurs. (Included as standard only for PSR3.)

※ Some of the above contents are limited to specific models.



Intuitive checking of device operation information with large VFD.



Storing samples in a stable through a real-time temperature recording. (Included as standard only for PSR3, for the other models are optional.)



Mobile remote monitoring system. (option) (CLG3/PSR3 model)

Laboratory Refrigerator

Excellent structure to meet stringent international standard



Structural Functional Features

- Stable temperature control with excellent insulation and sealing structure.
- Clean construction with no condensation on outer walls.
- Interior has excellent corrosion resistance as made of stainless steel.
- Magnetic packing door with smooth opening and closing.
- Casters for easy movement / installation. (except for 70, 150 model)
- Space-efficient configuration with double stackable. (only for 70, 150 model)
- Auto defrost function eliminates the need for separate defrosting.

Use Convenience Features

- Stable control with Jeio Tech's exclusive controller.
- Easy to use with clear VFD and touch key.
- Simultaneously displays set temperature and actual temperature.
- Calibration function minimizes temperature deviation.
- Height-adjustable and strong shelf provided as standard.
- Built-in fluorescent lamps. (except for 150 model)
- Glass door model for easy storage status checking.
- Convenient connecting external devices through Ø50 mm cable port. (option) (except for 70,150 model)
- No need for drainage management with a drain evaporation system. (only CLG3)



Intuitive checking of device operation information with large VFD

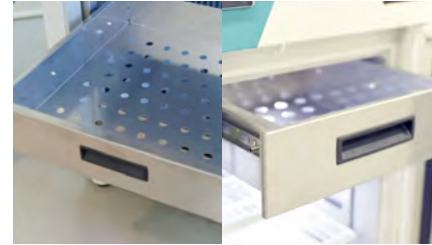


Door key lock



Outstanding Safety

- The 1400 model is equipped with two refrigeration systems to maintain temperature even in the event of a single refrigeration system failure.
- Temperature deviation notification. (High & Low Temperature)
- Malfunction prevented by controller lock function. (except for CLG3)
- Door lock with key as standard.
- Convenient history check through recording the recent event such as door open or power on/off. (only CLG3)
- Notification function when the door is open for a long time.
- Enhanced security with digital door lock. (only CLG3)



(left) Drawer shelf, (right) Digital lock drawer (option)

Satisfies the Requirements for Safe Cold Storage of Pharmaceuticals

- Temperature fluctuation and variation meets the requirements of ICH Guideline Q1A(R2).
- Stable temperature control for long-term operation.



Wire Shelf (Slide) (option)

Accessories Provided for Convenient Use

- Monitor via mobile app anytime, anywhere with LC Connected. (CLG3-70 only) (Requires LC GreenBox, option)
- Voice messages are transmitted to designated phone in case of an abnormality in operation. (option)
- Convenient use with drawer shelf or wire(slide) shelf. (option)
- Selection of various temperature recorders. (option) (Dot, Chart, Thermal Line)



Digital drawer lock (CLG3 model, option)

Specification

Model	Solid door	-	CLG-150S	CLG-300S	CLG-650S	CLG-1400S
	Glass door	CLG3-70	CLG-150G	CLG-300G	CLG-650G	CLG-1400G
Temperature range (°C / °F)		2 to 10 / 35.6 to 50	2 to 10 / 35.6 to 50	2 to 10 / 35.6 to 50	2 to 10 / 35.6 to 50	2 to 10 / 35.6 to 50
Chamber volume (L / cu ft)		73 / 2.6	156 / 5.5	303 / 10.7	660 / 23.3	1451 / 51.2
Dimension						
Interior (W x D x H, mm / inch)		418 x 440 x 400 / 16.5 x 17.3 x 15.7	550 x 580 x 490 / 21.7 x 22.8 x 19.3	550 x 550 x 1000 / 21.7 x 21.7 x 39.4	650 x 640 x 1450 / 25.6 x 25.2 x 57.1	1430 x 640 x 1450 / 56.3 x 25.2 x 57.1
Exterior (W x D x H, mm / inch)		522 x 600 x 725 / 20.9 x 23.6 x 28.5	683 x 791 x 870 / 26.9 x 31.1 x 34.3	670 x 770 x 1515 / 26.4 x 30.3 x 59.6	770 x 865 x 1965 / 30.3 x 34.1 x 77.4	1550 x 865 x 1965 / 61 x 34.1 x 77.4
Net weight (Kg / lbs)		67 / 147.7	100 / 220.5	130 / 286.6	210 / 463	350 / 771.6
Shelf						
Quantity of wire shelf (standard / max.)		2 / 3	2 / 6	3 / 11	3 / 17	6 / 34
Quantity of wire shelf (slide) (max.)		3	4	7	11	22
Quantity of drawer shelf (slide) (max.)		2	3	5	8	16
Max. Load per shelf (kg / lbs)		30 / 66.1	26 / 57.3	26 / 57.3	30 / 66.1	30 / 66.1
Fluorescent lamp		4.2W, 1ea	-	18W, 1ea	18W, 1ea	32W, 1ea
Electrical requirements (230V, 50Hz, A)		1.1	2	2.3	4	6
Cat. No.	Solid door	-	AAHE1002K	AAHE1012K	AAHE1022K	AAHE1042K
	Glass door	AAHE1302K	AAHE1102K	AAHE1112K	AAHE1122K	AAHE1142K
Electrical requirements (230V, 60Hz, A)		1.1	2	2.3	4	6
Cat. No.	Solid door	-	AAHE1001K	AAHE1011K	AAHE1021K	AAHE1041K
	Glass door	AAHE1301K	AAHE1101K	AAHE1111K	AAHE1121K	AAHE1141K
Electrical requirements (120V, 60Hz, A)		2.9	4	4.5	5	9.5
Cat. No.	Solid door	-	AAHE1003U	AAHE1013U	AAHE1023U	AAHE1043U
	Glass door	AAHE1303U	AAHE1103U	AAHE1113U	AAHE1123U	AAHE1143U

