



FY2015~2016 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

Energy-saving, high-accuracy control models

MediFridge Series

For Multi Solution



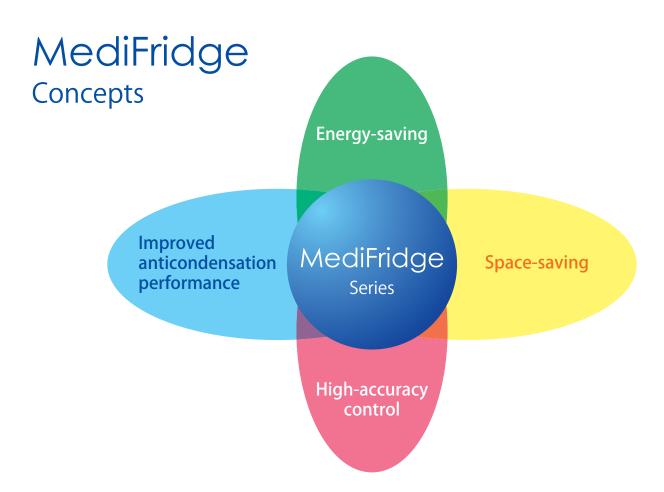
Flagship models of freezers and refrigerators that change the common sense of freezing and refrigerating storage of specimens and chemicals.

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 Series



Medical cool box

Achieves high-accuracy temperature control and energy-saving performance by reducing the amount of power consumption about 50% compared with previous models.

▶ ▶ See page 5.



Compact medical cool box

Temperature indication, alarm functions, and a locking device come as standard equipment.

▶ ▶ See page 5.



Medical freezer & refrigerator

Increased storage capacity and a rack-equipped freezer make it easier to use.

▶ ▶ See page 6.



NEW

Medical freezer

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

▶ ▶ See page 6.

MediFridge Series

Features of the "MediFridge" series

Medical cool box

Compact medical cool box

Medical freezer & refrigerator

Medical freezer **NEW**

Medical cool box series

P7~8

P3~6

Slim-type medical cool box

Medical cool box

Color variations

Medical cold storage showcase

Low temperature incubator series

Р9

Low temperature incubator Low temperature incubator BC

Freezer series

P10

Medical freezer personal

Ultra-low temperature freezer (Dual / single compressor) Ultra-low temperature freezer (Single compressor)

Other cool boxes and associated equipment

P11

Cold bench

Tabletop type clean bench

Large-size assembly series

P12~13

Prefabricated type refrigerator

Prefabricated type freezer

Prefabricated type temperature-controlled storage

Commercial equipment and other associated equipment

P14~18

Commercial refrigerator & freezer

Reach-in showcase with built-in freezer

Reach-in showcase cubic type **NEW**

Icemaker (Cube ice)

Chip ice maker **NEW**

Inverter-controlled multistage open showcase

Quick freezer for refrigerants

Blast chiller / Shock freezer

FE clean water, temperature-controlled serving wagon, Cold storage locker Freezing stocker, Compact refrigerator, Temperature measurement-related equipment

Products materials

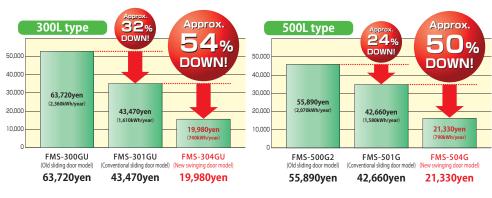
P19~22

Product specifications
Options

Features of the "MediFridge" series

Energy-saving performance

Comparison of annual running costs



- * 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 an reference unit rate of 27 yen/kWh (consumption tax included).

[Source

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

Review of the structure and optimization of the compressor

Changing the conventional sliding doors to swinging doors enhanced sealing around the doors, which greatly reduced heat leakage and intrusion. Moreover, changing the resin-frame glass doors to urethane foam-insulated glass doors reduced heat transfer coefficient.

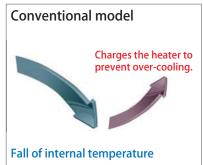
Because thermal influences were minimized, the refrigerating cycle was optimized and downsized. Moreover, large energy-savings were achieved while maintaining the cooling capacity and temperature accuracy of conventional models.

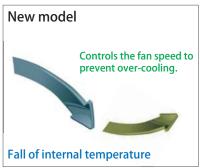


Optimization of temperature control

As with temperature-controlled chambers, over-cooling due to excessive freezer capacity is conventionally prevented by charging the heater. Because electricity was unnecessarily consumed in heater use, the new model successfully prevents over-cooling by controlling the fan speed instead of the heater.

By optimizing temperature control in this way, wasted electricity was reduced and large energy-savings were achieved.



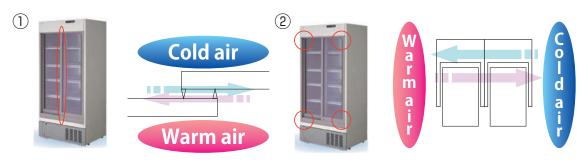


Automatic closing doors with an eccentric shaft

Owing to eccentric rotating shafts, the swinging doors close under their own weight if opened less than 90. This mechanism automatically closes the doors if left open or if they bounce back open after being strongly shut. Since a door sensor comes as standard equipment, the medical cool box provides enhanced security and a safer storage environment.

