

Difference between power consumption and the amount of power consumption

"Power consumption" differs from "the amount of power consumption!" Annual electricity rates are calculated with as the amount of power consumption (unit kwh) x electricity unit rate.

Power consumption indicates the amount of electric energy consumed per second when the internal temperature is the lowest after continuous operation of the refrigerator. To figure out the electricity charge, it is necessary to check the "amount of power consumption," that is the electric energy consumed for a certain period of time under conditions close to the actual conditions of use. Please note that even products indicated as "low power consumption" in the catalog actually consume a "different amount of power."

* Electricity costs are not determined by power consumption (height) but by the amount of power consumption (area).

Recovery of refrigerator

We properly recover refrigerant and dispose of equipment.

Under the Fluorocarbons Recovery and Destruction Law enacted in 2002, when discarding commercial freezing air conditioners such as commercial refrigerators, the equipment user must request chlorofluorocarbon collectors authorized by the prefectural governor to recover chlorofluorocarbons, and bear related expenses. If chlorofluorocarbons are released without permission, penalties can be applied.

- Warning labels are affixed to products.
- Specifications and appearances are subject to change without notice.
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FY2021 Sponsored by the Energy Conservation Center, Japan

Energy Conservation Grand Prize

Received the Energy Conservation Center, Japan Chairperson Prize
Energy conservation example department

Initiatives of ZEB realizing comfort and energy conservation at the headquarters building

ZEB technology is deployed to the Head Quarters

With the aim to reduce environmental-load by introducing innovative energy-saving technology, we are promoting ZEB (net zero energy building) of the new headquarters building.

Due to desiccant air conditioning and sensing technology, the air withtemperature and humidity being appropriately controlled is supplied to the offices.

With the achievement of adequate ventilation and rational air conditioning, we realize comfortable environment.

Galilei Air-tec System

Safety precautions

- Products described in this catalog are for indoor use only. Use and store the products in places not where exposed to rainwater.
- Read the "instruction manual" carefully before use to ensure safe correct use of the product.
- Installation and electric work is required. Consult with an authorized dealer or qualified specialist.

Visualization of chlorofluorocarbons

To prevent global warming, chlorofluorocarbons must be properly collected from this product.

ISO 9001:2015
Acquisition of certification
Okayama Factory
Shiga Factory
Kansai Engineering Dept,
SB Division,
Tokyo Engineering Dept,
Tokyo Installation Works Dept,
Chubu Engineering Dept,
Nishi-Nihon Engineering Dept

ISO 14001:2015
Acquisition of certification
Head Office, Tokyo
Nagoya, Fukuoka
Shiga Factory,
Okayama Factory

●Download catalogs and specifications from:
URL <https://www.galilei.co.jp>

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GALILEI
Be cool, Be alive.

FY2022~2023 issue
Medical Life Science Products
General Catalog

Medical cool box / Medical freezer & refrigerator / Medical freezer
Low temperature incubator / Ultra-low temperature freezer
Cold bench / Clean bench
Prefabricated refrigerator & Freezer & Temperature-controlled storage

MediFridge

Medical cool box - freezer series



For Multi Solution



Low temperature incubator series

LAB Line

Address inquiries and orders for products made by FUKUSHIMA GALILEI CO.LTD. to:



The contents of this catalog are valid as of October 2022. (2210-00) G

Catalog No.
MD K-75

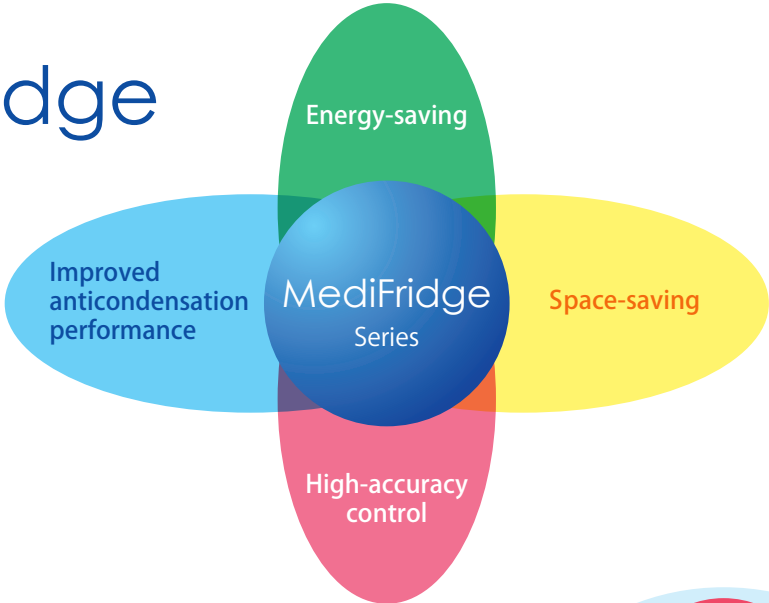
Flagship models of freezers and refrigerators that change the common sense of freezing and refrigerating storage of specimens and chemicals.

MediFridge Series

Why are only sliding showcases used for refrigerating specimens and chemicals?
The MediFridge medical cool box was born from such a question, to defy the common wisdom. Since sliding showcases require doors to slide sideways, the moving parts need space, and that space causes many problems such as condensation and cold air leaks.
We want to supply products that can solve such problems, which we espouse in our sub-theme, "For Multi Solutions." We put our desire "to provide new values" into the MediFridge series.

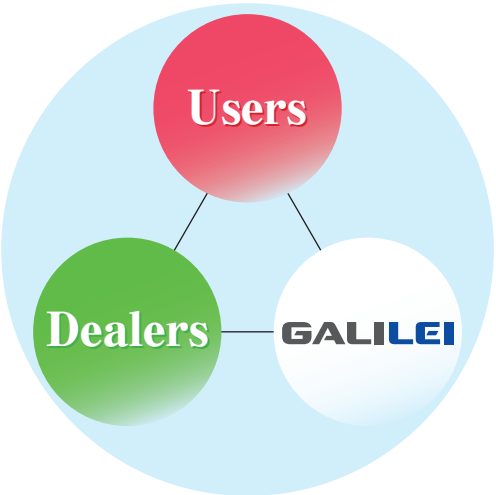
What began with a medical cool box was built upon with freezer-refrigerators, compact medical cool boxes, and medical freezers.
Designed and manufactured under energy- and space-saving, high-accuracy control, improved anticondensation performance concepts series, we provide user-friendliness and new values to you in the MediFridge.

MediFridge Concepts



Low temperature incubator LAB Line series

From thought that we want to help users more, we image LAB Line series as the the community line from LAB of users for research, experiment and inspection to our company. With the addition of wide range models, the LAB Line series can be used for more numerous applications.



Medical cool box
1,000L type is newly added to the lineup.

▶▶▶ See page 5.



Compact medical cool box
Temperature indication, alarm functions, and a locking device come as standard equipment.

▶▶▶ See page 6.



Medical freezer & refrigerator
The lineup increased with the addition of high-capacity type.

▶▶▶ See page 6.



Medical freezer
The use of the same-size baskets enhances storage capacity and handling.

▶▶▶ See page 7.



Low temperature incubator
We offer nine kinds of lineup including standard model and wide range model.

▶▶▶ See page 9.

MediFridge Series	P3~7
Features of the "MediFridge" series Medical cool box Slim-type medical cool box Compact medical cool box Medical freezer & refrigerator Medical freezer	
Color variations	P7
Medical cool box series	P8
Medical cool box Medical cold storage showcase	
Low temperature incubator LAB Line series	P9
Low temperature incubator standard model Low temperature incubator wide range model	
Freezer series	P10~11
Ultra-low temperature freezer Vital Ultra-low temperature freezer (Cascade refrigeration) Ultra-low temperature freezer (single compressor, -80°C, -60°C) Medical freezer personal	
Other cool boxes and associated equipment	P12
Cold bench Tabletop type clean bench	
Large-size assembly series	P13
Prefabricated refrigerator & freezer & temperature-controlled storage (Incubator)	
Commercial equipment and other associated equipment	P14~18
Upright refrigerator & freezer Table type refrigerator & freezer Icemaker (Cube ice, chip ice, flake ice) Plug-in type commercial glass door cabinet refrigerator & freezer Plug-in type reach-in showcase cubic type Inverter plug-in type commercial multi-deck open spot showcase Quick freezer for refrigerants Blast chiller / Shock freezer FE clean water , Coldtainer , Cold storage locker Freezing stocker, Compact refrigerator, Temperature measurement-related equipment HACCP ExAround HACCP control support system	
Products materials	P19~22
Product specifications Options	

Two kinds of evolution of medical cool box "MediFridge"

1. The medical cool box that can achieve rigorous cool temperate storage to ambient-temperature storage.

HC (High Control) mode

Set temperature can be selected from 3°C, 4°C, and 5°C.

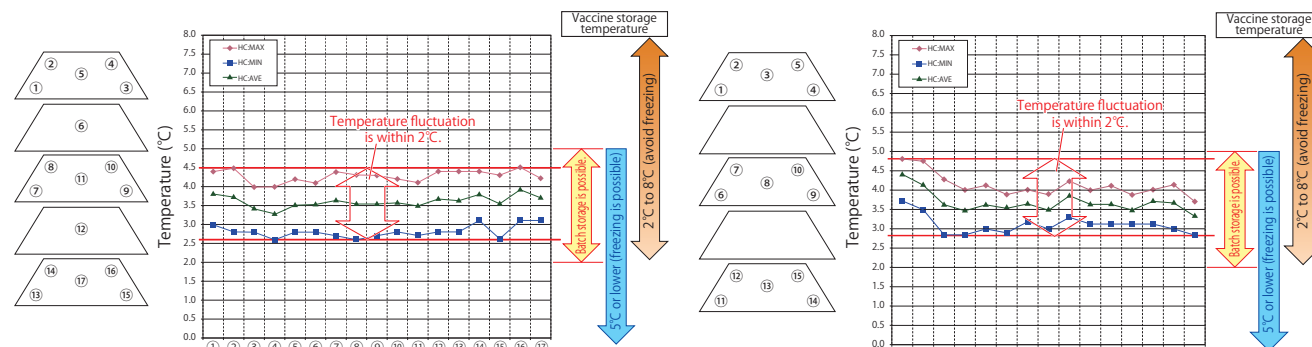
● Temperature distribution (within $\pm 1^\circ\text{C}$ from the set temperature)

● **Fluctuation width at all measuring points (MAX - MIN): (within 2°C)**

It is optimal for storing various kinds of vaccine and medicines that require rigorous temperature control.



