

Scientific and Healthcare 2026

Next-level cooling solutions

LIEBHERR

Refrigeration and freezing





Best results without fail

Reliable refrigeration of temperature-sensitive substances poses enormous challenges for the research and healthcare sectors. To help you overcome every one of them, Liebherr offers high-quality refrigerators and freezers combined with innovative monitoring solutions and a comprehensive range of services.

For example, the network connection of refrigerators and freezers with SmartMonitoring guarantees maximum reassurance and a significant reduction in workload. This support is further enhanced by our high-quality service – from planning and installation to ongoing support.

And, in terms of sustainability, we can boast more than 70 years of expertise and a passion for professional refrigeration and freezing – with unsurpassed energy efficiency, natural refrigerant and extremely long-lasting appliances.

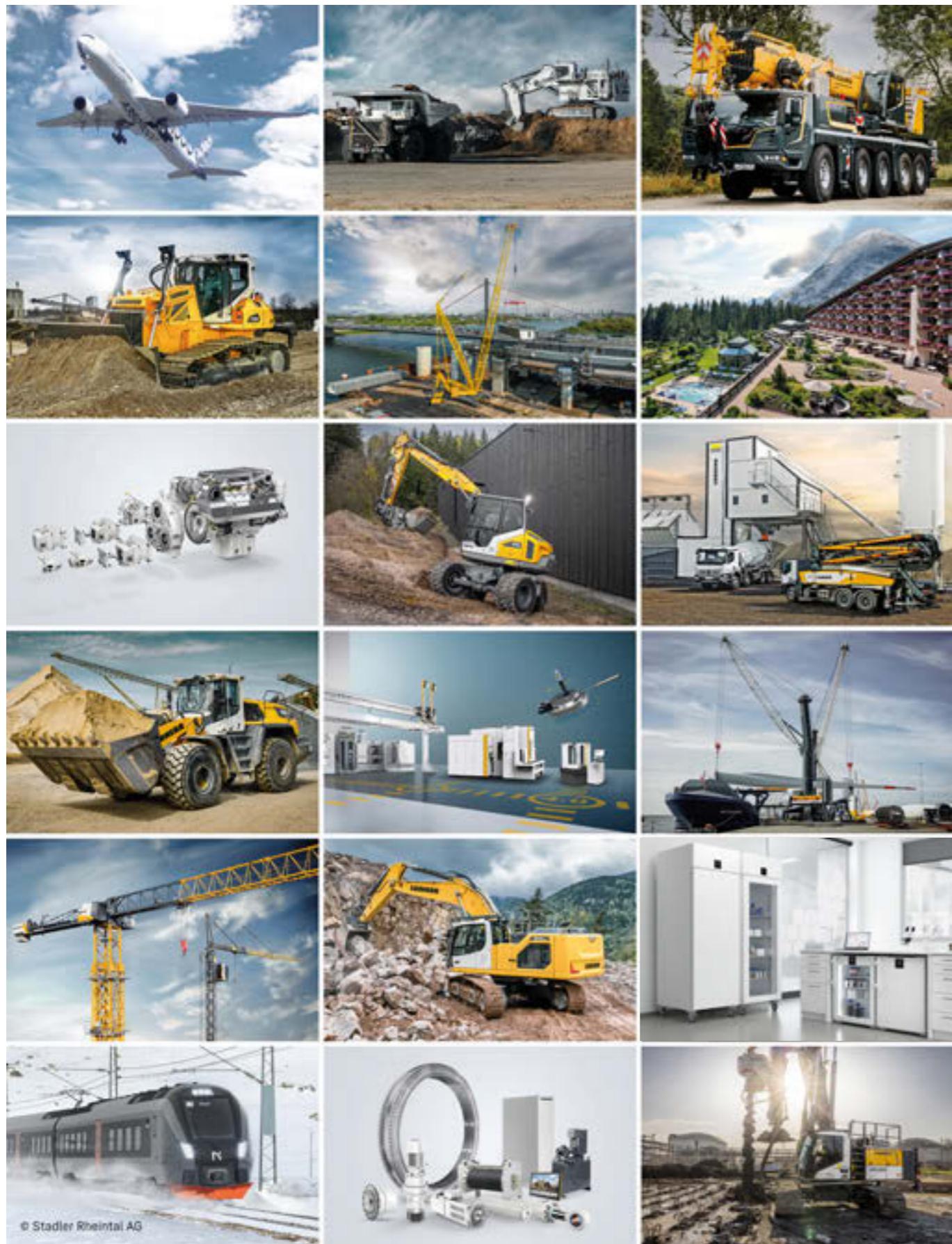
The quality that characterises Liebherr pays off in many ways. On the following pages, you can find out how research and healthcare can benefit from our complete solutions.



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If the masculine form is used in the wording, it is solely for the sake of readability and without any intention to discriminate. It is meant here as a gender-neutral term and refers to all gender identities.



The Liebherr Group

Liebherr-Hausgeräte GmbH

For seven decades, Liebherr-Hausgeraete GmbH has been specialising in the manufacture of innovative refrigerators and freezers. The company employs more than 6,800 staff worldwide and develops and produces a wide range of refrigerators and freezers for domestic and professional use. Thanks to their freshness technologies and high-quality materials, the consumer appliances from the premium manufacturer impress with their energy efficiency, elegant design and long service life. In professional use, refrigerators and freezers from Liebherr stand for maximum safety with intelligent features and exceptional quality. With an annual production of around 2 million appliances, Liebherr-Hausgeraete is one of the leading European manufacturers in the premium class, combining quality, design, and innovation.

Global and independent: The Liebherr Group, more than 75 years of success

Liebherr was founded in 1949 when, with the development of the world's first mobile tower crane, Hans Liebherr laid the foundations for a family-run company which now has more than 50,000 employees and comprises over 150 companies across every continent. The holding company of the Group is Liebherr-International AG in Bulle, Switzerland, whose shareholders are exclusively members of the Liebherr family.

Technology leadership and pioneering spirit

Liebherr is a pioneer and its forward-looking approach has seen it make important contributions to technology history over a wide variety of industries. Employees throughout the world continue to share the courage of the company founder, sharing a passion to produce innovative products and a determination to provide world-leading equipment and machinery.



Diversified product programme

Liebherr is one of the world's biggest construction machine manufacturers and provides high-quality, user-oriented products and services. Its product range includes the product segments earthmoving, material handling, deep foundation, mining, mobile and crawler cranes, tower cranes, concrete technology, maritime cranes, aerospace and transportation systems, gear technology and automation systems, refrigerators and freezers, components and hotels.

Customised solutions and maximum customer value

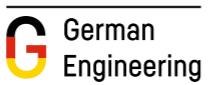
Liebherr solutions are characterised by precision, implementation and longevity. The company is committed to technological excellence and to providing customers with solutions that match their needs exactly. For Liebherr, customer focus does not end with delivery of a product but continues through a comprehensive range of back-up and support services.

Quality is in our DNA

Our work is driven by the high demands of our customers worldwide. For 70 years, we have been offering high-quality appliances for private and commercial use, meeting these high demands, proving their durability, and delivering value for the investment.

Specialists in refrigeration and freezing

With outstanding quality, pioneering technologies as well as aesthetic yet user-friendly design, Liebherr sets new standards again and again. How do we do it? By specialising in what we do: developing and manufacturing outstanding refrigerators and freezers, especially for professional use. Research, laboratories and medicine are just some of the areas for whose special requirements our appliances are explicitly designed – with a clear mission: to make your demanding day-to-day work easier with maximum precision and safety.



Tested down to the finest detail – and beyond

From conception and development to production and marketing, at Liebherr, we do everything we can to offer top-quality, innovative products. We test all the mechanical, electronic and refrigeration components for reliable operation, from the development stage onwards. Before we approve a door hinge, for example, it must undergo at least 100,000 opening cycles. You can count on this: your Liebherr appliance will be the professional partner by your side – 24 hours a day, 365 days a year.

Cleverly built for maximum safety

Sensitive samples, research materials and preparations leave no room for error when it comes to refrigeration. Reliability is crucial, and that's exactly what Liebherr stands for. Liebherr professional appliances have been specifically developed to meet the challenging requirements of the research, laboratory and medical sectors. With clever design details, high-quality materials and innovative technologies, they provide maximum safety and ease of use.

The Liebherr factor:

Professional refrigerators and freezers

- Specially developed for research, laboratories and medicine
- Safe storage of sensitive substances
- Top quality, thanks to elaborate testing procedures
- Complete solution in combination with SmartMonitoring

Taking responsibility

We take responsibility for the entire product lifecycle – from development and production to long-term use. That's why we are continuously improving our manufacturing processes to reduce environmental

impact while maintaining Liebherr's high quality standards. Alongside energy efficiency, we focus on durability and ensure spare parts are available for up to 15 years.*



Our path to the future

People and sustainable business

- Fair working conditions
- Long-term thinking
- Responsible sourcing
- Legal and ethical compliance

Use

- Maximum energy efficiency
- Long product life
- Easy to repair
- Optimal food storage

Recycling

- Recyclable product design
- Easy material separation
- Reuse of components
- Designed for circularity

Production

- Lower energy use
- More green electricity
- Less waste

Materials

- More renewable materials
- More recycled content
- Fewer harmful substances
- Reduced material variety



Learn more about our
Corporate Responsibility:
home.liebherr.com/sustainability

*Liebherr-Hausgeräte also guarantees this service retroactively for all appliances produced since 1 January 2021.

Consciously developed

Sustainability is part of every design decision we make – from development and material selection to production and supply chain management. We prioritise recyclable and low-impact materials, and continuously improve energy efficiency in manufacturing. During use, our appliances require minimal maintenance and are known for their low energy consumption and operating costs.

Hydrocarbon refrigerants

Liebherr uses only hydrocarbon refrigerants: R 600a in refrigerators and R 290 in freezers. Both have a very low global warming potential and enable high compressor efficiency – combining strong performance with lower energy consumption and electricity costs.

Responsibly manufactured

We handle resources responsibly and are increasing the use of green energy in the production of our appliances. We recycle the energy released during production, for example, to heat buildings. We also reduce waste by separating materials and recycling wherever possible.

Europe-wide certification

All our European production sites are certified according to the international standards for quality management (ISO 9001), environmental management (ISO 14001), occupational health and safety (ISO 45001) and energy management (ISO 50001).



The Liebherr factor:

Environmentally conscious development and production:

- Appliances with very low energy consumption
- Hydrocarbon refrigerant
- Resource-saving manufacturing processes
- European sites are fully ISO-certified

Choose refrigeration and freezing from the professionals

Whether in biotechnology, pharmaceutical research, or healthcare, the highly demanding work relies on refrigeration that meets the highest standards. With specially developed professional appliances and innovative SmartMonitoring, Liebherr offers solutions for the stringent requirements of the medical and scientific sectors – and strong arguments for choosing our systems expertise.

Five good reasons for our outstanding performance.



Reliable temperature stability

Liebherr professional appliances are characterised by outstanding temperature stability. Sensitive vaccines, preparations, samples and medicines are cooled to precise, constant temperatures – even under extreme climatic conditions. In addition, SmartMonitoring documents the temperature and sends alerts in the event of deviations.



Standard safety functions

Liebherr stands for maximum protection of valuable products. Numerous safety functions ensure that the quality of temperature-sensitive substances is constantly assured – as is the quality of your work. If you want maximum certainty, you can use our cloud-based SmartMonitoring solution, with instant notifications for additional peace of mind.



Innovative alarm systems

Research and medicine allow no room for inaccuracy – and that includes storage temperatures. Liebherr professional appliances are equipped with various alarm systems that immediately warn of any deviations and help you to realistically assess critical situations. In addition to the integrated alarm systems, SmartMonitoring also alerts you by text message, email or phone.



Sustainability and economy

Our refrigerators and freezers only use natural refrigerants and are characterised by high efficiency as well as very low energy and operating costs. The outstanding TCO (total cost of ownership) is also down to the long service life, easy care and, not least, the fact that the appliances need hardly any maintenance.



Compliance with standards and directives

Liebherr refrigerators and freezers comply with all relevant standards, norms and directives on storage quality, hygiene and safety. In addition, SmartMonitoring documents critical temperature data and automatically generates reports.

Discover all the details of SmartMonitoring starting on page 112 and find out how the digital system maximises safety and lightens your workload. Availability varies by country, please contact your Liebherr Account Manager for details.



Stable temperature – constant quality

Liebherr appliances offer maximum reliability for storing sensitive substances by ensuring constant temperatures. SmartMonitoring also monitors the temperature stability and sends an alarm if there are any deviations. This not only maintains the correct climate for storage but also preserves the value of your stored products.

Precise temperature ranges

Temperature fluctuations must be minimal to ensure that the quality of sensitive substances is preserved. Liebherr refrigerators will not deviate from the set temperature by more than ± 3 °C, and Liebherr freezers will not stray by more than ± 5 °C. The measurement method in accordance with EN 60068-3 is used to determine the temperature fluctuations. This optimally protects the quality of their valuable contents.

Stability is in the air

The circulating-air refrigeration system and the optimal airflow in the interior keep the temperature stable and ensure that the set temperature is quickly restored after the door has been opened. This means frequent opening of the door during day-to-day use has little effect on temperature stability.



The Liebherr factor:

Consistent refrigeration for reliable storage:

- Temperature setting accurate to a tenth of a degree
- Low tolerance for deviations
- Innovative circulating-air refrigeration system
- Optimal airflow and circulation
- Constant monitoring of the precise storage temperature

Safety as standard

When handling highly sensitive substances, safety is the top priority. Whether the risk is unauthorised access or loss of quality – Liebherr protects valuable contents with numerous safety functions and additional digital monitoring.

SmartLock: the door that thinks

To prevent products from accidentally entering circulation after an interruption in the cold chain, SmartLock automatically locks the door in the event of an alarm. Only authorised people can unlock it again.

Self locking door: with safety hinges

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.

Locking systems: individual and secure

Liebherr appliances can be electronically locked and unlocked using an individual PIN code and digital remote control by as many users as you like – without them having to share a key.

+2 °C SafetyDevice: protection from freezing

If the temperature falls below +2 °C due to a malfunction while the temperature setting is at +5 °C or higher, the SafetyDevice takes control, stabilising the temperature, activating the alarm and protecting the contents from freezing. At colder settings, this activation threshold decreases relatively with the temperature setting.



SmartMonitoring: extra safety

Liebherr's digital monitoring solution reliably documents the storage temperature and alerts you immediately in the event of fluctuations.

The Liebherr factor:

Integrated safety functions and SmartMonitoring to protect sensitive substances:

- Self-closing door at an opening angle of less than 90°
- Automatic locking in the event of an alarm
- Electronic/mechanical locking systems
- Protection from freezing in the event of malfunctions
- Documentation and alarms when required, thanks to SmartMonitoring

Checks are good, but alarms are better

Professional refrigerators and freezers together with SmartMonitoring guarantee maximum storage safety through constant temperature monitoring, immediate alarms for uncontrolled fluctuations and recording of critical situations.



LightAlarm: know at a glance when action is needed

If there is an uncontrolled temperature rise, if a door has been left open or there are any other problems, the interior light of the appliance starts flashing. In the case of glass-door appliances, this quickly reveals where action is needed. With solid-door appliances, the flashing interior warns you to close the door immediately to preserve the storage quality.

Alarm relay: don't miss any deviations

In the event of an alarm, the responsible control centre is informed immediately, usually through connections to the building control system. You can define in advance which alarms are to be forwarded, as well as set how long forwarding remains active and whether a reminder should be sent after the alarm is acknowledged. This allows you to react immediately in critical situations.

Alarm history: quality check made easy

In order to be able to evaluate the quality of the stored substances, a clear history of anomalies that have occurred is necessary. The alarm history logs important data such as the date, duration and maximum temperature of the last ten, and can be accessed and reviewed from anywhere.

Integrated data logger: can be traced back for years

To ensure full traceability, the integrated data logger records the temperature profile, alarm history and service information for up to five years. The stored data can be read directly from the appliance via a USB interface.

SmartMonitoring: additional digital alarms

If there are deviations in the storage temperature, SmartMonitoring immediately alerts you by email, or by text message or phone (optional). This helps you react before problems arise. In addition, SmartMonitoring documents all relevant temperature data and automatically generates reports. For more details see page 112.

Maximum performance at a minimal cost

Rising costs increase the requirements that professional refrigerators and freezers must meet. Liebherr scores highly here on every level with sustainably economical appliances.



Ultra-efficient: good for people and the environment

Energy-efficient refrigerators and freezers help with ever-increasing electricity prices. Liebherr fully utilises the savings potential of every component – from the compressor to the seal, to the lighting and electronics. The ultra-efficient appliances in the Perfection series, for example, demonstrate how this positively affects your overall operating costs.

Outstanding service life: satisfaction guaranteed

Liebherr appliances are designed for a long service life. Extremely robustly manufactured, they withstand the demands of daily use. This is quality that pays off – for many years to come.

Almost maintenance free: saves costs, time and aggravation

Liebherr's professional freestanding appliances operate without filters or other components and parts that require regular replacement. They only need to be regularly cleaned and calibrated according to your individual needs.

Original Liebherr: 15 years of spare parts availability

Liebherr-Hausgeräte GmbH is taking the service life of its high-quality appliances one step further for its customers: Spare parts availability will be extended to 15 years from the end of production of the respective model. This applies to all functional parts and storable parts of the equipment. Liebherr-Hausgeräte also guarantees this service retroactively for all appliances produced since 1 January 2021.

The Liebherr factor:

Very low energy and total operating costs:

- Energy-efficient
- Extremely long service life
- Almost maintenance-free

Meeting the highest expectations. And the applicable standards and directives.

Hardly any sector has more stringent requirements for the storage of substances than those of research, laboratories and medicine. Liebherr professional appliances are specially developed to meet these extremely strict requirements for aspects such as hygiene and occupational safety.



DIN 13277 compliance

Laboratory and pharmaceutical refrigerators from Liebherr meet all the necessary property and performance criteria to fully comply with DIN 13277.

IEC 61010-2-011 compliance

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 kept safe.

ATEX compliance

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.

Cleanroom compatibility

Liebherr fridges and freezers in the new scientific line have been tested for use in cleanrooms in accordance with DIN EN ISO 14644. This eliminates the need for you to carry out an additional risk assessment.

Antimicrobial handle

A benefit for users but a bane for germs: The easy-turn handle mechanism makes opening the door effortless. It contains special antimicrobial substances that reduce bacteria by up to 99.99%*. Regular and time-consuming disinfection is not necessary. This means the appliance is extremely safe even if many people have access to it.

*According to ISO 22196:2011

Recommended cleaning products and disinfectants

Liebherr appliances are designed for a long service life. To maintain them, the manual or separate instructions contain recommendations for cleaning products and disinfectants that have been tested by Liebherr for safe use. This way you can be sure that you are not accidentally harming your appliance when you are trying to take care of it.

Easy-to-clean interior

The 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.

SmartMonitoring

The digital, cloud-based solution from Liebherr helps provide proof of compliance and full documentation of the temperature data (find out more on page 112).



The Liebherr factor:

Designed to meet the strictest standards, norms and directives:

- Suitable for storing sensitive substances in accordance with **DIN 13277**
- Safe operation in accordance with **IEC 61010-2-011**
- ATEX compliant for storing explosive and highly flammable substances
- Cleanroom compatible
- Hygienic and easy-to-clean design
- SmartMonitoring for reliable documentation as proof of temperature compliance



Networked for greater safety: digital networking solutions from Liebherr

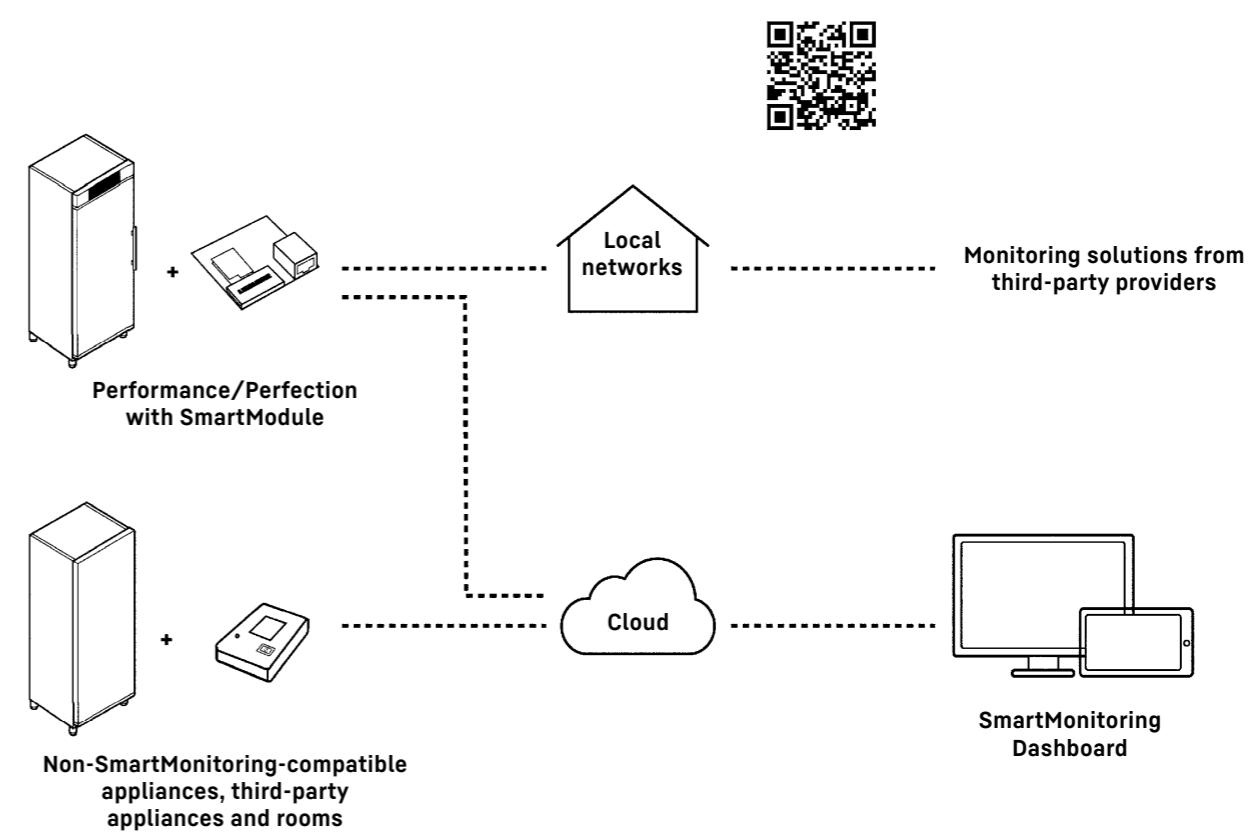
Digital monitoring makes reliable Liebherr appliances even safer and takes protection of valuable contents to a new level. Digital solutions monitor and document the storage temperature – relieving you of a daily task that would otherwise require your time and attention.

SmartMonitoring – the complete solution

If you are looking for a complete monitoring system for your fridge or freezer, SmartMonitoring is your solution. It lets you fully document the temperatures in your appliance and automatically sends you reports. In addition, you are notified of any deviations from the temperature ranges that you set – by email or, if required, even via text or a phone call. You also receive a notification if the door is left open for too long or if the appliance malfunctions. As SmartMonitoring is a cloud-based system, you can view the status of your appliance any time, anywhere. If you own other appliances from third-party providers, SmartMonitoring lets you monitor these via external data loggers. Discover all of the details of SmartMonitoring starting on page 112.

Do you already have your own system? Or want to set one up?

For customers who already have their own system, for example an LIMS for their appliances, or plan to install one, Liebherr provides the option of connecting fridges and freezers. Temperature and other appliance data can be read out via a local interface. The SmartModule acts as a gateway; it is integrated in Perfection appliances and can be easily retrofitted to Performance appliances. You can find more information and a description of the interface here: <https://developer.liebherr.com/apis/smartmodule-localapi/>



Endlessly reliable. Take our word for it.

In research, laboratories and medicine, there are more jobs to do, and less time to do them. Liebherr takes some of them off your hands. Let us lighten your daily workload – with many different services to ensure reliable refrigeration from the professionals.