Accessories Page 266 Shelf, Drawer, Digital Drawer Lock, Recorder, Remote Alarm, Battery(Alarm), Stand with Caster, Electric Socket, LC GreenBox

Laboratory Freezer

Maintain stable temperature by direct cooling-type refrigeration system

FCG-150



FCG-150



FMG-650

with Recorder (option)

Structural Functional Features

- Stable temperature control with excellent insulation and sealing structure.
- Clean construction with no condensation on outer walls.
- Interior has excellent corrosion resistance as made of stainless steel.
- Magnetic packing door with smooth opening and closing.
- Casters for easy movement / installation. (except for 150 model)
- Space-efficient configuration with double stackable. (only for 150 model)
- Auto defrost function eliminates the need for separate defrosting.

Use Convenience Features

- Stable control with Jeio Tech's exclusive controller.
- Easy to use with clear VFD and touch key.
- Simultaneously displays set temperature and actual temperature.
- Calibration function minimizes temperature deviation.
- Height-adjustable and strong shelf provided as standard.

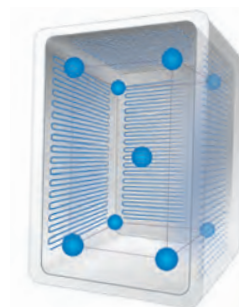
Outstanding Safety

- Temperature deviation notification. (High & Low Temperature)
- Malfunction prevented by controller lock function.
- Door lock with key as standard.
- Notification function when door is opened for a long time.



Direct Cooling-type Refrigeration System

- Cooling method with structure surrounding the internal sample space.
- The structure maintains stable temperature uniformity throughout the entire interior where the sample is placed.
- Efficient operation provided with minimal heat loss.



Accessories Provided for Convenient Use

- Voice alarm system transmits voice messages to designated phone if there is an abnormality in operation. (option)
- Convenient use with drawer type shelf. (option)
- Selection of various temperature recorders. (option)
(Dot, Chart, Thermal Line)

Specification

Model		FCG-150	FCG-300	FCG-650
		FMG-150	FMG-300	FMG-650
Temperature range (°C / °F)	FCG	-35 to -25 / -31 to -13	-35 to -25 / -31 to -13	-35 to -25 / -31 to -13
	FMG	-25 to -15 / -13 to 5	-25 to -15 / -13 to 5	-25 to -15 / -13 to 5
Chamber volume (L / cu ft)		154 / 5.4	303 / 10.7	647 / 22.8
Dimension				
Interior (W x D x H, mm / inch)		550 x 570 x 490 / 21.7 x 22.4 x 19.3	550 x 550 x 1000 / 21.7 x 21.7 x 39.4	700 x 675 x 1370 / 27.6 x 26.6 x 53.9
Exterior (W x D x H, mm / inch)		763 x 815 x 1055 / 30 x 32.1 x 41.5	765 x 760 x 1650 / 30.1 x 29.9 x 65	915 x 885 x 2020 / 36 x 34.8 x 79.5
Net weight (Kg / lbs)	FCG	123 / 271.2	155 / 341.7	238 / 524.7
	FMG	120 / 264.6	150 / 330.7	233 / 513.7
Shelf				
Quantity of shelf (standard / max.)		2 / 6	3 / 11	3 / 17
Max. Load per shelf (kg / lbs)		26 / 57.3	26 / 57.3	30 / 66.1
Electrical data & Ordering information				
230V, 50Hz, A	FCG	5.0	5.5	6.5
Cat. No.		AAHE2302K	AAHE2312K	AAHE2322K
Cat. No. (EU only)		AAHE2305K	AAHE2315K	AAHE2325K
230V, 60Hz, A	FCG	5.0	5.5	6.5
Cat. No.		AAHE2301K	AAHE2311K	AAHE2321K
230V, 50/60Hz, A		FMG	4.5	4.8
Cat. No.	AAHE2202K		AAHE2212K	AAHE2222K
Cat. No. (EU only)	AAHE2205K		AAHE2215K	AAHE2225K

