

GALILEI

Be cool, Be alive.

Medical Freezers

Ideal for sample storage and quality control

A full lineup from personal to large-capacity models

MediFridge

Non-CFC refrigerant

3 models in total

Temperature setting: -30°C to -20°C
(1°C increments)

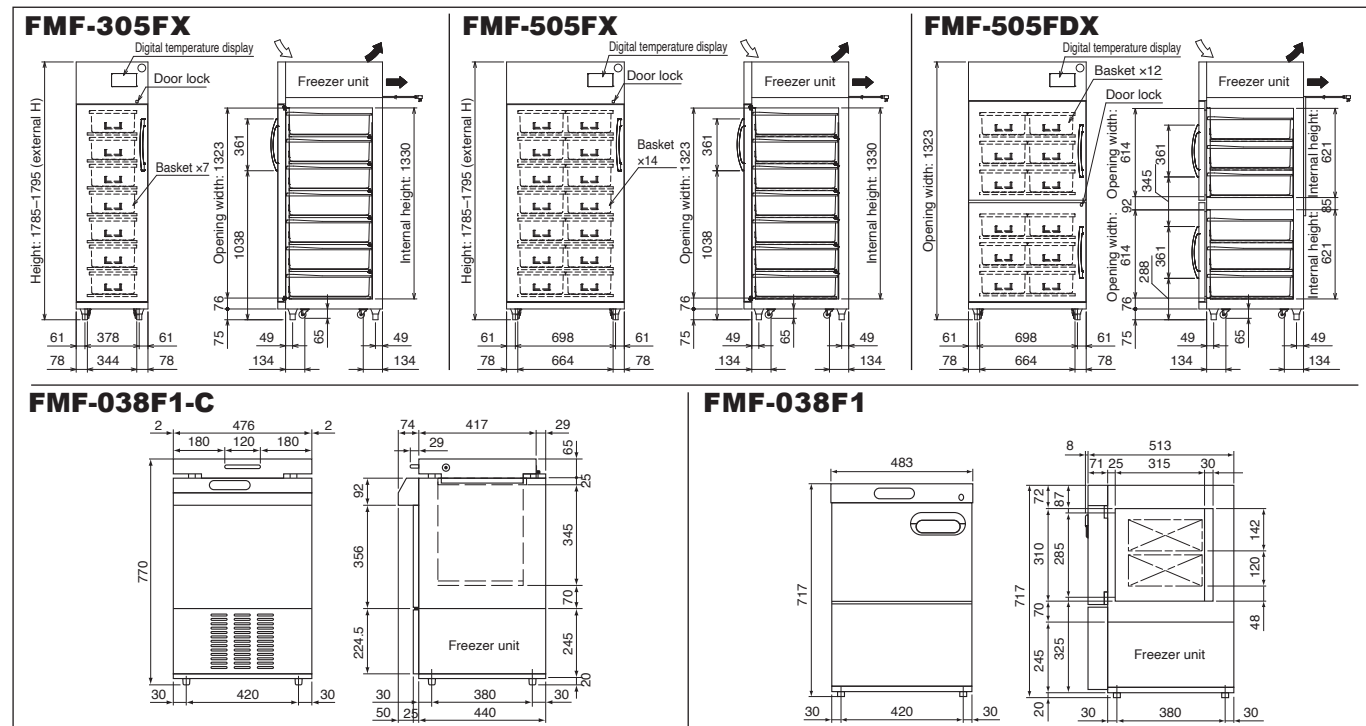
Personal

2 models in total

Temperature setting: -40°C to -15°C
(5°C increments)