Delivery right to your door

Liebherr offers you various delivery options. We can deliver your new appliance to the kerbside or take it right into the place of use and unpack it there. We'll not only take back the packaging for disposal, but also your old appliance if you wish.

Commissioning and training

Our experienced technicians are available to demonstrate all the features and capabilities of your new appliance. This ensures that you can make optimal use of your appliance right from the start.

Maintenance: doing it right

Liebherr appliances for research, laboratory and medicine require an impressively low amount of maintenance.

Comprehensive solution for everyday use

Fulfils the highest standards for data protection

Protect your valuable substances

Reliable documentation for proof of temperature compliance

Prevention of damage and loss of quality

More time to concentrate on the essentials

Simple and convenient monitoring solution

Meets the strict DIN 13277 standard on storage of temperature-sensitive substances such as pharmaceuticals



Professional delivery service from kerbside to place of installation, including disposal of packaging and old appliances

Fast and professional customer service

Commissioning and training

Large selection of professional appliances for research, medicine and laboratories

Maximum precision and reliable temperature stability

Two unique series

Whether it's a large research facility, a small laboratory, a doctor's surgery, a nursing home, or a pharmacy, our range includes models for every requirement. But no matter how different the appliances are, they all have one thing in common: their first-rate quality.

Performance Perfection

Performance series

All the appliances in the Performance series comply with the safety standard IEC 61010-2-011. In addition, some appliances meet other standards, such as the ATEX directive.



Optimal temperature stability



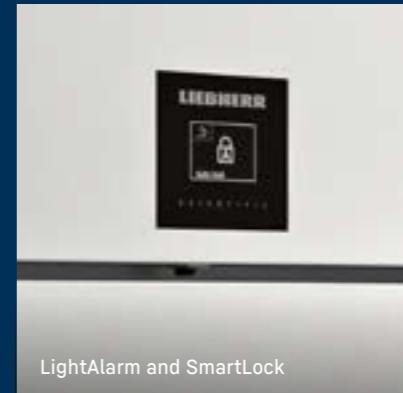
Storage temperature at a glance



LED interior light



Antimicrobial handle with opening mechanism



LightAlarm and SmartLock

Perfection series

The appliances in the Perfection series not only comply with the IEC 61010-2-011 safety standard but also with DIN 13277, which specifies requirements for laboratory and medical applications.



Built-in LAN/WiFi interface for SmartMonitoring etc.

MediLine	Performance-Series	Performance-Series	Perfection-Series
General laboratory use SUFsg	General laboratory use SRCse/SFCse	General laboratory use/ATEX SRFvg/SFFsg/SRFFfg/SFFfg/SCFfg/SCFvg/SRPvg/SFPvg/SRTvg/SRTfg/SFTsg/SFTfg/SRUvg/SFUsg/SRUfg/SFUfg	General laboratory use SRFvh/SFFvh/SCFvh/SRPvh/SFPvh/SRTvh/SFTvh
Temperature stability	Refrigerators < ± 3 K deviation from setpoint	Refrigerators < ± 3 K deviation from setpoint	Refrigerators < ± 2 K deviation from setpoint
Freezers < ± 7 K deviation from setpoint	Freezers < ± 5 K deviation from setpoint	Freezers < ± 5 K deviation from setpoint	Freezers < ± 5 K deviation from setpoint
SmartFrost	Freezers with SmartFrost	Freezers with SmartFrost; SFPvg with NoFrost	Freezers with NoFrost
Calibration option		Calibration option	Calibration option
Storage safety	Visual and audible alarms	Visual and audible alarms	Visual and audible alarms
Custom alarm settings possible		Custom alarm settings possible	Custom alarm settings possible
Alarm relay		Alarm relay	Alarm relay
Alarm with battery backup (72 h) immediately upon power failure		+2 °C SafetyDevice function (Refrigerators)	+2 °C SafetyDevice function (Refrigerators)
Integrated data logger		Alarm immediately upon power failure	Alarm with battery backup (12 h) immediately upon power failure
Mechanical lock	Mechanical lock	Min./max. temperature log	Min./max. temperature log
Interfaces	Interface Ethernet	Optional LAN/WiFi	Integrated LAN/WiFi
Modbus RTU communication protocol TCP/IP	Local API (optional via SmartModule)	Local API (optional via SmartModule)	Local API
USB interface for reading the data logger			USB interface for reading the data logger
SmartMonitoring	external data loggers	SmartModule can be retrofitted	SmartModule integrated
Features	LED 7-segment display with buttons	LED display, touch button	2.4" touch & swipe colour display
Maintenance timer 360 days		Monochrome display, touch buttons	Individually adjustable maintenance timer
Castors as standard		Individually adjustable maintenance timer	Castors/adjustable feet as accessories, 75 cm-wide appliances with castors as standard, SRPvh/SFPvh with castors as standard
3 Sensor feedthroughs	Sensor feedthrough	Fridge evaporator cover (stops items freezing to inner liner), only for glass door models and SRTvg/SRTfg models	Fridge evaporator cover (stops items freezing to inner liner), only for glass door models and SRFvh/SCFvh/SRTvh models
	Refrigerators: LED lighting in the front housing	Sensor feedthrough	Sensor feedthrough
	Freezers: LED lighting in the front housing	Refrigerators: glass door models with ceiling lighting (SRPvg models with ceiling lighting)	Refrigerators: Insulated and glass door models with vertical lighting
Aluminum lever handle	Integrated handle	Freezers: no lighting (SFPvg models with ceiling lighting)	Freezers: LED lighting in the front housing (SFPvh models with vertical lightning)
Energy consumption		Antimicrobial handle with opening mechanism (SRPvg/SFPvg with integrated handle)	Antimicrobial handle with opening mechanism (SRPvh/SFPvh with integrated handle)
Compliance	Safety according to IEC 61010-2-011	Super-efficient	Ultra-efficient
	Safety according to IEC 61010-2-011	Safety according to IEC 61010-2-011	Safety according to IEC 61010-2-011
		ATEX directive (SRFfg/SFFfg/SCFfg/SRTfg/SFTfg)	Fulfils DIN 13277

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1	Market segment	6 + 7	Gross volume*
S	Scientific	08	80 litres
		10	100 litres
		15	150 litres
2	Temperature	35	350 litres
R	Fridge	40	400 litres
F	Freezer	50	500 litres
C	Fridge-freezer	55	550 litres
U	Ultra-low temperature (ULT)	65	650 litres
		70	700 litres
		84	840 litres
3	Structural design	14	1400 litres
F	Freestanding / upright bottom mount compressor	8	Door variant
P	Freestanding / upright top mount compressor	0	Solid door or drawer
U	Fully integrated under bench appliance	1	Insulated glass door
T	Freestanding under bench appliance	3	Insulated glass door / solid door (fridge-freezer)
C	Counter top appliance		
4	Ventilation system	9	Number of doors/compartments
s	Static	1	One
v	Ventilated	2	Two
f	Explosion-proof interior, suitable for flammable-material storage		
5	User interface (UI)		
e	TouchControl UI		
g	Basic UI		
h	Advanced UI		

* See the appliance description for exact volume.



SRFvh 4011



ULT freezers – maximum safety and efficiency at ultra-low temperatures

Liebherr ultra-low temperature freezers set new standards in the temperature range from -40°C to -86°C . Not only do they offer unprecedented quality and reliability for storing highly sensitive substances, but also outstanding energy efficiency and ease of use that you will notice every day. Robust, economical and extremely safe, the series of appliances from the experts in freezing for laboratories and research facilities boasts an impressive number of functions and features, ensuring optimal protection for your valuable samples, chemicals, and research materials.

This allows you to fully concentrate on your work with peace of mind.

The advantages at a glance

SmartMonitoring

The cloud-based digital solution continuously documents temperatures with the help of external data loggers and alerts you immediately via email, text message or phone if any deviations occur.

Stainless steel workmanship

The interior, shelves and inner doors are made of rust-proof stainless steel and are therefore easy to clean. This enables optimum hygiene.

Shelves

Three stainless steel shelves in the interior, that can be freely adjusted in 24 mm increments, offer flexibility for space-saving storage, tailored to your requirements. You can add more shelves if required.

Serial interfaces

Interfaces for connecting to documentation and monitoring systems, as well as a volt-free contact for sending alarms to external remote warning systems.



Data recording

There are two feedthroughs (28 mm) on the top and bottom left for installing separate sensors for external monitoring or data recording systems in the interior.



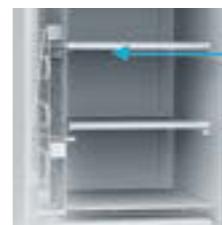
Door seals

The innovative door seal design, consisting of two all-round seals, makes the door completely airtight when closed. This also helps reduce energy consumption. The seals can be replaced separately and without tools.



Monitoring system

The 3-stage monitoring system, consisting of integrated alarm notifications for temperature, door or mains electrical faults, upgradable features such as CO₂ emergency refrigeration and online monitoring, ensures optimum protection during storage. In the event of a power failure, integrated 12-volt batteries immediately supply the electronics with power. Notifications are provided in critical situations.



Pressure compensation valve

When the door is opened and closed, the air exchange creates a vacuum which makes it difficult to open the door again immediately afterwards. The heated pressure compensation valve quickly equalises the vacuum and the door can be easily opened again after just a few seconds.

Unloading ramp

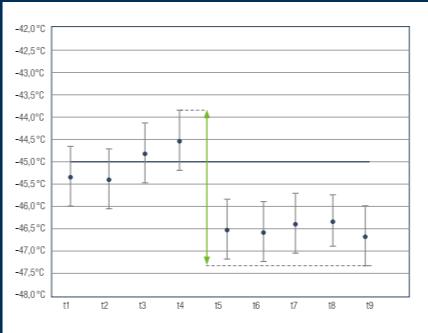
No forklift required: the unloading ramp integrated in the packaging helps you easily position the appliance.



Mechanical lock

The mechanical lock protects the stored products from unwanted access. The door is opened with an ergonomic and unbreakable aluminium lever handle.

Quality right down to the smallest detail



Minimal temperature fluctuations

In order to maintain the quality of the stored samples, it is important to minimise temperature fluctuations. Liebherr ultra-low temperature freezers are characterised by extremely low fluctuations, both within the appliance and over time.



Low energy consumption

Ultra-low temperature freezers are among the appliances with the highest energy consumption in research facilities. Liebherr ultra-low temperature freezers are some of the most economical models on the market worldwide. In combination with highly insulating vacuum panels, the efficient cooling system allows economical operation, optimum energy savings and therefore low operating costs.



Low heat generation

The efficient cascade cooling system, using HC refrigerants, generates significantly less heat than previous technologies. This reduces costs in the thermal design of the room's air conditioning system. If heat dissipation via the room air conditioning is not possible, water cooling is available as an option.



Connection to documentation and monitoring systems

All the appliances have a volt-free alarm output and an Ethernet interface for remote monitoring. In addition, the temperature and alarm records can be read via the integrated USB interface. Optionally, a 4-20 mA output allows the temperature value to be integrated into existing data recording systems. External data loggers can be used to monitor the temperature in Smart-Monitoring, for example.



IQ, OQ, training

From installation qualification (IQ) to operational qualification (OQ) to training, we offer you comprehensive expert help with installation and commissioning. We carry out the various checks for you or set specific parameters for you on request. In addition, we provide on-site training for your staff on how to use the equipment and address any questions you may have. Our document folder also contains all the essential information about the devices.



Installation service for accessories

Our qualified installation service assists you with professional installation and connection of accessories, such as the analogue temperature sensor or CO₂ emergency refrigeration.

**SUFsg 7001**

MediLine

Gross / net capacity	728 / 700 litre
Exterior dimensions in mm (w / d / h)	1204 / 1082 / 1966
Interior dimensions in mm (w / d / h)	890 / 605 / 1300
Energy consumption in 365 days ¹	2957 kWh
Ambient temperature range	+16 °C to +32 °C
Heat output	1224 kJ/h
Heat output system / Refrigeration system	air cooling / 2-stage cascade system
Refrigerant	R 290 / R 170
Sound power level ²	47 dB(A)
Voltage / frequency / Connection rating	230V~/ 50 Hz / 7.0 A
Temperature range	-40 °C to -86 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	stainless steel
Type of control	LED 7-segment display with buttons
Volt-free alarm contact	yes
SmartMonitoring compatible / Connectivity type	yes / external data loggers
Connectivity solution	retrofittable
Interface	LAN (Ethernet)
Data logger	integrated, USB interface
Power failure alarm	immediately upon power failure for 72 hrs
Cooling system	static
Pull-down time +22 °C to -80 °C	450 min
Warm-up time -80 °C to -60 °C / to 0 °C	250 min / 2220 min
Number / maximum number of storage shelves	4 / 11
Adjustable shelves	3
Shelf material	stainless steel
Usable shelf area in mm (w / d)	860 / 590
Shelf loading / Maximum total load	50 kg / 200 kg
Number of racks per shelf	6
Max. number of cryoboxes, 50 mm / 75 mm	528 / 336
Castors	castors with brake at the front, fixed castors at the rear
Access ports	3 x Ø 28 mm
Type of lock / Door hinges	mechanical / right-hand hinged, not reversible
Gross / net weight	361 / 313 kg
Accessories	
Racks for cryoboxes	see page 38
Cryoboxes, set of 36	7790038
CO ₂ backup system	7790048
Stainless steel storage shelves	7790050
Foamed inner doors	7790127
Cover for mains switch incl. key lock	7790051
4 - 20mA analogue output	7790042
Data logger, ULT	6145367

SUFsg 7001 ver. H72

MediLine

Gross / net capacity	728 / 700 litre
Exterior dimensions in mm (w / d / h)	1204 / 1082 / 1966
Interior dimensions in mm (w / d / h)	890 / 605 / 1300
Energy consumption in 365 days ¹	2957 kWh
Ambient temperature range	+16 °C to +32 °C
Heat output	1224 kJ/h
Heat output system / Refrigeration system	water-cooled / 2-stage cascade system
Refrigerant	R 290 / R 170
Sound power level ²	47 dB(A)
Voltage / frequency / Connection rating	230V~/ 50 Hz / 7.0 A
Temperature range	-40 °C to -86 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	stainless steel
Type of control	LED 7-segment display with buttons
Volt-free alarm contact	yes
SmartMonitoring compatible / Connectivity type	yes / external data loggers
Connectivity solution	retrofittable
Interface	LAN (Ethernet)
Data logger	integrated, USB interface
Power failure alarm	immediately upon power failure for 72 hrs
Cooling system	static
Pull-down time +22 °C to -80 °C	450 min
Warm-up time -80 °C to -60 °C / to 0 °C	250 min / 2220 min
Number / maximum number of storage shelves	4 / 11
Adjustable shelves	3
Shelf material	stainless steel
Usable shelf area in mm (w / d)	860 / 590
Shelf loading / Maximum total load	50 kg / 200 kg
Number of racks per shelf	6
Max. number of cryoboxes, 50 mm / 75 mm	528 / 336
Castors	castors with brake at the front, fixed castors at the rear
Access ports	3 x Ø 28 mm
Type of lock / Door hinges	mechanical / right-hand hinged, not reversible
Gross / net weight	361 / 313 kg
Accessories	
Racks for cryoboxes	see page 38
Cryoboxes, set of 36	7790038
CO ₂ backup system	7790048
Stainless steel storage shelves	7790050
Foamed inner doors	7790127
Cover for mains switch incl. key lock	7790051
4 - 20mA analogue output	7790042
Data logger, ULT	6145367

SUFsg 5001

MediLine

Gross / net capacity	491 / 477 litre
Exterior dimensions in mm (w / d / h)	920 / 1082 / 1966
Interior dimensions in mm (w / d / h)	606 / 605 / 1300
Energy consumption in 365 days ¹	2884 kWh
Ambient temperature range	+16 °C to +32 °C
Heat output	1188 kJ/h
Heat output system / Refrigeration system	air cooling / 2-stage cascade system
Refrigerant	R 290 / R 170
Sound power level ²	47 dB(A)
Voltage / frequency / Connection rating	230V~/ 50 Hz / 7.0 A
Temperature range	-40 °C to -86 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	stainless steel
Type of control	LED 7-segment display with buttons
Volt-free alarm contact	yes
SmartMonitoring compatible / Connectivity type	yes / external data loggers
Connectivity solution	retrofittable
Interface	LAN (Ethernet)
Data logger	integrated, USB interface
Power failure alarm	immediately upon power failure for 72 hrs
Cooling system	static
Pull-down time +22 °C to -80 °C	360 min
Warm-up time -80 °C to -60 °C / to 0 °C	230 min / 2160 min
Number / maximum number of storage shelves	4 / 11
Adjustable shelves	3
Shelf material	stainless steel
Usable shelf area in mm (w / d)	580 / 590
Shelf loading / Maximum total load	50 kg / 200 kg
Number of racks per shelf	4
Max. number of cryoboxes, 50 mm / 75 mm	352 / 224
Castors	castors with brake at the front, fixed castors at the rear
Access ports	3 x Ø 28 mm
Type of lock / Door hinges	mechanical / right-hand hinged, not reversible
Gross / net weight	308 / 254 kg
Accessories	
Racks for cryoboxes	see page 38
Cryoboxes, set of 36	7790038
CO ₂ backup system	7790048
Stainless steel storage shelves	7790049
Foamed inner doors	7790070
Cover for mains switch incl. key lock	7790051
4 - 20mA analogue output	7790042
Data logger, ULT	6145367

SUFsg 5001 ver. H72

MediLine

Gross / net capacity	491 / 477 litre
Exterior dimensions in mm (w / d / h)	920 / 1082 / 1966
Interior dimensions in mm (w / d / h)	606 / 605 / 1300
Energy consumption in 365 days ¹	2884 kWh
Ambient temperature range	+16 °C to +32 °C
Heat output	1188 kJ/h
Heat output system / Refrigeration system	water-cooled / 2-stage cascade system
Refrigerant	R 290 / R 170
Sound power level ²	47 dB(A)
Voltage / frequency / Connection rating	230V~/ 50 Hz / 7.0 A
Temperature range	-40 °C to -86 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	stainless steel
Type of control	LED 7-segment display with buttons
Volt-free alarm contact	yes
SmartMonitoring compatible / Connectivity type	yes / external data loggers
Connectivity solution	retrofittable
Interface	LAN (Ethernet)
Data logger	integrated, USB interface
Power failure alarm	immediately upon power failure for 72 hrs
Cooling system	static
Pull-down time +22 °C to -80 °C	360 min
Warm-up time -80 °C to -60 °C / to 0 °C	230 min / 2160 min
Number / maximum number of storage shelves	4 / 11
Adjustable shelves	3
Shelf material	stainless steel
Usable shelf area in mm (w / d)	580 / 590
Shelf loading / Maximum total load	50 kg / 200 kg
Number of racks per shelf	4
Max. number of cryoboxes, 50 mm / 75 mm	352 / 224
Castors	castors with brake at the front, fixed castors at the rear
Access ports	3 x Ø 28 mm
Type of lock / Door hinges	mechanical / right-hand hinged, not reversible
Gross / net weight	308 / 254 kg
Accessories	
Racks for cryoboxes	see page 38
Cryoboxes, set of 36	7790038
CO ₂ backup system	7790048
Stainless steel storage shelves	7790049
Foamed inner doors	7790070
Cover for mains switch incl. key lock	7790051
4 - 20mA analogue output	7790042
Data logger, ULT	6145367

SUFsg 3501

MediLine

Gross / net capacity	402 / 382 litre
Exterior dimensions in mm (w / d / h)	797 / 1082 / 1966
Interior dimensions in mm (w / d / h)	466 / 605 / 1300
Energy consumption in 365 days ¹	2738 kWh
Ambient temperature range	+16 °C to +32 °C
Heat output	1116 kJ/h
Heat output system / Refrigeration system	air cooling / 2-stage cascade system
Refrigerant	R 290 / R 170
Sound power level ²	47 dB(A)
Voltage / frequency / Connection rating	230V~/ 50 Hz / 7.0 A
Temperature range	-40 °C to -86 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	stainless steel
Type of control	LED 7-segment display with buttons
Volt-free alarm contact	yes
SmartMonitoring compatible / Connectivity type	yes / external data loggers
Connectivity solution	retrofittable
Interface	LAN (Ethernet)
Data logger	integrated, USB interface
Power failure alarm	immediately upon power failure for 72 hrs
Cooling system	static
Pull-down time +22 °C to -80 °C	180 min
Warm-up time -80 °C to -60 °C / to 0 °C	170 min / 1300 min
Number / maximum number of storage shelves	4 / 11
Adjustable shelves	3
Shelf material	stainless steel
Usable shelf area in mm (w / d)	460 / 590
Shelf loading / Maximum total load	50 kg / 200 kg
Number of racks per shelf	3
Max. number of cryoboxes, 50 mm / 75 mm	264 / 168
Castors	castors with brake at the front, fixed castors at the rear
Access ports	3 x Ø 28 mm
Type of lock / Door hinges	mechanical / right-hand hinged, not reversible
Gross / net weight	260 / 226 kg
Accessories	
Racks for cryoboxes	see page 38
Cryoboxes, set of 36	7790038
CO ₂ backup system	7790048
Stainless steel storage shelves	7790049
Foamed inner doors	7790070
Cover for mains switch incl. key lock	7790051
4 - 2	

Ultra-low temperature freezers**Racks for cryoboxes**

Convenient and temperature-resistant storage systems for well-organised sample storage. Available as aluminium or stainless steel side-access racks for 5x4 or 6x4 50 mm boxes and as stainless steel front-access drawer racks for 5x4 or 6x4 50 mm boxes.

Maximum Loading SUFsg 5001: 8x Rack 5x4 + 8x Rack 6x4,
Maximum Loading SUFsg 7001: 12x Rack 5x4 + 12x Rack 6x4,
Maximum Loading SUFsg 3501: 6x Rack 5x4 + 6x Rack 6x4.



Aluminium side-access rack 5x4	7790003
Aluminium side-access rack 6x4	7790014
Aluminium side-access rack 5x4 + cryoboxes	7790015
Aluminium side-access rack 6x4 + cryoboxes	7790025
Stainless steel side-access rack 5x4 + cryoboxes	7790029
Stainless steel side-access rack 6x4 + cryoboxes	7790030

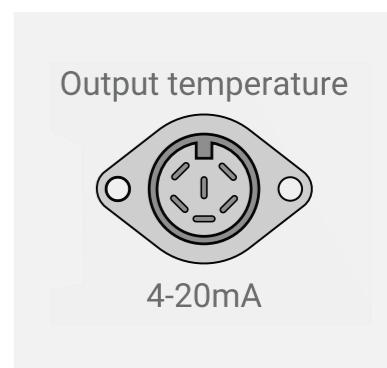
Stainless steel side-access rack 5x4	7790027
Stainless steel side-access rack 6x4	7790028
Stainless steel front-access rack 5x4 + drawers	7790031
Stainless steel front-access rack 6x4 + drawers	7790032
Stainless steel front-access rack 5x4 + cryoboxes + drawers	7790033
Stainless steel front-access rack 6x4 + cryoboxes + drawers	7790036

**Foamed inner doors**

The foamed inner doors provide the best possible insulation and temperature stability, ensuring efficient cooling and low power consumption.

**Cover for mains switch incl. key lock**

Protection against unintended disconnection or manipulation of the mains switch.

**4-20mA analogue output**

The 4-20mA interface displays the interior temperature as a current value, which for example can be imported into an independent system for recording or checking the internal temperature.

**Cryoboxes**

The set contains 36 durable and temperature-resistant cryoboxes made from water-repellent cardboard, with fixed 9x9 grid, for safe storage and transport of valuable samples.

**CO₂ backup system**

The CO₂ backup system ensures that the cooling of the stored samples continues at reduced temperatures for up to 72 hours in the event of a power failure. The CO₂ bottle is not part of the accessory.

**Stainless steel storage shelves**

Additional robust stainless steel shelves for flexible and individual partitioning of the interior at 24 mm increments.

**Data logger, ULT**

For reliable storage at low temperatures, the ULT data logger has a temperature sensor for temperatures as low as -200 °C. Temperature data is transmitted directly to the SmartMonitoring dashboard via a WiFi connection. A SmartMonitoring licence (available separately) is required to use an ULT data logger.