Accessories **Page 266** Shelf, Drawer, Recorder, Remote Alarm, Stand with Caster

Pharmaceutical Refrigerator

Stable cold storage for pharmaceuticals provided

Comprehensive Temperature Management.

- Temperature recording in real-time by thermal line recorder.
- Verified the temperature uniformity under KS P 6108 and DIN 13221 standard.
- Temperature deviation alarm function. (Temp. upper & lower)



Includes Thermal line recorder as standard to monitor a real-time temperature.

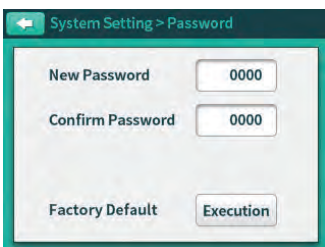
Licensed as a Medical Device.

- Licensed manufacturer for a medical device. (No. 3333 registered by KFDA)
- Certified by GMP.



More Convenient Security System with Electronic Lock Function.

- The electronic lock system is provided as standard.
- An electronic lock drawer 1 set is provided as standard.
- Easy unlock on a touch display only for the authorized user.
- Convenient history check through recording the recent event such as door open or power on/off.



Digital door lock.

Safe Storage with the Temperature Deviation Alarm

- Built-in voice alarm system transmits voice messages to specified users (up to 7 phones) if there is an abnormality in the device.
- Monitor via mobile app anytime, anywhere with LC Connected. (Requires LC GreenBox, option)

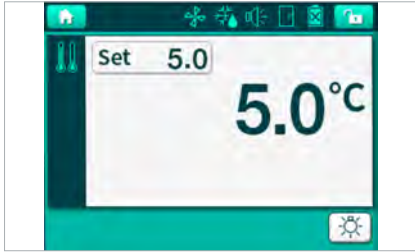


LC Connected



PSR3-70

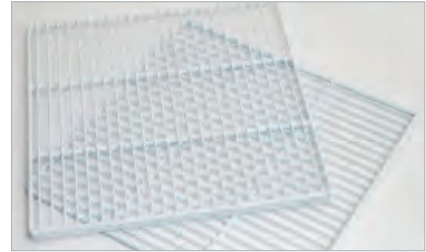
wire shelf 2ea, drawer 1ea, thermal line recorder, remote alarm system with battery (standard)



Intuitive and convenient use with 3.5inch color touch display.

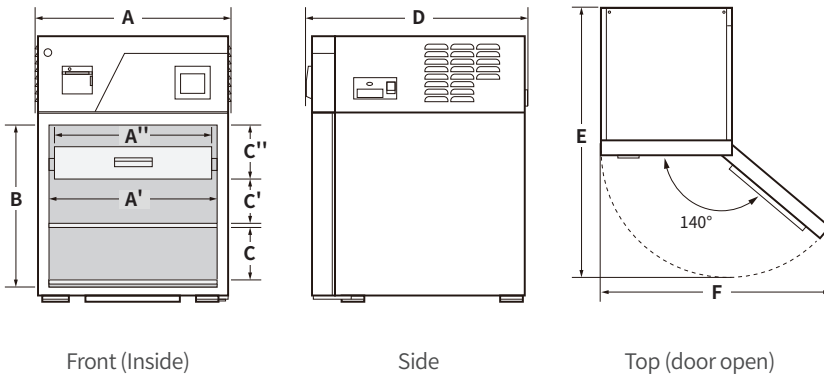


Convenient storage with a drawer.



Wire shelf with good air permeability.