HC (High Control) mode
Indicates the temperature from 1°C to 7°C by the unit of 0.1°C.



- No load inside the medical cool box
- Air temperature measurement at 17 points inside medial cool box characteristic values may differ according to product, operation and set conditions.
- Each data are measured based on criterion of our company.

EC (Eco Control) mode

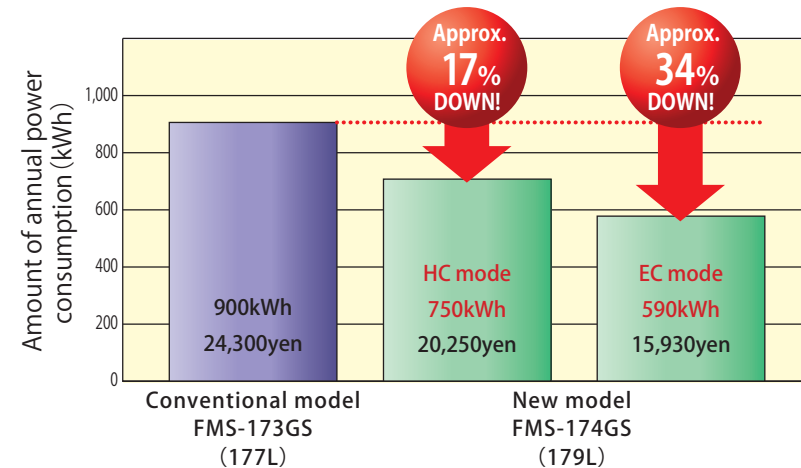
Set temperature range is increased from the conventional 2°C to 14°C to 2°C to 25°C.

It allows the storage of not only cooling-requiring medicines but also ambient-temperature medicine.

The capacity is increased and energy conservation is achieved compared with conventional models.



EC (ECO Control) mode
Indicated by the unit of 1°C



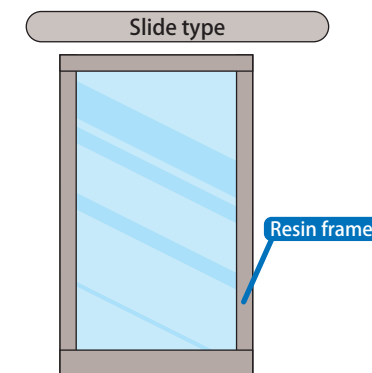
- * The amount of annual power consumption is indicated for an ambient temperature of 30°C, humidity of 60%, power supply frequency of 60Hz, supply voltage of 100V, set temperature of 5°C, no load, and no door opening/closing.
- * The amount of power consumed during product use will vary depending on installation, internal temperature setting, ambient temperature and humidity, frequency of door opening/closing, the volume and temperature of newly stored materials, and usage.
- * Electricity costs are calculated based on a reference unit rate of 27 yen/kWh (consumption tax included).

[Source]
"New reference unit electricity rate,"
Home Electric Appliances Fair Trade Conference

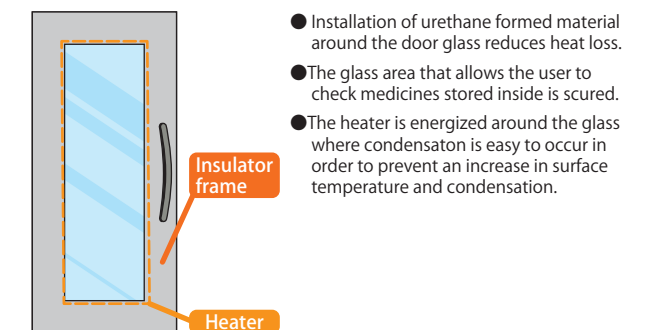
2. Only the swing doors allow enhanced usability and safe and secure heat insulation environment.

Stable heat insulation environment with little condensation

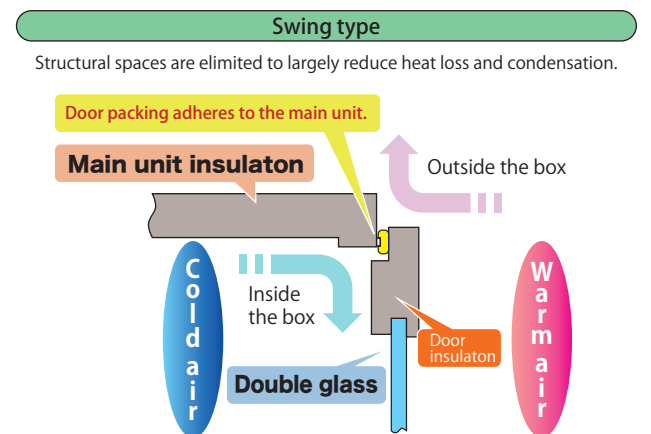
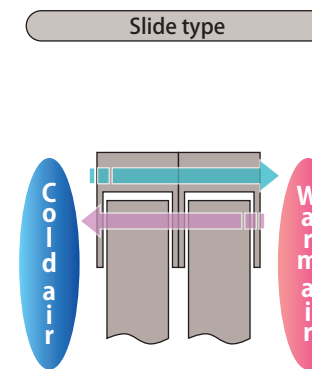
Difference of door



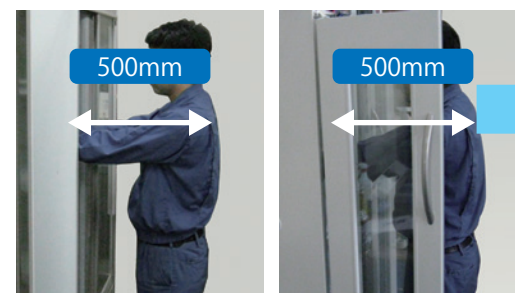
Swing type



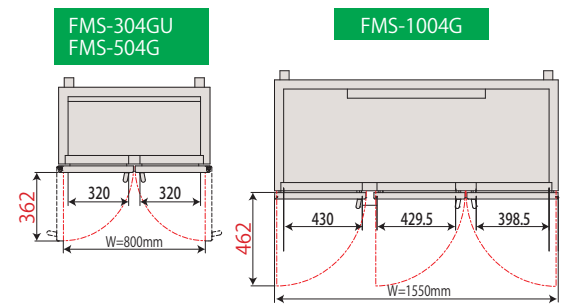
Difference of structure



Space saving

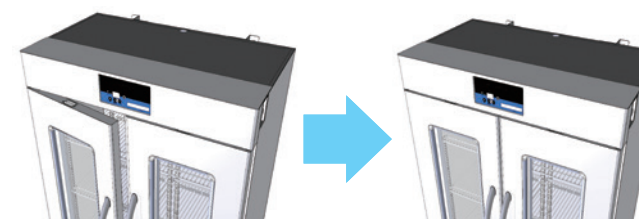


A minimum clearance of 500mm is required to take in and out stored objects.



Since the swining doors extend outwards less than 500mm, extra space for installation is not required on the front side. The width dimention becomes smaller and the capacity is increased.

Prevent forgetting closing the doors.



The doors will automatically closed within the angle of 90° to prevent forgetting closing.
Door sensors are equipped as standard, offering safe and secure storage environment.

Taking out stored objects.



Sliding doors can be opened only one door at one time.

Swinging doors can be opened for one or two doors at one time, which makes it to take out stored objects easy.

Medical cool box MediFridge

HC mode
3°C to 5°C
(Unit of 1°C)

EC mode
2°C to 25°C
(Unit of 1°C)

Fluorocarbon-free specifications 5 series
To be on sale soon

Sliding rack specification (Options)



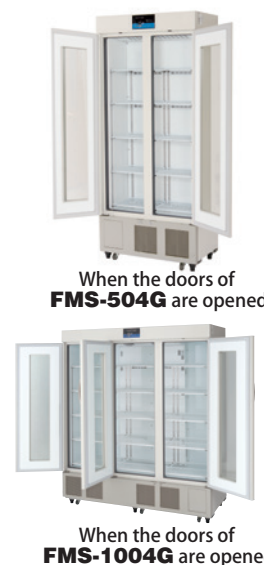
- The sliding rack makes it easier to place and retrieve drugs and samples.

*FMS-304GU-504G, right side
FMS-1004G, left side



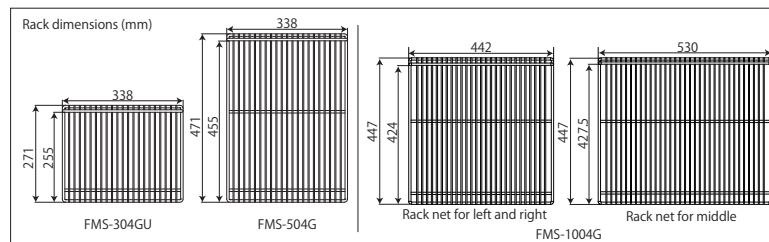
FMS-504G

FMS-1004G



When the doors of
FMS-504G are opened

When the doors of
FMS-1004G are opened



Features

- Anti-condensation performance improves markedly.
- Automatic closing doors with eccentric shafts.
- Reliable mechanism with door sensor as standard equipment.
- Anti-fall metal fittings are equipped as standard features.