Improved anticondensation performance

Conventional sliding doors structurally have numerous spaces where doors overlap ① and moving parts operate ②. Therefore, the glass surface is cooled by leaked cold air and condensation easily forms. Moreover, the resin frames readily allow heat transfer and condensation when air cools.In the new models, the doors are sealed against the frame on all sides by packing. This eliminates the structural spaces seen in sliding doors and prevents cold air from leaking. Moreover, the use of urethane foam-insulated glass doors reduces heat leakage from the doors themselves.These structural changes have improved anticondensation performance.

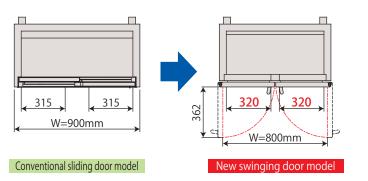


Simultaneous pursuit of space-savings and usability

Since the product is 800mm wide, which is 100mm slimmer than conventional products, space-saving installation is now possible. Sliding doors are disadvantageous because only one door can be opened at a time and the front opening is small. However, the use of swinging doors increases the front opening compared with conventional models and enhances product usability.

A minimum clearance of 500 mm was required in front of conventional products to place and retrieve materials. However, since the swinging doors extend outwards 362 mm at most when opened, the minimum clearance can be secured in the new models

as well without requiring extra space for installation.

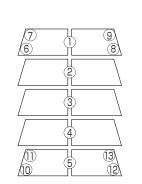


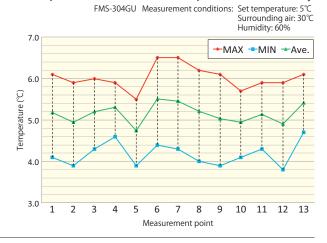


High accuracy temperature control (Temperature uniformity and constancy)

Temperature is measured in 13 points in total: 5 points at the center and 4 points at each the top and bottom. Therefore, the medical cool box demonstrates superior temperature performance with a temperature uniformity within 1° C and a temperature constancy within $\pm 2^{\circ}$ C.

Moreover, because temperature control respond to changes in the set and ambient temperatures, the cool box provides a reliable cold storage environment that is less affected by disturbance.





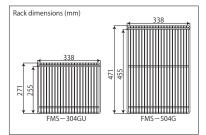
Medical cool box MediFridge

2°C to 14°C (Unit of 1°C)



FMS-504G





Features

- Running costs are reduced approx. 50% compared with conventional models.
- Anticondensation performance is markedly improved compared with conventional models.
- Automatic closing doors with eccentric shafts
- Reliable mechanism with door sensor as standard equipment
- * Conventional models: FMS-301GU, FMS-501G (Sliding door models)

	Model No.	Effective storage capacity	$\textbf{External dimensions $^{\$}$ The figures in parentheses are the maximum dimension including protruding parts.}$	Number of racks	Weight
Medical cool box	FMS-304GU	300L	W800×D450 (552) ×H1,825mm	10	100kg
MediFridge	FMS-504G	500L	W800×D650 (752) ×H1,825mm	10	112kg

Compact medical cool box MediFridge





FMS-054GM

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	$\label{thm:continuous} \textbf{External dimensions *} \textbf{The figures in parentheses are the maximum dimension including protruding parts.}$	Basket	Weight	
Compact medical cool box	FMS-054GM	42L	W500×D452 (482) ×H690mm	2 units	27kg	

For controlling poisons and powerful drugs

Example of lockable storage set (Option)





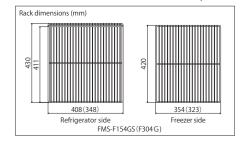
Medical freezer & refrigerator MediFridge







FMS-F304G when the doors are opened



Features

- Medical freezer & refrigerator with a small installation footprint but large capacity
- Freezer with height-adjustable racks to improve usability
- Automatic closing doors with eccentric shafts
- Reliable mechanism with door sensor as standard equipment

	Model No.	Effective storage capacity	$\label{prop:external dimensions *The figures in parentheses are the maximum dimension including protruding parts.}$	Number of racks	Weight
Medical freezer	FMS-F154GS	Refrigerator 174L Freezer 62L	W500×D600 (702) ×H1,825mm	Refrigerator 3 Freezer 1	95kg
refrigerator	FMS-F304G	Refrigerator 315L Freezer 113L	W800×D600 (702) ×H1,825mm	Refrigerator 6 Freezer 2	132kg

Medical freezer MediFridge









Dual independently control chambers



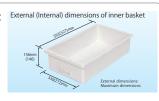
Features

- Use of the same sized baskets ensures easy storage and handling.
- Wall cooling keeps internal temperature stable.
- Four-wheel casters allow easy movement.
- Reliable mechanism with door sensor as standard equipment.

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.



	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Basket	Weight
	FMF-301F	300L	W500×D729(781)×H1,795mm	7 units	95kg
Medical freezer	FMF-501F	548L	$W820 \times D729 (781) \times H1,795 mm$	14 units	125kg
	FMF-501FD	516L	W820×D729(796)×H1,795mm	12 units	144kg

Slim-type medical cool box

2°C to 14°C (Unit of 1°C)







FMS-303GS

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

Features

- A width of only 50cm allows space-saving installation.
- Automatic closing door with eccentric shaft.
- Reliable mechanism with door sensor as standard equipment.