Dimensions



Description		Dimension (mm / inch)
A	External width	522 / 20.6
A'	Internal width	390 / 15.4
A''	Drawer width	349 / 13.7
B	Internal height	420 / 16.5
C	Between the bottom shelf and the top shelf	136 / 5.4
C'	Between the top shelf and the drawer	110 / 4.3
C''	Between the drawer and inner ceiling	117 / 4.6
D	External depth	600 / 23.6
E	Max. depth when door is opened	1075 / 42.3
F	Max. width when door is opened	909 / 35.8

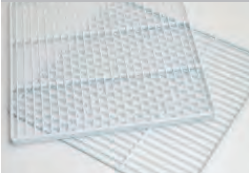
Specification

Model		PSR3-70	
Internal volume (L / cu ft)		73 / 2.6	
Temperature	Range (°C / °F) (5°C set point)	2 to 10 / 35.6 to 50	
	Variation at 5°C (±°C)	1.0	
	Fluctuation at 5°C (±°C)	2.0	
Recorder		0	
Digital door lock		0	
Digital drawer lock		0	
Quantity of wire shelf		2	
Quantity of SS drawer		1	
Remote alarm system		0	
External dimension (W x D x H, mm / inch)		530 x 600 x 725 / 20.5 x 23.6 x 28.5	
Electrical data (230V, 1P, A)		50Hz, 2.0	60Hz, 2.0
Cat. No.		AAHE6302K	AAHE6301K
Electrical data (120V, 60Hz, 1P, A)		4.0	
Cat. No.		AAHE6303U	

Accessories Page 266 Shelf, Drawer, Recorder, Remote Alarm, Battery(Alarm), LC GreenBox


Accessories

Wire Shelf




- Provides uniform temperature conditions throughout the storage area thanks to space between wires.

Drawer Shelf (Slide)




- The drawer shelf of a rigid steel plate makes easy to handle storage inside.

Wire Shelf (Slide)



- Wire type with good airflow, and convenient to use as drawer type.


Electric Socket



- Power supply for AC 230V.
- Includes cover as standard.


Recorder

Recorder with Sensor (Thermal Line, Single Sensor)




- Graph / Digital mode
- Thermal-type temperature recorder.
- Single sensor type, and built-in record for Medical products as standard. (PSR3)

Recorder with Sensor (Thermal Line, Double Sensor)




- Graph/Digital mode.
- Thermal-type temperature recorder.
- Double sensor type, so available to record a temperature continuously even one sensor is out of work.

Recorder with Sensor (Chart)



- 24/7 circular chart recorder.
- Easy replacement of the recording paper.
- Independent sensor that are separate from the product.

Recorder with Sensor (Dot)



- Up to 6 channels supported.
- Set recording range and speed.
- Paper width: 1000 mm / 39.4 inch.
- Independent sensor that are separate from the product.

Cat. No.	Description
AAAE15631	Thermal Line Recorder Single sensor for CLG/CLG3/FMG/FCG
AAAE1503	Thermal Line Recorder Double sensor for CLG/CLG3/FMG/FCG
AAAE1501	Chart type Recorder(24hr/7day) for CLG/FMG/FCG
AAAE1562	Dot type Recorder for CLG/FMG/FCG

Communication

LC DataKeeper



- High-integrity software compliant with FDA 21 CFR Part 11
- Integrated with Jeio Tech equipment to undergo GMP audits

Cat. No.	Description
SSA11001	LC DataKeeper-Basic
SSA11002	LC DataKeeper-Pro

※ Applied model: CLG3 / PSR3
 ※ Trial version is available for 30 days, offering the same features as the Basic version, and can be requested through the website.

LC GreenBox



- Real-time monitoring the state of a device via mobile app under an internet connection.
- Available to connect 4 devices in max for 1 unit of LC GreenBox.

Cat. No.	Description	Dimension (W x D x H, mm / inch)
AAHQ1011K	LC GreenBox	156 x 94 x 34 / 6.14 x 3.7 x 1.34

※ Applied model: CLG3 / PSR3

Remote Alarm with Battery



- Activate/deactivate battery via settings.
- When the setting of battery is ON, a warning alarm occurs if the power is turned off during operation.
- The recorder also records power failure events.
- Included as standard only for PSR3.

Cat. No.	Description
AAAE15511	Remote alarm system
AAAE15301	Battery

※ Available for all models.