The generation of appliances for laboratories and research – safety redefined

Hardly any sector has more stringent requirements for refrigerators and freezers than laboratories and research. Liebherr meets these demands with a specifically developed range and a new generation of appliances.

Sensitive substances are reliably stored at precise temperatures and additionally protected by integrated alarm systems. Maximum efficiency ensures low consumption, while durable materials and maintenance-free components guarantee minimal operating costs. The comprehensive range is user-friendly and easy to connect in a network – such as Liebherr SmartMonitoring.

Discover typical Liebherr quality that will pay off for years and lighten your daily workload.

The advantages at a glance



Easily accessible refrigeration components

The refrigeration components are easily accessible, located in the upper part of the machinery compartment to significantly increase the capacity of the interior. The front can be easily lifted up to facilitate cleaning or servicing. When opened by more than 45° it can be completely detached.



SmartLock

To prevent products from accidentally entering circulation after an interruption in the cold chain, SmartLock automatically locks the door if there is an alarm. Only authorised persons can unlock it again.

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.

Power failure alarm

If a malfunction occurs, an integrated battery provides a visual and audible alarm and takes over the power supply. As soon as the power is restored, the time of failure and the maximum temperature reached are displayed.

LightAlarm

In the event of an uncontrolled temperature rise or other problems, the interior light of the appliance starts flashing. This visually shows when action is needed.

Grid shelf

Corrosion-free grid shelves made of coated steel guarantee a secure hold, constant air circulation and good temperature stability.

Easy-to-clean interior

The smooth interior made of high-quality chrome-nickel steel (1.4301 / AISI 304) is easy to clean and ensures optimal hygiene.



+2 °C SafetyDevice

If the temperature falls below +2 °C due to a malfunction while the temperature setting is at +5 °C or higher, the SafetyDevice takes control, stabilising the temperature, activating the alarm and protecting the contents from freezing.

Electronic lock with remote control system

Liebherr appliances can be electronically locked and unlocked using an individual PIN code and optional digital remote control by as many users as you like – without them having to share a key.

Integrated WiFi/LAN interface

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



Vertical LED lighting

Vertical LED lighting provides optimal illumination of the interior over the entire height of the appliance. This not only saves you time looking for things, but, above all, cuts energy costs.

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.

Self-closing door

The self-closing door with an easy-to-replace solenoid gasket closes particularly tightly, preventing unnecessary loss of cold. The ergonomic door handle, running all the way up the door, makes it easy to open.

Castors

Models in the Performance and Perfection series come with castors as standard, to allow versatile use according to the available space, as well as easy cleaning, even under appliances.



Enlarged glass door view

Overview of the food in stock – essential during a hectic working day. The all-glass door with enlarged field of view provides maximum visibility of the appliance interior. This makes it easier to organise goods and to quickly find the required product, saving valuable time.

Quality right down to the smallest detail



Integrated WiFi/LAN interface

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



SmartMonitoring: extra safety

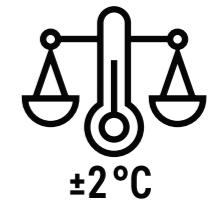
Liebherr's digital monitoring solution checks and documents the storage temperature and alerts you immediately in the event of deviations for maximum safety in refrigeration and freezing and optimal protection for your valuable contents.

Advantage of hot gas defrosting

Reduces the time when the temperature is increased

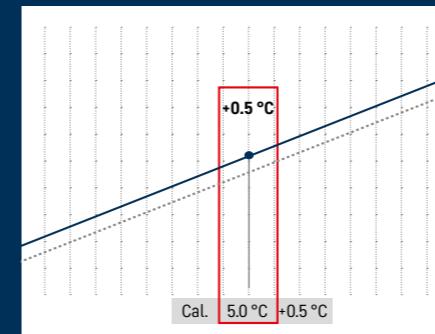
30 min
Electric defrosting

10 min
Hot gas defrosting



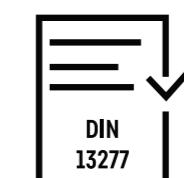
±2 °C temperature stability

Temperature fluctuations must be minimal to ensure that the quality of sensitive substances is preserved. Liebherr Pharmaceutical refrigerators have an impressive maximum deviation of just ±2 °C from the set temperature. This not only maintains the storage climate, but also the value of your stored goods.



Calibration function

Due to operational requirements and application-specific conditions, it is possible to set temperature deviation of the interior from the set temperature to a storage temperature determined with calibrated thermometers. These deviations can be adjusted by the calibration function. For the secure knowledge of cooling at precise temperatures.



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.



SRPvh 1412	SRPvh 1402
Perfection	Perfection
1447/1091 litre	1391/1091 litre
1427/867/2135	1427/867/2135
1210/638/1493	1210/638/1493
705 kWh	464 kWh
+10°C to +35°C	+10°C to +35°C
695 kJ/h	565 kJ/h
R 600a	R 600a
60 dB(A)	60 dB(A)
220-240V~/50/60 Hz	220-240V~/50/60 Hz
4.0 A/130 W	4.0 A/130 W
forced-air/automatic	forced-air/automatic
0°C to +16°C	-2°C to +16°C
2.6°C/1.9°C	2.3°C/2.1°C
steel/white	steel/white
Insulating glass door with steel frame/white	Insulating glass door with steel frame/white
Chrome-nickel steel (1.4301 / AISI 304)	Chrome-nickel steel (1.4301 / AISI 304)
2.4" touch & swipe colour display	2.4" touch & swipe colour display
immediately upon power failure for at least 12 hrs	immediately upon power failure for at least 12 hrs
visual and audible/yes	visual and audible/yes
yes/SmartModule	yes/SmartModule
integrated, removable/WiFi/LAN	integrated, removable/WiFi/LAN
integrated, USB interface	integrated, USB interface
LED light column both sides, separate connection	LED light column both sides
8/wire shelves plastic-coated	8/wire shelves plastic-coated
480/638	480/638
60 kg/520 kg	60 kg/520 kg
5 swivel castors, 2 with parking brake	5 swivel castors, 2 with parking brake
vertical recessed handle	vertical recessed handle
1 x Ø 12 mm	1 x Ø 12 mm
electronic, with remote control	electronic, with remote control
left-hand/right-hand	left-hand/right-hand
293/270.9 kg	225/206.1 kg
Accessories	
U-shaped trayslide, left/U-shaped trayslide, right	7745088/7745090
Grey grid shelf/Perforated metal shelf in grey	7112608/7746614
Castors Ø 100 mm	9597965
Adjustable feet, 115-175 mm	9080132
Foot pedal opener	9597649
Side-by-Side set in white	9597677
Additional remote controls/Digital input for electronic lock	6123395/9086958



SRPvh 8411	SRPvh 8401	SRPvh 6511	SRPvh 6501
Perfection	Perfection	Perfection	Perfection
903/702 litre	871/702 litre	642/480 litre	614/480 litre
787/1017/2135	787/1017/2135	697/867/2135	697/867/2135
579/788/1493	579/788/1493	489/638/1493	489/638/1493
374 kWh	220 kWh	317 kWh	172 kWh
+10°C to +35°C	+10°C to +35°C	+10°C to +35°C	+10°C to +35°C
425 kJ/h	360 kJ/h	365 kJ/h	305 kJ/h
R 600a	R 600a	R 600a	R 600a
60 dB(A)	60 dB(A)	60 dB(A)	60 dB(A)
220-240V~/50/60 Hz	220-240V~/50/60 Hz	220-240V~/50/60 Hz	220-240V~/50/60 Hz
4.0 A/130 W	4.0 A/130 W	4.0 A/130 W	4.0 A/130 W
forced-air/automatic	forced-air/automatic	forced-air/automatic	forced-air/automatic
0°C to +16°C	-2°C to +16°C	0°C to +16°C	-2°C to +16°C
3.9°C/2.9°C	3.1°C/2.3°C	2.5°C/3.4°C	2.3°C/2.5°C
steel/white	steel/white	steel/white	steel/white
Insulating glass door with steel frame/white	Insulating glass door with steel frame/white	Insulating glass door with steel frame/white	Insulating glass door with steel frame/white
Chrome-nickel steel (1.4301 / AISI 304)	Chrome-nickel steel (1.4301 / AISI 304)	Chrome-nickel steel (1.4301 / AISI 304)	Chrome-nickel steel (1.4301 / AISI 304)
2.4" touch & swipe colour display	2.4" touch & swipe colour display	2.4" touch & swipe colour display	2.4" touch & swipe colour display
immediately upon power failure for at least 12 hrs	immediately upon power failure for at least 12 hrs	immediately upon power failure for at least 12 hrs	immediately upon power failure for at least 12 hrs
visual and audible/yes	visual and audible/yes	visual and audible/yes	visual and audible/yes
yes/SmartModule	yes/SmartModule	yes/SmartModule	yes/SmartModule
integrated, removable/WiFi/LAN	integrated, removable/WiFi/LAN	integrated, removable/WiFi/LAN	integrated, removable/WiFi/LAN
integrated, USB interface	integrated, USB interface	integrated, USB interface	integrated, USB interface
LED lighting column, left	vertical LED light strip recessed in left wall with separate switch	vertical LED light strip recessed in left wall with separate switch	vertical LED light strip recessed in left wall with separate switch
4/wire shelves plastic-coated	4/wire shelves plastic-coated	4/wire shelves plastic-coated	4/wire shelves plastic-coated
570/788	570/788	570/788	480/638
60 kg/240 kg	60 kg/240 kg	60 kg/240 kg	60 kg/240 kg
castors with brake at the front, fixed castors at the rear	castors with brake at the front, fixed castors at the rear	castors with brake at the front, fixed castors at the rear	castors with brake at the front, fixed castors at the rear
vertical recessed handle	vertical recessed handle	vertical recessed handle	vertical recessed handle
1 x Ø 12 mm	1 x Ø 12 mm	1 x Ø 12 mm	1 x Ø 12 mm
electronic, with remote control	electronic, with remote control	electronic, with remote control	electronic, with remote control
right, reversible on site	right, reversible on site	right, reversible on site	right, reversible on site
186/174.4 kg	165/142.8 kg	169/158.3 kg	148/125.6 kg
Accessories			
U-shaped trayslide, left/U-shaped trayslide, right	7745092/7745094	7745092/7745094	7745088/7745090
Grey grid shelf/Perforated metal shelf in grey	7112614/7746616	7112614/7746616	7112608/7746614
Castors Ø 100 mm	9597828	9597828	9597828
Adjustable feet, 115-175 mm	9080131	9080131	9080131
Foot pedal opener	9597617	9597617	9597617
Side-by-Side set in white	9597677	9597677	9597677
Additional remote controls/Digital input for electronic lock	6123395/9086958	6123395/9086958	6123395/9086958

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.



SRPvg 1412 Performance	
Gross / net capacity	1447 / 1091 litre
Exterior dimensions in mm (w / d / h)	1427 / 867 / 2135
Interior dimensions in mm (w / d / h)	1210 / 638 / 1493
Energy consumption in 365 days ¹	724 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	650 kJ/h
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / frequency	220 - 240V~ / 50 Hz
Connection rating / Rated consumption watts	4.0 A / 320 W
Cooling system / Defrost	forced-air / automatic
Temperature range	0 °C to +16 °C
Gradient ² / max. fluctuation ³	3.1 °C / 2.9 °C
External cabinet finish	steel / white
Door material / colour	Insulating glass door with steel frame / white
Internal liner material	Chrome-nickel steel (1.4301 / AISI 304)
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 / Connectivity type	yes / SmartModule
Connectivity solution	retrofittable
Interface	WiFi/LAN (optional)
Interior light	LED ceiling light strip with separate switch
Adjustable shelves / Shelf material	8 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	480 / 638
Shelf loading / Maximum total load	60 kg / 480 kg
Castors	5 swivel castors, 2 with parking brake
Handle	vertical recessed handle
Access ports	1 x Ø 12 mm
Type of lock	mechanical
Door hinges	left-hand / right-hand
Gross / net weight	292 / 271.4 kg
Accessories	
U-shaped trayslide, left / U-shaped trayslide, right	7745088 / 7745090
Grey grid shelf	7112608
Perforated metal shelf in grey	7746614
Castors Ø 100 mm	9597965
Adjustable feet, 115 - 175 mm	9080132
Foot pedal opener	9597649
Side-by-Side set in white	9597677
SmartModule	6145269

SRPvg 1402

Performance

SRPvg 1402 Performance	
Gross / net capacity	1391 / 1091 litre
Exterior dimensions in mm (w / d / h)	1427 / 867 / 2135
Interior dimensions in mm (w / d / h)	1210 / 638 / 1493
Energy consumption in 365 days ¹	464 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	520 kJ/h
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / frequency	220 - 240V~ / 50 Hz
Connection rating / Rated consumption watts	4.0 A / 320 W
Cooling system / Defrost	forced-air / automatic
Temperature range	-2 °C to +16 °C
Gradient ² / max. fluctuation ³	3.1 °C / 2.6 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	Insulating glass door with steel frame / white
Type of control	Chrome-nickel steel (1.4301 / AISI 304)
Power failure alarm	monochrome display, touch buttons
Fault: warning signal	upon mains power return
Volt-free alarm contact	visual and audible
SmartMonitoring compatible / Connectivity type	yes
Connectivity solution	yes / SmartModule
Interface	retrofittable
Interior light	WiFi/LAN (optional)
Adjustable shelves / Shelf material	LED ceiling lighting
Usable shelf area in mm (w / d)	8 / wire shelves plastic-coated
Shelf loading / Maximum total load	480 / 638
Castors	60 kg / 480 kg
Handle	5 swivel castors, 2 with parking brake
Access ports	vertical recessed handle
Type of lock	vertical recessed handle
Door hinges	1 x Ø 12 mm
Gross / net weight	225 / 205.3 kg
Accessories	
U-shaped trayslide, left / U-shaped trayslide, right	7745088 / 7745090
Grey grid shelf	7112608
Perforated metal shelf in grey	7746614
Castors Ø 100 mm	9597965
Adjustable feet, 115 - 175 mm	9080132
Foot pedal opener	9597649
Side-by-Side set in white	9597677
SmartModule	6145269

SRPvg 8411

Performance



SRPvg 8411 Performance	
Gross / net capacity	903 / 702 litre
Exterior dimensions in mm (w / d / h)	787 / 1017 / 2135
Interior dimensions in mm (w / d / h)	579 / 788 / 1493
Energy consumption in 365 days ¹	299 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	400 kJ/h
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / frequency	220 - 240V~ / 50 Hz
Connection rating / Rated consumption watts	4.0 A / 220 W
Cooling system / Defrost	forced-air / automatic
Temperature range	0 °C to +16 °C
Gradient ² / max. fluctuation ³	4.6 °C / 3.5 °C
External cabinet finish	steel / white
Door material / colour	Insulating glass door with steel frame / white
Internal liner material	Chrome-nickel steel (1.4301 / AISI 304)
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 / Connectivity type	yes / SmartModule
Connectivity solution	retrofittable
Interface	WiFi/LAN (optional)
Interior light	LED ceiling light strip with separate switch
Adjustable shelves / Shelf material	4 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	570 / 788
Shelf loading / Maximum total load	60 kg / 240 kg
Castors	castors with brake at the front, fixed castors at the rear
Handle	vertical recessed handle
Access ports	1 x Ø 12 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	186 / 169.2 kg
Accessories	
U-shaped trayslide, left / U-shaped trayslide, right	7745092 / 7745094
Grey grid shelf	7112614
Perforated metal shelf in grey	7746616
Castors Ø 100 mm	9597828
Adjustable feet, 115 - 175 mm	9080131
Foot pedal opener	9597617
Side-by-Side set in white	9597677
SmartModule	6145269

SRPvg 8401

Performance



SRPvg 8401 Performance	
Gross / net capacity	871 / 702 litre
Exterior dimensions in mm (w / d / h)	787 / 1017 / 2135
Interior dimensions in mm (w / d / h)	579 / 788 / 1493
Energy consumption in 365 days ¹	195 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	350 kJ/h
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / frequency	220 - 240V~ / 50 Hz
Connection rating / Rated consumption watts	4.0 A / 220 W
Cooling system / Defrost	forced-air / automatic
Temperature range	-2 °C to +16 °C
Gradient ² / max. fluctuation ³	4.5 °C / 5.0 °C
External cabinet finish	steel / white
Door material / colour	Insulating glass door with steel frame / white
Internal liner material	Chrome-nickel steel (1.4301 / AISI 304)
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 / Connectivity type	yes / SmartModule
Connectivity solution	retrofittable
Interface	WiFi/LAN (optional)
Interior light	LED ceiling lighting
Adjustable shelves / Shelf material	4 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	570 / 788
Shelf loading / Maximum total load	60 kg / 240 kg
Castors	castors with brake at the front, fixed castors at the rear
Handle	vertical recessed handle
Access ports	1 x Ø 12 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	165 / 143.9 kg
Accessories	
U-shaped trayslide, left / U-shaped trayslide, right	7745092 / 7745094
Grey grid shelf	7112614
Perforated metal shelf in grey	7746616
Castors Ø 100 mm	9597828
Adjustable feet, 115 - 175 mm	9080131
Foot pedal opener	9597617
Side-by-Side set in white	9597677
SmartModule	6145269

**SRPvg 6511**

Performance

**SRPvg 6501**

Performance

**SRPvg 6501**

Performance

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.

**SFPvh 1402**

Perfection

Gross / net capacity	1391/1091 litre
Exterior dimensions in mm (w / d / h)	1427/867/2135
Interior dimensions in mm (w / d / h)	1210/638/1493
Energy consumption in 365 days ¹	1162 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	1485 kJ/h
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / frequency	220 - 240V~/50/60 Hz
Connection rating / Rated consumption watts	4.0 A / 420 W
Cooling system / Defrost	forced-air / automatic
Temperature range	-9 °C to -35 °C ²
Gradient ³ / max. fluctuation ⁴	2.9 °C / 4.9 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	Chrome-nickel steel (1.4301 / AISI 304)
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution / Interface	integrated, removable / WiFi/LAN
Data logger	integrated, USB interface
Interior light	LED light column both sides
Adjustable shelves / Shelf material	8 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	480 / 638
Shelf loading / Maximum total load	60 kg / 520 kg
Castors	5 swivel castors, 2 with parking brake
Handle	vertical recessed handle
Access ports	1 x Ø 12 mm
Type of lock	electronic, with remote control
Door hinges	left-hand / right-hand
Gross / net weight	235 / 214.1 kg
Accessories	
U-shaped trayslide, left / U-shaped trayslide, right	7745088 / 7745090
Grey grid shelf / Perforated metal shelf in grey	7112608 / 7746614
Castors Ø 100 mm / Adjustable feet, 115 - 175 mm	9597965 / 9080132
Foot pedal opener	9597649
Side-by-Side set in white	9597677
SmartModule	
Additional remote controls	6123395
Digital input for electronic lock	9086958

SFPvh 8401

Perfection

Gross / net capacity	871 / 702 litre
Exterior dimensions in mm (w / d / h)	787 / 1017 / 2135
Interior dimensions in mm (w / d / h)	579 / 788 / 1493
Energy consumption in 365 days ¹	748 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	935 kJ/h
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / frequency	220 - 240V~/50/60 Hz
Connection rating / Rated consumption watts	4.0 A / 420 W
Cooling system / Defrost	forced-air / automatic
Temperature range	-9 °C to -35 °C ²
Gradient ³ / max. fluctuation ⁴	3.6 °C / 4.9 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	Chrome-nickel steel (1.4301 / AISI 304)
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution / Interface	integrated, removable / WiFi/LAN
Data logger	integrated, USB interface
Interior light	LED lighting column, left
Adjustable shelves / Shelf material	4 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	570 / 788
Shelf loading / Maximum total load	60 kg / 240 kg
Castors	castors with brake at the front, fixed castors at the rear
Handle	vertical recessed handle
Access ports	1 x Ø 12 mm
Type of lock	electronic, with remote control
Door hinges	right, reversible on site
Gross / net weight	167 / 154.2 kg
Accessories	

SFPvh 6501

Perfection

Gross / net capacity	614 / 480 litre
Exterior dimensions in mm (w / d / h)	697 / 867 / 2135
Interior dimensions in mm (w / d / h)	489 / 638 / 1493
Energy consumption in 365 days ¹	702 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	875 kJ/h
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / frequency	220 - 240V~/50/60 Hz
Connection rating / Rated consumption watts	4.0 A / 420 W
Cooling system / Defrost	forced-air / automatic
Temperature range	-9 °C to -35 °C ²
Gradient ³ / max. fluctuation ⁴	3.6 °C / 5.0 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	Chrome-nickel steel (1.4301 / AISI 304)
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution / Interface	integrated, removable / WiFi/LAN
Data logger	integrated, USB interface
Interior light	LED lighting column, left
Adjustable shelves / Shelf material	4 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	480 / 638
Shelf loading / Maximum total load	60 kg / 240 kg
Castors	castors with brake at the front, fixed castors at the rear
Handle	vertical recessed handle
Access ports	1 x Ø 12 mm
Type of lock	electronic, with remote control
Door hinges	right, reversible on site
Gross / net weight	150 / 136.2 kg
Accessories	

SFPvg 1402

Performance

Gross / net capacity	1391 / 1091 litre
Exterior dimensions in mm (w / d / h)	1427 / 867 / 2135
Interior dimensions in mm (w / d / h)	1210 / 638 / 1493
Energy consumption in 365 days ¹	1162 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	1420 kJ/h
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / frequency	220 - 240V~/50/60 Hz
Connection rating / Rated consumption watts	4.0 A / 580 W
Cooling system / Defrost	forced-air / automatic
Temperature range	-9 °C to -30 °C
Gradient ³ / max. fluctuation ⁴	2.9 °C / 4.9 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	Chrome-nickel steel (1.4301 / AISI 304)
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution / Interface	retrofittable / WiFi/LAN (optional)
Data logger	integrated, USB interface
Interior light	LED ceiling lighting
Adjustable shelves / Shelf material	8 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	570 / 788
Shelf loading / Maximum total load	60 kg / 480 kg
Castors	5 swivel castors, 2 with parking brake
Handle	vertical recessed handle
Access ports	1 x Ø 12 mm
Type of lock	mechanical
Door hinges	left-hand / right-hand
Gross / net weight	225 / 212.9 kg
Accessories	

SFPvg 8401

Performance

Gross / net capacity	871 / 702 litre
Exterior dimensions in mm (w / d / h)	787 / 1017 / 2135
Interior dimensions in mm (w / d / h)	579 / 788 / 1493
Energy consumption in 365 days ¹	870 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	1110 kJ/h
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / frequency	220 - 240V~/50/60 Hz
Connection rating / Rated consumption watts	4.0 A / 610 W
Cooling system / Defrost	forced-air / automatic
Temperature range	-9 °C to -30 °C
Gradient ³ / max. fluctuation ⁴	5.2 °C / 4.5 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	Chrome-nickel steel (1.4301 / AISI 304)
Type of control	monochrome display, touch buttons
Power failure alarm	upon mains power return
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution / Interface	retrofittable / WiFi/LAN (optional)
Data logger	LED ceiling lighting
Interior light	8 / wire shelves plastic-coated
Adjustable shelves / Shelf material	480 / 638
Usable shelf area in mm (w / d)	570 / 788
Shelf loading / Maximum total load	60 kg / 240 kg
Castors	5 swivel castors, 2 with parking brake
Handle	vertical recessed handle
Access ports	1 x Ø 12 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	166 / 152.7 kg
Accessories	

SFPvg 6501

Performance

Gross / net capacity	614 / 480 litre
Exterior dimensions in mm (w / d / h)	697 / 867 / 2135
Interior dimensions in mm (w / d / h)	489 / 638 / 1493
Energy consumption in 365 days ¹	774 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	975 kJ/h
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / frequency	220 - 240V~/50/60 Hz
Connection rating / Rated consumption watts	4.0 A / 610 W
Cooling system / Defrost	forced-air / automatic
Temperature range	-9 °C to -30 °C
Gradient ³ / max. fluctuation ⁴	5.2 °C / 4.8 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	Chrome-nickel steel (1.4301 / AISI 304)
Type of control	monochrome display, touch buttons
Power failure alarm	upon mains power return
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution / Interface	retrofittable / WiFi/LAN (optional)
Data logger	LED ceiling lighting
Interior light	4 / wire shelves plastic-coated
Adjustable shelves / Shelf material	480 / 638
Usable shelf area in mm (w / d)	570 / 788
Shelf loading / Maximum total load	60 kg / 240 kg
Castors	5 swivel castors, 2 with parking brake
Handle	vertical recessed handle
Access ports	



