

Refrigerators and freezers for laboratories and research



MediLine with mechanical controls



MediLine with electronic controls



Performance series



Perfection series

	MediLine ATEX LKexv
Temperature stability	Refrigerators +/-5 K deviation from setpoint
Storage safety	
Interfaces	
SmartMonitoring Features	Rotary control with digital thermometer
	Ergonomic slimline handle
Energy consumption	
	Safety according to IEC 60335-2-89

MediLine General laboratory use/ATEX LKUv/LCv/LCexv/LKUexv/LGUex	Performance series General laboratory use/ATEX SRFvg/SFFsg/SRFfg/SFFfg	Perfection series General laboratory use SRFvh/SFFvh
Refrigerators +/-3 K deviation from setpoint	Refrigerators +/-3 K deviation from setpoint	Refrigerators +/-2 K deviation from setpoint
Freezers +/-5 K deviation from setpoint	Freezers +/-5 K deviation from setpoint	Freezers +/-4 K deviation from setpoint
	Freezers with SmartFrost	Freezers with NoFrost
Calibration option	Calibration option	Calibration option
Visual and audible alarms	Visual and audible alarms	Visual and audible alarms
Alarm relay	Alarm relay	Alarm relay
Alarm test function	Alarm test function	Alarm test function
+2 °C SafetyDevice function	+2 °C SafetyDevice function	+2 °C SafetyDevice function
	Alarm immediately upon power failure	Alarm with battery backup (12 h) immediately upon power failure
Alarm history with real-time clock and 6 events		Alarm history with real-time clock and 10 events
		Integrated data logger
NTC product sensor (optional for LCv/LCexv/LGUex)		PT1000 product sensor (optional for SFFvh models)
Min./max. temperature log	Min./max. temperature log	Min./max. temperature log
Self-closing door at < 90°	Self-closing door at < 90°	Self-closing door at < 90°
Custom alarm settings possible	Custom alarm settings possible	Custom alarm settings possible
Mechanical lock	Mechanical lock	Mechanical lock
RS485 interface	Optional LAN/WiFi	Integrated LAN/WiFi
Modbus RTU communication protocol	Local API (optional via SmartModule)	Local API
		USB interface for reading the data logger
SmartCoolingHub can be retrofitted	SmartModule can be retrofitted	SmartModule integrated
LED 7-segment display with buttons	Monochrome display, touch buttons	2.4" touch & swipe colour display
	Individually adjustable maintenance timer	Individually adjustable maintenance timer
Castors/adjustable feet as accessories, 75 cm-wide appliances with castors as standard	Castors/adjustable feet as accessories	Castors/adjustable feet as accessories, 75 cm-wide appliances with castors as standard
Evaporator cover (stops items freezing to inner liner), optional	Evaporator cover (stops items freezing to inner liner), only for glass door models, optional for insulated door models	Evaporator cover (stops items freezing to inner liner), standard for all models
Sensor feedthrough	Sensor feedthrough	Sensor feedthrough
Refrigerators: glass door models with ceiling lighting	Refrigerators: glass door models with ceiling lighting	Refrigerators: Insulated and glass door models with vertical lighting
Freezers: no lighting	Freezers: no lighting	Freezers: LED lighting in the front housing
Ergonomic slimline handle with opening mechanism	Antimicrobial handle with opening mechanism	Antimicrobial handle with opening mechanism
	Super-efficient	Ultra-efficient
Safety according to IEC 60335-2-89	Safety according to IEC 61010-2-011	Safety according to IEC 61010-2-011
ATEX directive (LKUexv, LCexv, LGUex)	ATEX directive (SRFfg/SFFfg)	Fulfils DIN 13277

+2 °C SafetyDevice

If the temperature falls below +2 °C due to a malfunction, the SafetyDevice takes control, stabilising the temperature, activating the alarm and protecting the contents from freezing.



Power failure info

The power failure info function reports when the appliance was temporarily without power and what the maximum temperature was during this time. This allows you to better assess the potential loss of quality.

