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# Scientific and Healthcare 2023

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Next-level cooling solutions

# LIEBHERR

Refrigeration and freezing

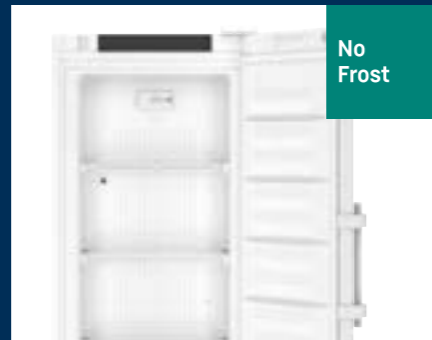


# Quality right down to the smallest detail



## LED front lighting

The LED front lighting provides optimal illumination of the drawers even in dark environments. Thanks to the perfect overview, the desired substance is immediately at hand, the door can be quickly closed again, and the interior temperature remains stable. For low consumption and lower energy costs.



No Frost

## NoFrost technology

Liebherr professional laboratory appliances no longer need manual defrosting. Any moisture that occurs is bound by the fan-assisted cooling, and when necessary, defrosting phases remove any remaining moisture particles from of the interior – for convenient, safe, and ice-free storage.



Ultra Efficient

## Ultra-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.



## ±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.



## DIN 13277 compliance

Laboratory and pharmacy refrigerators from Liebherr meet all the necessary equipment and performance criteria to fully comply with DIN 13277. DIN 13277 defines the requirements and test specifications for refrigerators and freezers used in laboratories and for storing medicinal products.



## IEC 61010-2-011 standard

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.



**SFFvh 5501**  
Perfection



**SFFsg 5501**  
Performance



**SFFsg 4001**  
Performance



<b>Gross / net capacity</b>	472 / 257 litre	499 / 394 litre	316 / 242 litre
<b>Exterior dimensions in mm (w / d / h)</b>	747 / 769 / 1793	747 / 769 / 1684	597 / 654 / 1884
<b>Interior dimensions in mm (w / d / h)</b>	603 / 510 / 1118	588 / 523 / 1388	403 / 408 / 1588
<b>Energy consumption in 365 days<sup>1</sup></b>	540 kWh	501 kWh	468 kWh
<b>Ambient temperature range</b>	+10 °C to +35 °C	+10 °C to +35 °C	+10 °C to +35 °C
<b>Refrigerant</b>	R 290	R 290	R 290
<b>Sound power level</b>	55 dB(A)	49 dB(A)	49 dB(A)
<b>Voltage / Connection rating</b>	220 - 240V~ / 2.0 A	220 - 240V~ / 2.0 A	220 - 240V~ / 2.0 A
<b>Cooling system / Defrost</b>	forced-air / automatic	static / manual	static / manual
<b>Temperature range</b>	-9 °C to -35 °C	-9 °C to -30 °C	-9 °C to -30 °C
<b>Gradient<sup>2</sup> / max. fluctuation<sup>3</sup></b>	5.5 °C / 4.4 °C	6.0 °C / 2.9 °C	5.7 °C / 2.5 °C
<b>External cabinet finish</b>	steel / white	steel / white	steel / white
<b>Door material</b>	steel	steel	steel
<b>Internal liner material</b>	commercial grade moulded polystyrol	commercial grade moulded polystyrol	commercial grade moulded polystyrol
<b>Type of control</b>	2.4" touch & swipe colour display	monochrome display, touch buttons	monochrome display, touch buttons
<b>Power failure alarm</b>	immediately upon power failure for at least 12 hrs	when mains power return	when mains power return
<b>Fault: warning signal</b>	visual and audible	visual and audible	visual and audible
<b>Volt-free alarm contact</b>	yes	yes	yes
<b>Connectivity type / Connectivity solution</b>	SmartModule / Integrated, removable	SmartModule / Retrofittable	SmartModule / Retrofittable
<b>Interface / Data logger</b>	WiFi/LAN / integrated, USB interface	WiFi/LAN (optional) / -	WiFi/LAN (optional) / -
<b>Interior light</b>	LED		
<b>Adjustable shelves / Shelf material</b>	4 / wire shelves plastic-coated	4 / wire shelves plastic-coated	5 / wire shelves plastic-coated
<b>Usable shelf area in mm (w / d)</b>	603 / 510	588 / 523	403 / 408
<b>Shelf loading / device</b>	60 kg / 300 kg	60 kg / 300 kg	45 kg / 270 kg
<b>Castors</b>	castors with brake at the front, fixed castors at the rear		
<b>Drawers / Number of baskets</b>	6 / 2		
<b>Handle</b>	Antimicrobial handle with opening mechanism	Antimicrobial handle with opening mechanism	Antimicrobial handle with opening mechanism
<b>Type of lock / Door hinges</b>	mechanical / right, reversible on site	mechanical / right, reversible on site	mechanical / right, reversible on site
<b>Gross / net weight</b>	114 / 104 kg	94 / 80 kg	81 / 76 kg
<b>Accessories</b>			
<b>Shelf, plastic-coated</b>	7112590		
<b>Glass shelf / Full-depth drawer</b>		9293495 / 9797881	9293499 / -
<b>Short bottom basket / Standard full-depth basket</b>	- / 9141791	9141004 / 9141791	
<b>Castors Ø 80 mm / Ø 100 mm</b>	9086926 / -	9086926 / 9080023	9086926 / 9080023
<b>Adjustable feet, 90 - 120 mm / 150 - 180 mm</b>	9080022 / 9086924	9080022 / 9086924	9080022 / 9086924
<b>Additional lock barrels (up to 5)</b>	on request	on request	on request
<b>Side-by-Side set</b>	on request	on request	on request
<b>Product sensor (PT 1000)</b>	6942678		
<b>SmartModule</b>		6145269	6145269

<sup>1</sup> Measured at +25°C ambient temperature and +5°C set temperature for fridges and -20°C for freezers

<sup>2</sup> Gradient as defined in EN 60068-3: the difference between the warmest and coldest average measurements, increased by their expanded uncertainty, throughout the duration.

<sup>3</sup> Max. fluctuation as per EN 60068-3: greatest fluctuation value determined throughout the duration of measurements.



# WolfLabs

**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.