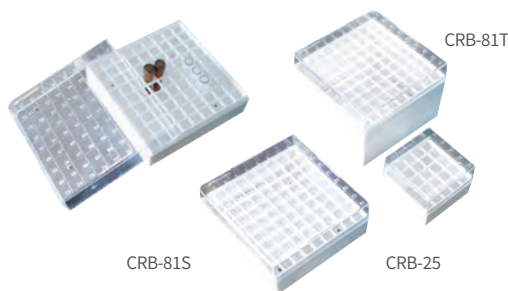
Model	Standard		Option							
	Wire Shelf	Drawer Shelf (Slide)	Wire Shelf (Slide)	Drawer Shelf (Slide)	Recorder (Chart)	Recorder (Dot)	Recorder (Thermal line)	Electric Socket	Stand with Caster	Remote Alarm
CLG3-70	AAAE15081	N/A	AAAE15091	AAAE15101 ¹⁾	N/A	N/A	AAAE15631	N/A	N/A	AAAE15511
CLG-150	AAAE1511	N/A	AAAE1514	AAAE1517	N/A	AAAE1562	AAAE1563	N/A	AAAE1542	AAAE1551
CLG-300 ³⁾	AAAE1511	N/A	AAAE1514	AAAE1517	AAAE1501	AAAE1562	AAAE1563	AAAE1532 ²⁾	N/A	AAAE1551
CLG-650 ³⁾	AAAE1512	N/A	AAAE1515	AAAE1518	AAAE1501	AAAE1562	AAAE1563	AAAE1532 ²⁾	N/A	AAAE1551
CLG-850 ³⁾	AAAE1513	N/A	AAAE1516	AAAE1519	AAAE1501	AAAE1562	AAAE1563	AAAE1532 ²⁾	N/A	AAAE1551
CLG-1400 ³⁾	AAAE1512	N/A	AAAE1515	AAAE1518	AAAE1501	AAAE1562	AAAE1563	AAAE1532 ²⁾	N/A	AAAE1551
FCG-150	AAAE1511	N/A	AAAE1514	AAAE1517	AAAE1501	AAAE1562	AAAE1563	N/A	AAAE1542	AAAE1551
FCG-300	AAAE1511	N/A	AAAE1514	AAAE1517	AAAE1501	AAAE1562	AAAE1563	N/A	N/A	AAAE1551
FCG-650	AAAE1512-1	N/A	AAAE1515-1	AAAE1518-1	AAAE1501	AAAE1562	AAAE1563	N/A	N/A	AAAE1551
FMG-150	AAAE1511	N/A	AAAE1514	AAAE1517	AAAE1501	AAAE1562	AAAE1563	N/A	AAAE1542	AAAE1551
FMG-300	AAAE1511	N/A	AAAE1514	AAAE1517	AAAE1501	AAAE1562	AAAE1563	N/A	N/A	AAAE1551
FMG-650	AAAE1512-1	N/A	AAAE1515-1	AAAE1518-1	AAAE1501	AAAE1562	AAAE1563	N/A	N/A	AAAE1551
PSR3-70 ⁴⁾	AAAE15081	AAAE15101	AAAE15091	AAAE15101 ¹⁾	N/A	N/A	AAAE15631	N/A	N/A	AAAE15511

- 1) CLG3-70, PSR3-70 offer 3 different drawer type : Digital type (AAAE15101), Key lock type (AAAE15102), Unlocked type (AAAE15103)
 2) For 230V (Korean-style). To use a 120V (US-style) socket, select AAAE1531.
 3) We provide the cable port (AAAE1521) only for CLG-300, 650, and 1400.
 4) Remote Alarm System (AAAE15511) is included for PSR3-70 model.

Related Product

Cryo Box

- Excellent durability even at ultra-low temperature with stable PC material.
- Easily distinguish samples with numbers on the covers.
- Cover, tray and dividers are separated for easy cleaning.
- Pressurized sterilization possible. (autoclavable)



Model	CRB-25	CRB-81S	CRB-81T
Tube size (ml)	1.2 to 2.0	1.2 to 2.0	5
Max. Mountable tube	25 (5 x 5)	81 (9 x 9)	81 (9 x 9)
Dimension (W x D x H, mm / inch)	77 x 77 x 53 / 3 x 3 x 2.1	132 x 132 x 54 / 5.2 x 5.2 x 2.1	132 x 132 x 96 / 5.2 x 5.2 x 3.8
Cat. No.	AAAJ7001	AAAJ7002	AAAJ7003

※ 5 packs for one set. (each Cat. No.)

Storage Box

- Excellent chemical resistance due to polypropylene material.
- The circular grooves at the bottom ensure stable mounting of tubes.
- Easy to separate samples with numbers and letters on covers.
- Pressurized sterilization possible. (autoclavable)



Model	SRB-100
Tube size (ml)	1.2 to 2.0
Max. Mountable tube	100 (10 x 10)
Dimension (W x D x H, mm / inch)	140 x 140 x 53 / 5.5 x 5.5 x 2.1
Cat. No.	AAAJ7011

※ 5 packs for one set.