7) 097	260 (460)		
		EMS-123/173 (303) GS	
		FMS-123/173 (303) GS	

	Model No.	Effective storage capacity	External dimensions *The figures in parentheses are the maximum dimension including protruding parts.	Number of racks	Weight
	FMS-123GS	115L	W500×D450 (552) ×H1,360mm	3枚	72kg
Slim-type medical cool box	FMS-173GS	177L	W500×D450 (552) ×H1,827mm	5枚	90kg
	FMS-303GS	297L	W500×D650 (752) ×H1,827mm	5枚	105kg

Medical cool box

2°C to 23°C (Unit of 1°C)





 $\ensuremath{^{*}}$ 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.

Model No.	Effective storage capacity	$\label{thm:constraints} \textbf{External dimensions *The figures in parentheses are the maximum dimension including protruding parts.}$	Number of racks	Weight
FMS-650L	635L	W770×D795 (897) ×H1,905mm	4	126kg
FMS-1400L	1355L	W1,500×D795 (897) ×H1,905mm	8	206kg

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

44 Right

44



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.



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

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).

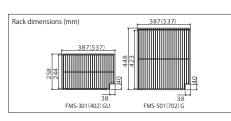
Medical cold storage showcase





FMS-702G





	Model No.	Effective storage capacity	$\label{thm:external dimensions *The figures in parentheses are the maximum dimension including protruding parts.}$	Number of racks	Weight
Medical cold storage showcase	FMS-301GU	309L	W900×D450 (500) ×H1,917mm	10	145kg
	FMS-402GU	436L	W1,200 × D450 (500) × H1,917mm	10	170kg
	FMS-501G	552L	W900×D650 (700) ×H1,917mm	10	160kg
	FMS-702G	770L	W1,200×D650 (700) ×H1,917mm	10	195kg
	FMS-301GU-SR	275L	W900×D450(500)×H1,917mm	5	149kg
Medical cold storage showcase	FMS-402GU-SR	402L	W1,200 × D450 (500) × H1,917mm	5	175kg
Sliding rack specification	FMS-501G-SR	497L	W900×D650 (700) ×H1,917mm	5	166kg
3 ,	FMS-702G-SR	715L	W1,200×D650 (700) ×H1,917mm	5	202kg

^{*} 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.

Low temperature incubator











Special base for FMU-054I External dimensions: W600×D600×H750mm Special base for FMU-133I External dimensions: W820×D586×H1,125mm

Special base for FMU-204I External dimensions: W820×D816×H1,125mm

Rack dimensions (mm)

	Х	Y
FMU-054I	385	302
FMU-133/263I	605	313
FMU-204/404I	605	518

FMU-054I

* No locking device or lighting

FMU-133I

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.

	Model No.	Effective storage capacity	$\label{thm:constraints} \textbf{External dimensions *The figures in parentheses are the maximum dimension including protruding parts.}$	Number of racks	Weight
	FMU-054I	50L	W483×D487 (554) ×H685mm	2	40kg
	FMU-133I	130L	W700×D502 (569) ×H1,063mm	3	70kg
Low temperature incubator	FMU-204I	207L	W700×D732 (799) ×H1,063mm	3	100kg
incubator	FMU-263I	259L	W700×D502 (569) ×H1,633mm	5	95kg
	FMU-404I	408L	W700×D732 (799) ×H1,633mm	5	120kg

Low temperature incubator BC (High-accuracy model)





FMU-404I-BC



Internal side ducts

Rack dimensions (mm)

Features

- This high-accuracy model uses side ducts to further reduce temperature fluctuations.
- Ideal for storing materials and infusion solutions that require careful temperature control

	Model No.	Effective storage capacity	External dimensions * The figures in parentheses are the maximum dimension including protruding parts.	棚網枚数	Weight
Low temperature	FMU-263I-BC	243L	W700×D502 (569) ×H1,633mm	8枚、スノコ板1枚	95kg
incubator BC	FMU-404I-BC	383L	W700×D732 (799) ×H1,633mm	8枚、スノコ板1枚	120kg

Medical freezer personal







FMF-038F1-C

FMF-038F1

- 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 (in 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

FMF-038F1-C Equipped with 2 baskets ensions Basket Weight

FMF-038F1

Ultra-low temperature freezer (Dual / single compressor)



Features

Features

- This highly safe cooling system uses two single compressor systems.
- The freezer is equipped with a vacuum release mechanism that prevents internal temperature from rising.
- High operability is achieved with the full touch screen controller.





HKF-350CDWI

		Model No.	Effective storage capacity	External dimensions	Weight
		HKF-300SWI	308L	W710×D750×H1,980mm	180kg
	single	HKF-400SWI	393L	W840×D750×H1,980mm	210kg
Ultra-low temperature freezer		HKF-500SWI	503L	W840×D890×H1,980mm	240kg
upright type		HKF-300DWI	308L	W710×D750×H1,980mm	220kg
uprigrit type	Dual	HKF-400DWI	393L	W840×D750×H1,980mm	260kg
		HKF-500DWI	503L	W840×D890×H1,980mm	300kg
		HKF-700DWI	714L	W1,120×D890×H1,980mm	320kg
	single	HKF-350CWI	350L	W1,685×D745×H1,150mm	200kg
		HKF-500CWI	500L	W2,140×D745×H1,150mm	230kg
Ultra-low temperature freezer		HKF-600CWI	600L	W2,440×D745×H1,150mm	260kg
chest type		HKF-350CDWI	350L	W1,685×D745×H1,150mm	260kg
	Dual	HKF-500CDWI	500L	W2,140×D745×H1,150mm	300kg
		HKF-600CDWI	600L	W2,440×D745×H1,150mm	320kg

^{*} Single models are available in single-phase 100V or single-phase 200V specifications.