Min./max. temperature log

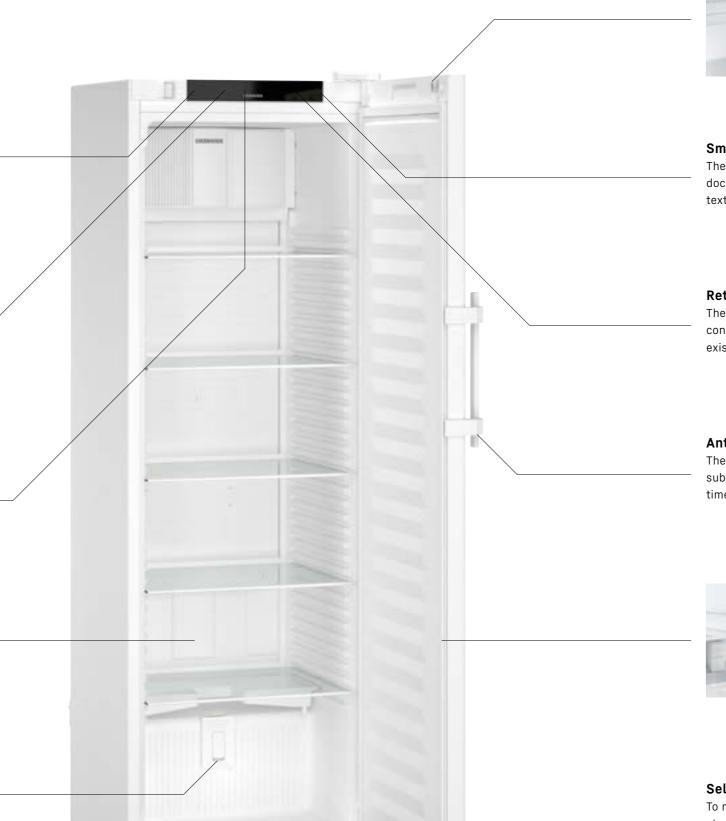
The min./max. temperature log stores the minimum and maximum interior temperatures and shows on the display whether the storage temperatures were within the tolerance limits.

Easy-to-clean interior

The inner liner made of fully recyclable, robust and odourless polystyrene is manufactured in one piece without joints. This makes it quick and easy to clean the large, rounded corners.

Feedthrough for external sensors

An integrated opening allows a separate sensor to be connected for additional temperature monitoring without having to drill holes or break the door seal.



Mechanical lock

Liebherr professional appliances are equipped with a mechanical lock and two keys. This ensures that unauthorised persons cannot access your valuable and sensitive stored goods.

SmartMonitoring

The cloud-based digital solution continuously monitors and documents temperatures and alerts you immediately via email, text message or phone if any deviations occur.

Retrofittable WiFi/LAN interface

The retrofittable WiFi/LAN interface enables you to easily connect your appliances with Liebherr SmartMonitoring or existing local systems.

Antimicrobial handle with opening mechanism

The smooth-turning handle contains special antimicrobial substances that make it particularly hygienic. Regular and time-consuming disinfection is not necessary.



Replaceable door seal

Save time and money: the insertable Liebherr door seals are easy to change. If a seal is damaged, you can replace it yourself without any tools. Contact Liebherr Customer Service to purchase replacements.

Self-closing door < 90°

To make loading, unloading and cleaning easier, the appliance door stays open if opened by more than 90°. If the opening angle is less than 90°, it closes automatically for safety.

SRFfg 4001 Performance



Quality right down to the smallest detail



Explosion protection: ATEX 95

The ATEX-95 certification confirms that the Liebherr spark-free laboratory refrigerators and freezers are suitable for storing explosive and highly flammable materials as defined by EU Directive 2014/34/EU (ATEX).



Super-efficient

Rising electricity prices are increasing the demands on the efficiency of refrigerators and freezers. From the compressor to the seal, to the lighting and electronics, Liebherr fully utilises the savings potential of every component. The result is impressive – especially in terms of total operating costs.



±3 °C temperature stability

Temperature fluctuations must be minimal to ensure that the quality of sensitive substances is preserved.

Liebherr Laboratory refrigerators have an impressive maximum deviation of just ±3 °C from the set temperature.

This not only maintains the storage climate, but also the value of your stored goods.



IEC 61010-2-011 standard

Liebherr refrigerators and fraeezers specially developed for storing temperature-sensitive products are CE safety-compliant. This ensures that all mechanical and electrical requirements for injury-free operation are met – and that you and your team are always safe.