	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Number of racks	Weight
Medical cool box MediFridge	FMS-304GU *1	300L	W800×D450 (548) ×H1,870mm	10	100kg
	FMS-504G	500L	W800×D650 (748) ×H1,870mm	10	112kg
	FMS-1004G	1020L	W1,550×D650 (748) ×H1,870mm	15	198kg
	FMS-305GU (Fluorocarbon-free) *1	300L	W800×D450 (548) ×H1,870mm	10	100kg
	FMS-505G (Fluorocarbon-free)	500L	W800×D650 (748) ×H1,870mm	10	112kg

* Fluorocarbon-free specification 5 series will be on sale this fall. After release, FMS-304GU・FMS-504G will be discontinued.

* This medical cool box is available with no glass window as well.

Slim-type medical cool box MediFridge

HC mode
3°C to 5°C
(Unit of 1°C)

EC mode
2°C to 25°C
(Unit of 1°C)

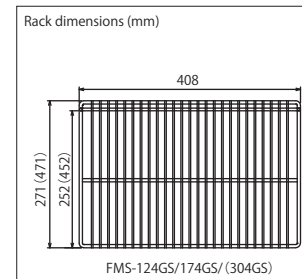
Fluorocarbon-free specifications 5 series
To be on sale soon



FMS-124GS

FMS-174GS

FMS-304GS



Features

- A width of only 50cm allows space-saving installation.
- Automatic closing doors with eccentric shafts.
- Reliable mechanism with door sensor as standard equipment.
- Anti-fall metal fittings are equipped as standard features.

	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Number of racks	Weight
Slim-type medical cool box MediFridge	FMS-124GS *1	121L	W500×D450 (548) ×H1,430mm	3	64kg
	FMS-174GS *1	179L	W500×D450 (548) ×H1,870mm	5	76kg
	FMS-304GS	303L	W500×D650 (748) ×H1,870mm	5	88kg
	FMS-125GS (Fluorocarbon-free) *1	121L	W500×D450 (548) ×H1,430mm	3	64kg
	FMS-175GS (Fluorocarbon-free) *1	179L	W500×D450 (548) ×H1,870mm	5	76kg
	FMS-305GS (Fluorocarbon-free)	303L	W500×D650 (748) ×H1,870mm	5	88kg

* Fluorocarbon-free specification 5 series will be on sale this fall. After release, FMS-124GS・FMS-174GS・FMS-304GS will be discontinued.

* This medical cool box is available with no glass window as well.

*1 Fall prevention measures are required.
*It is recommended to take fall prevention measures for all models.

Compact medical cool box MediFridge

HC mode
3°C to 5°C
(Unit of 1°C)

EC mode
2°C to 25°C
(Unit of 1°C)

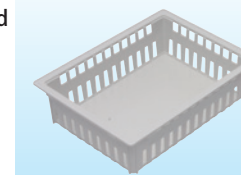
Fluorocarbon-free specifications 5 series
To be on sale soon



FMS-054GM



Basket as standard equipment
Internal dimensions
W344×D244×H99mm



Features

- Compact size that allows installation above and below counters.
- Although compact, temperature indication, alarm functions, and a locking device come as standard equipment.
- The basket that comes standard is structured to ensure easy retrieval of materials stored at the rear.
- Reliable mechanism with door sensor as standard equipment.

	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Basket	Weight
Compact medical cool box MediFridge	FMS-054GM	42L	W500×D452 (482) ×H690mm	2 units	27kg
	FMS-055GM (Fluorocarbon-free)	42L	W500×D452 (482) ×H690mm	2 units	27kg

* Fluorocarbon-free specification 5 series will be on sale this fall. After release, FMS-054GM will be discontinued.

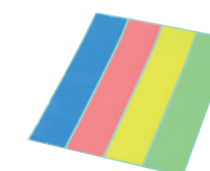
For controlling
poisons and
powerful drugs

Example of lockable
storage set
(Option)



For storing ampoules

Example of subdivided
storage cases
(Option)



Band seal for identification:
1 set (2 sheets) (Option)

Medical freezer & refrigerator MediFridge

Refrigerator
2°C~14°C
(Unit of 1°C)

Freezer
-30°C~-20°C
(Unit of 1°C)

Fluorocarbon-free specifications 5 series
To be on sale soon



FMS-F154GS

FMS-F304G

FMS-F404G



FMS-F404G
Freezer
4 baskets
4 Rack plates
Standard equipment

Model No.	refrigerator		freezer	
	W	D①	W	D
FMS-F154GS	408	411	430	354
F304G	348	411	430	323
F404G	393	561	580	370*

*Rack plate dimension

Features

- Medical freezer & refrigerator with a small installation footprint but large capacity.
- Freezer with height-adjustable racks to improve usability (FMS-F154GS・F304G).
- FMS-F404G is a rack plate type equipped with four baskets as standard features.
- Automatic closing doors with eccentric shafts.
- Reliable mechanism with door sensor as standard equipment.
- Anti-fall metal fittings are equipped as standard features.

	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Number of racks	Weight
Medical freezer & refrigerator MediFridge	FMS-F154GS	Refrigerator 174L Freezer 62L	W500×D600 (698) ×H1,870mm	Refrigerator 3 Freezer 1	95kg
	FMS-F304G	Refrigerator 315L Freezer 113L	W800×D600 (698) ×H1,870mm	Refrigerator 6 Freezer 2	132kg
	FMS-F404G	Refrigerator 481L Freezer 176L	W900×D750 (852) ×H1,870mm	Refrigerator 6 Freezer 4	145kg
	FMS-F155GS (fluorocarbon-free)	Refrigerator 174L Freezer 62L	W500×D600 (698) ×H1,870mm	Refrigerator 3 Freezer 1	95kg
	FMS-F305G (fluorocarbon-free)	Refrigerator 315L Freezer 113L	W800×D600 (698) ×H1,870mm	Refrigerator 6 Freezer 2	132kg
	FMS-F405G (fluorocarbon-free)	Refrigerator 481L Freezer 176L	W900×D750 (852) ×H1,870mm	Refrigerator 6 Freezer 4	145kg

* Fluorocarbon-free specification 5 series will be on sale this fall. After release, FMS-F154GS・FMS-F304G・FMS-F404G will be discontinued.

* This medical cool box is available with no glass window as well.

Specifications
P19・20

Options
P21・22

*It is recommended to take fall prevention measures for all models.
* Specifications for most models can be downloaded from our website.
URL <https://www.galilei.co.jp>

Medical freezer MediFridge

-30°C to -20°C
(Unit of 1°C)

Dual independently
control chambers



FMF-301F



FMF-501F



FMF-501FD

Features

- Use of the same sized baskets ensures easy storage and handling.
- Wall cooling keeps internal temperature stable.
- Four-wheel casters allow easy movement.
- Automatic closing doors with eccentric shafts.
- Reliable mechanism with door sensor as standard equipment.
- Prevention of fall is possible with the use of quake-resistance leg (option).

Baskets come as standard equipment

One basket can store up to 12 sets of 10 microplates each.
(A total of 1,680 microplates can be stored in 14 baskets.)

* FMF-301F comes with 7 baskets.
FMF-501F comes with 14 baskets.
FMF-501FD comes with 12 baskets.

External (Internal) dimensions of inner basket



	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Basket	Weight
Medical freezer MediFridge	FMF-301F	300L	W500×D729(777)×H1,795mm	7 units	95kg
	FMF-501F	548L	W820×D729(777)×H1,795mm	14 units	125kg
	FMF-501FD	516L	W820×D729(792)×H1,795mm	12 units	144kg

Selectable color variations



* The colors above are shown as reference.
The reference colors may slightly differ from actual product colors.

A color of your choice can be selected from 6 variations.

In addition to the standard color (ivory), 6 colors (brown, pink, orange, yellow, green, and sky blue) are available. Select the color of your choice.

Creation of pleasant yet practical work environments.

The color of mechanical parts compartment panel and top decorative panel can be matched to workplace interiors.

Zoning

Zoning by color makes each section easier to recognize.
Color-coding according to medical treatment enables users to intuitively identify stored materials.

Management by reagent, chemical and person in charge

Using different colors according to stored materials and person in charge enables users to visually identify targets and prevent mistakes.

* For products with color variations, see the product specifications (pages 19 and 20).

Medical cool box

2°C to 23°C
(Unit of 1°C)



FMS-650L

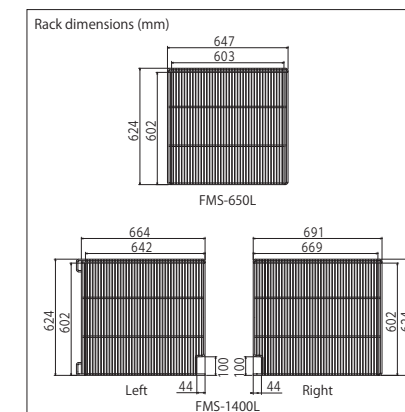


FMS-1400L

* Photo shows a cool box fitted with a temperature recorder (option).

Features

- Medical cool box of large-capacity storage type. The use of side ducts reduces temperature fluctuations.
- A standard equipped service outlet and measurement hole can be used for various applications.
- Reliable mechanism with door sensor as standard equipment.



	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Number of racks	Weight
Medical cool box	FMS-650L	635L	W770×D795(893)×H1,905mm	4	126kg
	FMS-1400L	1355L	W1,500×D795(893)×H1,905mm	8	206kg

* This medical cool box is available with no glass window as well.

Medical cold storage showcase

2°C to 14°C
(Unit of 1°C)

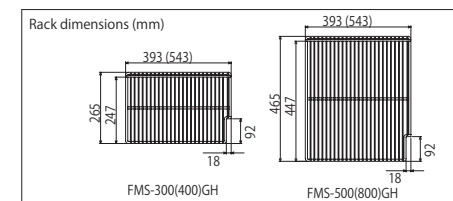
Specifications equipped
with
LED lighting system
(Option)

Features

- Energy conservation and capacity are enhanced compared with conventional models due to model change.
- The introduction of back ducts inside the box reduces temperature irregularity.
- Anti-fall metal fittings are equipped as standard features.