* Dual models are available in single-phase 200V or three-phase 200V specifications.

Ultra-low temperature freezer (Single compressor)



Features

- The single compressor enables good cost performance.
- The freezer can be used on single-phase 100V power supplies.





LAB8

LAB41

	Model No.	Effective storage capacity	External dimensions	Weight
	LAB8	90L	W600×D730×H865mm	48kg
	LAB11	130L	W725×D730×H865mm	53kg
Ultra-low temperature freezer	LAB21	230L	W1,055×D730×H865mm	66kg
	LAB31	300L	W1,305 × D730 × H865mm	78kg
	LAB41	365L	W1,505 × D730 × H865mm	83kg

^{*} A-60°C specification freezer is also available.



Cold bench

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



FMC-61PNBSAXL

• Ideal for operations that require low temperatures

- The inverter enables energy-savings, quick cooling, and stable control.
- The flat handrail enhances workability.

Features

- 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.

Equipped with patrol light

The patrol light indicates whether the product is freezing or refrigerating.



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



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

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.

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

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





Features

- Safe and secure panel assembly by group company **FSP** Corporation
- Can be designed in sizes desired by customers.
- Can be used for a variety of applications.

Built-in freezer type

Separate freezer type

Structure of prefabricated storage chamber

●Freezer: -20°C or lower ●Refrigerator: -3°C or higher ●Temperature-controlled storage: 35°C or higher



Basic size: H2,200mm

Area	External dimensions: Width (W) x Depth (D)
1.62m ²	W900× D1,800mm
2.43m ²	W900× D2,700mm
3.24m ²	W1,800 × D1,800mm
4.86m ²	W1,800 × D2,700mm
6.48m ²	W3,600 × D1,800mm
7.29m ²	W2,700 × D2,700mm
8.1m ²	W4,500 × D1,800mm
9.72m ²	W3,600 × D2,700mm

- * Please contact Fukushima with your dimensional requirements.
- * This product is for indoor use only. Electric work and drainage facilities are required.
- * This is a custom-made product. Please inform Fukushima of required specifications.

Examples of introducing prefabricated refrigerators & freezers

Hospitals

Refrigerator

Storage of drugs and chemicals Storage of foods in the kitchen





Pharmaceutical companies

Freezer

Storage of new medicines

Refrigerator Refrigerated

Refrigerated storage of drugs





Food processing plants

Freezer Freezing storage of food

Refrigerator Storage of food Temperaturecontrolled storage Fermentation of food

◆Total planning is also possible.





Universities

Low-temperature laboratory
Research conducted at low temperatureRefrigerator

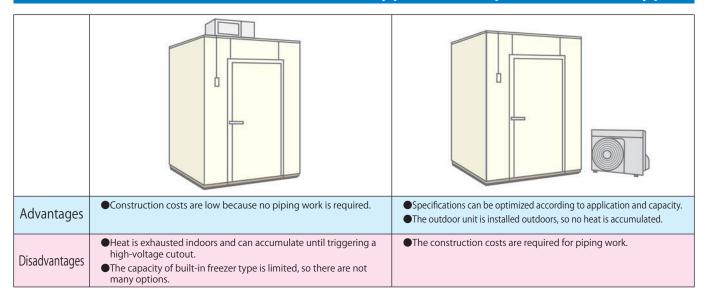
Refrigerator Storage of drugs and samples

Temperaturecontrolled storage Breeding and culturing





Differences between built-in freezer types and separate freezer types



Upright refrigerator & freezer









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-060RMA	504L	W610×D800×H1,950mm	85kg
	URD-120RMA	1090L	W1,200×D800×H1,950mm	125kg
	URD-150RMA	1381L	W1,490×D800×H1,950mm	145kg
Upright freezer	URD-062FMA	504L	W610×D800×H1,950mm	85kg
	URD-124FMA	1083L	W1,200×D800×H1,950mm	140kg
	URD-154FMA	1374L	W1,490 × D800 × H1,950mm	160kg

Table type refrigerator & freezer







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 refrigerator	YRC-120RMA	237L	W1,200×D600×H800mm	75kg
	YRC-150RMA	325L	W1,500×D600×H800mm	85kg
Table type freezer	YRC-122FMA	237L	W1,200×D600×H800mm	80kg
	YRC-152FMA	325L	W1,500 × D600 × H800mm	90kg

Reach-in showcase with built-in freezer



Features

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





MMC-20GWSR2

MSS-120GHWSR

	Model No.	Effective storage capacity	External dimensions	Weight
Showcase with	MMC-20GWSR2	270L	W600×D545×H1,810mm	100kg
built-in freezer	MSS-120GHWSR	810L	W1,200×D650×H1,900mm	150kg
		* 6 -1 -1 -1		

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

Reach-in showcase cubic type



3℃ to 10℃







符 倒

- CRC-060GSWSR
- CRC-080GSWSF
- **CRC-080GLWSR**
- 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
	CRC-060GSWSR	141L	W630×D550×H1,080mm	55kg
Showcase with	CRC-080GSWSR	173L	W750×D550×H1,080mm	60kg
built-in freezer	CRC-080GLWSR	265L	W750×D550×H1,410mm	70kg

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

Icemaker (Cube ice)

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

reduced to approx. **64**% compared with conventional models.