Research and laboratory appliances – for maximum precision and safety

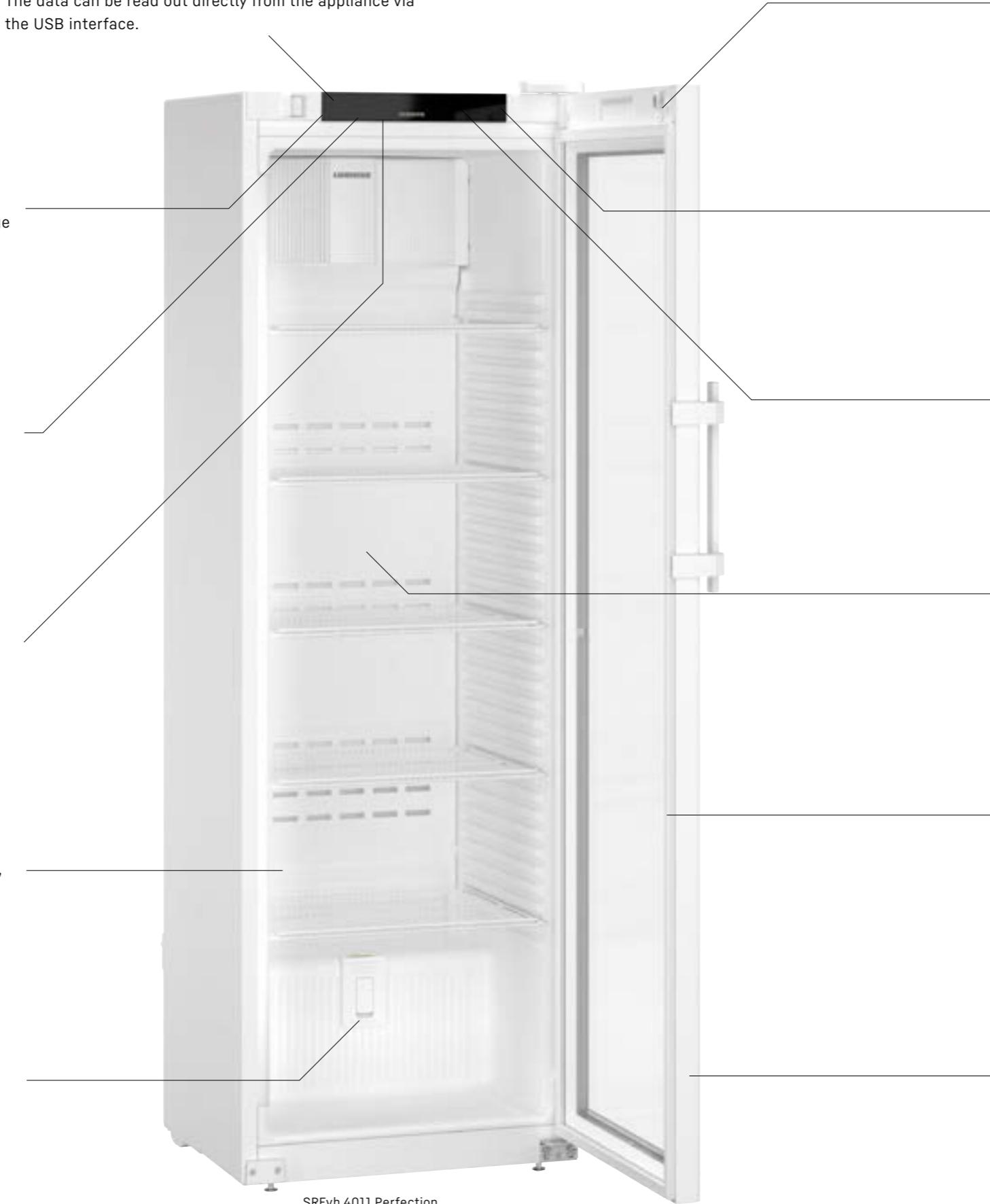
Constant temperatures are essential when storing sensitive substances. This is especially true for work in laboratories, where even the slightest deviations can jeopardise the quality of research results. This is why Liebherr has developed new refrigerators and freezers specifically for this sector, combining maximum refrigeration performance with optimum temperature stability. Innovative safety features with monitoring and alarm functions offer all-round protection from all kinds of incident and malfunction.

The next generation of appliances sets standards in terms of energy efficiency and total cost of ownership. On the following pages we present the latest results of research and development by the refrigeration specialists at Liebherr and show how they can benefit safety in your laboratory.

The advantages at a glance

Integrated data logger

The integrated logger records the temperature profile, alarm history and service information for up to five years. The data can be read out directly from the appliance via the USB interface.



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



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 documents temperatures with the help of external data loggers and alerts you immediately via email, text message or phone if any deviations occur.

Integrated WiFi/LAN interface

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

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.



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.

Quality right down to the smallest detail



Vertical LED lighting

Vertical LED lighting provides optimal illumination of the interior over the entire height of the appliance. Thanks to the perfect overview on all levels, the required substance is immediately at hand, the door can be quickly closed again, and the interior temperature remains stable. This saves you time looking for things – and above all energy costs.



Antimicrobial handle with opening mechanism

A benefit for users but a bane for germs: The easy-turn handle mechanism makes opening the door effortless. It contains special antimicrobial substances that reduce bacteria by up to 99.99%*. Regular and time-consuming disinfection is not necessary. This means the appliance is extremely safe even if many people have access to it. *According to ISO 22196:2011



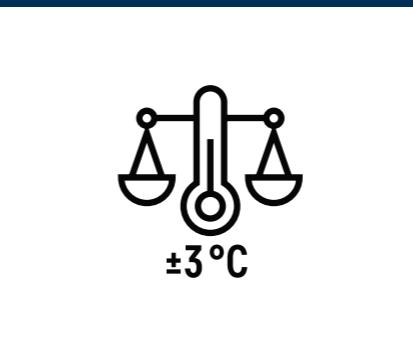
Grid shelf with pull-out stop

Corrosion-free grid shelves made of coated steel guarantee a secure hold, constant air circulation and good temperature stability. A pull-out stop prevents them from accidentally sliding out.



Ultra-efficient

Energy-efficient refrigerators and freezers help with ever increasing electricity prices. Liebherr fully utilises the savings potential of every component – from the compressor to the seal, to the lighting and electronics. The ultra-efficient appliances in the Perfection series for example demonstrates how this has a positive effect on your overall 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.



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

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.

**SRFvh 5511**

Perfection

Gross / net capacity	588 / 440 litre
Exterior dimensions in mm (w / d / h)	747 / 769 / 1793
Interior dimensions in mm (w / d / h)	606 / 536 / 1460
Energy consumption in 365 days ¹	360 kWh
Ambient temperature range	+10°C to +35°C
Heat output	475 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~/ 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 190 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3°C to +16°C
Gradient ² / max. fluctuation ³	3.3°C / 2.0°C
External cabinet finish	steel / white
Door material / colour	Insulated glass door with plastic frame / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution	integrated, removable
Interface	WiFi/LAN
Data logger	integrated, USB interface
Interior light	vertical LED light strip recessed in left wall with separate switch
Adjustable shelves / Shelf material	5 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	600 / 536
Shelf loading / Maximum total load	60 kg / 300 kg
Castors	castors with brake at the front, fixed castors at the rear
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
DIN 13277	yes
Type of lock / Door hinges	mechanical / right, reversible on site
Gross / net weight	109.3 / 102.9 kg
Accessories	
Pharmacy drawer	9032868
White grid shelf	7113310
White base grid / Glass shelf	7113314 / 9291929
Scanner rail	7435210
Castors Ø 80 mm	9086926
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

SRFvh 5501

Perfection

Gross / net capacity	558 / 441 litre
Exterior dimensions in mm (w / d / h)	747 / 769 / 1793
Interior dimensions in mm (w / d / h)	606 / 536 / 1460
Energy consumption in 365 days ¹	171 kWh
Ambient temperature range	+10°C to +35°C
Heat output	246 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~/ 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 190 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3°C to +16°C
Gradient ² / max. fluctuation ³	2.2°C / 1.7°C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution	integrated, removable
Interface	WiFi/LAN
Data logger	integrated, USB interface
Interior light	LED lighting column, left
Adjustable shelves / Shelf material	5 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	600 / 536
Shelf loading / Maximum total load	60 kg / 300 kg
Castors	castors with brake at the front, fixed castors at the rear
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
DIN 13277	yes
Type of lock / Door hinges	mechanical / right, reversible on site
Gross / net weight	91.3 / 87.2 kg
Accessories	
Pharmacy drawer	9032868
White grid shelf	7113310
White base grid / Glass shelf	7113314 / 9291929
Scanner rail	7435210
Castors Ø 80 mm	9086926
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

**SRFvh 4011**

Perfection

Gross / net capacity	420 / 297 litre
Exterior dimensions in mm (w / d / h)	597 / 654 / 1884
Interior dimensions in mm (w / d / h)	460 / 423 / 1660
Energy consumption in 365 days ¹	389 kWh
Ambient temperature range	+10°C to +35°C
Heat output	463 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~/ 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 180 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3°C to +16°C
Gradient ² / max. fluctuation ³	3.0°C / 2.4°C
External cabinet finish	steel / white
Door material / colour	Insulated glass door with plastic frame / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution	integrated, removable
Interface	WiFi/LAN
Data logger	integrated, USB interface
Interior light	vertical LED light strip recessed in left wall with separate switch
Adjustable shelves / Shelf material	5 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	460 / 423
Shelf loading / Maximum total load	45 kg / 225 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
DIN 13277	yes
Type of lock / Door hinges	mechanical / right, reversible on site
Gross / net weight	87.1 / 81.8 kg
Accessories	
Pharmacy drawer	9032867
White grid shelf	7113308
White base grid / Glass shelf	7113312 / 9293493
Scanner rail	9029022
Castors Ø 80 mm / Ø 100 mm	7435208
Adjustable feet, 90 - 120 mm / 150 - 180 mm	9080022 / 9086924
Additional lock barrels (up to 5)	on request
Side-by-Side set in white	9006786

**SRFvh 4001**

Perfection

Gross / net capacity	394 / 298 litre
Exterior dimensions in mm (w / d / h)	597 / 654 / 1884
Interior dimensions in mm (w / d / h)	460 / 423 / 1660
Energy consumption in 365 days ¹	172 kWh
Ambient temperature range	+10°C to +35°C
Heat output	250 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~/ 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 180 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3°C to +16°C
Gradient ² / max. fluctuation ³	2.4°C / 2.2°C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution	integrated, removable
Interface	WiFi/LAN
Data logger	integrated, USB interface
Interior light	LED lighting column, left
Adjustable shelves / Shelf material	5 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	460 / 423
Shelf loading / Maximum total load	45 kg / 225 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
DIN 13277	yes
Type of lock / Door hinges	mechanical / right, reversible on site
Gross / net weight	71.9 / 67.1 kg
Accessories	
Pharmacy drawer	9032867
White grid shelf	7113308
White base grid / Glass shelf	7113312 / 9293493
Scanner rail	9029022
Castors Ø 80 mm / Ø 100 mm	7435208
Adjustable feet, 90 - 120 mm / 150 - 180 mm	9080022 / 9086924
Additional lock barrels (up to 5)	on request
Side-by-Side set in white	9006786

**SRFvg 5511**

Performance

Gross / net capacity	588 / 440 litre
Exterior dimensions in mm (w / d / h)	747 / 769 / 1684
Interior dimensions in mm (w / d / h)	606 / 536 / 1442
Energy consumption in 365 days ¹	433 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	542 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~ / 50 Hz
Connection rating / Rated consumption watts	2.0 A / 135 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3 °C to +16 °C
Gradient ² / max. fluctuation ³	3.8 °C / 3.2 °C
External cabinet finish	steel / white
Door material / colour	Insulated glass door with plastic frame / 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 / Connectivity type	yes / SmartModule
Connectivity solution	retrofittable
Interface	WiFi/LAN (optional)
Interior light	LED ceiling light strip with separate switch
Adjustable shelves / Shelf material	5 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	600 / 536
Shelf loading / Maximum total load	60 kg / 300 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	103.9 / 100.1 kg
Accessories	
White grid shelf	7113310
White base grid / Glass shelf	7113314 / 9291929
Perforated metal shelf, white	
Scanner rail	7435210
Castors Ø 80 mm / Ø 100 mm	9086926 / 9080023
Adjustable feet, 90 - 120 mm / 150 - 180 mm	9080022 / 9086924
Evaporator cover	
Additional lock barrels (up to 5)	on request
Side-by-Side set in white	9017739
SmartModule	6145269

SRFvg 5501

Performance

Gross / net capacity	558 / 441 litre
Exterior dimensions in mm (w / d / h)	747 / 769 / 1684
Interior dimensions in mm (w / d / h)	606 / 536 / 1460
Energy consumption in 365 days ¹	250 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	317 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~ / 50 Hz
Connection rating / Rated consumption watts	2.0 A / 140 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3 °C to +16 °C
Gradient ² / max. fluctuation ³	3.9 °C / 3.0 °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 / Connectivity type	yes / SmartModule
Connectivity solution	retrofittable
Interface	WiFi/LAN (optional)
Interior light	LED ceiling light strip with separate switch
Adjustable shelves / Shelf material	5 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	600 / 536
Shelf loading / Maximum total load	60 kg / 300 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	84.8 / 79.7 kg
Accessories	
White grid shelf	7113310
White base grid / Glass shelf	7113314 / 9291929
Perforated metal shelf, white	
Scanner rail	7435210
Castors Ø 80 mm / Ø 100 mm	9086926 / 9080023
Adjustable feet, 90 - 120 mm / 150 - 180 mm	9080022 / 9086924
Evaporator cover	
Additional lock barrels (up to 5)	on request
Side-by-Side set in white	9017739
SmartModule	6145269

SRFvg 4011

Performance

Gross / net capacity	420 / 297 litre
Exterior dimensions in mm (w / d / h)	597 / 654 / 1884
Interior dimensions in mm (w / d / h)	460 / 423 / 1642
Energy consumption in 365 days ¹	431 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	542 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~ / 50 Hz
Connection rating / Rated consumption watts	2.0 A / 135 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3 °C to +16 °C
Gradient ² / max. fluctuation ³	5.4 °C / 3.4 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	insulated glass door with plastic frame / white
Type of control	commercial grade moulded polystyrene
Power failure alarm	monochrome display, touch buttons
Fault: warning signal	upon mains power return
Volt-free alarm contact	visual and audible
SmartMonitoring compatible / Connectivity type	yes
Connectivity solution	yes / SmartModule
Interface	retrofittable
Interior light	WiFi/LAN (optional)
Adjustable shelves / Shelf material	LED ceiling light strip with separate switch
Usable shelf area in mm (w / d)	5 / wire shelves plastic-coated
Shelf loading / Maximum total load	460 / 423
Handle	45 kg / 225 kg
Access ports	antimicrobial handle with opening mechanism
Type of lock	1 x Ø 10 mm
Door hinges	mechanical
Gross / net weight	87.8 / 83.1 kg
Accessories	
White grid shelf	7113308
White base grid / Glass shelf	7113312 / 9293493
Perforated metal shelf, white	
Scanner rail	9029022
Castors Ø 80 mm / Ø 100 mm	7435208
Adjustable feet, 90 - 120 mm / 150 - 180 mm	9080022 / 9086924
Evaporator cover	
Additional lock barrels (up to 5)	on request
Side-by-Side set in white	9006786
SmartModule	6145269

SRFvg 4001

Performance

Gross / net capacity	394 / 298 litre
Exterior dimensions in mm (w / d / h)	597 / 654 / 1884
Interior dimensions in mm (w / d / h)	460 / 423 / 1660
Energy consumption in 365 days ¹	245 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	321 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~ / 50 Hz
Connection rating / Rated consumption watts	2.0 A / 140 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3 °C to +16 °C
Gradient ² / max. fluctuation ³	4.6 °C / 2.2 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	insulated glass door with plastic frame / white
Type of control	commercial grade moulded polystyrene
Power failure alarm	monochrome display, touch buttons
Fault: warning signal	upon mains power return
Volt-free alarm contact	visual and audible
SmartMonitoring compatible / Connectivity type	yes
Connectivity solution	yes / SmartModule
Interface	retrofittable
Interior light	WiFi/LAN (optional)
Adjustable shelves / Shelf material	LED ceiling light strip with separate switch
Usable shelf area in mm (w / d)	5 / wire shelves plastic-coated
Shelf loading / Maximum total load	460 / 423
Handle	45 kg / 225 kg
Access ports	antimicrobial handle with opening mechanism
Type of lock	1 x Ø 10 mm
Door hinges	mechanical
Gross / net weight	69.8 / 65.1 kg
Accessories	
White grid shelf	7113308
White base grid / Glass shelf	7113312 / 9293493
Perforated metal shelf, white	
Scanner rail	9029022
Castors Ø 80 mm / Ø 100 mm	7435208
Adjustable feet, 90 - 120 mm / 150 - 180 mm	9080022 / 9086924
Evaporator cover	
Additional lock barrels (up to 5)	on request
Side-by-Side set in white	9006786
SmartModule	6145269

SRFvg 3511

Performance

Gross / net capacity	367 / 260 litre
Exterior dimensions in mm (w / d / h)	597 / 654 / 1884
Interior dimensions in mm (w / d / h)	460 / 423 / 1460
Energy consumption in 365 days ¹	393 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	471 kJ/h
Refrigerant	R 600a
Sound power level	48 dB(A)
Voltage / frequency	220 - 240V~ / 50 Hz
Connection rating / Rated consumption watts	2.0 A / 135 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3 °C to +16 °C
Gradient ² / max. fluctuation ³	3.6 °C / 3.2 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	insulated glass door with plastic frame / white
Type of control	commercial grade moulded polystyrene
Power failure alarm	monochrome display, touch buttons
Fault: warning signal	upon mains power return
Volt-free alarm contact	visual and audible
SmartMonitoring compatible / Connectivity type	yes
Connectivity solution	yes / SmartModule
Interface	retrofittable
Interior light	WiFi/LAN (optional)
Adjustable shelves / Shelf material	LED ceiling light strip with separate switch
Usable shelf area in mm (w / d)	4 / wire shelves plastic-coated
Shelf loading / Maximum total load	460 / 423
Handle	45 kg / 180 kg
Access ports	antimicrobial handle with opening mechanism
Type of lock	1 x Ø 10 mm
Door hinges	mechanical
Gross / net weight	80.8 / 76.4 kg
Accessories	
White grid shelf	7113308
White base grid / Glass shelf	7113312 / 9293493
Perforated metal shelf, white	
Scanner rail	9029022
Castors Ø 80 mm / Ø 100 mm	7435208
Adjustable feet, 90 - 120 mm / 150 - 180 mm	9080022 / 9086924
Evaporator cover	
Additional lock barrels (up to 5)	on request
Side-by-Side set in white	9017739
SmartModule	6145269

SRFvg 3501

Performance

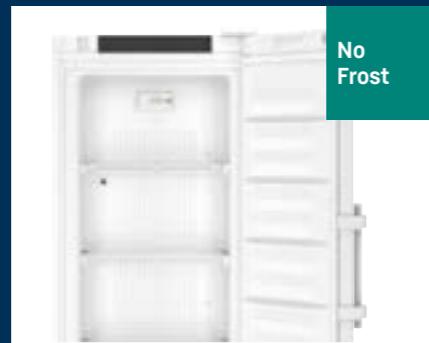
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Quality right down to the smallest detail



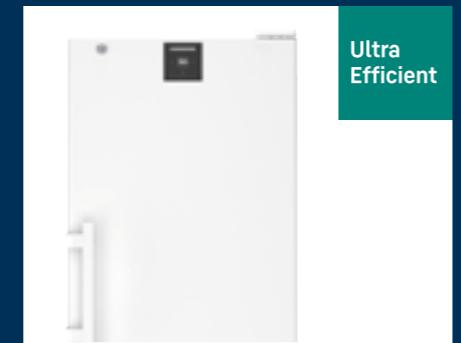
LED front lighting

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.



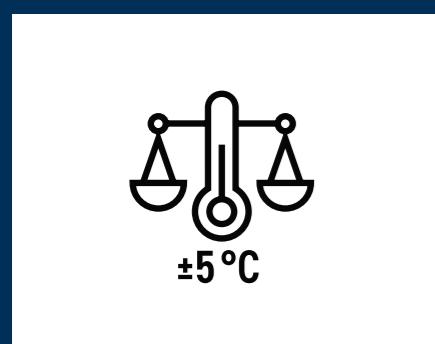
NoFrost technology

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 the interior – for convenient, safe, and ice-free storage.



Ultra-efficient

Energy-efficient refrigerators and freezers help with ever increasing electricity prices. Liebherr fully utilises the savings potential of every component – from the compressor to the seal, to the lighting and electronics. The ultra-efficient appliances in the Perfection series for example demonstrates how this has a positive effect on your overall operating costs.



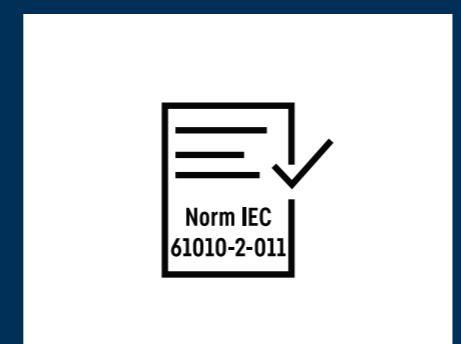
±5 °C temperature stability

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

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	472 / 257 litre
Exterior dimensions in mm (w / d / h)	747 / 769 / 1793
Interior dimensions in mm (w / d / h)	603 / 510 / 1118
Energy consumption in 365 days¹	540 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	725 kJ/h
Refrigerant	R 290
Sound power level	55 dB(A)
Voltage / frequency	220 – 240V~/ 50 Hz
Connection rating / Rated consumption watts	2.0 A / 250 W
Cooling system / Defrost	forced-air / automatic
Temperature range	-9 °C to -35 °C ²
Gradient³ / max. fluctuation⁴	5.5 °C / 4.4 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution / Interface	integrated, removable / WiFi/LAN
Data logger	integrated, USB interface
Interior light	LED
Adjustable shelves / Shelf material	4 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	600 / 510
Shelf loading / Maximum total load	60 kg / 300 kg
Castors	castors with brake at the front, fixed castors at the rear
Drawers / Number of baskets included	6 / 2
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
DIN 13277	yes
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	112.9 / 107.9 kg
Accessories	
White grid shelf	7112590
White base grid	7113416
Standard full-depth basket	7112594
Castors Ø 80 mm / Ø 100 mm	9141791
Adjustable feet, 90 – 120 mm / 150 – 180 mm	9086926 / -
Additional lock barrels (up to 5)	9080022 / 9086924
Side-by-Side set in white	on request
Product sensor (PT 1000)	9017739
	6942678

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

² The temperature range is valid at a maximum ambient temperature of +30 °C.

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

⁴ Max. fluctuation as per EN 60068-3: greatest fluctuation value determined throughout the duration of measurements.



