

Scientific and Healthcare

Next-level cooling solutions

LIEBHERR

Refrigeration and freezing



For more information about the Scientific & Healthcare warranty go to: home.liebherr.com/warranty



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

YouTube Scientific Playlist:





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.

For example, the network connection of refrigerators and freezers 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 characterizes Liebherr pays off in many ways. On the following pages, you can find out how research and healthcare can benefit from our complete solutions.

REFRIGERATORS

HIGH PERFORMANCE

UPRIGHTS

+3 °C to +16 °C



SRFvh 5501
19.7 cu.ft
557 l

SRFvh 5511
20.8 cu.ft
589 l

UNDERCOUNTER

+3 °C to +16 °C



SRTvh 1501
4.7 cu.ft
133 l

SRTvg 1501
4.7 cu.ft
133 l

SRTvg 1511
4.8 cu.ft
136 l

FLAMMABLE MATERIAL STORAGE

+3 °C to +16 °C



SRFfg 5501
19.7 cu.ft
558 l

SRFfg 3501
2.1 cu.ft
342 l

SRTfg 1501
4.0 cu.ft
113 l

COMBINATION

+3°C to +16°C / -9°C to -30°C



SCFvh 4032
7 cu. ft (9.9 / 3.8)
388 l (280 / 110)

-2°C to +16°C (solid door) / 0°C to +16°C (glass door)



SRPvh 1402
48.2 cu.ft
1,391 l

SRPvh 1412
50.1 cu.ft
1,418 l

SRPvh 8401
30.2 cu.ft
855 l

SRPvh 8411
31.3 cu.ft
886 l

SRPvh 6501
21.3 cu.ft
603 l

SRPvh 6511
22.2 cu.ft
628 l

FREEZERS

HIGH PERFORMANCE

UPRIGHT

-10 °C to -35 °C



SFFvh 5501
19 cu.ft
538 l

UNDERCOUNTER

-9 °C to -30 °C



SFTsg 1501
3.6 cu.ft
102 l

FLAMMABLE MATERIAL STORAGE

-9 °C to -30 °C



SFFfg 5501
17.6 cu.ft
499 l

SFTfg 1501
3.6 cu.ft
102 l

ULTRA LOW -86°C

-40 °C to -86 °C



SUFsg7001
25.7 cu.ft
728 l

SUFsg5001
17.3 cu.ft
490 l

-9 °C to -35 °C



SFPvh 1402
48.2 cu.ft
1,364 l

SFPvh 8401
30.2 cu.ft
855 l

SFPvh 6501
21.3 cu.ft
603 l



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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.



Earthmoving



Material handling



Specialist civil engineering



Mining



Mobile and crawler cranes



Tower Cranes



Concrete technology



Maritime cranes



Aerospace and transportation systems



Gear technology and automation systems



Components



Hotels



Refrigerators and freezers

The Liebherr Group

Liebherr-Hausgeraete GmbH

For seven decade, Liebherr-Hausgeraete GmbH has been specializing 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 residential and professional use. Thanks to their freshness technologies and high-quality materials, the residential 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 portfolio

Liebherr is one of the world's biggest construction machine manufacturers and provides high-quality, user-oriented products and services. Its product portfolio includes earthmoving machinery, material handling technology, deep foundation machines, 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.

Customized solutions and maximum customer value

Liebherr solutions are characterized 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 more than 70 years, we have been offering high-quality appliances for private and commercial use that meet 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 specializing 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.



Cleverly built for maximum safety

Sensitive samples, research materials and preparations allow no room for error with refrigeration. Reliability is crucial. And that's exactly what Liebherr stands for. Liebherr professional appliances have been specifically developed for 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.



Tested down to the finest detail – and beyond.

From conception through to development and production to 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 at your side – 24 hours a day, 365 days a year.

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 responsibility

Responsible use of our resources is our objective and continuous improvement throughout the product lifecycle is our long-term aim.