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-A25KT

FIC-A95KT

	Model No.	Ice-making capacity	Volume of ice storage	External dimensions	Weight
Icemaker (Cube ice)	FIC-A25KT	25kg	approx.13.5kg	W398×D450×H800mm	45kg
	FIC-A35KT	35kg	approx.17kg	W500×D450×H800mm	50kg
	FIC-A95KT	95kg	approx.45.9kg	W1,000×D600×H800mm	80kg

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

Chip ice maker



Features

- This icemaker can be operated with reduced electric power and water consumption.
- This icemaker has the structure that prevents the penetration of dust and water droplets inside from the upper door part.
- The user can easily grab the door when opening it.



FIC-A100CT

	Model No.	Ice-making capacity	Volume of ice storage	External dimensions	Weight
Chip ice maker	FIC-A100CT	100kg	approx.34kg	W600×D600×H800mm	61kg

Inverter-controlled multistage open showcase

3°C to 20°C

Features

- Equipped with an inverter and freezer, the icemaker makes energy-saving and freshness control compatible.
- An external acrylic lighting plate on the top maintains internal temperature and improves the exterior.
- A night cover can be equipped as an option.







MEU-41GKSA5L

	Model No.	Effective storage capacity	External dimensions	Weight
Inverter-controlled multistage	MEU-41GKSA5L	544L	W1,165×D650×H1,900mm	225kg
open showcase	MET-31GDSS4S	218L	W900×D550×H1.400mm	130ka

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.

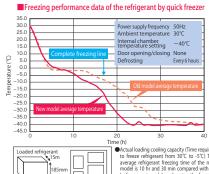




retrieval easy.

Example of refrigerant CAH-500





185mm Image of refrigerant arade, 800g / pack Image of refrigerant arade, 900g / pack Image of refrigerant arade, 900g / pack Image of refrigerant arade, 900g / pack x 1:
--

	Model No.	Effective storage capacity	External dimensions	Weight
Quick freezer for refrigerants	FKD-082FMD7-S	485L	W755 × D800 (870) × H1,960mm	130kg

* This product requires drainage facilities.

Blast chiller / Shock freezer

-40°C to 10°C

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).





QXF-012SFSV1 QXF-006SFLT1

	Model No.	Storage capacity	External dimensions	Weight
Blast chiller /	QXF-012SFSV1	1/1 pan or grid: 12 units	W770 × D880 (932) × H1,882mm	265kg
Shock freezer	QXF-006SFLT1	1/1 pan or grid: 6 units	W1,200 × D750 (802) × H800mm	150kg
		* TL	and and discount of the second	a mundicat fittand with mana (amtion)

Electrolytic Hypochlorite Generator FE Clean Water FE clean water



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



FES-12L 5L tank

Sterilization of food Sterilization of rood Sterilization of cooking utensils Electrolysis of salt solution in

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 ven/kg, and electricity



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	Salt tank weight	Main body external dimensions
	FES-12L	5L	0.7Kg	W250×D210×H320mm
FE clean water	FES-12H	20L	3.0Kg	W250×D210×H320mm
	FE-1U-10000	Built-in salt tank		W1,000 × D600 × H1,790mm

Temperature-controlled serving wagon



- The serving wagons can be loaded into service elevators
- Compact temperature-controlled serving wagons are suitable as flat travs.
- Both hot foods and cold foods can be served in an easy-to-eat arrangement.



•	Model No.	Flat tray	External dimensions	weight
Temperature-controlled serving wagon	NFRW-DF-24	24	W990×D770×H1,170mm	155kg

Cold storage locker



Features

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

	· ·	a
	O-	0
	Q.	0
	O-	0
HPK-8R9		



	Model No.	Effective storage capacity	External dimensions	Weight
Cold storage locker	HPK-8R9	36L×8室(計288L)	W1,000 × D 544 (569) × H1,815mm	145kg

Freezing stocker







Features

Large-capacity, large-volume freezing storage

SH-280X

Freezing stocker	

wodel No.	Effective storage capacity	External dimensions	weight
SH-170X	164L	W611×D662×H893mm	42kg
SH-280X	276L	W901×D662×H893mm	54kg
SFS180A	180L	W550×D582×H1,430mm	50kg

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-54XE

AGV-90X



	Model No.	Effective storage capacity	External dimensions	Weight
Compact refrigerator	AG-54XE	54L	W429×D445×H822mm	34kg
	AGV-90X	96L	W423 × D478 × H1,378mm	60kg
	ML-40B	40L	W400×D430×H560mm	12.3kg

^{*} 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





Comes with dedicated USB interface adapter 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
- 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.

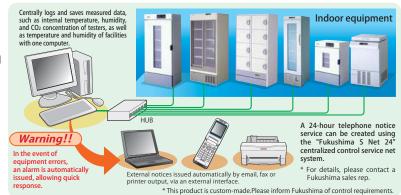
Temperature measurement-related
equipment

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

Equipment centralized control system for the pharmaceutical industry

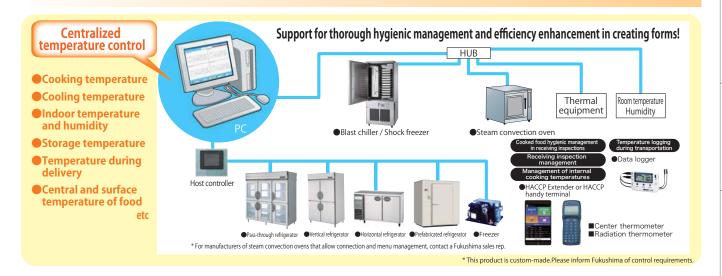
SSS master

- 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.