SFFvh 5501

Perfection



SFFvh 4001

Perfection

**SFFsg 5501**

Performance

Gross / net capacity	499 / 394 litre
Exterior dimensions in mm (w / d / h)	747 / 769 / 1684
Interior dimensions in mm (w / d / h)	588 / 523 / 1388
Energy consumption in 365 days ¹	501 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 / Rated consumption watts	2.0 A / 240 W
Cooling system	static
Defrost	manual
Temperature range	-9°C to -30°C
Gradient ² / max. fluctuation ³	6.0°C / 2.9°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	retrofittable
Interface	WiFi / LAN (optional)
Removable shelves	4
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	580 / 523
Shelf loading / Maximum total load	60 kg / 300 kg
Drawers / Number of baskets included	8 / 2
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	93.2 / 88.3 kg
Accessories	
Glass shelf / Full-depth drawer	9293495 / 9749825
Short bottom basket / Standard full-depth basket	9141004 / 9141791
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

SFFsg 5501 ver. 740

Performance

Gross / net capacity	499 / 310 litre
Exterior dimensions in mm (w / d / h)	747 / 769 / 1684
Interior dimensions in mm (w / d / h)	588 / 523 / 1388
Energy consumption in 365 days ¹	501 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 / Rated consumption watts	2.0 A / 240 W
Cooling system	static
Defrost	manual
Temperature range	-9°C to -30°C
Gradient ² / max. fluctuation ³	6.0°C / 2.9°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	retrofittable
Interface	WiFi / LAN (optional)
Removable shelves	4
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	580 / 523
Shelf loading / Maximum total load	60 kg / 300 kg
Drawers / Number of baskets included	8 / 2
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	104.6 / 99.4 kg
Accessories	
Glass shelf / Full-depth drawer	9293495 / -

**SFFsg 4001**

Performance

Gross / net capacity	316 / 242 litre
Exterior dimensions in mm (w / d / h)	597 / 654 / 1884
Interior dimensions in mm (w / d / h)	403 / 408 / 1588
Energy consumption in 365 days ¹	385 kWh
Ambient temperature range	+10°C to +35°C
Heat output	529 kJ/h
Refrigerant	R 290
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~/ 50 Hz
Connection rating / Rated consumption watts	2.0 A / 220 W
Cooling system	static
Defrost	manual
Temperature range	-9°C to -30°C
Gradient ² / max. fluctuation ³	5.7°C / 2.5°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	retrofittable
Interface	WiFi / LAN (optional)
Removable shelves	5
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	400 / 408
Shelf loading / Maximum total load	45 kg / 270 kg
Drawers	
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	81.5 / 76.9 kg
Accessories	
Long drawer / Short drawer	9749823 / 9749844
Glass shelf	9293499
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	9006786
SmartModule	6145269

**SFFsg 4001 ver. 740**

Performance

Gross / net capacity	316 / 190 litre
Exterior dimensions in mm (w / d / h)	597 / 654 / 1884
Interior dimensions in mm (w / d / h)	403 / 408 / 1588
Energy consumption in 365 days ¹	385 kWh
Ambient temperature range	+10°C to +35°C
Heat output	529 kJ/h
Refrigerant	R 290
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~/ 50 Hz
Connection rating / Rated consumption watts	2.0 A / 220 W
Cooling system	static
Defrost	manual
Temperature range	-9°C to -30°C
Gradient ² / max. fluctuation ³	5.7°C / 2.5°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	retrofittable
Interface	WiFi / LAN (optional)
Removable shelves	5
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	400 / 408
Shelf loading / Maximum total load	45 kg / 270 kg
Drawers	
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	88.7 / 84.3 kg
Accessories	

**SRTvh 1511**

Perfection

Gross / net capacity	137 / 102 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	450 / 460 / 620
Energy consumption in 365 days ¹	187 kWh
Ambient temperature range	+10°C to +35°C
Heat output	170 kJ/h
Refrigerant	R 600a
Sound power level	44 dB(A)
Voltage / frequency	220 - 240V~ / 50 / 60 Hz
Connection rating / Rated consumption watts	2.0 A / 60 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3°C to +16°C
Gradient ² / max. fluctuation ³	3.7°C / 2.9°C
External cabinet finish	steel / white
Door material / colour	Insulated glass door with plastic frame / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution	integrated, removable
Interface	WiFi/LAN
Data logger	integrated, USB interface
Interior light	vertical LED light strip recessed in left wall with separate switch
Adjustable shelves / Shelf material	3 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	450 / 425
Shelf loading / Maximum total load	45 kg / 180 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 12 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	45.3 / 43.5 kg
Accessories	
Worktop, white	9876118
White grid shelf	7113408
Pharmacy drawer	9876137
Perforated metal shelf, white	7746588
Castors / Adjustable legs	9904819 / 9906105
Scanner rail	7401607
Additional lock barrels (up to 5)	on request
Stacking kit, white	9518628
Side-by-Side set in white	9031901

SRTvh 1501

Perfection

Gross / net capacity	134 / 102 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	450 / 440 / 620
Energy consumption in 365 days ¹	111 kWh
Ambient temperature range	+10°C to +35°C
Heat output	130 kJ/h
Refrigerant	R 600a
Sound power level	44 dB(A)
Voltage / frequency	220 - 240V~ / 50 / 60 Hz
Connection rating / Rated consumption watts	2.0 A / 50 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3°C to +16°C
Gradient ² / max. fluctuation ³	3.7°C / 3.4°C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution	integrated, removable
Interface	WiFi/LAN
Data logger	integrated, USB interface
Interior light	LED lighting column, left
Adjustable shelves / Shelf material	3 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	450 / 425
Shelf loading / Maximum total load	45 kg / 180 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 12 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	37 / 35.1 kg
Accessories	
Worktop, white	9876118
White grid shelf	7113408
Perforated metal shelf, white	7746588
Castors / Adjustable legs	9904819 / 9906105
Scanner rail	7401607
Additional lock barrels (up to 5)	on request
Stacking kit, white	9518628
Side-by-Side set in white	9031901

**SRTvg 1511**

Performance

Gross / net capacity	137 / 102 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	450 / 460 / 620
Energy consumption in 365 days ¹	214 kWh
Ambient temperature range	+10°C to +35°C
Heat output	235 kJ/h
Refrigerant	R 600a
Sound power level	47 dB(A)
Voltage / frequency	220 - 240V~ / 50 Hz
Connection rating / Rated consumption watts	2.0 A / 100 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3°C to +16°C
Gradient ² / max. fluctuation ³	3.7°C / 5.2°C
External cabinet finish	steel / white
Door material / colour	Insulated glass door with plastic frame / 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 / Connectivity type	yes / SmartModule
Connectivity solution	retrofittable
Interface	WiFi/LAN (optional)
Interior light	LED ceiling light strip with separate switch
Adjustable shelves / Shelf material	3 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	450 / 425
Shelf loading / Maximum total load	45 kg / 180 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 12 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	47 / 45.3 kg
Accessories	
Worktop, white	9876118
White grid shelf	7113408
Perforated metal shelf, white	7746588
Castors / Adjustable legs	9904819 / 9906105
Scanner rail	7401607
Additional lock barrels (up to 5)	on request
Stacking kit, white	9518628
Side-by-Side set in white	9031901
SmartModule	6145269

**SRTvg 1501**

Performance

Gross / net capacity	134 / 102 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	450 / 440 / 620
Energy consumption in 365 days ¹	156 kWh
Ambient temperature range	+10°C to +35°C
Heat output	170 kJ/h
Refrigerant	R 600a
Sound power level	47 dB(A)
Voltage / frequency	220 - 240V~ / 50 Hz
Connection rating / Rated consumption watts	2.0 A / 100 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3°C to +16°C
Gradient ² / max. fluctuation ³	4.9°C / 4.4°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 / Connectivity type	yes / SmartModule
Connectivity solution	retrofittable
Interface	WiFi/LAN (optional)
Interior light	3 / wire shelves plastic-coated
Adjustable shelves / Shelf material	450 / 425
Usable shelf area in mm (w / d)	45 kg / 180 kg
Shelf loading / Maximum total load	45 kg / 180 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 12 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	38.9 / 36.8 kg
Accessories	
Worktop, white	9876118
White grid shelf	7113408
Perforated metal shelf, white	7746588
Castors / Adjustable legs	9904819 / 9906105
Scanner rail	7401607
Additional lock barrels (up to 5)	on request
Stacking kit, white	9518628
Side-by-Side set in white	9031901
SmartModule	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.



SFTvh 1501

Perfection

Gross / net capacity	103 / 59 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	380 / 330 / 600
Energy consumption in 365 days ¹	187 kWh
Ambient temperature range	+10°C to +35°C
Heat output	240 kJ/h
Refrigerant	R 600a
Sound power level	40 dB(A)
Voltage / frequency	220 - 240V~/ 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 80 W
Cooling system / Defrost	forced-air / automatic
Temperature range	-9°C to -35°C ²
Gradient ³ / max. fluctuation ⁴	3.2°C / 3.9°C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
SmartMonitoring compatible	yes
Connectivity type	SmartModule
Connectivity solution	integrated, removable
Interface	WiFi/LAN
Data logger	integrated, USB interface
Interior light	LED
Shelf material	glass
Usable shelf area in mm (w / d)	380 / 266
Shelf loading / Maximum total load	40 kg / 120 kg
Drawers	3
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	42.5 / 40.5 kg
Accessories	
Worktop, white	9876118
Castors	9904819
Adjustable legs	9906105
Additional lock barrels (up to 5)	on request
Stacking kit, white	9518628
Side-by-Side set in white	9031901
SmartModule	6145269

SFTsg 1501 ver. 740

Performance

Gross / net capacity	101 / 71 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	380 / 410 / 610
Energy consumption in 365 days ¹	156 kWh
Ambient temperature range	+10°C to +35°C
Heat output	215 kJ/h
Refrigerant	R 600a
Sound power level	40 dB(A)
Voltage / frequency	220 - 240V~/ 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 110 W
Cooling system / Defrost	static / manual
Temperature range	-9°C to -30°C
Gradient ³ / max. fluctuation ⁴	7.4°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	retrofittable
Interface	WiFi/LAN
Data logger	WiFi/LAN (optional)
Interior light	LED
Shelf material	glass
Usable shelf area in mm (w / d)	380 / 347
Shelf loading / Maximum total load	40 kg / 120 kg
Drawers	3
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	41.1 / 39 kg
Accessories	
Pharmacy drawer	9876118
White grid shelf / White base grid	9904819
Perforated metal shelf, white	9906105
Scanner rail	on request
Additional lock barrels	9518628
Side-by-Side set in white	9031901
SmartModule	6145269

SCFvh 4032

Perfection

Gross / net capacity	284 / 206 litre
Exterior dimensions in mm (w / d / h)	112 / 58 litre
Interior dimensions in mm (w / d / h)	597 / 654 / 2044
Energy consumption in 365 days ¹	460 / 423 / 1037
Ambient temperature range	406 / 292 / 595
Heat output	459 kWh
Refrigerant	+10°C to +35°C
Sound power level	380 kJ/h / R 600a
Voltage / frequency	48 dB(A)
Connection rating / Rated consumption watts	220 - 240V~/ 50/60 Hz
Cooling system	2.0 A / 160 W
Defrost	forced-air / forced-air
Temperature range	automatic / automatic
Gradient ³	+3°C to +16°C / -9°C to -30°C
Max. fluctuation ⁴	3.3°C / 4.3°C
External cabinet finish	2.9°C / 7.6°C
Door material / colour	steel / white
Internal liner material	glass door / steel / white
Type of control	commercial grade moulded polystyrene
Power failure alarm	2.4" touch & swipe colour display
Fault: warning signal / Volt-free alarm contact	immediately upon power failure for at least 12 hrs
SmartMonitoring compatible / Connectivity type	visual and audible / yes
Connectivity solution / Interface	yes / SmartModule
Data logger	integrated, removable / WiFi/LAN
Interior light	integrated, USB interface
Adjustable shelves	vertical LED light strip recessed in left wall with separate switch / LED
Shelf material	4
Usable shelf area in mm (w / d)	wire shelves plastic-coated / glass
Shelf loading	460 / 423
Maximum total load	45 kg / 40 kg
Drawers	345 kg
Handle	3
Access ports / DIN 13277	antimicrobial handle with opening mechanism
Type of lock / Door hinges	2 x Ø 10 mm / yes
Gross / net weight	mechanical / right, reversible on site
Accessories	103.4 / 98.3 kg
Pharmacy drawer	
White grid shelf / White base grid	9032867
Perforated metal shelf, white	7113308 / 7113272
Scanner rail	9029022
Additional lock barrels	7435208
Side-by-Side set in white	on request
SmartModule	9027388

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

² The temperature range is valid at a maximum ambient temperature of +30°C.

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

⁴ Max. fluctuation as per EN 60068-3: greatest fluctuation value determined throughout the duration of measurements.



Compact laboratory appliances – storage quality in a tiny package

The new compact laboratory appliances from Liebherr provide amazing storage quality in very little space. So compact that they can easily fit under or on top of your work table, making them a brilliant solution for limited floor space. Temperature stability, alarm functions, access protection and option to connect with monitoring systems mean amazing lab safety every day.

Discover the benefits of an appliance that focuses on what matters: reliable storage in a small space.

Quality right down to the smallest detail



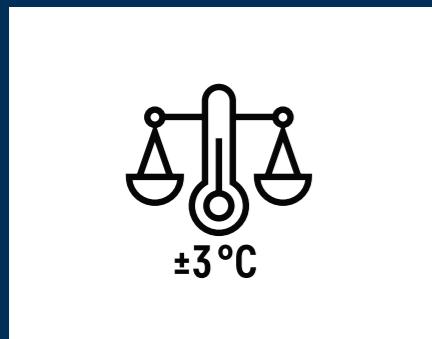
SmartFrost (SFCse 801)
SmartFrost reduces frost build-up in the interior and on stored products. Defrosting is required less often – and when it is necessary, it is made much easier by the smooth, easy-to-clean interior walls. The evaporator in the foam insulation ensures high levels of energy efficiency as well as even cooling.



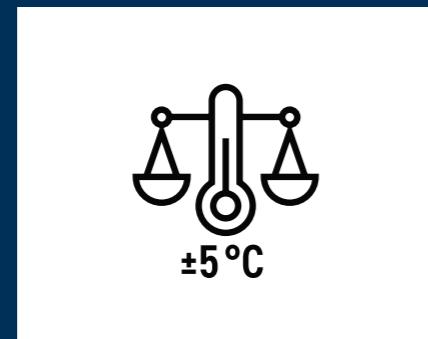
Mechanical lock
All professional Liebherr appliances are equipped with a mechanical lock with two keys for the storage of temperature-sensitive products. This way you can be sure that no unauthorised persons can access your stored goods.



Recessed grip
Distinctive and functional: you can open the appliance very easily using the horizontally integrated and ergonomically fitted recessed grip.



±3 °C temperature stability
Temperature fluctuations must be minimal to ensure that the quality of sensitive substances is preserved. Liebherr 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.



±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.



Retrofittable WiFi/LAN interface
The retrofittable WiFi/LAN interface connects appliances to external systems. For example, you can use Liebherr SmartMonitoring to control and document the storage temperature.



New

SRCse 801

Performance

Gross / net capacity	94 / 78 litre
Exterior dimensions in mm (w / d / h)	550 / 610 / 680
Interior dimensions in mm (w / d / h)	400 / 460 / 520
Energy consumption in 365 days ¹	87 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	105 kJ/h
Refrigerant	R 600a
Sound power level	37 dB(A)
Voltage / frequency	220 – 240V~/ 50 Hz
Connection rating	1.3 A
Rated consumption watts	50 W
Cooling system	static
Defrost	automatic
Temperature range	+3 °C to +7 °C
Gradient ² / max. fluctuation ³	5.3 °C / 3.9 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	commercial grade moulded polystyrene
Type of control	touch electronics
Worktop	yes, heat-resistant
Power failure alarm	upon mains power return
Fault: warning signal	visual and audible
SmartMonitoring compatible	yes
Connectivity type	SmartModule
Connectivity solution	retrofittable
Interface	WiFi / LAN (optional)
Interior light	LED
Adjustable shelves	2
Shelf material	glass
Usable shelf area in mm (w / d)	400 / 336
Shelf loading / Maximum total load	40 kg / 120 kg
Drawers	
Handle	recessed grip
Access ports	1 x Ø 10 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	30.1 / 27.8 kg
Accessories	
SmartModule	6145269



New

SFCse 801

Performance

Gross / net capacity	77 / 59 litre
Exterior dimensions in mm (w / d / h)	550 / 610 / 680
Interior dimensions in mm (w / d / h)	380 / 410 / 490
Energy consumption in 365 days ¹	158 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	337 kJ/h
Refrigerant	R 600a
Sound power level	37 dB(A)
Voltage / frequency	220 – 240V~/ 50 Hz
Connection rating	1.3 A
Rated consumption watts	60 W
Cooling system	static
Defrost	manual
Temperature range	-12 °C to -28 °C
Gradient ² / max. fluctuation ³	3.3 °C / 1.7 °C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	commercial grade moulded polystyrene
Type of control	touch electronics
Worktop	yes, heat-resistant
Power failure alarm	upon mains power return
Fault: warning signal	visual and audible
SmartMonitoring compatible	yes
Connectivity type	SmartModule
Connectivity solution	retrofittable
Interface	WiFi / LAN (optional)
Interior light	LED
Adjustable shelves	2
Shelf material	glass
Usable shelf area in mm (w / d)	380 / 266
Shelf loading / Maximum total load	40 kg / 120 kg
Drawers	
Handle	recessed grip
Access ports	1 x Ø 10 mm
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	34.9 / 32.7 kg
Accessories	
SmartModule	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.

The advantages at a glance

+2 °C SafetyDevice

If the temperature falls below +2 °C due to a malfunction while the temperature setting is at +5 °C or higher, 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.



SRFfg 4001 Performance



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 documents temperatures with the help of external data loggers 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

A benefit for users but a bane for germs: The easy-turn handle mechanism makes opening the door effortless. It contains special antimicrobial substances that reduce bacteria by up to 99.99%. Regular and time-consuming disinfection is not necessary. This means the appliance is extremely safe even if many people have access to it. *According to ISO 22196:2011



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°

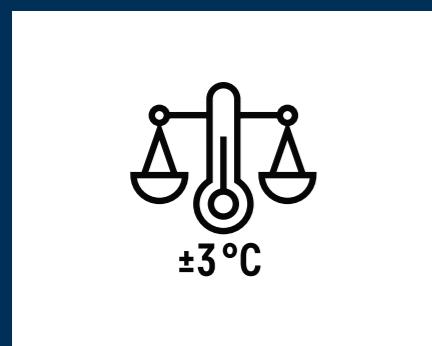
To make loading, unloading and cleaning easier, the appliance door stays open if opened by more than 90°. If the opening angle is less than 90°, it closes automatically for safety.

Quality right down to the smallest detail



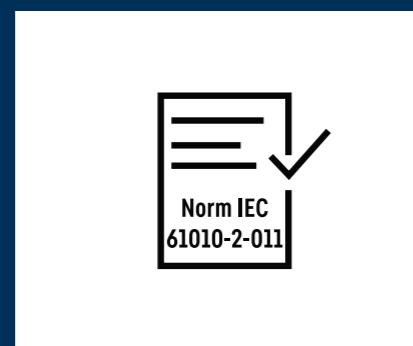
Explosion protection: ATEX 95
The ATEX-95 certification confirms that the Liebherr spark-free laboratory refrigerators and freezers are suitable for storing explosive and highly flammable materials as defined by EU Directive 2014/34/EU (ATEX).

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

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
Exterior dimensions in mm (w / d / h)
Interior dimensions in mm (w / d / h)
Energy consumption in 365 days¹
Ambient temperature range
Heat output
Refrigerant
Sound power level
Voltage / frequency
Connection rating
Rated consumption watts
Cooling system / Defrost
Temperature range
Gradient² / max. fluctuation³
External cabinet finish
Door material / colour
Internal liner material
Type of control
Power failure alarm
Fault: warning signal
Volt-free alarm contact
SmartMonitoring compatible
Connectivity type
Connectivity solution
Interface
Adjustable shelves
Shelf material
Usable shelf area in mm (w / d)
Shelf loading / Maximum total load
Handle
Access ports
ATEX conformity
Type of lock
Door hinges
Gross / net weight
Accessories
Glass shelf
Scanner rail
Castors Ø 80 mm / Ø 100 mm
Adjustable feet, 90–120 mm / 150–180 mm
Additional lock barrels (up to 5)
Side-by-Side set in white
SmartModule

SRFfg 5501

Performance

558 / 441 litre
747 / 769 / 1684
600 / 537 / 1460
399 kWh
+10 °C to +35 °C
408 kJ/h
R 600a
49 dB(A)
220–240V~/50 Hz
2.0 A
145 W
forced-air / automatic
+3 °C to +16 °C
3.7 °C / 3.0 °C
steel / white
steel / white
commercial grade moulded polystyrene
monochrome display, touch buttons
upon mains power return
visual and audible
yes
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
90.3 / 85.4 kg
9291929
7435210
9086926 / 9080023
9080022 / 9086924
on request
9017739
9006786
6145269



SRFfg 4001

Performance

394 / 298 litre
597 / 654 / 1884
460 / 422 / 1660
421 kWh
+10 °C to +35 °C
454 kJ/h
R 600a
49 dB(A)
220–240V~/50 Hz
2.0 A
140 W
forced-air / automatic
+3 °C to +16 °C
5.1 °C / 3.2 °C
steel / white
steel / white
commercial grade moulded polystyrene
monochrome display, touch buttons
upon mains power return
visual and audible
yes
yes
SmartModule
retrofittable
WiFi/LAN (optional)
5
glass
460 / 422
40 kg / 225 kg
antimicrobial handle with opening mechanism
1 x Ø 10 mm
yes
mechanical
right, reversible on site
73.6 / 68.9 kg
9293493
7435208
9086926 / 9080023
9080022 / 9086924
on request
9017739
9006786
6145269

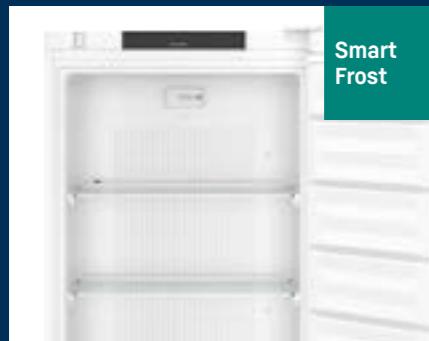


¹ Measured at +25 °C ambient temperature and +5 °C set temperature for fridges and -20 °C for freezers.

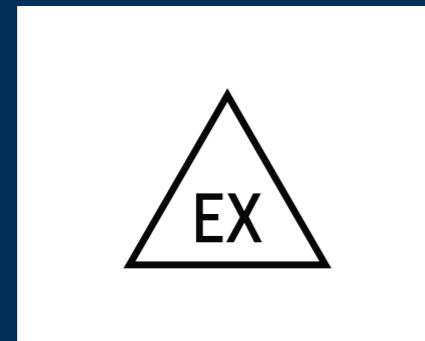
² Gradient as defined in EN 60068-3: the difference between the warmest and coldest average measurements, increased by their expanded uncertainty, throughout the duration.

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

Quality right down to the smallest detail

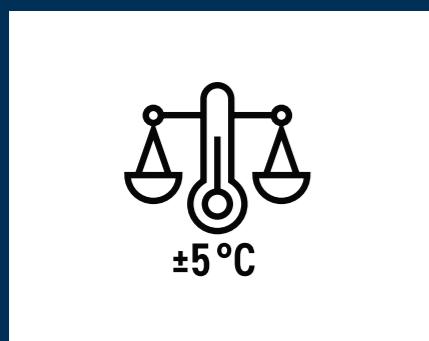


SmartFrost
SmartFrost reduces frost build-up in the interior and on stored products. Defrosting is required less often – and when it is necessary, it is made much easier by the smooth, easy-to-clean interior walls. The evaporator in the foam insulation ensures high levels of energy efficiency as well as even cooling.



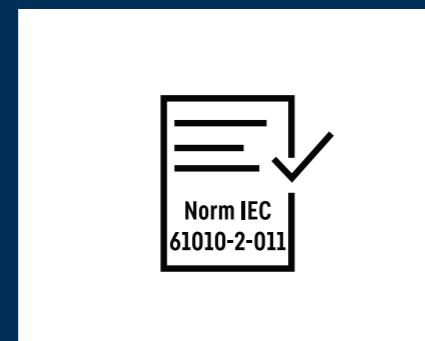
Compliance with the ATEX Directive

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.



$\pm 5^\circ\text{C}$ 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 $\pm 5^\circ\text{C}$, so that the valuable goods you store in them are optimally protected and their quality is preserved.



