

Research and laboratory

#### Laboratory freezers with spark-free interior

# 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.



#### Easy-to-clean interior

The plastic inner liner is made of polystyrene: a fully recyclable, robust, and odourless plastic. Manufactured seamlessly from one piece, it has no hidden dirt traps, and the large, rounded corners can be cleaned quickly and easily. It's the perfect combination of sustainability and hygiene.



#### **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.



#### 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.



#### ±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.



#### 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.

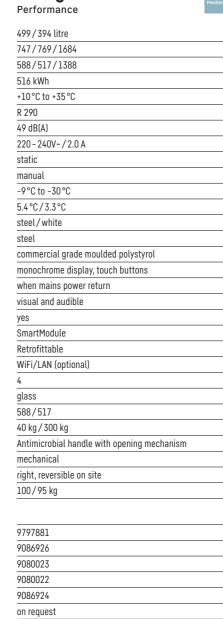


#### Compliance with the **ATEX Directive**

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.



### SFFfg 5501





SFFfg 4001	Smart Monitorin
Performance	
316 / 242 litre	
597 / 654 / 1884	
403/402/1588	
384 kWh	
+10°C to +35°C	
R 290	
49 dB(A)	
220 - 240V~ / 2.0 A	
static	
manual	
-9°C to -30°C	
5.2°C/2.4°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	
403 / 402	
40 kg / 270 kg	
Antimicrobial handle with opening mechanism	
mechanical	
right, reversible on site	
82 / 76 kg	
9086926	
9080023	
9080022	
9086924	

on request

on request

6145269

on request

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Gross / net capacity

Refrigerant

Sound power level

Cooling system

Temperature range

External cabinet finish

Internal liner material

Power failure alarm

Fault: warning signal Volt-free alarm contact

**Connectivity solution** 

Adjustable shelves Shelf material

Shelf loading / device

Usable shelf area in mm (w / d)

Connectivity type

Interface

Handle

Type of lock

Door hinges

Accessories

Gross / net weight

Full-depth drawer

Castors Ø 80 mm

Castors Ø 100 mm

Side-by-Side set

SmartModule

Adjustable feet, 90 - 120 mm

Adjustable feet, 150 - 180 mm

Additional lock barrels (up to 5)

Door material

Type of control

Defrost

Exterior dimensions in mm (w/d/h)

Interior dimensions in mm (w / d / h) Energy consumption in 365 days <sup>1</sup>

Ambient temperature range

Voltage / Connection rating

Gradient 2 / max. fluctuation 3

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

The equipment details shown depend on the model; the description for the respective model applies



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.