Total temperature control system for the food industry

HACCP Master V3



Maintenance contract

For safe and secure use of our products, we recommend customers conclude a maintenance contract with us. By managing customers, we can quickly respond to sudden troubles 365 days a year!

Customers can always feel safe and reassured when using our products.

Advantages of the maintenance contract

- ① Fukushima performs periodic inspections twice a year under a yearly contract to preempt possible failures. ② Repairs are based on the checklists so they are fast and precise, and enhance safety.
- Fukushima reduces the chance of failures that may result in damage and ensures the safe use of products.
 By performing periodic inspections, Fukushima helps reduce power consumption and prolong equipment life.
- (5) With a yearly contract, customers can make an annual budget and plan capital investment.

Check operating conditions by periodic inspections

Prevent occurrence of failure.

Repairs are free of charge if failure occurs

Reduce running costs



Matters to check before purchase

- ① Check the storage conditions of targeted storage items.
- ② 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.
- 3 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.
- (4) 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 Fukushima

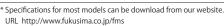
of transport conditions.

(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





Product specifications







	aactsp											7-	
	Product name	Model name			ture zone	emperature- controlled	MediFridge energy-saving	Space-saving (W800 or lower)	Anticondensation	Microcomputer control and digital display	Lock	Alarm function	
	Compact medical cool box	FMS-054GM	temperature Fr	eezing	Refrigeration	controlled	energy saving	(WOOD OF IOWEL)	•	and digital display	•	•◎	
	Compact medical cool box	FMS-304GU					•	•		•	•	•0	
	Medical cool box	FMS-504G0					•	•		•	•	•0	
MediFridge	Ma di sal 600 000 0	FMS-F154GS					•	•		•	•	•0	
series	Medical freezer & refrigerator	FMS-F304G					•	•	•	•	•	•0	
	J	FMF-301F					•	•	•	•	•	•0	
	Medical freezer	FMF-501F					•		•	•	•	•0	
	Medical freezer	FMF-501FD					•		•	•	•	•0	
								•		•	•		
	Slim-type medical	FMS-123GS FMS-173GS						_	-	•		•0	
	cool box							•	•		•	•0	
		FMS-303GS						•	•	•	•	•0	
	Medical cool box	FMS-650L						•	•	•	•	•0	
FMS series		FMS-1400L							•	•	•	•0	
		FMS-301GU(-SR)								•	•	•0	
	Medical cold storage	FMS-402GU(-SR)								•	•	•0	
	showcase	FMS-501G(-SR)								•	•	•0	
		FMS-702G(-SR)								•	•	•0	
		FMU-054l						•	•	•	0	•0	
		FMU-133I						•	•	•	•	•0	
		FMU-204I						•	•	•	•	•◎	
FMU series	Low temperature incubator	FMU-263I						•	•	•	•	•0	
	casacor	FMU-404I						•	•	•	•	•0	
		FMU-263I-BC						•	•	•	•	•0	
		FMU-404I-BC						•	•	•	•	•0	
		HKF-300SWI/DWI						•		•	•	•	
		HKF-400SWI/DWI								•	•	•	
		HKF-500SWI/DWI								•	•	•	
HKF series	Ultra-low temperature freezer	HKF-700DWI								•	•	•	
		HKF-350CWI/CDWI								•	•	•	
		HKF-500CWI/CDWI								•	•	•	
		HKF-600CWI/CDWI								•	•	•	
		LAB8						•		•	•	•	
		LAB11						•		•	•		
LAB series	Ultra-low temperature	LAB21								•	•	•	
Erib series	freezer	LAB31								•	•	•	
		LAB41								•	•	•	
	Ma di sal 600 0000	FMF-038F1-C						•	•	•	•	•	
FMF series	Medical freezer personal	FMF-038F1						•	•	•	•	•	
		FMC-41PNBSAXL (R)								•		•	
FMC series	Cold bench	FMC-61PNBSAXL(R)											
		FMM-240TCB											
FMM series	Clean bench	FMM-320TCB											
								•				• (*)	
	Reach-in showcase with built-in freezer	MMC-20GWSR2								•	0		
	With built in neczer	MSS-120GHWSR								•	0	• (*)	
		FIC-A25KT						•				• (*)	
	Icemaker (Cube ice)	FIC-A35KT						•				• (*)	
		FIC-A95KT										• (*)	
	Multistage open case	MEU-41GKSA5L								•		• (*)	
Others		MET-31GDSS4S								•		• (*)	
	Quick freezer for refrigerants	FKD-082FMD7—G						•		•	0	• (*)	
	Blast chiller / Shock freezer	QXF-012SFSV1						•		•		• (*)	
		QXF-006SFLT1								•		• (*)	
	Temperature-controlled serving wagon	NFRW-DF-24								•		• (*)	
	cold storage locker	HPK- 8 R9								•	•	• (*)	
		SH-170X						•		•	•	•	
	Freezing stocker	SH-280X								•	•	•	
		SFS180A								•		•	
		AG-54XE						•			0		
	Compact refrigerator	AGV-90X						•			0		
	' '												