■ Specifications						
Model No.	FMF-305FX	FMF-505FX	FMF-505FDX	FMF-038F1-C	FMF-038F1	
External Dimensions (mm)	W500xD729(777)xH1,795	W820xD729(777)xH1,795	W820xD729(792)xH1,795	W480xD520xH770	W483xD513xH713	
Internal Dimensions (mm)	W360xD605xH1,330	W680xD605xH1,330	W680xD605xH621 (Upper and lower compartments)	W340xD310xH345	W340xD345xH310	
Effective Capacity(L)	300	548	516 (258x2 compartments)	37	38	
Weight (kg)	102	134	153	45		
Materials	Exterior	Painted steel plate		Hot-dip galvanized steel sheet with polyester resin baked coating		
	Interior	Painted steel plate (color steel)		Aluminum plate		
	Door	Painted steel plate, magnetic type, 1 door (front/back)		Painted steel plate, magnetic type, 2 doors	Hot-dip galvanized steel sheet with polyester resin baked coating, magnetic type, 1 door	
	Insulation	Rigid polyurethane foam, foamed-in-place		Rigid polyurethane foam		
Cooling Performance (No load, ambient temperature 30°C)	Microcomputer-controlled digital temperature display Temperature setting range: -30°C to -20°C (1°C increments)					
Refrigeration System	Compressor output (W)	450	450	350	300	
	Refrigerant control	Capillary tube				
	Condenser	Microchannel forced-air cooling			Fin-tube forced-air circulation	
	Evaporator	Pipe-on-sheet type				
	Refrigerant	R1234yf			R-404A	
	Charge (g)	110	150	155 (Upper 75, Lower 80)	220	220
	Defrosting System	Off-cycle defrost (manual defrost, manual reset)			Manual defrost (automatic reset after 30 hours)	
Operating Conditions	-5°C to +35°C, max. 80%RH					
Accessories	7 shelves, 7 baskets, key, 1 scraper for defrost	7 shelves, 14 baskets, key, 1 scraper for defrost	6 shelves, 12 baskets, key, 1 scraper for defrost	1 perforated grid shelf, key	2 wire baskets, key	



- A precaution-for-use label is attached to each product.
- Specifications and appearances are subject to change without notice.
- The colors of products shown in this brochure may differ slightly from the actual products due to printing.
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GALILEI
Be cool, Be alive.



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ISO 9001:2015

Acquisition of certification

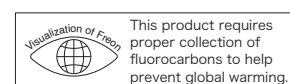
Okayama Factory
Shiga Factory
Kansai Engineering Dept,
SB Division,
Tokyo Engineering Dept,
Tokyo Installation Works Dept,
Chubu Engineering Dept,
Nishi-Nihon Engineering Dept

ISO 14001:2015

Acquisition of certification

Head Office, Tokyo
Nagoya, Fukuoka
Shiga Factory,
Okayama Factory
Kansai service center
Kanto service center

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



This product requires proper collection of fluorocarbons to help prevent global warming.

⚠ Safety Precautions

- The products shown in this leaflet are for indoor use. Please use and store them in locations away from rain.
- Always carefully read the Instruction Manual before use to ensure proper operation.
- Installation, drainage, and electrical wiring are required. Please consult the dealer where the product was purchased or a qualified professional.

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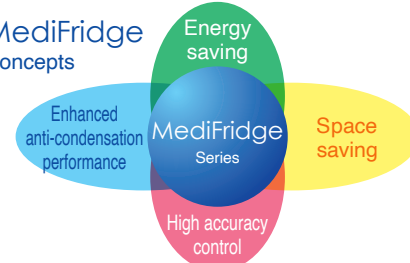
Medical Freezers

medical institutions biotechnology
chemicals testing and analysis centers
pharmaceuticals food industry and more.

Featuring a wall-surface cooling system that ensures a stable internal temperature environment, these freezers are ideal for sample storage and quality control.

They are designed for a wide range of applications, supporting various research, development, and analytical testing needs.

MediFridge
Concepts



MediFridge

Our flagship model for pharmaceutical refrigerators and freezers, revolutionizing conventional standards for the refrigerated and frozen storage of reagents and pharmaceuticals.

Temperature setting: **-30°C to -20°C**
(1°C increments)



Features

- Equipped with eco-friendly refrigerant R1234yf (Non-CFC, GWP:1)
- Leakage circuit breaker as standard for enhanced safety
- Easy relocation with 4 swivel casters
- Auto-closing doors with eccentric shaft mechanism
- Equipped with a door sensor for secure operation
- Optional seismic legs available for anti-tip safety

Model No.	Effective capacity	External Dimensions* Figures in parentheses indicate maximum dimensions including projections	Internal Dimensions	Basket	Weight	Refrigerant
FMF-305FX	300L	W500xD729(777)xD1,795mm	W360xD605xD1,330mm	7 pcs.	102kg	Non-CFC (R1234yf)
FMF-505FX	548L	W820xD729(777)xD1,795mm	W680xD605xD1,330mm	14 pcs.	134kg	Non-CFC (R1234yf)
FMF-505FDX	516L	W820xD729(792)xD1,795mm	W680xD605xD621mm(both upper and lower compartments)	12 pcs.	153kg	Non-CFC (R1234yf)

Personal

A compact type that can be placed either on or under a laboratory bench.