FMS-800GH



	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Number of racks	Weight
Medical cold storage showcase	FMS-300GH *1	341L	W900×D450(500)×H1,917mm	10	128kg
	FMS-400GH *1	494L	W1,200×D450(500)×H1,917mm	10	138kg
	FMS-500GH	585L	W900×D650(700)×H1,917mm	10	134kg
	FMS-800GH	827L	W1,200×D650(700)×H1,917mm	10	156kg
Medical cold storage showcase Sliding rack specification	FMS-500GH-SR	515L	W900×D650(700)×H1,917mm	5	144kg
	FMS-800GH-SR	757L	W1,200×D650(700)×H1,917mm	5	168kg

* In some environments, condensation may form due to the structure of stored products. It is recommend to use the MediFridge series of improved anticondensation performance.

*It is recommended to take fall prevention measures for all models.

*1 Fall prevention measures are required.
*It is recommended to take fall prevention measures for all models.
* Specifications for most models can be download from our website.
URL <https://www.galilei.co.jp>

Low temperature incubator *LAB Line*

-15°C to 50°C
Unit of 0.5°C
(35°C to 40°C: Unit of 0.1°C)



FMU-054I
* No locking device or lighting.

FMU-133I

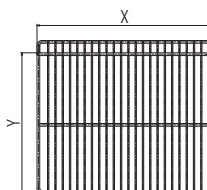
FMU-263I

Option



Light shielding plate
for FMU-133I, 204I, 100I-HC, 180I-HC
for FMU-263I, 404I, 230I-HC, 380I-HC

Special base for FMU-054I
External dimensions:
W600×D600×H750mm
Special base for FMU-133I/100I-HC
External dimensions:
W820×D586×H1,175mm
Special base for FMU-204I/180I-HC
External dimensions:
W820×D816×H1,175mm



Rack dimensions (mm)

Model No.	X	Y
FMU-054I	385	302
FMU-133/263I	605	313
FMU-204/404I	605	518

Features

- The temperature can be set in a wide range from -15°C to 50°C.
- Air discharge from the bottom and suction from the top keep samples from drying out.
- Programmable operation (2 different programs can be created with up to 8 operation steps each) allows use for various purposes.
- Reliable mechanism with door sensor as standard equipment.

	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Number of racks	Weight
Low temperature incubator	FMU-054I	50L	W483×D487 (554) ×H685mm	2	40kg
	FMU-133I	130L	W700×D502 (569) ×H1,107mm	3	70kg
	FMU-204I	207L	W700×D732 (799) ×H1,107mm	3	100kg
	FMU-263I	259L	W700×D502 (569) ×H1,677mm	5	95kg
	FMU-404I	408L	W700×D732 (799) ×H1,677mm	5	120kg

*This medical cool box is available with no glass window as well.

Low temperature incubator wide range model *LAB Line*

HC EC
-20°C to 60°C
Unit of 0.5°C
(35°C to 40°C: Unit of 0.1°C)

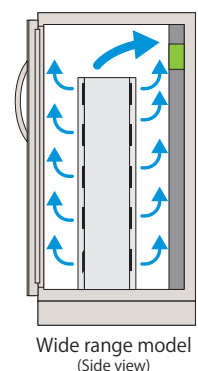
HC EC Switching possible



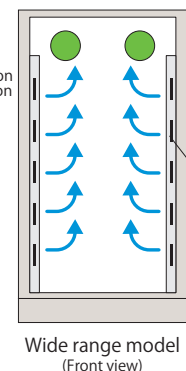
FMU-100I-HC



FMU-230I-HC



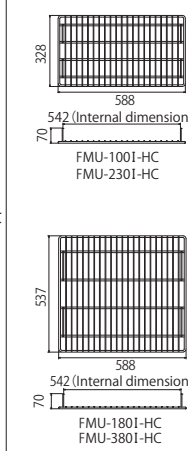
Wide range model
(Side view)



Wide range model
(Front view)

Introduction of side duct
(Image view)

Rack dimensions (mm)



Features

- Temperature can be set from -20°C to 60°C.
- This high-accuracy model uses side ducts to further reduce temperature fluctuations.
- Ideal for storing materials and infusion solutions that require careful temperature control.
- Programmable operation (2 different programs can be created with up to 8 operation steps each) allows use for various purposes.
- Reliable mechanism with door sensor as standard equipment.

	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Number of racks	Weight
Low temperature incubator wide range model	FMU-100I-HC	106L	W700×D502 (598) ×H1,107mm	2	84kg
	FMU-180I-HC	178L	W700×D732 (828) ×H1,107mm	2	95kg
	FMU-230I-HC	230L	W700×D502 (598) ×H1,677mm	5	115kg
	FMU-380I-HC	383L	W700×D732 (828) ×H1,677mm	5	130kg

*Light shielding plate is optional.

*This medical cool box is available with no glass window as well.

*It is recommended to take fall prevention measures for all models.

Ultra-low temperature freezer *Vital*

-80°C to -60°C

Independ Dual Cooling



FMD-D350ESH
Single-phase
CFC-free

Independ Dual Cooling



FMD-D520ETH
Three-phase
CFC-free

-90°C to -50°C

Cascade refrigeration



FMD-W330ESH
Single-phase
CFC-free

Independ Dual Cooling



FMD-D600ETRL
Three-phase
Filterless

Independ Dual Cooling



FMD-D700ETRL
Three-phase
Filterless

Features

- Dual cooling system with two refrigeration circuits.
*Excluding FMD-W330ESH
- Fluorocarbon-free refrigerant with little environmental load is used.
*Excluding FMD-D600ETRL and FMD-D700ETRL
- Alarm functions such as high temperature abnormality and low temperature abnormality and external alarm functions are installed as standard equipment. (all models)
- Vacuum insulator is used. (all models)

	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Number of racks	Weight	Plug shape
Ultra-low temperature freezer upright type	FMD-D350ESH	350L	W670 (741) ×D875 (980) ×H1,850mm	3	250kg	Ⓜ Single-phase 100V
	FMD-D520ETH	519L	W770 (841) ×D875 (980) ×H1,990mm	3	290kg	Ⓜ Three-phase 200V
	FMD-W330ESH	330L	W750 (816) ×D875 (980) ×H1,850mm	3	258kg	Ⓜ Single-phase 100V
	FMD-D600ETRL	603L	W1,030 (1,119) ×D875 (980) ×H1,990mm	3	359kg	Ⓜ Three-phase 200V
	FMD-D700ETRL	706L	W1,180 (1,269) ×D875 (980) ×H1,990mm	3	377kg	Ⓜ Three-phase 200V

*These products are marketed only in Japan.

Ultra-low temperature freezer (Cascade refrigeration)

-85°C to -20°C

Features

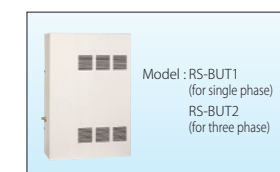
- Creates a stable ultra-low temperature environment.
- Refrigerating cycle monitoring function comes as standard equipment.



FMD-300D1



FMD-500E1



Auxiliary cooling equipment (Option)

In the event of a power outage or freezer failure, liquefied carbon dioxide is injected into the freezer chamber to prevent temperature from rising.
* A separate carbon dioxide cylinder is required.

	Model No.	Effective storage capacity	External dimensions	Number of racks	Weight	Plug shape
Ultra-low temperature freezer upright type	FMD-500E1	519L	W853 × D 980 × H 1,990mm	3	285kg	Three-phase 200V
	FMD-700E1	717L	W1,093 × D 980 × H 1,990mm	3	320kg	Three-phase 200V
Ultra-low temperature freezer chest type	FMD-200D1	200L	W1,080 × D903 × H1,100mm		210kg	Ⓜ Single-phase 100V
	FMD-300D1	360L	W1,740 × D903 × H980mm		255kg	Ⓜ Single-phase 100V
	FMD-500D1	516L	W1,930 × D903 × H1,120mm		275kg	Three-phase 200V
	FMD-700D1	752L	W2,520 × D903 × H1,120mm		320kg	Three-phase 200V

*Photo shows a freezer fitted with a temperature recorder (option).

*These products are marketed only in Japan.

*It is recommended to take fall prevention measures for all models.
* Specifications for most models can be downloaded from our website.
URL <https://www.galilei.co.jp>

Ultra-low temperature freezer (single compressor) - Fluorocarbon-free type

-80°C -60°C



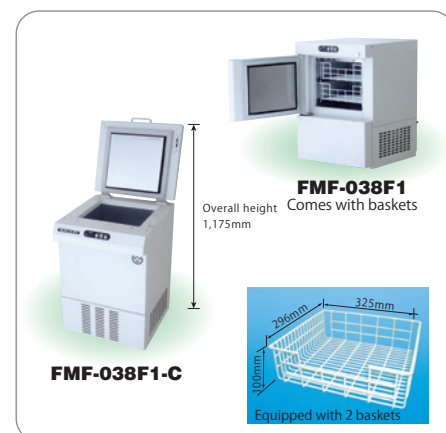
Features

- The single compressor enables good cost performance.
- The freezer can be used on single-phase 100V power supplies.
- Temperature can be recorded with the installation of data logger (option).

	Model No.	Effective storage capacity	External dimensions	Weight
Ultra-low temperature freezer (-80°C)	LAB8s	90L	W600×D730×H865mm	48kg
	LAB11	130L	W725×D730×H865mm	53kg
	LAB21	230L	W1,055×D730×H865mm	66kg
	LAB31	300L	W1,305×D730×H865mm	78kg
	LAB41	365L	W1,505×D730×H865mm	83kg
Ultra-low temperature freezer (-60°C)	PRO11	130L	W725×D730×H865mm	53kg
	PRO21	230L	W1,055×D730×H865mm	66kg
	PRO31	300L	W1,305×D730×H865mm	78kg
	PRO41	365L	W1,505×D730×H865mm	83kg
	PRO60	480L	W1,705×D730×H865mm	95kg

Medical freezer personal

-40°C to -15°C
(Unit of 5°C)



Features

- This "space-saving" personal type of medical freezer can be installed both above and underneath lab benches.
- The temperature can be set in a wide range from -40°C to -15°C (units of 5°C).
- When equipped with a temperature recorder (option), the freezer is ideal for storing a small amount of frozen plasma.