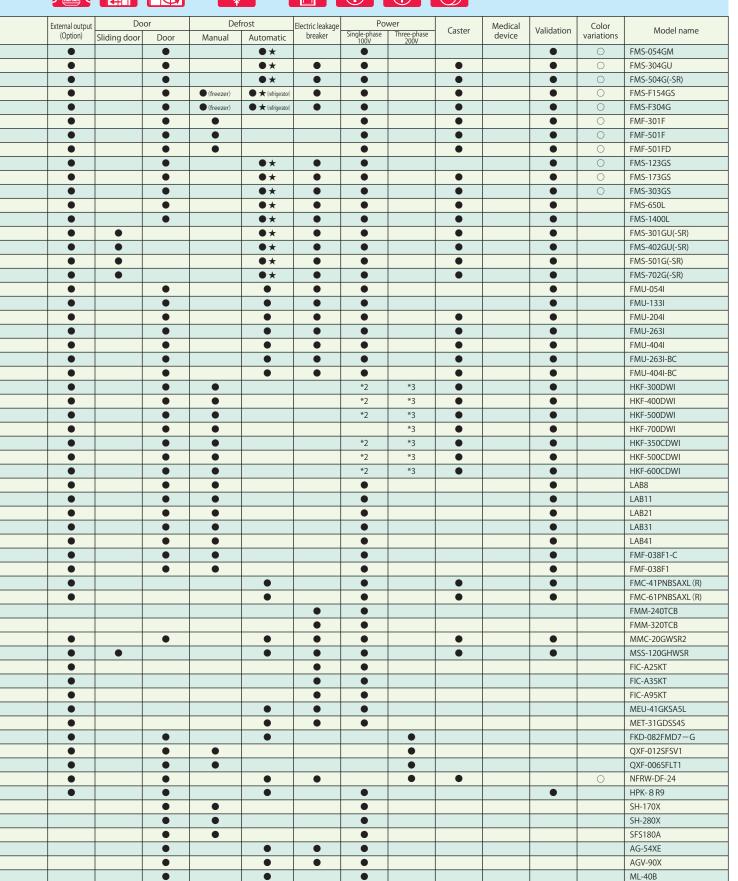












[●] Standard specification ○ Available as an option ◎ Detailed alarm setting is possible. * Only alarm display with no buzzer notice
*2 Single-phase 100V/200V *3 Single-phase 200V/Three-phase 200V ★ Cycle defrost

FMS series option



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



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



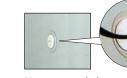
Light shield film specification



Glassless specification



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



Measurement hole Inside diameter: ϕ 40



Flat rack (Punched plate for small bottles)









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.

Sliding rack specification

- Convenient for placing and retrieving chemicals and samples * Sliding racks are for the right-hand side only.

	薬用保冷庫 MediFridge		東冷蔵庫 Fridge	スリム型薬用保冷庫	薬用値	呆冷庫	Medical cold storage showcase (Sliding specification)
	FMS-304GU,504G	FMS-F154GS	FMS-F304G	FMS-123GS,173GS,303GS	FMS-650L	FMS-1400L	FMS-301GU,402GU,501G,702G (Common for - SR models)
Temperature recorder	0	0	0	0	0	0	0
Temperature recorder mounting bracket	0	0	0	0	0	0	_
Drug safe (Large size)	0	0	0	0	0	0	0
Drug safe (Large size) mounting bracket	0	0	0	0	0	0	0
Drug safe (Small size)	0	0	0	0	0	0	0
Drug safe (Small size) mounting bracket	0	0	0	0	0	0	0
Light-shielding film specification (Set of doors)	0	×	0	×	×	0	0
Light-shielding film specification (Door)	×	0	×	0	0	×	×
Glassless specification	0	0	0	0	0	0	×
Right-hand-opening specification	_	0	-	0	0	_	_
Measurement hole	0	○(Only refrigerator)	(Only refrigerator)	0	-	_	_
Flat rack (Punched plate for small bottles)	0	0	0	0	0	0	0
Flat rack (Punched plate for small bottles)	0	×	×	(For the lower two rows only)	0	0	_
External alarm contact output (No-voltage contact point)	0	0	0	0	0	0	0
Racks (With 4 rack supports)						(Designate right or left.)	(Designate right or left.)

- : Available as an option
- : Standard equipment \times : Unavailable
- Contact Fukushima or an authorized dealer.

FMS-054GM option



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



Band seal for identification: 1 set (2 sheets)



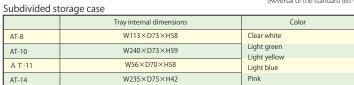
Right-hand-opening specification (Reversal of the standard left-hand-opening)



Subdivided storage Example of storage



Storage set with lock Example of use



Storage set w	ith lock	
	Drawer internal dimension	Color
1	W213×D161×H110×1個	
2	W103×D160×H112×2個	トウメイ/アンバー
3	W103×D160×H112×1個 W103×D162×H51×2個	P924177 27.
(4)	W103×D162×H51×4個	

FMU series option

	FMU-054I	FMU-133I	FMU-204I	FMU-263I	FMU-404I	FMU-263I-BC	FMU-404I-BC
Right-hand-opening specification							
Lighting timer specification							
Lock specification		_	_	_	_	_	_
Base (Separate shipping cost required)				×	×	×	×
Racks (With 4 rack supports)							
External alarm							