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
Exterior dimensions in mm (w / d / h)
Interior dimensions in mm (w / d / h)
Energy consumption in 365 days¹
Ambient temperature range
Heat output
Refrigerant
Sound power level
Voltage / frequency
Connection rating
Rated consumption watts
Cooling system / Defrost
Temperature range
Gradient² / max. fluctuation³
External cabinet finish
Door material / colour
Internal liner material
Type of control
Power failure alarm
Fault: warning signal
Volt-free alarm contact
SmartMonitoring compatible
Connectivity type
Connectivity solution
Interface
Removable shelves
Shelf material
Usable shelf area in mm (w / d)
Shelf loading / Maximum total load
Drawers
Handle
Access ports
ATEX conformity
Type of lock
Door hinges
Gross / net weight
Accessories
Long drawer / Short drawer
Castors Ø 80 mm / Ø 100 mm
Adjustable feet, 90–120 mm / 150–180 mm
Additional lock barrels (up to 5)
Side-by-Side set in white
SmartModule

SFFfg 5501 Performance	SFFfg 5501 ver. 740 Performance	SFFfg 4001 Performance	SFFfg 4001 ver. 740 Performance
499 / 394 litre	499 / 310 litre	316 / 242 litre	316 / 190 litre
747 / 769 / 1684	747 / 769 / 1684	597 / 654 / 1884	597 / 654 / 1884
588 / 517 / 1388	588 / 517 / 1388	403 / 402 / 1588	403 / 402 / 1588
516 kWh	516 kWh	384 kWh	384 kWh
+10°C to +35°C	+10°C to +35°C	+10°C to +35°C	+10°C to +35°C
713 kJ/h	713 kJ/h	529 kJ/h	529 kJ/h
R 290	R 290	R 290	R 290
49 dB(A)	49 dB(A)	49 dB(A)	49 dB(A)
220–240V~/50 Hz	220–240V~/50 Hz	220–240V~/50 Hz	220–240V~/50 Hz
2.0 A	2.0 A	2.0 A	2.0 A
240 W	240 W	220 W	220 W
static/manual	static/manual	static/manual	static/manual
-9°C to -30°C	-9°C to -30°C	-9°C to -30°C	-9°C to -30°C
5.4°C / 3.3°C	5.4°C / 3.3°C	5.2°C / 2.4°C	5.2°C / 2.4°C
steel / white	steel / white	steel / white	steel / white
steel / white	steel / white	steel / white	steel / white
commercial grade moulded polystyrene			
monochrome display, touch buttons			
upon mains power return			
visual and audible	visual and audible	visual and audible	visual and audible
yes	yes	yes	yes
yes	yes	yes	yes
SmartModule	SmartModule	SmartModule	SmartModule
retrofittable	retrofittable	retrofittable	retrofittable
WiFi/LAN (optional)	WiFi/LAN (optional)	WiFi/LAN (optional)	WiFi/LAN (optional)
4	4	5	5
glass	glass	glass	glass
580 / 517	580 / 517	400 / 402	400 / 402
40 kg / 300 kg	40 kg / 300 kg	40 kg / 270 kg	40 kg / 270 kg
8	8	6	6
antimicrobial handle with opening mechanism			
1 x Ø 10 mm			
yes	yes	yes	yes
mechanical	mechanical	mechanical	mechanical
right, reversible on site			
94.3 / 89.8 kg	103.2 / 99.2 kg	82.1 / 77.5 kg	89.6 / 84.9 kg
9749825 / -	9749823 / 9749844	9086926 / 9080023	9086926 / 9080023
9086926 / 9080023	9086926 / 9080023	9080022 / 9086924	9080022 / 9086924
9080022 / 9086924	9080022 / 9086924	on request	on request
on request	on request	9017739	9006786
9017739	9017739	6145269	6145269
6145269	6145269	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.

**SRTfg 1501**

Performance

Gross / net capacity	134 / 102 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	450 / 440 / 620
Energy consumption in 365 days ¹	156 kWh
Ambient temperature range	+10°C to +35°C
Heat output	170 kJ/h
Refrigerant	R 600a
Sound power level	47 dB(A)
Voltage / frequency	220 - 240V~/ 50 Hz
Connection rating / Rated consumption watts	2.0 A / 100 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+3°C to +16°C
Gradient ² / max. fluctuation ³	4.9°C / 4.4°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 / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible	yes
Connectivity type	SmartModule
Connectivity solution	retrofittable
Interface	WiFi/LAN (optional)
Adjustable shelves	3
Shelf material	glass
Usable shelf area in mm (w / d)	450 / 421
Shelf loading / Maximum total load	40 kg / 160 kg
Drawers	
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 12 mm
ATEX conformity	yes
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	41.2 / 39.4 kg
Accessories	
Worktop, white	9876118
Glass shelf	9295392
Castors	9904819
Adjustable legs	9906105
Additional lock barrels (up to 5)	on request
Stacking kit, white	9518628
Side-by-Side set in white	9031901
SmartModule	6145269

SFTfg 1501 ver. 740

Performance

Gross / net capacity	101 / 71 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	380 / 410 / 610
Energy consumption in 365 days ¹	180 kWh
Ambient temperature range	+10°C to +35°C
Heat output	215 kJ/h
Refrigerant	R 600a
Sound power level	40 dB(A)
Voltage / frequency	220 - 240V~/ 50 Hz
Connection rating / Rated consumption watts	2.0 A / 110 W
Cooling system	static / manual
Temperature range	-9°C to -30°C
Gradient ²	7.4°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 / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible	yes
Connectivity type / Connectivity solution	SmartModule
Interface	retrofittable
Adjustable shelves	WiFi/LAN (optional)
Shelf material	glass
Usable shelf area in mm (w / d)	380 / 347
Shelf loading	40 kg / 120 kg
Drawers	3
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	40.9 / 39.1 kg
Accessories	
Glass shelf	9876118
Additional lock barrels	on request
Side-by-Side set in white	9518628
SmartModule	6145269

SCFfg 4002

Performance

Gross / net capacity	fridge compartment
Gross / net capacity	freezer compartment
Exterior dimensions in mm (w / d / h)	fridge compartment
Interior dimensions in mm (w / d / h)	freezer compartment
Energy consumption in 365 days ¹	110 / 62 litre
Ambient temperature range	460 / 422 / 1037
Heat output	390 kWh
Refrigerant	R 600a
Sound power level	48 dB(A)
Voltage / frequency	220 - 240V~/ 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 170 W
Cooling system	fridge / freezer comp.
Defrost	fridge / freezer comp.
Temperature range	fridge / freezer comp.
Gradient ²	fridge / freezer comp.
Max. fluctuation ³	fridge / freezer comp.
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 / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible	yes
Connectivity type / Connectivity solution	SmartModule / retrofittable
Interface	WiFi/LAN (optional)
Adjustable shelves	fridge compartment
Shelf material	fridge / freezer comp.
Usable shelf area in mm (w / d)	fridge compartment
Shelf loading	fridge / freezer comp.
Maximum total load	fridge / freezer comp.
Drawers	freezer compartment
Handle	
Access ports	antimicrobial handle with opening mechanism
ATEX conformity	2 x Ø 10 mm
Type of lock	yes
Door hinges	mechanical
Gross / net weight	right, reversible on site
Accessories	88.8 / 84 kg
Glass shelf	9293493
Additional lock barrels	on request
Side-by-Side set in white	9027388
SmartModule	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.



Integrable under counter laboratory – storage safety under the work surface

The integrable under counter laboratory appliances provide amazing storage conditions for temperature-sensitive substances. Front-facing ventilation makes them easy to integrate into furniture recesses, without the need for additional ventilation on the rear or appliance ceiling. Powerful refrigeration technology, intelligent alarm systems and optional connection to monitoring systems ensure excellent, safe storage.

Modern laboratory design meets technical efficiency in the new under counter appliances from Liebherr. Find out how you can effortlessly integrate amazing storage quality into your work environment.

The advantages at a glance

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.

Intuitive menu navigation

Convenience at your fingertips: Check the appliance status from the control panel integrated flush in the door without needing to open the door. Menu navigation is self-explanatory thanks to the use of symbols and is available in up to 12 different languages.



LightAlarm

In the event of an uncontrolled temperature rise or other problems, the interior light of the appliance starts flashing. This visually shows when action is needed.

Grid shelf with pull-out stop

The grid shelf with pull-out stop ensures stability and a safe working environment. When stocking or emptying, it remains securely fixed in position – so you won't pull it out by accident.

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.



Height-adjustable

Can be individually adjusted; can be flexibly adapted: the four adjustable feet mean that the appliance can adapt to a recess height of 82 cm to 88 cm.

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.

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

All professional Liebherr appliances are equipped with a mechanical lock with two keys for the storage of temperature-sensitive products. This way you can be sure that no unauthorised persons can access your stored goods.

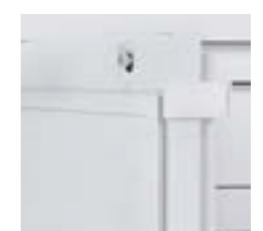
Antimicrobial handle with opening mechanism

A benefit for users but a bane for germs: The easy-turn handle mechanism makes opening the door effortless. It contains special antimicrobial substances that reduce bacteria by up to 99.99%*.

*According to ISO 22196:2011

Interchangeable door hinge

Liebherr appliances are fitted with a right-hand door hinge as standard. Without much effort – and without any additional parts – the door hinge can be changed to the left. This allows you maximum freedom when choosing your installation location.



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° / automatic door-closing at less than 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.

Quality right down to the smallest detail



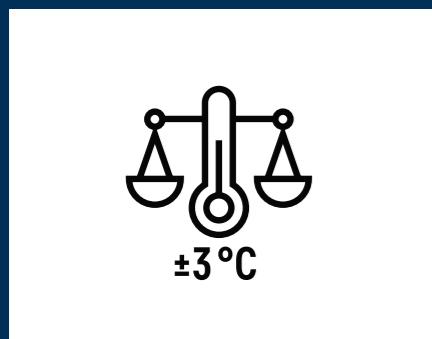
Can be integrated into recesses
Can be flexibly integrated thanks to front ventilation and extraction: in contrast to conventional undercounter appliances, ventilation at the rear or in the appliance ceiling is not needed. There is no need to modify the unit carcass, which saves time and money. The sophisticated air-circulation system ensures reliable refrigeration performance, even in confined installation locations.



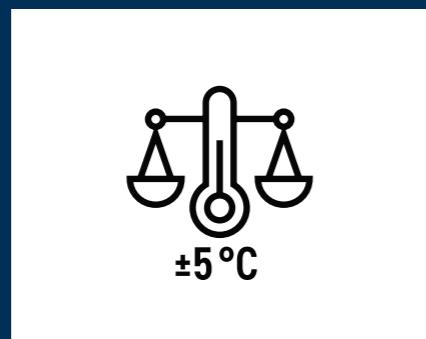
Alarm relay
If there is an alarm, the responsible control centre is notified. You define which alarms are forwarded, as well as set how long the forwarding remains active, and whether a reminder is sent after the end of the alarm.



+2 °C SafetyDevice
If the temperature falls below +2 °C due to a malfunction while the temperature setting is at +5 °C or higher, the SafetyDevice takes control, stabilising the temperature, activating the alarm and protecting the contents from freezing. At colder settings, this activation threshold decreases relatively with the temperature setting.



±3 °C temperature stability
Temperature fluctuations must be minimal to ensure that the quality of sensitive substances is preserved. Liebherr 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.



±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.



Retrofittable WiFi/LAN interface
The retrofittable WiFi/LAN interface connects appliances to external systems. For example, you can use Liebherr SmartMonitoring to control and document the storage temperature.

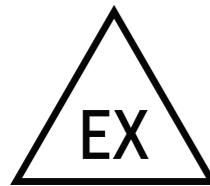
 SRUvg 1011 Performance	 SRUvg 1001 Performance	 SFUsg 1001 Performance
Gross / net capacity	123 / 81 litre	123 / 94 litre
Aperture dimensions in mm (w / d / h)	600 / 580 / 820 - 880	600 / 580 / 820 - 880
Interior dimensions in mm (w / d / h)	450 / 467 / 482	450 / 458 / 482
Energy consumption in 365 days¹	182 kWh	91 kWh
Ambient temperature range	+10 °C to +30 °C	+10 °C to +30 °C
Ventilation	Plinth ventilation	Plinth ventilation
Heat output	150 kJ/h	75 kJ/h
Refrigerant	R 600a	R 600a
Sound power level	39 dB(A)	39 dB(A)
Voltage / frequency	220 - 240V~ / 50/60 Hz	220 - 240V~ / 50/60 Hz
Connection rating	2.0 A	2.0 A
Rated consumption watts	80 W	80 W
Cooling system	forced-air	forced-air
Defrost	automatic	automatic
Temperature range	+3 °C to +16 °C	+3 °C to +16 °C
Gradient² / max. fluctuation³	2.6 °C / 2.2 °C	3.5 °C / 3.0 °C
External cabinet finish	steel / white	steel / white
Door material / colour	Insulated glass door with plastic frame / white	steel / white
Internal liner material	commercial grade moulded polystyrene	steel / white
Type of control	monochrome display, touch buttons	commercial grade moulded polystyrene
Power failure alarm	upon mains power return	monochrome display, touch buttons
Fault: warning signal	visual and audible	upon mains power return
Volt-free alarm contact	yes	visual and audible
SmartMonitoring compatible	yes	yes
Connectivity type	SmartModule	SmartModule
Connectivity solution	retrofittable	retrofittable
Interface	WiFi / LAN (optional)	WiFi / LAN (optional)
Interior light	LED ceiling light strip with separate switch	
Adjustable shelves	2	2
Shelf material	wire shelves plastic-coated	wire shelves plastic-coated
Usable shelf area in mm (w / d)	450 / 467	450 / 458
Shelf loading / Maximum total load	45 kg / 135 kg	45 kg / 135 kg
Drawers		
Handle	antimicrobial handle with opening mechanism	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm	1 x Ø 10 mm
Type of lock	mechanical	mechanical
Door hinges	right, reversible on site	right, reversible on site
Gross / net weight	45.3 / 42.4 kg	38.5 / 35.3 kg
Accessories		
White grid shelf	7113408	7113408
SmartModule	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.

Quality right down to the smallest detail



Compliance with the ATEX Directive

Liebherr laboratory equipment conforms to EN/IEC 60079-0 / EN-IEC 60079-7 and complies with EU Directive 2014/34/EU ("ATEX Directive"). Classification of the interior to <Ex> II 3 G Ex ec IIC T6 (declared as Zone 22) makes it suitable for flammable substances in closed containers that could form explosive atmospheres.



Condensation collection tray for ATEX models

To achieve ATEX compliance, the interior of explosion-proof appliances features a condensation collection tray that must be emptied manually. This prevents any zone crossing due to open feedthroughs and ensures safe storage.



Robust glass shelves

Greater convenience in the lab: The robust glass shelves of the fridges and freezers with an explosion-proof interior are easy to clean and simple to remove when the door is opened by approx. 90°.



Mechanical lock

All professional Liebherr appliances are equipped with a mechanical lock with two keys for the storage of temperature-sensitive products. This way you can be sure that no unauthorised persons can access your stored goods.

Gross / net capacity
Aperture dimensions in mm (w / d / h)
Interior dimensions in mm (w / d / h)
Energy consumption in 365 days ¹
Ambient temperature range
Ventilation
Heat output
Refrigerant
Sound power level
Voltage / frequency
Connection rating
Rated consumption watts
Cooling system
Defrost
Temperature range
Gradient ² / max. fluctuation ³
External cabinet finish
Door material / colour
Internal liner material
Type of control
Power failure alarm
Fault: warning signal
Volt-free alarm contact
SmartMonitoring compatible
Connectivity type
Connectivity solution
Interface
Adjustable shelves
Shelf material
Usable shelf area in mm (w / d)
Shelf loading / Maximum total load
Drawers
Handle
Access ports
Type of lock
Door hinges
Gross / net weight
Accessories
SmartModule



SRUfg 1001

Performance

120 / 80 litre

600/580/820-880

450/458/482

91 kWh

+10 °C to +30 °C

Plinth ventilation

75 kJ/h

R 600a

39 dB(A)

220-240V~/50/60 Hz

2.0 A

80 W

forced-air

automatic

+3 °C to +16 °C

3.6 °C / 2.8 °C

steel / white

steel / white

commercial grade moulded polystyrene

monochrome display, touch buttons

upon mains power return

visual and audible

yes

yes

SmartModule

retrofittable

WiFi/LAN (optional)

2

glass

450 / 458

40 kg / 120 kg

antimicrobial handle with opening mechanism

1 x Ø 10 mm

mechanical

right, reversible on site

40.3 / 37.1 kg

6145269



SFUfg 1001

Performance

91 / 68 litre

600/580/820-880

424 / 386 / 520

123 kWh

+10 °C to +30 °C

Plinth ventilation

100 kJ/h

R 600a

39 dB(A)

220-240V~/50/60 Hz

2.0 A

60 W

static

manual

-9 °C to -30 °C

2.6 °C / 0.8 °C

steel / white

steel / white

commercial grade moulded polystyrene

monochrome display, touch buttons

upon mains power return

visual and audible

yes

yes

SmartModule

retrofittable

WiFi/LAN (optional)

424 / 386

15 kg / 45 kg

3

antimicrobial handle with opening mechanism

1 x Ø 10 mm

mechanical

right, reversible on site

37.3 / 34.7 kg

6145269

Laboratory refrigerators and freezers with stainless steel inner liner

**Additional remote controls**

With additional remote controls for refrigerators and freezers with electronic door locks, you can allow other people to access stored goods while retaining full control at all times. For example, you can individually control whether renewed access should be granted or denied to a person by activating or deactivating their remote control.

**SmartModule**

SmartModule connects refrigerators and freezers in a network with Liebherr SmartMonitoring and allows you to use its extensive digital monitoring and documentation functions. In addition, appliances can be integrated into a customer's existing monitoring system via a local API. The small electronic unit with integrated LAN/WiFi is ready to use as soon as it is mounted on the back of the appliance.

**U-shaped tray slides**

Additional U-shaped tray slides can be retrofitted as required to provide extra storage options.

Laboratory refrigerators and freezers and laboratory fridge-freezer combination with plastic inner liner

**Product temperature sensor**

A product temperature sensor for logging product temperatures is available as a retrofit kit for the laboratory appliances with electronic controller. The logged product temperatures can either be read by the electronic controller or transferred to an external documentation system via the existing RS 485 interface.

**Special locking**

To protect the stored products from unwanted access, special locks are available as accessories for the refrigerators and freezers. This way, different locks can be installed on several appliances so that only the people responsible for a particular appliance have access to it.

**Stacking Kit**

The stacking kit can be used to combine two refrigerators or refrigerators and freezers. This way, different temperature zones are available on a small surface area.

**Grid shelf grey**

If you need more storage space or want to separate stored products and have a better overview, Liebherr appliances can be equipped with additional grid shelves. Made of metal with a polypropylene coating, they are identical to the ones that come as standard in the appliances, offering the same corrosion-resistant and durable extra shelving.

**Foot-pedal door opener**

The optional foot-pedal opener is useful when you don't have a hand free.

**Perforated metal shelf grey**

To ensure that even small items are stored stably in the refrigeration appliances, Liebherr has developed shallow perforated metal shelves especially for this purpose. They are made of coated metal and designed for a maximum load of up to 45 kg. The perforation ensures unhindered air circulation throughout the storage space.

**Evaporator cover**

To better protect temperature-sensitive goods and prevent them from touching the refrigeration system, a protective plate can be retrofitted in the interior. This prevents direct contact with the refrigeration components so that the goods can be safely stored in the intended area.

**Height-adjustable feet**

The height-adjustable feet create the necessary clearance for easy cleaning under the appliance. With an individually adjustable height, they perfectly compensate for any unevenness on the floor.

**Grid shelf white**

If you need more storage space or want to separate stored products and have a better overview, Liebherr appliances can be equipped with additional grid shelves. Made of metal with a polypropylene coating, they are identical to the ones that come as standard in the appliances, offering the same corrosion-resistant and durable extra shelving.

**Digital input for electronic lock**

The digital input for the electronic lock allows Liebherr appliances to be integrated into existing external time and attendance or access control systems. When a voltage signal triggers the remote box, the electronic lock opens and allows access to the appliance. Possible applications include connection to access control systems or integration into goods management applications.

**Side-by-Side set white**

Using the Side-by-Side set, two appliances can be placed next to each other. The required gap between the appliances is maintained, and they are neatly connected by the cover strip. This ensures tidy installation and avoids any condensation or water between the appliances.

**Castors / Height-adjustable feet**

The sturdy castors facilitate transport and allow quick cleaning underneath and behind the appliance. A total of four castors including mounting accessories are supplied. Two of the castors also have a locking brake. The height-adjustable feet create the necessary clearance for easy cleaning under the appliance. With an individually adjustable height, they perfectly compensate for any unevenness on the floor.

**SmartModule**

SmartModule connects refrigerators and freezers in a network with Liebherr SmartMonitoring and allows you to use its extensive digital monitoring and documentation functions. In addition, appliances can be integrated into a customer's existing monitoring system via a local API. The small electronic unit with integrated LAN/WiFi is ready to use as soon as it is mounted on the back of the appliance.

**Long drawer**

Always keep a good overview of your stored products with this sturdy plastic drawer. With its ergonomic handle, the drawer is very easy for you to open, day in, day out.

Laboratory refrigerators and freezers and laboratory fridge-freezer combination with plastic inner liner**Glass shelf**

Additional shelves made of high-quality safety glass not only increase storage space but also make it easier to see the goods. They are ideal for storing smaller containers or materials. In addition, the shatterproof glass shelves are quick and easy to clean.

Side-by-side set white

Using the side-by-side set, two appliances can be placed next to each other. The required gap between the appliances is maintained, and they are neatly connected by the cover strip. This ensures tidy installation and avoids any condensation or water between the appliances.

Perforated metal shelf white

To ensure that even small items are stored securely in the refrigeration appliances, Liebherr has developed shallow perforated metal shelves specifically for this purpose. They are made of coated metal and designed for a maximum load of up to 45 kg. The perforation ensures unhindered air circulation throughout the storage space.

Laboratory refrigerators and freezers and laboratory fridge-freezer combination with spark-free interior**Glass shelf**

Additional shelves made of high-quality safety glass not only increase storage space but also make it easier to see the goods. They are ideal for storing smaller containers or materials. In addition, the shatterproof glass shelves are quick and easy to clean.

Stacking Kit

The stacking kit can be used to combine two refrigerators or freezers. This way, different temperature zones are available on a small surface area.

**Flexible scanner rail**

Scanner rails provide a perfect overview of the materials stored in the refrigerator. Thanks to their flexibility, they can be easily attached to the front of the grid shelves. With correspondingly marked paper cards, they make it easy to sort and find stored products.

Base grid white

With the sturdy base grid, you can also make the most of the appliance floor. The grid has an abrasion-resistant coating and protects the inner liner from scratches and other damage.

Pharmacy drawers

Optimal overview, easy access, high temperature stability: the practical organisational system made of cold-conducting aluminium comes with a transparent front, perforated base, flexible dividing walls and a ¾-extension drawer. Medicines, vaccines and other items can be quickly found – and the door closed again with minimal loss of cold air.

**Worktop**

Benefit from a larger work surface thanks to a robust worktop that is heat resistant up to 100 °C. This optional worktop, available as an accessory, is easy to install and raises your appliance by 3 cm so that it fits perfectly with 85-cm work tables. The integrated ventilation slits ensure excellent heat dissipation, even when installed flush to the wall.

Flexible scanner rail

Scanner rails provide a perfect overview of the materials stored in the refrigerator. Thanks to their flexibility, they can be easily attached to the front of the grid shelves. With correspondingly marked paper cards, they make it easy to sort and find stored products.

SmartModule

SmartModule connects refrigerators and freezers in a network with Liebherr SmartMonitoring and allows you to use its extensive digital monitoring and documentation functions. In addition, appliances can be integrated into a customer's existing monitoring system via a local API. The small electronic unit with integrated LAN/WiFi is ready to use as soon as it is mounted on the back of the appliance.

