Laboratory Freezer

LabTech
Manufacturer of Lab. Ind. & Med. Equipments

Temperature range : from 10℃ to −30℃

LLF−403SR   LLF−404SR   LLF−404SR−H

Feature

Precise Temperature Control System
Microprocessor PID controller ensures the most accurate temperature control and maintains cooled temperature during defrost cycle by unique designated technology

Audible and Visible alarm system
High / low temperature alarm system provides safety and security storage

Non−CFC/HCFC Refrigeration System
CFC/HCFC−free Hermetically sealed compressor and Natural Refrigerant gas are used for compliance with the New Environmental Regulation

Magnetic packing with adjustable tension Door
Magnetic packing with adjustable enforced tension door prevent cold temperature from any air leakage

Metal Solid door with air tight gasket
Protects samples and reagents from sun light

High−density Polyurethane foam Insulation
With 60mm thickness Insulation provides excellent low temperature and maintains cool temperature for a long time in case of power failure

Automatic Defrost and Dehumidify System
Unique air flow circulation and defrost system provides high precision temperature uniformity and stability

User Friendly Design
− Built−in fluorescent lamp with ON/OFF switch and circulation fan stops while door is opening
− Door key Lock device and password lock for safety
− Height adjustable epoxy powder coated shelf

PC Software System
RS−232C / 485 interface to LIS / HIS requirement can be ordered as option

Custom made order is available
Specifications can be changed without prior notice for quality improvement.

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Control System

Microprocessor Digital PID Controller
Audible / Visible Alarm System
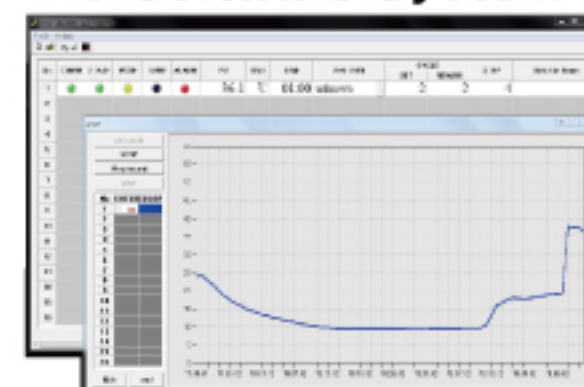
Optional Accessories

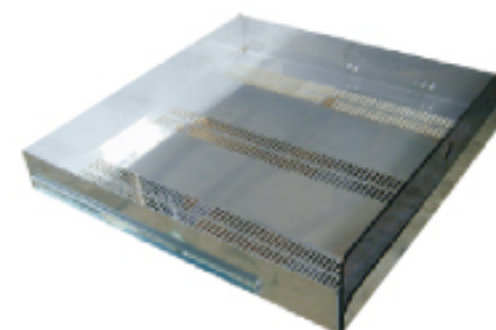7-days Chart Recorder

Digital Recorder

PC Software System

RS - 232/485 Interface
Graphic monitoring for
temperature on real-time

Battery Back up System

STS Drawer Shelf

Compliance with International
medical standard and KFDA

Alarm System

- High / Low temperature alarm
- Electric power failure alarm
- Status of door opening warning alarm
- High and low temperature check alarm

MODEL		LLF-402SR	LLF-403SR LLF-403SR-H	LLF-404SR LLF-404SR-H
Dimensions	Inner	560 x 660 x 800	620 x 700 x 1410	1140 x 700 x 1410
(W x D x H mm)	Outer	683 x 775 x 1490	740 x 805 x 1985	1260 x 805 x 1998
Capacity		295ℓ	612ℓ	1125ℓ
Compressor	Non-CFC	1 / 4 HP	1 / 4 HP	1 / 2 HP
Defrost Heater		300 W	300 W	300 W
		Stable temperature during defrost cycle		
Epoxy powder coated wire shelf		3 EA	6 EA	12 EA
Controller		Digital PID Controller		
Display		4 Digit LED Display & LED signal lamps		
Temperature		10°C to -30°C		
		Set accuracy ± 1°C / Uniformity ± 3°C at -20°C		
Temperature Alarm		Set High limit & Low limit temperature, Audible and visible alarm		
Material	Interior	Stainless Steel 304		
	Exterior	Epoxy powder coated EGI steel		
Solid Swing Door		One Door		Two Door
	H-Half Door	N/A	Two Solid Door	Four Solid Door
Air Circulation		Turbo Fan with automatic stop / run during door open		
Safety		High / Low Temp Protector, ELCB, Thermal Protector		
Electric Supply		110V, 60Hz or 220/230V, 50/60 Hz		

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