Temperature setting: **-40°C to -15°C**
(5°C increments)



Features

- Wide temperature setting range from -40°C to -15°C in 5°C increments
- With an optional thermo recorder installed, it is also suitable for storing small quantities of frozen plasma

Model No.	Effective capacity	External Dimensions	Internal Dimensions	Basket	Weight
FMF-038F1-C	37L	W480xD520xD770mm	W340xD310xD345mm	None	45kg
FMF-038F1	38L	W483xD513xD717mm	W340xD345xD310mm	2 pcs.	45kg

Features



Adoption of Non-CFC refrigerant R1234yf

*Applicable only to FMF-305FX, 505FX, and 505FDX

Compared to the conventional substitute refrigerant R404A (GWP: 3920), R1234yf (GWP: 1) significantly reduces the impact on global warming.

Point. 1 *Environmentally conscious*
Compared to HFCs used in conventional products, the new refrigerant significantly reduces the impact on global warming.

Point. 2 *Mildly flammable and safe*
Compared to similar non-CFC "highly flammable refrigerants," the refrigerant has a lower risk of fire hazard and can be handled safely.

Point. 3 *Easy to manage*
On-site repair and inspection are possible. Unlike fluorocarbon-based equipment, no mandatory inspections are required, and it is not subject to the Act on Rational Use and Proper Management of Fluorocarbons.



Aiming for zero global warming impact from refrigerant leakage!

For all models and products with built-in compressors.

Industry first!

Refrigerant leakage repair costs fully warranted for 10 years

*Some models excluded

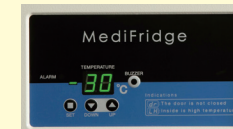
Common Specifications

Applicable to both MediFridge and Personal series

Control Panel

■ FMF-305FX·505FX·505FDX

High-visibility MediFridge control panel



■ FMF-038F1-C·038F1

Temperature setting range: -40°C to -15°C (5°C increments)
Equipped with an alarm function (notification by display and buzzer)



Key Lock

With locking device for secure management.



Exclusive Specifications

Applicable to MediFridge series (FMF-305FX, 505FX, 505FDX)

Door Sensor

Standard-equipped door sensor prevents accidental door from being left open.



Casters

Easy installation and relocation with 4 swivel casters.



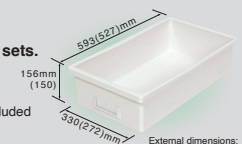
Standard Baskets

Supplied with baskets of the same size.

Each basket can hold 10 microplates × 12 sets.

(With 14 baskets, up to 1,680 microplates in total)

※FMF-305FX : 7 baskets ※B8-size card holder included
FMF-505FX : 14 baskets ※Adjustable shelves
FMF-505FDX : 12 baskets



Data Logger

Temperature data logger

- Probe and USB cable required separately
- Installation cost required separately



Thermo Recorder

Records temperature history of operation and cooling conditions.

Comes with recording paper for one year.

- Mounting brackets required separately



Latch-handle Door



※Available only for MediFridge series
※Can only be installed at the time of shipment

Options

	FMF-305FX	FMF-505FX	FMF-505FDX	FMF-038F1-C	FMF-038F1
Thermo Recorder (with recording paper for 1 year) *1	○	○	○	○	○
Thermo Recorder Mounting Bracket A	○	○	○ (2 required)	×	×
Thermo Recorder Mounting Bracket B	×	×	×	○	○
External Alarm Output	○	○	○	○	○
Shelf (with 4 shelf supports)	○	○	○	×	×
Seismic Fixing Brackets for Legs (set of 2)	○	○	○	×	×
Latch-handle Door	○	○	○	×	×
Right-hinged Door	○	○	○	×	○
Measuring Port *2	○	○	○	×	×
Color Variations	○	○	○	×	×
Power Failure Alarm Buzzer Kit *	○	○	○	×	×
Temperature Data Logger testo176T2	○	○	○	○	○
Probe (Model: 0572 7001)	○	○	○	○	○
USB Cable	○	○	○	○	○

*1 Installation cost required separately. For FMF-038F1 and FMF-038F1-C, available only at the time of shipment (on-site installation not possible).

*2 Measuring port is located on the back panel.

○ Available × Not available