	Model No.	Effective storage capacity	External dimensions	Basket	Weight
Medical freezer personal	FMF-038F1-C	37L	W480×D520×H770mm	None	45kg
	FMF-038F1	38L	W483×D513×H717mm	2 units	45kg

*It is recommended to take fall prevention measures for all models.

Cold bench

Freezing and refrigeration switching type
Freezing: -20°C, Refrigeration: 5



FMC-61PNBSAXL

Features

- Ideal for operations that require low temperatures.
- The inverter enables energy-savings, quick cooling, and stable control.
- The flat handrail enhances workability.
- The eco-cover that prevents cold air from leaking while the product is on standby comes as standard equipment.
- The temperature can be switched between freezing and refrigeration by one-touch operation.

	Model No.	Work area	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Weight
Cold bench	FMC-41PNBSAXL(R)	W986×D766mm	W1,200×D900×H800mm	140kg
	FMC-61PNBSAXL(R)	W1,586×D766mm	W1,800×D900×H800mm	165kg

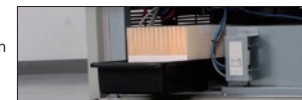
● Equipped with patrol light

The patrol light indicates whether the product is freezing or refrigerating.
The installation location should be:
L end: Left when facing the front
R end: Right when facing the front



● Wastewater evaporator

High-performance type that uses an evaporator

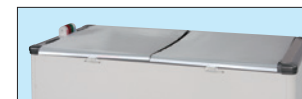


● Easy-to-see temperature indicator



● Eco-cover

User-friendly storage and handling
Energy-saving on standby



Tabletop type clean bench (Vertical airflow type) <Cleanliness: ISO-5 (Class 100)>



FMM-240TCB

Features

- A highly-durable glass shutter is used.
- The use of a DC turbo fan achieves energy-savings and low noise.
<FMM-240TCB: 54dB (Test based on JIS)>
- A slanted shutter glass is used in consideration of working posture.
- The switch and outlet are located on the front to enhance operability.
- An inverter-driver stabilizer for a fluorescent light is used to save energy and prevent flickering.

* This product cannot be used as a safety cabinet.

A gas burner with foot switch comes as standard equipment.



* When placing an order for this product, please inform Fukushima whether city gas or propane gas is used.

Gas hose connecting port

	Model No.	Work area	External dimensions	Weight
Tabletop type clean bench	FMM-240TCB	W995×D510×H555mm	W1,000(1,050)×D575×H825mm	57kg
	FMM-320TCB	W1,295×D510×H555mm	W1,300(1,350)×D575×H825mm	71kg

Specifications
P19・20

Options
P21・22

*1 Fall prevention measures are required.

*It is recommended to take fall prevention measures for all models.

* Specifications for most models can be download from our website.
URL <https://www.galilei.co.jp>

Prefabricated refrigerator & freezer & temperature-controlled storage (Incubator)



Built-in freezer type



Separate freezer type

Features

- Safe and secure panel assembly by group company GALILEI PANEL CREATE CO.LTD.
- Can be designed in sizes desired by customers.
- Can be used for a variety of applications.

Structure of prefabricated storage chamber

●Refrigerator: -3°C or higher ●Freezer: -20°C to -18°C

Panel assembly enables flexible design to meet customer requests for dimensions, temperature zone, installation conditions, etc.

Major features

1 Energy conservation design special to Galilei

The prefabricated controller optimally controls the freezer according to inner temperature. It keeps the inner temperature constant and prevents excessive cooling to achieve energy conservation.

* In the case of separate type

2 Custom-made design

Panel assembly enables free design according to the space of installation site.

3 Speedy construction

Panel assembly enables speedy construction of prefabricated refrigerator and freezer in a short period.

4 Selectable temperature zone

The storage chamber can be used in various temperature zones from refrigeration to freezing according to stored goods.

●Refrigerator: -3°C or higher

●Freezer: -20°C to -18°C

5 User-friendly safety design

Safety design is applied everywhere to the storage chamber including the safe escape handle that prevents a user from being confined in the chamber and the inner light that enables a user to safely operate in the chamber.

6 Non-fluorocarbon panel "econe" series

The high-performance non-fluorocarbon panel "econe" series that introduces new foaming agent "HFO (Hydrofluoroolefin)" is used to achieve both quality and environment-friendliness.

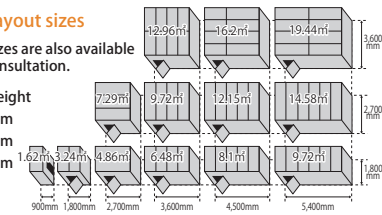
High-quality panel corresponding to applications

- Refrigerator ... Flat-panel specifications (panel thickness: 44mm)
- Freezer ... Flat-panel specifications (panel thickness: 100mm)

List of layout sizes

* Other sizes are also available upon consultation.

- Inner height
- 1,900mm
- 2,200mm
- 2,400mm



Prefabricated Controller

Alarm 4 (Option) Centralized monitoring of temperature abnormalities, fire alarm, and locked-in alarm

Wall panel

Top panel

Manual single sliding door

Corner panel

Thermometer (A digital thermometer is available as an option.)

Door switch (Option)

This energy-saving switch interlocks fan operation with door opening/closing.

Internal light (Inside)

An incandescent LED and straight tube LED are available. Both are of low-temperature and drip-proof type.

Relief valve

This pressure control valve regulates expansion of internal air (only for freezer).

Push bar and safety escape handle

To ensure safety, persons who are locked inside can easily open the doors from the inside.

Energy-saving curtain (Option)

Minimizes cold air leaks from the inside when placing or retrieving stored items.

Cooling unit

(For built-in freezer type)

The two-system prefabricated freezer & refrigerator is designed for storing high-quality high-unit price products such as test drug. (Option)

Separate control by two compressors prevents increase in inner temperature at the time of defrosting and avoids risk in emergency. Therefore, the chamber is ideal for storing high-quality and high-unit price products.

High-freshness control × Risk avoidance

The panel surface material is prepainted steel sheet (soft ivory).

Upright refrigerator & freezer

Refrigerator
-5°C to 10°C

Freezer
-25°C to -15°C



URD-060RMC



URD-120RMC



URD-150RMC

Features

- Reconfigured door frame throat for better energy-saving performance.
- Standard equipped with ground-fault circuit interrupter.
- Mechanical compartment panel holding construction for easier condenser filter clean-up and other routine servicing jobs.

	Model No.	Effective storage capacity	External dimensions	Weight
Upright refrigerator	URD-060RMC	504L	W610×D800×H1,950mm	85kg
	URD-120RMC	1090L	W1,200×D800×H1,950mm	125kg
	URD-150RMC	1381L	W1,490×D800×H1,950mm	145kg
Upright freezer	URD-062FMC	504L	W610×D800×H1,950mm	85kg
	URD-124FMC	1083L	W1,200×D800×H1,950mm	140kg
	URD-154FMC	1374L	W1,490×D800×H1,950mm	160kg

Table type refrigerator & freezer

Refrigerator
-5°C to 10°C

Freezer
-25°C to -15°C



YRC-120RMC



YRC-180RMFC

Features

- Reconfigured door frame throat for better energy-saving performance.
- Standard equipped with ground-fault circuit interrupter.
- Modular construction for easier servicing.

	Model No.	Effective storage capacity	External dimensions	Weight
Table type freezer / refrigerator	YRC-121PMC	Freezer 107L / Refrigerator 104L	W1,200×D600×H800mm	85kg
	YRC-181PMC	Freezer 150L / Refrigerator 234L	W1,800×D600×H800mm	110kg
Table type refrigerator	YRC-120RMC	237L	W1,200×D600×H800mm	75kg
	YRC-180RMFC	411L	W1,800×D600×H800mm	100kg
Table type freezer	YRC-122FMC	237L	W1,200×D600×H800mm	80kg
	YRC-183FMC	410L	W1,800×D600×H800mm	100kg

Icemaker (Cube ice, chip ice, flake ice)

MIRACLEAR

Ice-making capacity
25kg to 480kg
There are diverse variations.

Features

- This icemaker has good water-saving and electric power-saving properties.
- A clear-coating that makes dirt difficult to adhere and easy to remove is used. (External front panel, door, machine chamber panel)



FIC-A25KT5



FIC-A95KT3



FIC-A100CT

	Model No.	Ice-making capacity	Volume of ice storage	External dimensions	Weight
Icemaker (Ice cubes)	FIC-A25KT5	25kg	approx.13.5kg	W398×D450×H800mm	35kg
	FIC-A95KT3	95kg	approx.45.9kg	W1,000×D600×H800mm	67kg
Icemaker (Ice chips)	FIC-A100CT	100kg	approx.34kg	W600×D600×H800mm	61kg
Icemaker (Ice flakes)	FIC-A120FT	120kg	approx.24kg	W600×D600×H800mm	61kg

* Other than the above, models of various sizes are available. * These products require water supply and drainage facilities.

Specifications
P19・20 Options
P21・22

*It is recommended to take fall prevention measures for all models.
* Specifications for most models can be downloaded from our website.
URL <https://www.galilei.co.jp>

Plug-in type commercial glass door cabinet refrigerator & freezer

Refrigerator
0°C to 10°C

Freezer
-25°C to -15°C

Features

- Microcomputer controller control is used.
- The use of double-paned glass improves display and energy-savings.
- Defrosting is regularly performed.