-: Standard equipment ×: Unavailable



Lighting timer specification

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



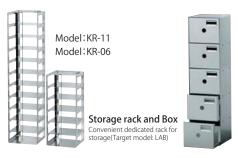
Special base for FMU-054I External dimensions: W600×D600×H750mm Special base for FMU-133I External dimensions: W820×D586×H1.125mm Special base for FMU-204I External dimensions: W820×D816×H1,125mm

FMF series option

	FMF-501FD	FMF-501F	FMF-301F	FMF-038F1	FMF-038F1-C
Temperature recorder	0	0	0	0	0
Temperature recorder mounting bracket A	○(2 units are required)	0	0	×	×
Temperature recorder mounting bracket B	×	×	×	0	0
External alarm output	0	0	0	0	0
Basket	0	0	0	×	×
Rack plate (With 4 rack supports)	0	0	0	×	×

○:Available ×:Unavailable

LAB series option



Model: KB-5D *Equipped with upper handle

■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
	KR-11	3	6	12	18	21
pattern1	KR-06	3	3	3	3	3
	KR-11D	2	4	8	12	14
pattern2	KR-06D	2	2	2	2	2
	KB-5D	2	4	8	10	12
pattern3	KB-3D	2	2	2	2	2

HKF series option



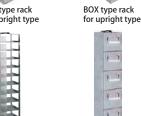
Standard rack for upright type



Horizontal standard rack for upright type



BOX type rack for upright type



Standard rack for chest type





BOX type rack for chest type

	Number of racks	Number of columns	External dimensions (mm)	Conforming models
RACK-5×4-F	5	4	W140×D570×H290	HKF-500DWI/700DWI
RACK-5×3-F	5	3	W140×D425×H290	HKF-300DWI/400DWI
RACK-5×4-S	5	4	W140×D570×H290	HKF-500DWI/700DWI
RACK-5×3-S	5	3	W140×D425×H290	HKF-300DWI/400DWI

Product number	Number of racks	Number of columns	External dimensions (mm)	Conforming models		
RACK-2×1-425-140	2	1	W140×D425×H290	HKF-300DWI/400DWI		
RACK-2×1-570-140	2	1	W140×D570×H290	HKF-500DWI/700DWI		
RACK-2×2-425-280	2	2	W280×D425×H290	HKF-300DWI/400DWI		
RACK-2×2-570-280	2	2	W280×D570×H290	HKF-500DWI/700DWI		
RACK-2×1-425-280	2	1	W280×D425×H290	HKF-300DWI/400DWI		
RACK-2×1-570-280	2	1	W280×D570×H290	HKF-500DWI/700DWI		
RACK-2×3-425-420	2	3	W420×D425×H290	HKF-300DWI/400DWI		
RACK-2×3-570-420	2	3	W420×D570×H290	HKF-500DWI/700DWI		

■Standard rack

Product number	Number of racks	per Number of columns External dimensions (mm)		Conforming models
RACK-11×11	11	1	W140×D140×H640	HKF-350CDWI/500CDWI/600CDWI

■BOX type rack

Product number	Number of racks	Number of columns		
RACK-5×1-140	5	1	W140×D140×H640	HKF-350CWI/350CDWI/500CWI/500CDWI/ 600CWI/600CDWI



■LCO₂ backup system

This system works as auxiliary cooling source during forced cooling and power failure. (Uses a dedicated gas canister.)



■Recorder

	Product model	TRM10C				
Е	xternal dimensions (mm)	144×144×150				
ns	Input	Thermocouple, resistance the	mometer bulb, current, voltage			
Product general specifications	Printing type	Dotting	Pen type			
ecific	Number of inputs	6 inputs	1 pen, 2 pen			
l sp	Alarm output	6 points	6 points			
nera	Measuring period	10s/all points	125ms			
tt ge	Effective recording width	100mm				
onpo	Others	Communication (RS485, RS232C), DI function				
ď	Power	Free (100 to 240V AC)				

4

Difference between power consumption and the amount of the consumption and the constant of the constant of

"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."



Amount of power consumption (Area)

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

Awarded the FY2013 "Energy Conservation Grand Prize (Minister's Prize, the Ministry of Economy, Trade and Industry)" Business model that helps to reduce environmental loads.



The creation of the environmental load reduction system based on the energy management system "Bems-you" combined with ESCO (energy service company) won the FY2013 "Energy Conservation Grand Prize (Minister's Prize, the Ministry of Economy, Trade and Industry) in the business model category.

Validation services

Product name

Medical cool box, medical freezer & refrigerator, low-temperature incubator, medical cold storage showcase, medical freezer, cold bench, and others

Measurement point
We will discuss this with you separately at your request.

Charges
We will provide you with a separate quote at your request.



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.



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.

- ■Warning labels are affixed to products.
- Specifications and appearances are subject to change without notice.
- The colors of products in this catalog may differ slightly from the actual products due to printing conditions.
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To prevent global warming, chlorofluorocarbons must be properly collected from this product.

ISO 9001:2008 Acquisition of certification

Okayama Factory Head Shiga Factory Nag Sh

Acquisition of certification Head Office, Tokyo Nagoya, Fukuoka Shiga Factory, Okayama Factory

ISO 14001:2004



• Download catalogs and specifications from: URL http://www.fukusima.co.jp/fms

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