SRFfg 5501 Performance



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Gross / net capacity	558/441 litre
Exterior dimensions in mm (w/d/h)	747/769/16
Interior dimensions in mm ($w/d/h$)	600/537/14
Energy consumption in 365 days ¹	399 kWh
Ambient temperature range	+10°C to +35
Heat output	408 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / Connection rating	220 - 240V~/
Cooling system / Defrost	forced-air/au
Temperature range	+3°C to +16°C
Gradient ² / max. fluctuation ³	3.7°C/3.0°C
External cabinet finish	steel/white
Door material	steel
Internal liner material	commercial g
Type of control	monochrome
Power failure alarm	when mains p
Fault: warning signal	visual and au
Volt-free alarm contact	yes
Connectivity type	SmartModule
Connectivity solution	Retrofittable
Interface	WiFi/LAN (op
Adjustable shelves	
Shelf material	glass
Usable shelf area in mm (w / d)	600/537
Shelf loading / device	40 kg / 300 kg
Handle	Antimicrobial
Access ports	1 x Ø 10 mm
ATEX conformity	yes
Type of lock	mechanical
Door hinges	right, reversib
Gross / net weight	92 / 80 kg
Accessories	
Glass shelf	9291929
Perforated metal shelf	
Scanner rail	7435210
Castors Ø 80 mm	9086926
Castors Ø 100 mm	9080023
Adjustable feet, 90 – 120 mm	9080022
Adjustable feet, 150 - 180 mm	9086924
Additional lock barrels (up to 5)	on request
Side-by-Side set	on request
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SmartModule

330/ 441 IIIIE	
747/769/1684	
600/537/1460	
399 kWh	
+10°C to +35°C	
408 kJ/h	
R 600a	
49 dB(A)	
220 - 240V~ / 2.0 A	
forced-air / automatic	
+3°C to +16°C	
3.7°C/3.0°C	
steel/white	
steel	
commercial grade moulded polystyrol	
monochrome display, touch buttons	
when mains power return	
visual and audible	
yes	
SmartModule	
Retrofittable	
WiFi/LAN (optional)	
5	
glass	
600/537	
40 kg / 300 kg	
Antimicrobial handle with opening mechanism	
1 x Ø 10 mm	
yes	
mechanical	
right, reversible on site	
92 / 80 kg	
9291929	
7435210	
9086926	
9080023	
9080022	
9086924	
on request	



SRFfg 4001 Performance

7435208

9086926

9080023

9080022

9086924

on request

on request

6145269







Torrormance	Terrormance
394/298 litre	344/261 litre
597/654/1884	597/654/1684
460/422/1660	460/537/1460
421 kWh	406 kWh
+10 °C to +35 °C	+10°C to +35°C
454 kJ/h	388 kJ/h
R 600a	R 600a
49 dB(A)	48 dB(A)
220-240V~/2.0 A	220-240V~/2.0 A
forced-air/automatic	forced-air/automatic
+3°C to +16°C	+3 °C to +16 °C
5.1°C/3.2°C	3.6°C/3.1°C
steel/white	steel/white
steel	steel
commercial grade moulded polystyrol	commercial grade moulded polystyrol
monochrome display, touch buttons	monochrome display, touch buttons
when mains power return	when mains power return
visual and audible	visual and audible
yes	yes
SmartModule	SmartModule
Retrofittable	Retrofittable
WiFi/LAN (optional)	WiFi/LAN (optional)
5	4
glass	glass
460/422	460/537
40 kg / 225 kg	40 kg / 180 kg
Antimicrobial handle with opening mechanism	Antimicrobial handle with opening mechanism
1 x Ø 10 mm	1 x Ø 10 mm
yes	yes
mechanical	mechanical
right, reversible on site	right, reversible on site
74/68 kg	70 / 60 kg
9293493	9293493
9029022	9029022

7435208

9086926

9080023

9080022

9086924

on request

on request

6145269

¹ Measured at +25°C ambient temperature and +5°C set temperature for fridges and -20°C for freezers.

 ² Gradient as defined in EN 60068-3: the difference between the warmest and coldest average measurements, increased by their expanded uncertainty, throughout the duration.
 3 Max. fluctuation as per EN 60068-3: greatest fluctuation value determined throughout the duration of measurements.



Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.