**Castors**

The sturdy castors facilitate transport and allow quick cleaning underneath and behind the appliance. A total of four castors including mounting accessories are supplied. Two of the castors also have a locking brake.

Worktop

Benefit from a larger work surface thanks to a robust worktop that is heat resistant up to 100 °C. This optional worktop, available as an accessory, is easy to install and raises your appliance by 3 cm so that it fits perfectly with 85-cm work tables. The integrated ventilation slits ensure excellent heat dissipation, even when installed flush to the wall.

Freestanding kit

The freestanding kit allows the appliance body to blend into furniture with an open side or top – for a smooth, easy-to-clean surface. Safe free-standing installation is also a possibility, by using the optional anti-tipping device.

**Long drawer**

Always keep a good overview of your stored products with this sturdy plastic drawer. With its ergonomic handle, the drawer is very easy for you to open, day in, day out.

Side-by-side set white

Using the side-by-side set, two appliances can be placed next to each other. The required gap between the appliances is maintained, and they are neatly connected by the cover strip. This ensures tidy installation and avoids any condensation or water between the appliances.

Castors / Height-adjustable feet

The sturdy castors facilitate transport and allow quick cleaning underneath and behind the appliance. A total of four castors including mounting accessories are supplied. Two of the castors also have a locking brake. The height-adjustable feet create the necessary clearance for easy cleaning under the appliance. With an individually adjustable height, they perfectly compensate for any unevenness on the floor.



Pharmaceutical refrigerators – medical refrigeration solutions with maximum safety

Medicines, vaccines, and samples that are sensitive to temperature must be stored under the most reliable conditions, ensuring maximum safety and compliance with stringent standards. This guarantees their availability whenever needed, 24/7.

Liebherr pharmaceutical refrigerators, compliant with DIN 13277, have been specifically designed to meet these exacting requirements. Featuring a dynamic cooling system, highly effective insulation, and precise temperature control, they guarantee reliable storage of sensitive substances and preparations. Visual and audible alarm systems provide additional safety.

The combination of maximum temperature stability, energy efficiency, robustness and ease of use lightens your daily workload – and saves you money in the long term because of the extremely low energy and operating costs.

Pharmaceutical refrigerators



Perfection-Serie

Perfection series

Pharmaceutical storage
HMFvh / HMTvh

Temperature stability	Refrigerators +/-2 K deviation from setpoint (model version H63 +/-3 K)
Storage safety	Visual and audible alarms Alarm relay Alarm test function +2 °C SafetyDevice function Alarm with battery backup (12 h) immediately upon power failure Alarm history with real-time clock and 10 events Integrated data logger PT1000 product sensor Min./max. temperature log Self-closing door at < 90° Custom alarm settings possible Electronic lock
Interfaces	Integrated LAN/WiFi Local API USB interface for reading the data logger
SmartMonitoring	SmartModule integrated
Features	2.4" touch & swipe colour display Individually adjustable maintenance timer Castors/adjustable feet as accessories, 75 cm wide appliances with castors as standard Evaporator cover (stops items freezing to inner liner) Sensor feedthrough Insulated and glass door models with vertical lighting Antimicrobial handle with opening mechanism
Energy consumption	Ultra-efficient
Compliance	Safety according to IEC 61010-2-011 Fulfils DIN 13277

Letters					Digits			
H	M	F	V	h	4	0	1	1
1	2	3	4	5	6 + 7	8	9	

1	Market segment	6 + 7	Gross volume*
H	Healthcare	15	150 litres
		40	400 litres
		55	550 litres
2	Temperature	8	Door variant
M	Medicine/pharmacy storage	0	Solid door or drawer
		1	Insulated glass door
3	Structural design	9	Number of doors/compartments
F	Freestanding/ upright bottom mount compressor	1	One
T	Freestanding under bench appliance		
4	Ventilation system		
v	Ventilated		
5	User interface (UI)		
h	Advanced UI		

* See the appliance description for exact volume.



The advantages at a glance

+2 °C SafetyDevice

If the temperature falls below +2 °C due to a malfunction while the temperature setting is at +5 °C or higher, the SafetyDevice takes control, stabilising the temperature, activating the alarm and protecting the contents from freezing.

Power failure alarm

If a malfunction occurs, an integrated battery provides a visual and audible alarm and takes over the power supply. As soon as the power is restored, the time of failure and the maximum temperature reached are displayed.



Vertical LED lighting

Vertical LED lighting provides uniform illumination throughout the interior, making it easy to locate items while also reducing energy costs.

LightAlarm

In the event of an uncontrolled temperature rise or other problems, the interior light of the appliance starts flashing. This quickly shows when action is needed.

Easy-to-clean interior

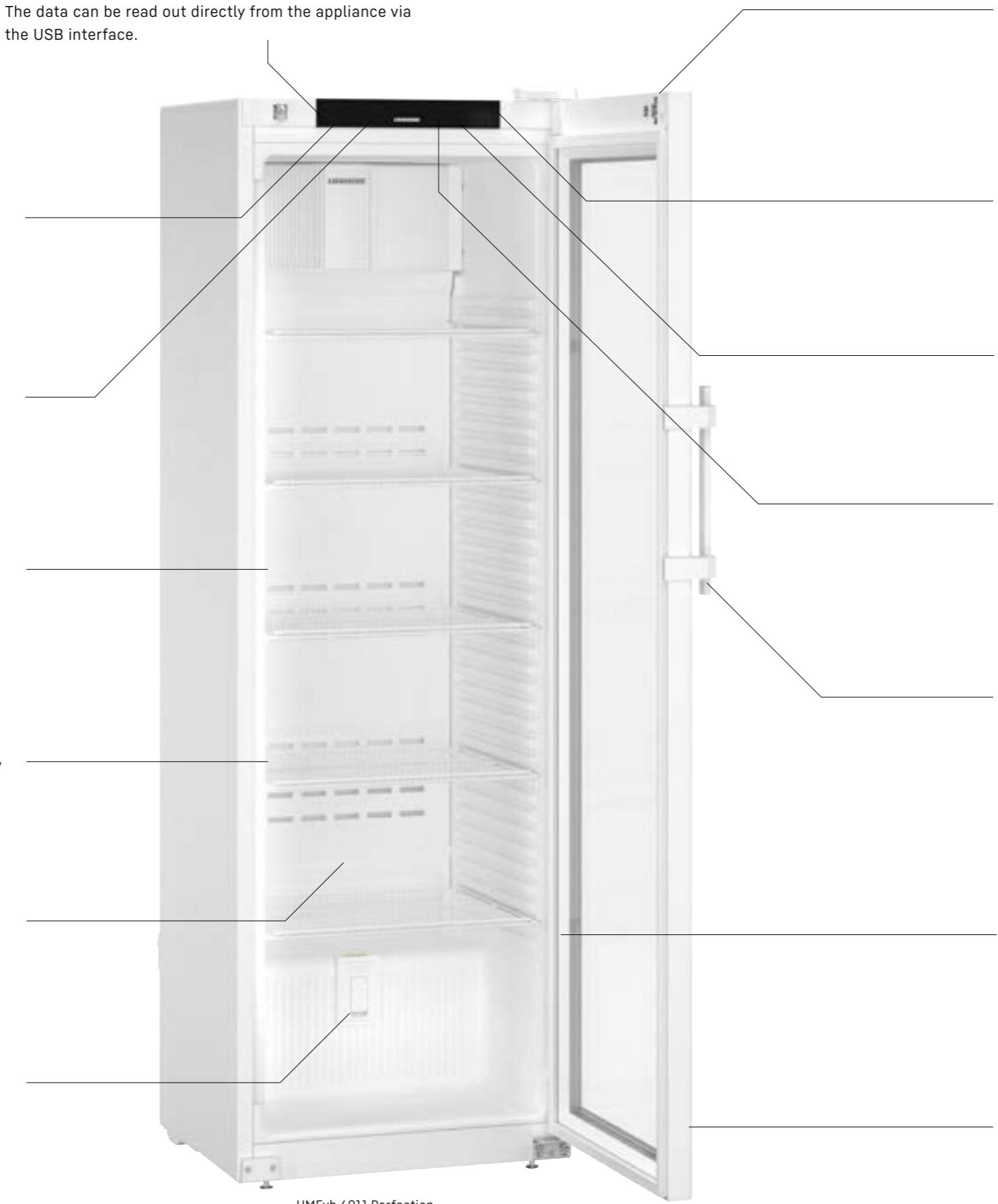
The inner liner made of fully recyclable, robust and odourless polystyrene is manufactured in one piece without joints. This makes it quick and easy to clean the large, rounded corners.

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.

Integrated data logger

The integrated logger records the temperature profile, alarm history and service information for up to five years. The data can be read out directly from the appliance via the USB interface.



HMFvh 4011 Perfection

SmartLock

To prevent products from accidentally entering circulation after an interruption in the cold chain, SmartLock automatically locks the door if there is an alarm. Only authorised persons can unlock it again.



SmartMonitoring

The cloud-based digital solution continuously documents temperatures with the help of external data loggers 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.

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.

Antimicrobial handle with opening mechanism

A benefit for users but a bane for germs: The easy-turn handle mechanism makes opening the door effortless. It contains special antimicrobial substances that reduce bacteria by up to 99.99%. Regular and time-consuming disinfection is not necessary. This means the appliance is extremely safe even if many people have access to it. *According to ISO 22196:2011



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 facilitate loading, unloading, and cleaning, the appliance door remains open when positioned at an angle greater than 90°. If the opening angle is less than 90°, it closes automatically for safety.



Pharmacy drawers

Optimal overview, easy access, high temperature stability: the practical organisational system made of cold-conducting aluminium comes with a transparent front, perforated base, flexible dividing walls and a $\frac{3}{4}$ -extension drawer. Medicines, vaccines and other items can be quickly found – and the door closed again with minimal loss of cold air.

Quality right down to the smallest detail



Electronic lock with remote control

Liebherr appliances can be securely locked with a PIN code. Locking and unlocking via remote control is also possible. This allows any number of users to lock and unlock one or more appliances without having to share a key.



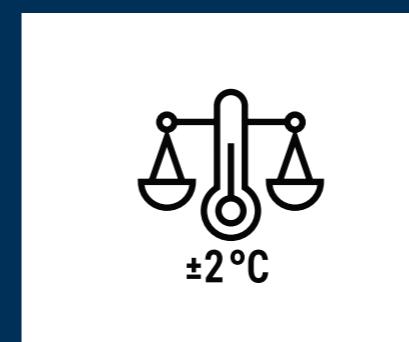
Grid shelf with pull-out stop

Stable, durable, allows air to circulate: the robust, corrosion-free wire shelves made from coated steel support even heavy goods. At the same time, they guarantee constant air circulation for temperature stability. A pull-out stop prevents the shelf from sliding out when removing items.



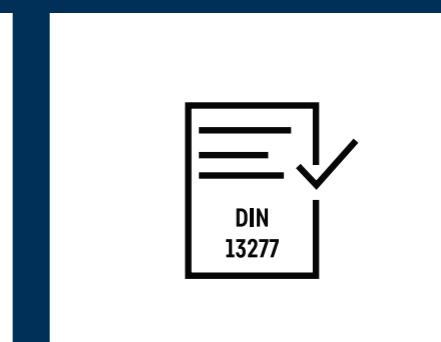
Ultra-efficient

Energy-efficient refrigerators and freezers help with ever increasing electricity prices. Liebherr fully utilises the savings potential of every component – from the compressor to the seal, to the lighting and electronics. The ultra-efficient appliances in the Perfection series for example demonstrates how this has a positive effect on your overall operating costs.



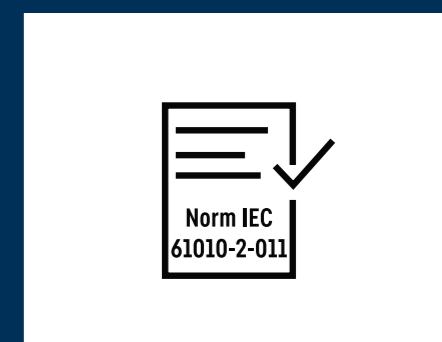
±2 °C temperature stability

Temperature fluctuations must be minimal to ensure that the quality of sensitive substances is preserved. Liebherr Pharmaceutical refrigerators have an impressive maximum deviation of just ± 2 °C from the set temperature. This not only maintains the storage climate, but also the value of your stored goods. (Model version H63 with temperature stability ± 3 K).



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

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.

**HMFvh 5511**

Perfection

Gross / net capacity	588 / 435 litre
Exterior dimensions in mm (w / d / h)	747 / 769 / 1793
Interior dimensions in mm (w / d / h)	600 / 536 / 1460
Energy consumption in 365 days ¹	360 kWh
Ambient temperature range	+10°C to +35°C
Heat output	475 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~/ 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 190 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+5°C
Gradient ² / max. fluctuation ³	3.3°C / 2.0°C
External cabinet finish	steel / white
Door material / colour	Insulated glass door with plastic frame / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution / Interface	integrated, removable / WiFi/LAN
Data logger	integrated, USB interface
Interior light	vertical LED light strip recessed in left wall with separate switch
Number of shelves / Adjustable shelves	6 / 5
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	600 / 536
Shelf loading / Maximum total load	60 kg / 300 kg
Castors	castors with brake at the front, fixed castors at the rear
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
DIN 13277	yes
Type of lock / Door hinges	electronic, with remote control / right, reversible on site
Gross / net weight	108.2 / 103.1 kg
Accessories	
Pharmacy drawer	9032868
White grid shelf	7113310
White base grid / Glass shelf	7113314 / 9291929
Scanner rail	7435210
Castors Ø 80 mm	9086926
Adjustable feet, 90 - 120 mm / 150 - 180 mm	9080022 / 9086924
Side-by-Side set in white	9017739
Additional remote controls	6123395
Digital input for electronic lock	9086958

HMFvh 5501

Perfection

Gross / net capacity	558 / 436 litre
Exterior dimensions in mm (w / d / h)	747 / 769 / 1793
Interior dimensions in mm (w / d / h)	600 / 536 / 1460
Energy consumption in 365 days ¹	171 kWh
Ambient temperature range	+10°C to +35°C
Heat output	246 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~/ 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 190 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+5°C
Gradient ² / max. fluctuation ³	2.2°C / 1.7°C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution / Interface	integrated, removable / WiFi/LAN
Data logger	integrated, USB interface
Interior light	LED lighting column, left
Number of shelves / Adjustable shelves	6 / 5
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	600 / 536
Shelf loading / Maximum total load	60 kg / 300 kg
Castors	castors with brake at the front, fixed castors at the rear
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
DIN 13277	yes
Type of lock / Door hinges	electronic, with remote control / right, reversible on site
Gross / net weight	91.1 / 87.4 kg
Accessories	
Pharmacy drawer	9032868
White grid shelf	7113310
White base grid / Glass shelf	7113314 / 9291929
Scanner rail	7435210
Castors Ø 80 mm / Ø 100 mm	9086926
Adjustable feet, 90 - 120 mm / 150 - 180 mm	9080022 / 9086924
Side-by-Side set in white	9017739
Additional remote controls	6123395
Digital input for electronic lock	9086958

**HMFvh 4011**

Perfection

Gross / net capacity	420 / 297 litre
Exterior dimensions in mm (w / d / h)	597 / 654 / 1884
Interior dimensions in mm (w / d / h)	460 / 423 / 1660
Energy consumption in 365 days ¹	389 kWh
Ambient temperature range	+10°C to +35°C
Heat output	463 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~/ 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 180 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+5°C
Gradient ² / max. fluctuation ³	3.0°C / 2.4°C
External cabinet finish	steel / white
Door material / colour	Insulated glass door with plastic frame / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution / Interface	integrated, removable / WiFi/LAN
Data logger	integrated, USB interface
Interior light	vertical LED light strip recessed in left wall with separate switch
Number of shelves / Adjustable shelves	6 / 5
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	460 / 423
Shelf loading / Maximum total load	45 kg / 225 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
DIN 13277	yes
Type of lock / Door hinges	electronic, with remote control / right, reversible on site
Gross / net weight	86.7 / 82.2 kg
Accessories	
Pharmacy drawer	9032867
White grid shelf	7113308
White base grid / Glass shelf	7113312 / 9293493
Scanner rail	9029022
Castors Ø 80 mm / Ø 100 mm	7435208
Adjustable feet, 90 - 120 mm / 150 - 180 mm	9080022 / 9086924
Side-by-Side set in white	9006786
Additional remote controls	6123395
Digital input for electronic lock	9086958

**HMFvh 4001**

Perfection

Gross / net capacity	394 / 295 litre
Exterior dimensions in mm (w / d / h)	597 / 654 / 1884
Interior dimensions in mm (w / d / h)	460 / 423 / 1660
Energy consumption in 365 days ¹	172 kWh
Ambient temperature range	+10°C to +35°C
Heat output	250 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / frequency	220 - 240V~/ 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 180 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+5°C
Gradient ² / max. fluctuation ³	2.4°C / 2.2°C
External cabinet finish	steel / white
Door material / colour	steel / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution / Interface	integrated, removable / WiFi/LAN
Data logger	integrated, USB interface
Interior light	LED lighting column, left
Number of shelves / Adjustable shelves	6 / 5
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	460 / 423
Shelf loading / Maximum total load	45 kg / 225 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
DIN 13277	yes
Type of lock / Door hinges	electronic, with remote control / right, reversible on site
Gross / net weight	72 / 66.9 kg
Accessories	
Pharmacy drawer	9032867
White grid shelf	7113308
White base grid / Glass shelf	7113312 / 9293493
Scanner rail	9029022
Castors Ø 80 mm / Ø 100 mm	7435208
Adjustable feet, 90 - 120 mm / 150 - 180 mm	9080022 / 9086924
Side-by-Side set in white	9006786
Additional remote controls	6123395
Digital input for electronic lock	9086958



Vertical LED lighting

Vertical LED lighting ensures optimal illumination throughout the full interior of the appliance. With a clear view of all levels, the required item is easily accessible, the door can be quickly closed, and the interior temperature remains stable. This not only saves time when searching for items but also reduces energy costs.



Pharmacy drawers

Optimal overview, easy access, high temperature stability: the practical organisational system made of cold-conducting aluminium comes with a transparent front, perforated base, flexible dividing walls and a $\frac{3}{4}$ -extension drawer. Medicines, vaccines and other items can be quickly found – and the door closed again with minimal loss of cold air.

Gross / net capacity
Exterior dimensions in mm (w / d / h)
Interior dimensions in mm (w / d / h)
Energy consumption in 365 days¹
Ambient temperature range
Heat output / Refrigerant
Sound power level
Voltage / frequency
Connection rating / Rated consumption watts
Cooling system / Defrost
Temperature range
Gradient² / max. fluctuation³
External cabinet finish
Door material / colour
Internal liner material
Type of control
Power failure alarm
Fault: warning signal / Volt-free alarm contact
SmartMonitoring compatible / Connectivity type
Connectivity solution / Interface
Data logger
Interior light
Number of shelves / Adjustable shelves
Number of drawers / Shelf material
Usable shelf area in mm (w / d)
Shelf loading / Maximum total load
Castors
Handle
Access ports / DIN 13277
Type of lock
Door hinges
Gross / net weight
Accessories
White grid shelf
White base grid / Glass shelf
Perforated metal shelf, white / Scanner rail
Castors Ø 80 mm / Ø 100 mm
Adjustable feet, 90 - 120 mm / 150 - 180 mm
Side-by-Side set in white
Additional remote controls / Digital input for electronic lock

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

Pharmaceutical refrigerators compliant with DIN 13277 with organisational system



HMFvh 5511 ver. H63

Perfection

588 / 361 litre
747 / 769 / 1793
600 / 536 / 1460
400 kWh
179 kWh
+10°C to +35°C
475 kJ/h / R 600a
49 dB(A)
220 - 240V~ / 50/60 Hz
2.0 A / 190 W
forced-air / automatic
+5°C
3.1°C / 2.6°C
steel / white
Insulated glass door with plastic frame / white
commercial grade moulded polystyrene
2.4" touch & swipe colour display
immediately upon power failure for at least 12 hrs
visual and audible / yes
yes / SmartModule
integrated, removable / WiFi/LAN
integrated, USB interface
vertical LED light strip recessed in left wall with separate switch
1/1
7 / wire shelves plastic-coated
550 / 520
50 kg / 300 kg
castors with brake at the front, fixed castors at the rear
antimicrobial handle with opening mechanism
1 x Ø 10 mm / yes
electronic, with remote control
right, reversible on site
122.9 / 117.4 kg
7113310
7113314 / 9291929
- / 7435210
9086926 / -
9080022 / 9086924
9017739
6123395 / 9086958

HMFvh 5501 ver. H63

Perfection

558 / 361 litre
747 / 769 / 1793
600 / 536 / 1460
409 kWh
+10°C to +35°C
246 kJ/h / R 600a
49 dB(A)
220 - 240V~ / 50/60 Hz
2.0 A / 190 W
forced-air / automatic
+5°C
2.8°C / 2.3°C
steel / white
steel / white
commercial grade moulded polystyrene
2.4" touch & swipe colour display
immediately upon power failure for at least 12 hrs
visual and audible / yes
yes / SmartModule
integrated, removable / WiFi/LAN
integrated, USB interface
LED lighting column, left
1/1
7 / wire shelves plastic-coated
550 / 520
50 kg / 300 kg
castors with brake at the front, fixed castors at the rear
antimicrobial handle with opening mechanism
1 x Ø 10 mm / yes
electronic, with remote control
right, reversible on site
107 / 101 kg
7113310
7113314 / 9291929
- / 7435210
9086926 / -
9080022 / 9086924
9017739
6123395 / 9086958

HMFvh 4011 ver. H63

Perfection

420 / 239 litre
597 / 654 / 1884
460 / 423 / 1660
409 kWh
+10°C to +35°C
463 kJ/h / R 600a
49 dB(A)
220 - 240V~ / 50/60 Hz
2.0 A / 180 W
forced-air / automatic
+5°C
4.1°C / 2.2°C
steel / white
steel / white
commercial grade moulded polystyrene
2.4" touch & swipe colour display
immediately upon power failure for at least 12 hrs
visual and audible / yes
yes / SmartModule
integrated, removable / WiFi/LAN
integrated, USB interface
vertical LED light strip recessed in left wall with separate switch
1/1
8 / wire shelves plastic-coated
400 / 420
50 kg / 225 kg
7113308
7113312 / 9293493
9029022 / 7435208
9086926 / 9080023
9080022 / 9086924
9006786
6123395 / 9086958

HMFvh 4001 ver. H63

Perfection

394 / 239 litre
597 / 654 / 1884
460 / 423 / 1660
172 kWh
+10°C to +35°C
250 kJ/h / R 600a
49 dB(A)
220 - 240V~ / 50/60 Hz
2.0 A / 180 W
forced-air / automatic
+5°C
4.9°C / 2.6°C
steel / white
steel / white
commercial grade moulded polystyrene
2.4" touch & swipe colour display
immediately upon power failure for at least 12 hrs
visual and audible / yes
yes / SmartModule
integrated, removable / WiFi/LAN
integrated, USB interface
LED lighting column, left
1/1
8 / wire shelves plastic-coated
400 / 420
50 kg / 225 kg
7113308
7113312 / 9293493
9029022 / 7435208
9086926 / 9080023
9080022 / 9086924
9006786
6123395 / 9086958

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.