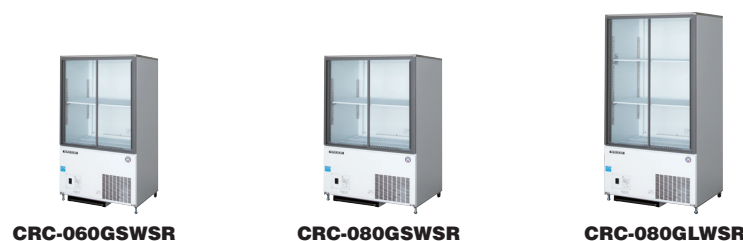


	Model No.	Effective storage capacity	External dimensions	Weight
Plug-in type commercial glass door cabinet refrigerator	UEN-060REC	333L	W610×D650×H1,950mm	90kg
	MSS-A090GHWSR	810L	W1,200×D650×H1,900mm	150kg
Plug-in type commercial glass door cabinet freezer	UEN-060FEC	331L	W610×D650×H1,950mm	100kg

* Other than the above, models of various sizes are available. * These products require wastewater treatment.

Plug-in type reach-in showcase cubic type

3°C to 10°C



Features

- The large inner effective capacity allows the storage of a large amount of products inside.
- The installation of the cooling unit at the bottom makes the height of the show case suitable for smoothly taking out products from inside.
- The use of stainless-steel top plate allows an effective use of the space on the top of the case.

	Model No.	Effective storage capacity	External dimensions	Weight
Plug-in type reach-in showcase cubic type	CRC-060GSWSR	141L	W630×D550×H1,080mm	55kg
	CRC-080GSWSR	173L	W750×D550×H1,080mm	60kg
	CRC-080GLWSR	265L	W750×D550×H1,410mm	70kg

* Other than the above, models of various sizes are available. * These products require wastewater treatment.

Inverter plug-in type commercial multi-deck open spot showcase

3°C to 20°C

Features

- Adopt an inverter Compressor. Advanced temperature control is achieved by inverter control.
- LED lighting is standard equipment on the louver. It evenly illuminates the inside of the showcase.
- Equipped with [Night cover] as standard. It becomes the energy saving by using the night cover when the store is closed.



	Model No.	Effective storage capacity	External dimensions	Weight
Inverter plug-in type commercial multi-deck open spot showcase	MEU-3AGHJT3L	262L	W900×D600×H1,500mm	155kg
	MEK-4AGKJT5L	727L	W1,200×D750×H1,900mm	245kg
	MEK-6AGKJT5L	1,077L	W1,755×D750×H1,900mm	330kg

*It is recommended to take fall prevention measures for all models.

Quick freezer for refrigerants

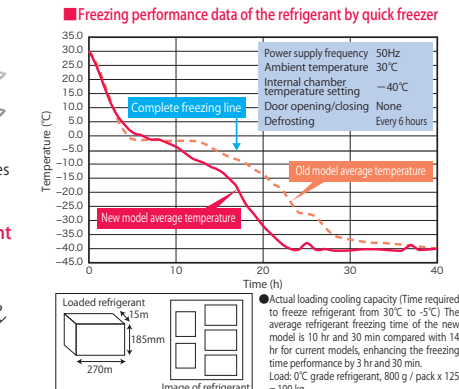
-30°C or lower

Features

- The refrigerant packs are economical as they can be repeatedly used by refreezing.
 - The running costs are lower than ice and dry ice.
- * Dry ice should be handled carefully as it may cause frostbite and generates carbon dioxide gas.



GKD-082FMD1-S



	Model No.	Effective storage capacity	External dimensions	Weight
Quick freezer for refrigerants	GKD-082FMD1-S	475L	W755×D800(870)×H1,950mm	125kg

* This product requires drainage facilities.

Blast chiller / Shock freezer

Features

- Rapidly cool and freeze hot foods and samples.
- Proprietary suction circulation method demonstrates good cooling capacity.
- The internal structure makes cleaning easier and an internal drying mode comes as standard equipment.
- Operation data can be saved via the USB port (option).



	Model No.	Storage capacity	External dimensions	Weight
Blast chiller / Shock freezer	QXF-012SFSV2	1/1 pan or grid: 12 units	W770×D880(932)×H1,882mm	225kg
	QXF-006SFLT2	1/1 pan or grid: 6 units	W1,200×D750(802)×H800mm	145kg

* These products require drainage facilities. * Photo shows a product fitted with pans (option).

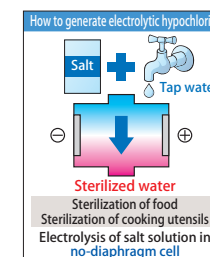
Electrolytic Hypochlorite Generator FE Clean Water FE clean water



FE-1U-10000
All-in-one type



FES-12L
5L tank



Economical, at the low cost of only 0.3 yen* per liter. Open the faucet and out it comes, just like tap water!

* For a chloride concentration of 40 ppm, tap water at 205 yen/t, salt at 100 yen/kg, and electricity unit rate of 27 yen/kWh.

FE clean water has the same components as sodium hypochlorite.

Features

- Large generation volume means that electrolytic hypochlorite can be produced just by opening the faucet. (12.5 L/m: 40 ppm)
- Multiple faucets can be installed.
- The effective chloride concentration can be set to one of four levels.
- Produces electrolytic hypochlorite of a constant concentration without past issues with dilution or inconsistent concentrations caused by dilution errors.
- Sterilization and cleaning of foods such as vegetables and fish
- Sterilization and cleaning of cooking utensils such as cutting boards and knives
- Sterilization of dish and hand towels
- Sterilization of processing equipment
- Sterilization and deodorization of floors and drainage channels

	Model No.	Salt tank capacity	Main body external dimensions	Weight
FE clean water	FES-12L	5L	W250×D210×H320mm	10Kg
	FES-12H	20L	W250×D210×H320mm	10Kg
	FE-1U-10000	Built-in salt tank	W1,000×D600×H1,790mm	150Kg(empty mass) / 300Kg(when the water is full)
	FES-12S(Simple installation)	5L	W250×D210×H320mm	10Kg

* This product requires water supply and drainage facilities.

Coldtainer

-20°C to 38°C

- The cold box that can be mounted inside a vehicle and operated with cigar socket and battery.
- Can be used from -20°C to 38°C
- HACCP temperature control
- Full charging is complete in about 8 hours. The electricity cost is about 16 yen per time (battery type).



T0022/FDH



T0056/FDH Auo

	Model No.	Effective storage capacity	External dimensions	Weight	
Coldbox	T0022/FDH	DC power supply type	22L	W375×D585×H480mm	21kg
	T0056/FDH Auo	Battery type	56L	W800×D495×H500mm	36.5kg

Specifications
P19·20 Options
P21·22

*It is recommended to take fall prevention measures for all models.
* Specifications for most models can be download from our website.
URL <https://www.galilei.co.jp>

Cold storage locker

2°C to 12°C
(Unit of 1°C)
Same temperature for all lockers

Features

- Microcomputer controller control is used.
- The use of double-paned glass improves display and energy-savings.
- Defrosting is regularly performed.



HPK-8R9



Easy removal of inner box

	Model No.	Effective storage capacity	External dimensions	Weight
Cold storage locker	HPK-8R9	36L×8Box (Total288L)	W1,000×D544 (569) × H1,815mm	145kg

Freezing stocker

-20°C

Features

- Large-capacity, large-volume freezing storage



SH-170XD



SH-280XD



SFS200T

	Model No.	Effective storage capacity	External dimensions	Weight
Freezing stocker	SH-170XD	140L	W611×D662×H893mm	45kg
	SH-280XD	238L	W901×D662×H893mm	54kg
	SFS200T	198L	W549×D560×H1,636mm	53kg

Compact refrigerator

10°C or lower

Features

- Glass doors make the management of materials inside easy. (AG series)
- Compact design enables installation in any location.



AG-63WB



AGV-G390X



A40S2

	Model No.	Effective storage capacity	External dimensions	Weight
Compact refrigerator	AG-63WB	63L	W434×D446×H854mm	39kg
	AGV-G390X	96L	W423×D474.5×H1,378mm	59kg
	A40S2	33L	W405×D466×H550mm	15.3kg

* Products of various sizes are available.

Temperature measurement-related equipment

Mini-thermometer data logger testo 174T

1ch temperature logger with a built-in temperature sensor



testo 174T set

- Temperatures can be measured down to -30°C.

Thermometer data logger testo 175T1

1ch temperature logger with a built-in thermistor



- Temperatures can be measured down to -35°C.
- The SD card enables data collection.

Temperature monitoring system testo Saveris

For remotely monitoring temperature of prefabricated refrigerators



- Wireless temperature monitoring with PC from a remote location
- Alarm functions

* This product is custom-made. Please inform Fukushima of control requirements.

	Model No.	Measurement ranges	External dimensions	Battery life
Temperature measurement-related equipment	testo 174T set	-30°C to +70°C	60×38×18.5mm	Approx. 500 days
	testo 175T1	-35°C to +55°C	89×53×27mm	Approx. 3 years

* Various sizes are available.

* It is recommended to take fall prevention measures for all models.

HACCP EXaround

HACCP control support system

Temperature control plan

Automatic recording of cold equipment temperature

Monitors and records temperature of cold equipment at stores automatically for 24 hours. Automatically reports an occurrence of abnormality



Data can be browsed on the WEB

Since the data are accumulated on cloud, the same data can be browsed anywhere from the headquarters and stores.

Monitors and Records for 24 hours and 365 days

Automatic recording realizes reliable recorded data, eliminating omission of records and mistakes by manual operation. Conditions of equipment is also recorded in addition to temperature.

Notify by email at an occurrence of abnormality

If abnormality of equipment occurs, the alert will be issued by email. Eliminates labor shortages in facility management and prevents product loss.

Data are downloadable

Only required data can be downloaded for use when it is necessary. Paperless operation reduces administrative work.

Hygiene management plan

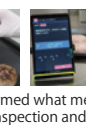
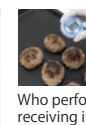
Record management of food temperature

Temperature data of commodities measured with dedicated thermometer are automatically recorded.

Temperature data are recorded on the cloud together with the data of operators and food.

Record of hygiene management
Individual hygiene and cleaning at facilities are recorded on the cloud using a tablet.

