

Quality right down to the smallest detail

Liebherr offers refrigerators and freezers with a spark-free interior specifically for storing explosive and highly flammable substances in laboratories and in the chemical industry. The inner liners meet the safety requirements of EU Directive 2014/34/EU (ATEX) and have been tested according to the EN 1127-1, IEC 60079-0 and IEC 60079-15 standards by electro-suisse – SEV (Swiss association for electrical and power engineering and information technology), an approved ATEX conformity evaluation organisation.



SmartFrost
Where there's no ice, there's no need to defrost: SmartFrost greatly reduces the frost build-up in the interior and on stored products. Defrosting is required less often – and when it is necessary, it is made much easier by the smooth, easy-to-clean interior walls. The evaporator is embedded in foam insulation, ensuring high energy efficiency and uniform cooling.



±5 °C temperature stability
Sensitive substances cannot be subjected to large deviations from the set storage temperature. Liebherr freezers guarantee a temperature fluctuation of no more than ±5 °C, so that the valuable goods you store in them are optimally protected and their quality is preserved.



Compliance with the ATEX Directive
Liebherr laboratory appliances conform to EN/IEC 60079-0 / EN-IEC 60079-7 and comply with EU Directive 2014/34/EU ("ATEX Directive"). With an interior classified according to <Ex> II 3 G Ex ec IIC T6 (declared as Zone 22), they are suitable for flammable substances in closed containers that could form explosive atmospheres.



IEC 61010-2-011
Liebherr refrigerators and freezers 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.

Gross / net capacity	499 / 394 litre
Exterior dimensions in mm (w / d / h)	747 / 769 / 1684
Interior dimensions in mm (w / d / h)	588 / 517 / 1388
Energy consumption in 365 days ¹	516 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	713 kJ/h
Refrigerant	R 290
Sound power level	49 dB(A)
Voltage / frequency	220 – 240V~ / 50 Hz
Connection rating	2.0 A
Rated consumption watts	240 W
Cooling system / Defrost	static / manual
Temperature range	-9 °C to -30 °C
Gradient ² / max. fluctuation ³	5.4 °C / 3.3 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	commercial grade moulded polystyrene
Type of control	monochrome display, touch buttons
Power failure alarm	upon mains power return
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
SmartMonitoring compatible	yes
Connectivity type	SmartModule
Connectivity solution	retrofitable
Interface	WiFi/LAN (optional)
Removable shelves	4
Shelf material	glass
Usable shelf area in mm (w / d)	580 / 517
Shelf loading / Maximum total load	40 kg / 300 kg
Drawers	
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
ATEX conformity	yes
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	95 / 88 kg
Accessories	
Long drawer / Short drawer	9749825 / -
Castors Ø 80 mm / Ø 100 mm	9086926 / 9080023
Adjustable feet, 90 – 120 mm / 150 – 180 mm	9080022 / 9086924
Additional lock barrels (up to 5)	on request
Side-by-Side set in white	9017739
SmartModule	6145269



SFFfg 5501 Performance	SFFfg 5501 ver. 740 Performance
499 / 394 litre	499 / 310 litre
747 / 769 / 1684	747 / 769 / 1684
588 / 517 / 1388	588 / 517 / 1388
516 kWh	516 kWh
+10 °C to +35 °C	+10 °C to +35 °C
713 kJ/h	713 kJ/h
R 290	R 290
49 dB(A)	49 dB(A)
220 – 240V~ / 50 Hz	220 – 240V~ / 50 Hz
2.0 A	2.0 A
240 W	240 W
static / manual	static / manual
-9 °C to -30 °C	-9 °C to -30 °C
5.4 °C / 3.3 °C	5.4 °C / 3.3 °C
steel / white	steel / white
steel / white	steel / white
commercial grade moulded polystyrene	commercial grade moulded polystyrene
monochrome display, touch buttons	monochrome display, touch buttons
upon mains power return	upon mains power return
visual and audible	visual and audible
yes	yes
yes	yes
SmartModule	SmartModule
retrofitable	retrofitable
WiFi/LAN (optional)	WiFi/LAN (optional)
4	4
glass	glass
580 / 517	580 / 517
40 kg / 300 kg	40 kg / 300 kg
	8
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
95 / 88 kg	106 / 89 kg
- / -	- / -
9086926 / 9080023	9086926 / 9080023
9080022 / 9086924	9080022 / 9086924
on request	on request
9017739	9006786
6145269	6145269



SFFfg 4001 Performance	SFFfg 4001 ver. 740 Performance
316 / 242 litre	316 / 190 litre
597 / 654 / 1884	597 / 654 / 1884
403 / 402 / 1588	403 / 402 / 1588
384 kWh	384 kWh
+10 °C to +35 °C	+10 °C to +35 °C
529 kJ/h	529 kJ/h
R 290	R 290
49 dB(A)	49 dB(A)
220 – 240V~ / 50 Hz	220 – 240V~ / 50 Hz
2.0 A	2.0 A
220 W	220 W
static / manual	static / manual
-9 °C to -30 °C	-9 °C to -30 °C
5.2 °C / 2.4 °C	5.2 °C / 2.4 °C
steel / white	steel / white
steel / white	steel / white
commercial grade moulded polystyrene	commercial grade moulded polystyrene
monochrome display, touch buttons	monochrome display, touch buttons
upon mains power return	upon mains power return
visual and audible	visual and audible
yes	yes
yes	yes
SmartModule	SmartModule
retrofitable	retrofitable
WiFi/LAN (optional)	WiFi/LAN (optional)
5	5
glass	glass
400 / 402	400 / 402
40 kg / 270 kg	40 kg / 270 kg
	6
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
83 / 76 kg	90 / 82 kg
9749823 / 9749844	- / -
9086926 / 9080023	9086926 / 9080023
9080022 / 9086924	9080022 / 9086924
on request	on request
9006786	9006786
6145269	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.