**HMTvh 1511**

Perfection

Gross / net capacity	137 / 102 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	450 / 460 / 620
Energy consumption in 365 days ¹	187 kWh
Ambient temperature range	+10°C to +35°C
Heat output	170 kJ/h
Refrigerant	R 600a
Sound power level	44 dB(A)
Voltage / frequency	220 - 240V~ / 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 60 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+5°C
Gradient ² / max. fluctuation ³	3.6°C / 2.9°C
External cabinet finish	steel / white
Door material / colour	Insulated glass door with plastic frame / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal / Volt-free alarm contact	visual and audible / yes
SmartMonitoring compatible / Connectivity type	yes / SmartModule
Connectivity solution	integrated, removable
Interface	WiFi / LAN
Data logger	integrated, USB interface
Interior light	vertical LED light strip recessed in left wall with separate switch
Adjustable shelves / Shelf material	3 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	450 / 425
Shelf loading / Maximum total load	45 kg / 180 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 12 mm
Type of lock	electronic, with remote control
Door hinges	right, reversible on site
Gross / net weight	45.6 / 43.6 kg
Accessories	
Worktop, white	9876118
White grid shelf	7113408
Pharmacy drawer	9876137
Perforated metal shelf, white	7746588
Castors	9904819
Adjustable legs	9906105
Scanner rail	7401607
Stacking kit, white	9518628
Side-by-Side set in white	9031901
Additional remote controls	6123395
Digital input for electronic lock	9086958

HMTvh 1501

Perfection

Gross / net capacity	134 / 102 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	450 / 440 / 620
Energy consumption in 365 days ¹	111 kWh
Ambient temperature range	+10°C to +35°C
Heat output	130 kJ/h
Refrigerant	R 600a
Sound power level	44 dB(A)
Voltage / frequency	220 - 240V~ / 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 50 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+5°C
Gradient ² / max. fluctuation ³	3.7°C / 3.4°C
External cabinet finish	steel / white
Door material / colour	Insulated glass door with plastic frame / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal	visual and audible / yes
SmartMonitoring compatible	yes / SmartModule
Connectivity solution	integrated, removable
Interface	WiFi / LAN
Data logger	integrated, USB interface
Interior light	LED lighting column, left
Adjustable shelves / Shelf material	3 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	450 / 425
Shelf loading / Maximum total load	45 kg / 180 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 12 mm
Type of lock	electronic, with remote control
Door hinges	right, reversible on site
Gross / net weight	37.2 / 35.3 kg
Accessories	
Worktop, white	9876118
White grid shelf	7113408
Pharmacy drawer	9876137
Perforated metal shelf, white	7746588
Castors	9904819
Adjustable legs	9906105
Scanner rail	7401607
Stacking kit, white	9518628
Side-by-Side set in white	9031901
Additional remote controls	6123395
Digital input for electronic lock	9086958

**HMTvh 1511 ver. H63**

Perfection

Gross / net capacity	137 / 82 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	450 / 460 / 620
Energy consumption in 365 days ¹	187 kWh
Ambient temperature range	+10°C to +35°C
Heat output	170 kJ/h
Refrigerant	R 600a
Sound power level	44 dB(A)
Voltage / frequency	220 - 240V~ / 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 60 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+5°C
Gradient ² / max. fluctuation ³	3.7°C / 2.9°C
External cabinet finish	steel / white
Door material / colour	Insulated glass door with plastic frame / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
SmartMonitoring compatible	yes
Connectivity type	SmartModule
Connectivity solution	integrated, removable
Interface	WiFi / LAN
Data logger	integrated, USB interface
Interior light	vertical LED light strip recessed in left wall with separate switch
Usable shelf area in mm (w / d)	390 / 370
Shelf loading / Maximum total load	25 kg / 75 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 12 mm
Type of lock	electronic, with remote control
Door hinges	right, reversible on site
Gross / net weight	48 / 46.4 kg
Accessories	
Worktop, white	9876118
White grid shelf	7113408
Castors	9904819
Adjustable legs	9906105
Scanner rail	7401607
Stacking kit, white	9518628
Side-by-Side set in white	9031901
Additional remote controls	6123395
Digital input for electronic lock	9086958

**HMTvh 1501 ver. H63**

Perfection

Gross / net capacity	134 / 82 litre
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
Interior dimensions in mm (w / d / h)	450 / 440 / 620
Energy consumption in 365 days ¹	111 kWh
Ambient temperature range	+10°C to +35°C
Heat output	130 kJ/h
Refrigerant	R 600a
Sound power level	44 dB(A)
Voltage / frequency	220 - 240V~ / 50/60 Hz
Connection rating / Rated consumption watts	2.0 A / 60 W
Cooling system / Defrost	forced-air / automatic
Temperature range	+5°C
Gradient ² / max. fluctuation ³	3.7°C / 3.4°C
External cabinet finish	steel / white
Door material / colour	Insulated glass door with plastic frame / white
Internal liner material	commercial grade moulded polystyrene
Type of control	2.4" touch & swipe colour display
Power failure alarm	immediately upon power failure for at least 12 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
SmartMonitoring compatible	yes
Connectivity type	SmartModule
Connectivity solution	integrated, removable
Interface	WiFi / LAN
Data logger	integrated, USB interface
Interior light	LED lighting column, left
Adjustable shelves / Shelf material	3 / wire shelves plastic-coated
Usable shelf area in mm (w / d)	390 / 370
Shelf loading / Maximum total load	25 kg / 75 kg
Handle	antimicrobial handle with opening mechanism
Access ports	1 x Ø 12 mm
Type of lock	electronic, with remote control
Door hinges	right, reversible on site
Gross / net weight	39.9 / 38 kg
Accessories	
Worktop, white	9876118
White grid shelf	7113408
Castors	9904819
Adjustable legs	9906105
Scanner rail	7401607
Stacking kit, white	9518628
Side-by-Side set in white	9031901
Additional remote controls	6123395
Digital input for electronic lock	9086958

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.

Pharmaceutical refrigerators compliant with DIN 13277

**Glass shelf**

Additional shelves made of high-quality safety glass not only increase storage space but also make it easier to see the goods. They are ideal for storing smaller containers or materials. In addition, the shatterproof glass shelves are quick and easy to clean.

Grid shelf white

If you need more storage space or want to separate stored products and have a better overview, Liebherr appliances can be equipped with additional grid shelves. Made of metal with a polypropylene coating, they are identical to the ones that come as standard in the appliances and you benefit from the same corrosion-resistant and durable extra shelving.

Base grid white

With the sturdy base grid, you can also make the most of the appliance floor. The grid has an abrasion-resistant coating and protects the inner liner from scratches and other damage.

Pharmaceutical refrigerators compliant with DIN 13277

**Flexible scanner rail**

Scanner rails provide a perfect overview of the materials stored in the refrigerator. Thanks to their flexibility, they can be easily attached to the front of the grid shelves. With correspondingly marked paper cards, they make it easy to sort and find stored products.

Castors

The sturdy castors facilitate transport and allow quick cleaning underneath and behind the appliance. A total of four castors including mounting accessories are supplied. Two of the castors also have a locking brake.

Side-by-Side set white

Using the side-by-side set, two appliances can be placed next to each other. The required gap between the appliances is maintained, and they are neatly connected by the cover strip. This ensures tidy installation and avoids any condensation or water between the appliances.

**Height-adjustable feet**

The height-adjustable feet create the necessary clearance for easy cleaning under the appliance. With an individually adjustable height, they perfectly compensate for any unevenness on the floor.

Special locking

To protect the stored products from unwanted access, up to 10 additional special locks are available as accessories for the refrigerators and freezers. This way, different locks can be installed on several appliances so that only the people responsible for a particular appliance have access to it.

Remote control electronic door lock

With additional remote controls for refrigerators and freezers with electronic door locks, you can allow other people to access stored goods while retaining full control at all times. For example, you can individually control whether renewed access should be granted or denied to a person by activating or deactivating their remote control.

**Pharmacy drawers**

Optimal overview, easy access, high temperature stability: the practical organisational system made of cold-conducting aluminium comes with a transparent front, perforated base, flexible dividing walls and a $\frac{1}{4}$ -extension drawer. Medicines, vaccines and other items can be quickly found – and the door closed again with minimal loss of cold air.

Worktop

Benefit from a larger work surface thanks to a robust worktop that is heat resistant up to 100 °C. This optional worktop, available as an accessory, is easy to install and raises your appliance by 3 cm so that it fits perfectly with 85-cm work tables. The integrated ventilation slits ensure excellent heat dissipation, even when installed flush to the wall.

**Stacking kit**

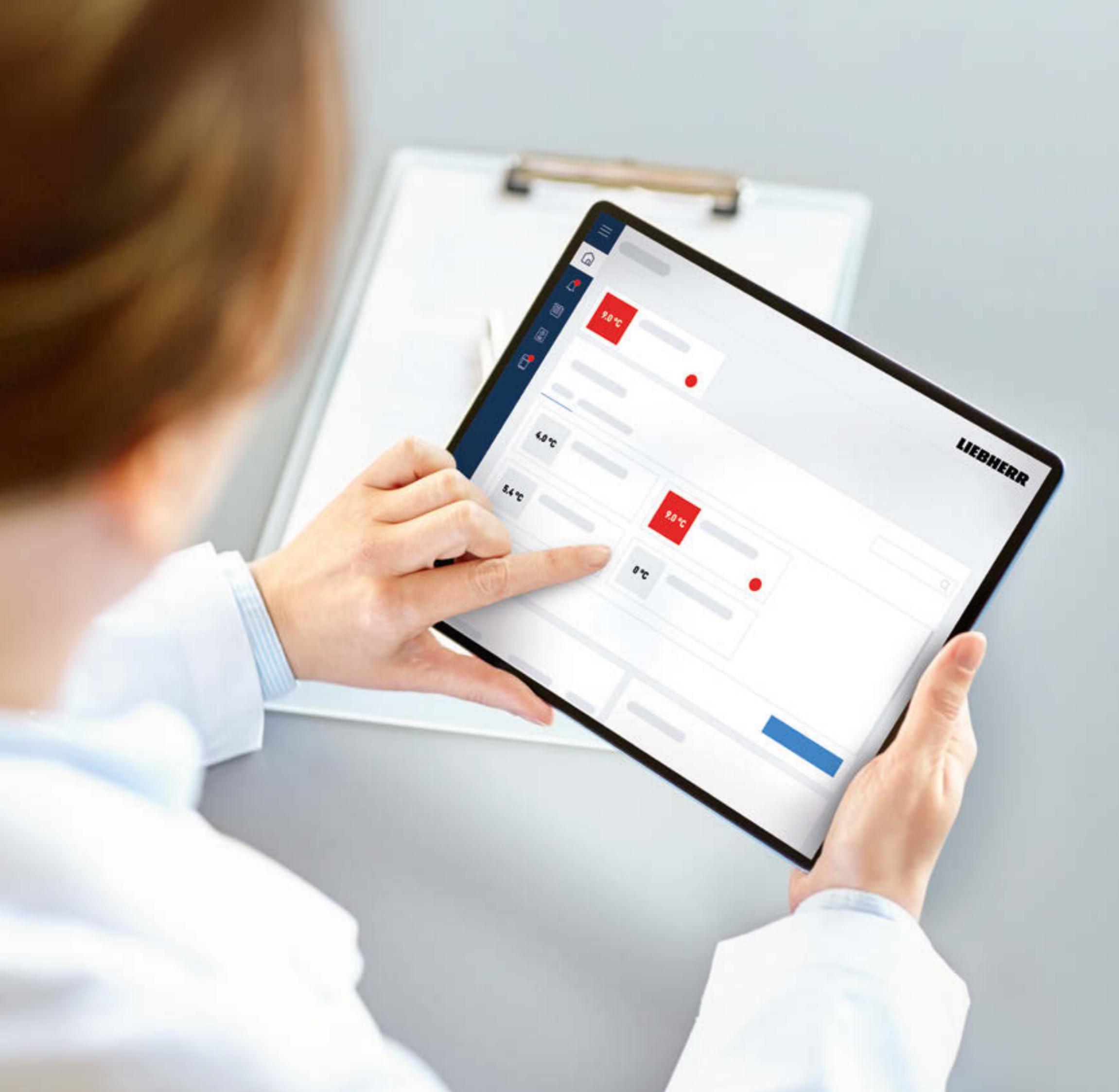
The stacking kit can be used to combine two refrigerators or refrigerators and freezers. This way, different temperature zones are available on a small surface area.

Digital input for electronic lock

The digital input for the electronic lock allows Liebherr appliances to be integrated into existing external time and attendance or access control systems. When a voltage signal triggers the remote box, the electronic lock opens and allows access to the appliance. Possible applications include connection to access control systems or integration into goods management applications.

Perforated metal shelf white

To ensure that even small items are stored securely in the refrigeration appliances, Liebherr has developed shallow perforated metal shelves specifically for this purpose. They are made of coated metal and designed for a maximum load of up to 45 kg. The perforation ensures unhindered air circulation throughout the storage space.



SmartMonitoring saves you work. And worry.

In medicine and research, precision and safety are of the utmost priority – and this also applies to storing sensitive substances. Laboratory samples, vaccines and medicines that need refrigeration require constant conditions with precisely defined temperature ranges. The strict specifications on the storage of medicines place great demands on staff.

SmartMonitoring significantly eases the workload for these time-consuming and laborious tasks. The digital monitoring solution automatically monitors and fully documents all the relevant temperature data and appliance data for you and alerts you immediately if any deviations occur. This allows you to concentrate on what matters most: your research, your customers, or your patients.

Maximum safety, always in view

The combination of a professional Liebherr appliance and intelligent SmartMonitoring software guarantees optimal protection for sensitive substances. The cloud-based solution monitors and documents temperature stability round the clock and alerts you immediately if deviations occur. Preventing problems before they arise is the definition of maximum safety.



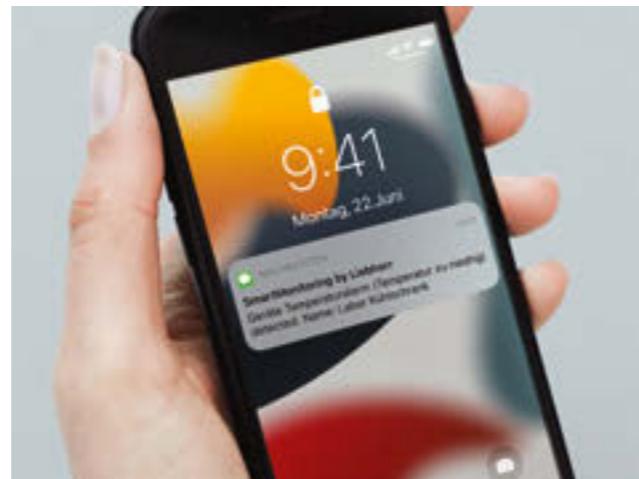
Continuous temperature monitoring

SmartMonitoring constantly checks the storage temperature, even for multiple appliances at different locations. This way, the digital monitoring solution ensures precise temperature stability at all times.



SmartMonitoring dashboard – everything at a glance

You can view temperature data, alarm notifications and appliance statuses at any time on the web-based SmartMonitoring dashboard, even for multiple appliances at different locations. With maximum safety always in view, you can relax and concentrate fully on your work.



Immediate alerts in the event of deviations

If there are deviations in the storage temperature, you are immediately alerted by email, text message, or phone. This way, you can react before problems arise. If an incident occurs, the alarm list will show the minimum and maximum values so that you can assess any potential for damage.

Well protected in all situations with the right alarm

If the appliance is accidentally switched off or disconnected from the power supply or the internet connection drops, SmartMonitoring alerts you immediately.

In addition, you can individually set temperature limits via SmartMonitoring, giving you time to react even earlier if necessary.

Complete documentation without time-consuming paperwork

Documenting temperature has never been so easy: create any reports that you need or let these be created automatically. All reports are stored for up to 12 months and can also be emailed to you automatically. This lightens your daily workload and helps you to demonstrate compliance.

Maximum safety and convenience with SmartMonitoring

Enjoy the advantages of Liebherr's digital monitoring solution:

- Optimal protection of your valuable products by monitoring a constant, precise storage temperature
- Fully documented proof of temperature compliance
- Prevention of damage and loss of quality thanks to reliable alarm systems
- More time for you to focus on your work by eliminating time-consuming checks and documentation

External data loggers enable universal expansion of your SmartMonitoring solution

To efficiently expand the SmartMonitoring range, Liebherr appliances that were not previously compatible with SmartMonitoring and even non-Liebherr appliances can now be monitored with SmartMonitoring by integrating external data loggers.

The different data logger types reliably monitor temperatures, door openings, and product, appliance, room and air temperatures. There is a data logger suitable for monitoring at ultra-low temperatures.

Take advantage of a universal product solution that offers you additional flexibility and maximum reliability.

The **availability** of SmartMonitoring varies in different countries.

If SmartMonitoring isn't available in your country yet, get in contact with us.

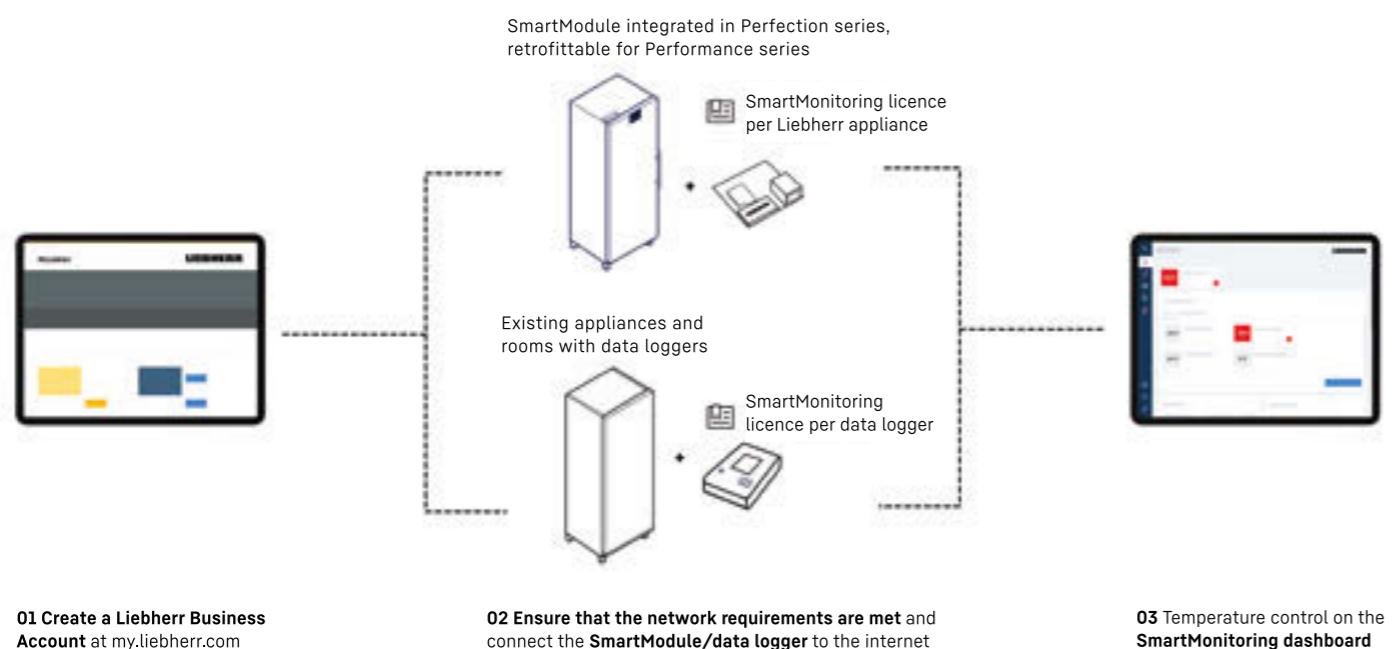


Find out more about
SmartMonitoring here:
home.liebherr.com/smartmonitoring

SmartMonitoring – it's that easy to be on the safe side

There are various ways to enjoy all of the benefits of the digital monitoring solution. One thing they all have in common is that they are simple and convenient. Liebherr will be happy to help you take your first steps towards maximum safety.

Lightening your workload right from the very start.



Get your licence to chill.

With the licence, you can take full advantage of the professional SmartMonitoring solutions from Liebherr. This includes all the basic functions such as monitoring, documentation and email alerts.

- 36-month term from activation
- No automatic extension
- One licence per monitored appliance (fridge/freezer)
- Authorisation for any number of users
- User and appliance management (role-based)
- Additional alerts via text message and phone optionally available

Register your fridge or freezer now and get a free trial licence for six months.



Licence key 36 months (7080648)

SmartMonitoring text message/voice call company flat rate 36 months (7080652)



Data logger, three-channel (6145365)

For reliable storage at low temperatures, the ULT data logger has a temperature sensor for temperatures as low as -200 °C. Temperature data is transmitted directly to the SmartMonitoring dashboard via a WiFi connection. A SmartMonitoring licence (available separately) is required to use an ULT data logger.



SmartModule (6145269)

The SmartModule connects Liebherr appliances in the Performance series to SmartMonitoring. The small unit with integrated LAN/WiFi is ready to use as soon as it is mounted on the back of the appliance.



Data logger, ULT (6145367)

For reliable storage at low temperatures, the ULT data logger has a temperature sensor for temperatures as low as -200 °C. Temperature data is transmitted directly to the SmartMonitoring dashboard via a WiFi connection. A SmartMonitoring licence (available separately) is required to use an ULT data logger.



Data logger, temperature (6145363)

The temperature data logger reliably records temperature data and transmits it directly to the SmartMonitoring via a WiFi connection.

“SmartMonitoring takes care of refrigeration for us. It’s one less thing to worry about.”



The outpatient centre of Söflingen day clinic treats around 30 patients every day in three operating theatres, which includes the use of medication. To ensure their effectiveness, reliable cooling of the medicines must be guaranteed at all times. SmartMonitoring takes over this time-consuming and stressful task at the clinic.

The pharmaceutical fridge combined with SmartMonitoring from Liebherr lightened the workload as soon as it was installed.

Complex and time-consuming tasks that SmartMonitoring performs at Söflingen day clinic:

1. Monitoring the set temperature
2. Sending alarms via email, text message or phone if temperature fluctuations occur
3. Documentation of the storage conditions and clear presentation of all relevant data in SmartMonitoring
4. Ensuring that the stored medicines are refrigerated and are always available for use

“We love SmartMonitoring because it lets us concentrate on what really matters: emergency medicine.”



The German Red Cross has nine ambulance stations in Ulm and Heidenheim, with 400 employees and 50 vehicles. The medicines have to be kept refrigerated with maximum safety to be constantly available for use in an emergency. This is ensured by reliable pharmaceutical refrigerators as well as SmartMonitoring from Liebherr, which guarantees maximum storage safety at all the sites.

SmartMonitoring is in use day and night for safe storage and to lighten the workload at the ambulance station in Ulm:

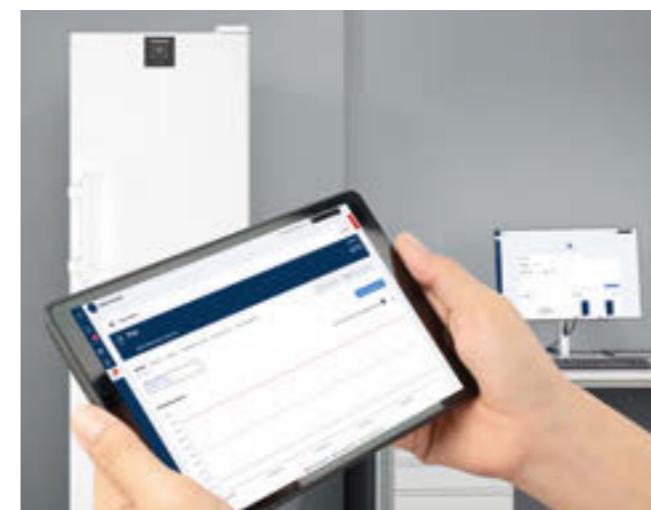
1. Continuously monitoring temperature stability
2. Reports any temperature deviations by email, text message or phone call
3. Automatically documenting and generating reports on all relevant data
4. User-friendly presentation of the data on the dashboard



Watch the case study video for more information

Dr. Jana Wichtmann, manager of the Söflingen day clinic

“When the fridge arrived, a team came along to set everything up. And it all works perfectly!”



Watch the case study video for more information

Lars Grau, Head of Materials management and Medical devices

“SmartMonitoring makes it possible to incorporate several ambulance stations in the system and monitor them all from one place.”



Our catalogue programme

Liebherr commercial appliances can be found at specialist retailers where providing first-class service and expert advice are their top priorities.

You can find an overview of other Liebherr appliances in our catalogues.

Available in stores or at home.liebherr.com.



BIM data now available

The cooperation between Liebherr-Hausgeräte and Specifi® gives planners and dealers worldwide access to a digital Liebherr appliances library with BIM models for the food service and scientific industries.

Compatible with AutoCAD® and Revit.

home.liebherr.com/bimdata



For more information about our technical specifications, go to: home.liebherr.com/scientifichealthcare

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