Tablet and central / radiation thermometer



Who performed what measurement at receiving inspection and cooking are recorded.



- Individual hygiene records
- Various general hygiene records, etc.
- Support noncontact clinical thermometer



Management conditions can be checked from your smartphone and PC.

- Various master control
- Accumulation of recorded data
- Report output



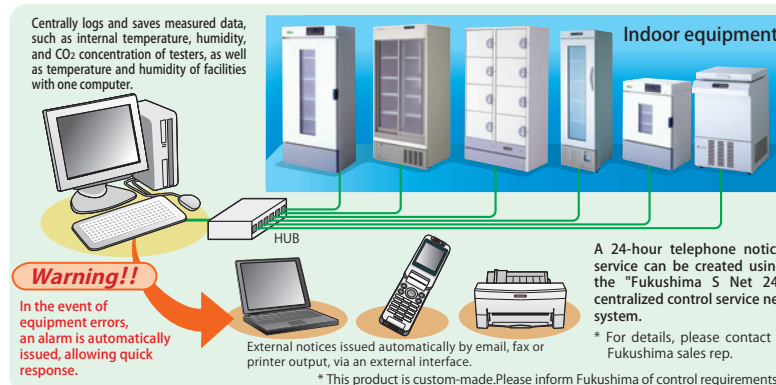
- Complies with by various HACCP manuals (Supported manual is added at any time)
- Implementation results electronic approval functions are mounted.
- Organized HACCP management is supported.

Equipment centralized control system for the pharmaceutical industry

Triple S

SSS master

- Compliant with electronic data standards FDA 21CFR Part.11 (Part 11 of Title 21 of the Code of Federal 20 Regulations) for the pharmaceutical industry
- All equipment in the facilities can be efficiently controlled from one computer.
- Automatic data saving prevents the risk of forgetting saving records.
- Measurement errors are monitored in real-time.
- Data falsification preventive function, access privilege setting, etc.



Matters to check before purchase

- Check the storage conditions of targeted storage items.
- Choose the size of refrigerator that enables 60% of its effective internal capacity to be used for storage. If excessively packed, stored items are not sufficiently cooled and the amount of power consumption increases.
- Check the installation environment for air conditioning and nighttime air conditioning. High temperature and humidity reduce the life of refrigerators and may cause condensation and frost.
- Check the power source. An improper power source may prevent normal operations.
- Check the outlet shape.
- Check the opening of doors. Our products can be made with either a right-hand-opening door or a left-hand-opening door. (Must be determined before shipment; Option.)
- Check if the installation space and neighboring equipment generate high temperatures.
- Check the transport route (if an elevator can be used and how much opening the doors have)

*If products must be transported to the installation site

Please inform GALILEI of transport conditions.

(Work description)

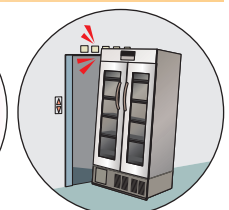
Use of an elevator

Number of stories that the product needs to be carried up

Use of cranes (The installation site including transport route opening needs to be checked)

Presence or absence of used products that require removal and disposal

Size and weight of used products that require removal and disposal



Specifications
P19・20

Options
P21・22

* It is recommended to take fall prevention measures for all models.
* Specifications for most models can be downloaded from our website.
URL <https://www.galilei.co.jp>

Product specifications

	Product name	Model name	Temperature zone				MediFridge energy-saving	Space-saving (W800 or lower)	Microcomputer control and digital display	Lock	Alarm function		External output (Option)	Door		Defrost		Electric leakage breaker	Power		Caster	Color variations	Model name	
			Ultra-low temperature	Freezing	Refrigeration	Temperature-controlled								Sliding door	Door	Manual	Automatic		Single-phase 100V	Three-phase 200V				
MediFridge series	Compact medical cool box	FMS-054GM					●	●	●	●	●○		○		●		●★		●		○	FMS-054GM		
	Medical cool box	FMS-304GU					●	●	●	●	●○		○		●		●★	●	●		○	FMS-304GU		
		FMS-504G(-SR)					●	●	●	●	●○		○		●		●★	●	●		○	FMS-504G(-SR)		
		FMS-1004G					●		●	●	●○		○		●			●	●		○	FMS-1004G		
		FMS-F154GS					●	●	●	●	●○		○		●	● (freezer)	●★ (refrigerator)	●	●		○	FMS-F154GS		
		FMS-F304G					●	●	●	●	●○		○		●	● (freezer)	●★ (refrigerator)	●	●		○	FMS-F304G		
	Medical freezer & refrigerator	FMS-F404G					●		●	●	●○		○		●		● (freezer)	●★ (refrigerator)	●	●		○	FMS-F404G	
	Medical freezer	FMF-301F					●	●	●	●	●○		○		●	●				●		○	FMF-301F	
FMF-501F						●		●	●	●○		○		●	●				●		○	FMF-501F		
FMF-501FD						●		●	●	●○		○		●	●				●		○	FMF-501FD		
Medical cool box series	Slim-type medical cool box	FMS-124GS						●	●	●	●○		○		●		●★	●	●		○	FMS-124GS		
		FMS-174GS						●	●	●	●○		○		●		●★	●	●		○	FMS-174GS		
		FMS-304GS						●	●	●	●○		○		●		●★	●	●		○	FMS-304GS		
	Medical cool box	FMS-650L						●	●	●	●○		○		●		●★	●	●				FMS-650L	
		FMS-1400L							●	●	●○		○		●		●★	●	●				FMS-1400L	
		FMS-300GH							●	●	●○		○	●			●★	●	●				FMS-300GH	
		FMS-400GH							●	●	●○		○	●			●★	●	●				FMS-400GH	
		Medical cold storage showcase	FMS-500GH(-SR)						●	●	●○		○	●			●★	●	●				FMS-500GH(-SR)	
FMS-800GH(-SR)						●	●	●	●○		○	●			●★	●	●				FMS-800GH(-SR)			
Low temperature incubator series	Low temperature incubator	FMU-054I						●	●	○	●○		○		●		●	●	●				FMU-054I	
		FMU-133I						●	●	●	●○		○		●		●	●	●				FMU-133I	
		FMU-204I						●	●	●	●○		○		●		●	●	●				FMU-204I	
		FMU-263I						●	●	●	●○		○		●		●	●	●				FMU-263I	
		FMU-404I						●	●	●	●○		○		●		●	●	●				FMU-404I	
		FMU-100I-HC						●	●	●	●○		○		●		●	●	●				FMU-100I-HC	
		FMU-180I-HC						●	●	●	●○		○		●		●	●	●				FMU-180I-HC	
		FMU-230I-HC						●	●	●	●○		○		●		●	●	●				FMU-230I-HC	
FMU-380I-HC						●	●	●	●○		○		●		●	●	●				FMU-380I-HC			
Freezer series	Ultra-low temperature freezer	FMD-D350ESH							●	●	●				●	●		●				FMD-D350ESH		
		FMD-D520ETH							●	●	●				●	●		●	●				FMD-D520ETH	
		FMD-W330ESH							●	●	●				●	●		●					FMD-W330ESH	
		FMD-D600ETRL							●	●	●				●	●		●					FMD-D600ETRL	
		FMD-D700ETRL							●	●	●				●	●		●					FMD-D700ETRL	
		FMD-500E1							●	●	●		○		●				●	●				FMD-500E1
		FMD-700E1							●	●	●		○		●				●	●				FMD-700E1
		FMD-200D1							●	●	●		○		●				●	●				FMD-200D1
FMD-300D1							●	●	●		○		●				●	●				FMD-300D1		
FMD-500D1							●	●	●		○		●				●	●				FMD-500D1		
FMD-700D1							●	●	●		○		●				●	●				FMD-700D1		
LAB series	Ultra-low temperature freezer	LAB85						●	●	●	●		○		●	●		●					LAB85	
		LAB11						●	●	●	●		○		●	●		●					LAB11	
		LAB21							●	●	●		○		●	●		●					LAB21	
		LAB31							●	●	●		○		●	●		●					LAB31	
		LAB41						●	●	●		○		●	●		●					LAB41		
FMF series	Medical freezer personal	FMF-038F1-C						●	●	●	●		○		●	●		●					FMF-038F1-C	
		FMF-038F1						●	●	●	●		○		●	●		●					FMF-038F1	
		FMC-41PNBSAXL (R)							●		●		○				●		●				FMC-41PNBSAXL (R)	
FMC series	Cold bench	FMC-61PNBSAXL (R)						●		●		○						●		●		FMC-61PNBSAXL (R)		
FMM series	Clean bench	FMM-240TCB																●	●				FMM-240TCB	
		FMM-320TCB																●	●				FMM-320TCB	
	Commercial refrigerator	URD-060RMC						●	●	○	●(*)		○		●		●	●			○		URD-060RMC	
		URD-120RMC							●	○	●(*)		○		●		●	●			○		URD-120RMC	
		URD-150RMC							●	○	●(*)		○		●		●	●			○		URD-150RMC	
		URD-062FMC						●	●	○	●(*)		○		●		●	●			○		URD-062FMC	
		URD-124FMC							●	○	●(*)		○		●		●	●			○		URD-124FMC	
		URD-154FMC							●	○	●(*)		○		●		●	●			○		URD-154FMC	
		YRC-121PMC							●	○	●(*)		○		●		●	●			○		YRC-121PMC	
		YRC-181PMC							●	○	●(*)		○		●		●	●			○		YRC-181PMC	
YRC-120RMC							●	○	●(*)		○		●		●	●			○		YRC-120RMC			
YRC-180RMFC							●	○	●(*)		○		●		●	●			○		YRC-180RMFC			
YRC-122FMC							●	○	●(*)		○		●											


FMS series option




Temperature recorder
(Comes with one year's worth of recording paper.)



Drug safe
Large size:W305×D214×H363mm
Small size:W255×D150×H215mm



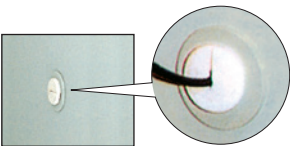
Light shield film specification



Glassless specification



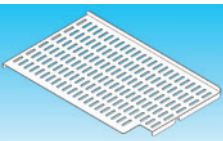
Right-hand-opening specification
Reversal of the standard left-hand-opening



Measurement hole
Inside diameter: φ 40



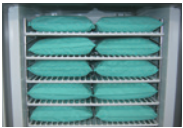
Storage basket
Large size:W162.5×D466×H123mm
Small size:W162.5×D266×H123mm



Flat rack
(Punched plate for small bottles)



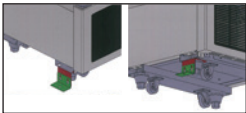
Sliding rack specification
● Convenient for placing and retrieving chemicals and samples
* Sliding racks are for the right-hand side only.
* FMS-1004G is only left-sided half.



Cooling pillow storage rack
○ For FMS-F154GS
Can store up to 10 cooling pillows.
○ For FMS-F304G
Can store up to 20 cooling pillows.
* Cooling pillows are optional.



Overturning prevention metal fitting for back face (Standard equipment)




Quake-resistance fixing metal fitting for leg (Option)
* The mounting expense is separately required.
* Both metal fittings are equipped as standard for refrigerators designed for storing blood.


	Medical cool box MediFridge	Medical freezer & refrigerator MediFridge			Slim-type medical cool box MediFridge	Medical cool box		Medical cold storage showcase (Sliding specification)
	FMS-304GU, 504GS, 1004G	FMS-F154GS	FMS-F304G	FMS-F404G	FMS-124GS, 174GS, 304GS	FMS-650L	FMS-1400L	FMS-300GH,400GH, 500GH,800GH (Common for -SR models)
Temperature recorder	○	○	○	○	○	○	○	○
Temperature recorder mounting bracket	○	○	○	○	○	○	○	○
Drug safe (Large size)	○	○	○	○	○	○	○	○
Drug safe (Large size) mounting bracket	○	○	○	○	○	○	○	○
Drug safe (Small size)	○	○	○	○	○	○	○	○
Drug safe (Small size) mounting bracket	○	○	○	○	○	○	○	○
Light-shielding film specification (Set of doors)	*	×	○	○	×	×	○	○
Light-shielding film specification (Door)	×	○	×	×	○	○	×	×
Glassless specification	○	○	○	○	○	○	○	×
Right-hand-opening specification	—	○	—	—	○	○	—	—
Measurement hole	○	○ (Only refrigerator)	○ (Only refrigerator)	○ (Only refrigerator)	○	—	—	○
Storage basket (Large) (Small)	○	○	○	○	○	○	○	○
Punched plate	○	○	○	○	○	○	○	○
Sliding rack	↻	×	×	×	↻	×	×	↻
External alarm contact output (No-voltage contact point)	○	○	○	○	○	○	○	○
Quake-resistance fixing metal fitting for leg (two sets)	○	○	○	○	○	↻	↻	○
Racks (With 4 rack supports)	○	○	○	○	○	○	○	○
Color variation	○	○	○	○	○	×	×	×

○ : Available as an option — : Standard equipment × : Unavailable
↻ : Contact Fukushima or an authorized dealer.

FMS-054GM option



Subdivided storage case
Example of storage



Storage set with lock
Example of use

Subdivided storage case		Tray internal dimensions	Color
	AT-8	W113×D73×H58	Clear white
	AT-10	W240×D73×H59	Light green
	A T -11	W56×D70×H58	Light yellow
Storage set with lock		Drawer internal dimension	Color
	①	W213×D161×H110×1	Transparent / amber
	②	W103×D160×H112×2	
	③	W103×D160×H112×1	
	④	W103×D162×H51×2	
Storage set with lock		W103×D162×H51×4	
	Color variations	○	
	Temperature recorder	○	
	Thermo recorder mounting fitting	○	
Right-hand-opening specification		○	

FMU series option

	FMU-054 I	FMU-133 I	FMU-204 I	FMU-263 I	FMU-404 I	FMU-100 I -HC	FMU-180 I -HC	FMU-230 I -HC	FMU-380 I -HC
Light shielding plate	—	○	○	○	○	○	○	○	○
Right-hand-opening specification	○	○	○	○	○	○	○	○	○
Lighting timer specification	○	○	○	—	—	○	○	○	○
Lock specification		—	—	—	—	—	—	—	—
Base (Separate shipping cost required)				×	×	×	×	×	×
Glass windowless door specification	○	○	○	○	○	○	○	○	○
Racks (With 4 rack supports)	○	○	○	○	○	○	○	○	○
Quake-resistance fixing metal fitting for leg (two sets)	×	○	○	○	○	○	○	○	○
External alarm	○	○	○	○	○	○	○	○	○

Prices in table are standard prices. (excl. tax) — Standard equipment × Unavailable



Lighting timer specification
(The built-in 24-hour timer turns lighting on/off automatically.)



Special base for FMU-054I
External dimensions:W600×D600×H750mm
Special base for FMU-133I/100I-HC
External dimensions:W820×D586×H1,175mm
Special base for FMU-204I/180I-HC
External dimensions:W820×D816×H1,175mm

FMF series option

	FMF-501FD	FMF-501F	FMF-301F	FMF-038F1	FMF-038F1-C
Temperature recorder	○	○	○	○	○
Temperature recorder mounting bracket A	○ (2 units are required)	○	○	×	×
Temperature recorder mounting bracket B	×	×	×	○	○
External alarm output	○	○	○	○	○
Basket	○	○	○	×	×
Rack plate (With 4 rack supports)	○	○	○	×	×
Quake-resistance fixing metal fitting for leg (two sets)	○	○	○	×	×
Door latch handle specification	○	○	○	×	×

○ Available × Unavailable

LAB series option

■ Storage rack and Box (Target model: LAB)

Model	Rack dimensions (mm)	Storage
KR-11	W140×D140×H610	11-row storage rack
KR-06	W140×D140×H330	6-row storage rack
KR-11D	W162×D151×H606	11-row storage rack
KR-06D	W162×D151×H331	6-row storage rack
KB-5D	W204×D156.5×H591	5-row storage box
KB-3D	W204×D156.5×H355	3-row storage box

■ Number of storage racks and boxes

	LAB8	LAB11	LAB21	LAB31	LAB41
pattern①	KR-11 3	6	12	18	21
	KR-06 3	3	3	3	3
pattern②	KR-11D 2	4	8	12	14
	KR-06D 2	2	2	2	2
pattern③	KB-5D 2	4	8	10	12
	KB-3D 2	2	2	2	2



Model: KR-11



Model: KR-06




Storage rack and Box
Convenient dedicated rack for storage(Target model: LAB)




Model: KB-5D
*Equipped with upper handle

FMD series option * Regarding other options, please contact our persons in charge.

■ Auxiliary cooling equipment




Model: RS-BUT1 (for 100V)
RS-BUT2 (for 200V)




Model: COB-UP1-JP (for 100V)
COB-UP2-JP (for 200V)

This device prevents increase in temperature inside the box by injecting liquefied carbon dioxide inside the freezer in the case of emergency including power outage or malfunction of freezer.


■ Temperature recorder




testo176-T2



Flat cord temperature cable



USB cable



SD card

Temperature logger set for ultra low temperature freezers

<< Set contents >>
Temperature logger testo 176-T2 (external two points type)
Flat cord temperature cable (L=4,000mm)
USB cable (L=2,000mm)
SD card (2GB)

Note) 1. Customers are requested to prepare liquefied carbon dioxide gas canister (siphon tube type) and regulator.
2. Please install bomb in place where ambient temperature 30℃ becomes following.
Gas canisters should be installed at a place where ambient temperature becomes 30℃ or lower.
(If the ambient temperature exceeds 31℃, the cooling capacity will be quickly lost.)
3. Temperature holding time will be about 7 hours with the use of 30 kg of gas canister. (In the case of high temperature alarm temperature: - 70℃, Ambient temperature: 30℃)

■ Storage rack

This light-weight highly-durable aluminum-made rack with alumite finish is dedicated to the freezing tube storage box.



Model: RS-R20T



Model: RS-R10Y

Model	Corresponding storage rack	Maximum rack storing number
FMD-500E1	RS-R20T1	8 in total
	RS-R24T1	8 in total
FMD-700E1	RS-R20T1	12 in total
	RS-R24T1	12 in total
FMD-200D1	RS-R07Y1	15 in total
	RS-R054Y1	15 in total
FMD-300D1	RS-R10Y1	18 in total
	RS-R074Y1	18 in total
FMD-500D1	RS-R12Y1	21 in total
	RS-R094Y1	21 in total
FMD-700D1	RS-R12Y1	30 in total
	RS-R094Y1	30 in total
FMD-D350ESH	RS-R16T1, RS-R20T1	6 for each, 12 in total
FMD-D520ESH	RS-R20T1, RS-R24T1	8 for each, 16 in total
FMD-W330ESH	RS-R16T1	11 in total
FMD-D600ETRL	RS-R20T1	19 in total
FMD-D700ETRL	RS-R20T1	23 in total

Model	Rack dimensions	Conforming storage box	Storage capacity
RS-R16T1	W140×D571×H225mm	W134×D134×H52mm or smaller	16
RS-R20T1	W140×D571×H281mm		20
RS-R24T1	W140×D571×H336mm		24
RS-R07Y1	W162×D157×H399mm	W148×D148×H52mm or smaller	7
RS-R10Y1	W162×D157×H565mm		10
RS-R12Y1	W162×D157×H676mm		12
RS-R054Y1	W162×D157×H408mm	W148×D148×H78mm or smaller	5
RS-R074Y1	W162×D157×H581mm		7
RS-R094Y1	W162×D157×H744mm		9

The storage box is option. (Commercialized product of identical dimensions is available.)

Precautions for use:
This product should be never used for storing explosive and combustible materials, materials containing explosive and combustible materials, and materials with residue or mixing of explosive and combustible materials.