This is why we continually develop more environmentally friendly methods for manufacturing more sustainable products – all with the familiar Liebherr quality. As well as high energy efficiency, we put a special focus on durability and ensuring that spare parts are available for at least ten years.

Conscientiously developed

We take every aspect of sustainability into account when designing our products. Our product responsibility begins during the development of the appliances and continues with the careful organization of our production and supply chains. This means the correct choice of materials with regard to recycling as well as minimizing the use of energy during production are important factors. During the use phase our almost maintenance-free appliances are characterized by very low energy consumption and low operating costs.

Naturally refrigerated

We were the first to convert our complete range of refrigerators to CFC-free refrigerants and blowing agents. We now only use the natural refrigerants R600, R290 and R170. These are specially designed for highly efficient compressors and also result in lower energy consumption and electricity costs.

Responsibly manufactured

We also make sure we use resources responsibly when manufacturing our appliances. Advanced processes are used to recycle the energy released during production for heating buildings. We also purify the water after the manufacturing process to make sure that it is free of pollutants.



Europe-wide certification

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

Our path to the future

- recyclable product design
- materials able to be separated
- reuse of materials

- maximum energy efficiency
- maximum durability
- simple repair
- optimal storage conditions



- more renewable materials
- more recycled materials
- fewer environmentally harmful raw materials

- lower energy consumption
- more renewable energies
- less waste

The Liebherr factor:

Environmentally conscious development and production:

- Appliances with very low energy consumption
- Natural refrigerant
- Resource-saving manufacturing processes
- European sites are fully certified
- Silver medal from EcoVadis

Choose refrigeration and freezing from the professionals

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

Five good reasons for our outstanding performance.



Reliable temperature stability

Liebherr professional appliances are characterized by outstanding temperature stability. Sensitive vaccines, preparations, samples and medicines are cooled to precise, constant temperatures – even when there are extreme climatic conditions.



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.



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.



Sustainability and economy

Our refrigerators and freezers only use natural refrigerants and are characterized 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 the various standards, norms and directives on storage quality, hygiene and safety.



Stable temperature – constant quality

Liebherr appliances offer maximum reliability for storing sensitive substances by ensuring constant temperatures. 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 $\pm 3^\circ\text{C}$, and Liebherr freezers will not stray by more than $\pm 5^\circ\text{C}$. 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 has top priority. Whether the risk is unauthorized access or loss of quality – Liebherr protects valuable contents with numerous safety functions.



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 authorized 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 $+2^\circ\text{C}$ due to a malfunction, the SafetyDevice takes control, stabilizing the temperature, activating the alarm and protecting the contents from freezing.

The Liebherr factor:

Integrated safety functions 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

Checks are good, but alarms are better

Professional refrigerators and freezers 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 center 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.

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

Rising electricity prices increase the requirements for efficiency in refrigerators and freezers. From the compressor to the seal, to the lighting and electronics, Liebherr fully utilizes the savings potential of each component. The result is impressive – especially in terms of total cost of ownership with all models EnergyStar certified.

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.



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.

Compliance with applicable standards set by NFPA 45 and NFPA 99

The interior of Liebherr refrigerators and freezers designed for storing flammable materials is free from ignition sources and suitable for use with flammable substances in sealed containers. These units meet the requirements for Class I, Division 2, Gas Group B, and comply with applicable standards set by NFPA 45 and NFPA 99.

Cleanroom compatibility

Liebherr refrigerators 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 odorless 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.



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**
- Compliance with applicable standard set by **NFPA 45** and **NFPA 99** for storing explosive and highly flammable substances
- Cleanroom compatible
- Hygienic and easy-to-clean design

Endlessly reliable - backed by expert support.

In research, laboratory and healthcare environments, every minute counts. Liebherr appliances are designed to support you reliably in day-to-day work - and to remain dependable for many years.

We offer flexible delivery options to meet your needs, from standard Plus Delivery to premium White Glove Delivery, which includes unpacking, light assembly, and removal of packaging materials. Additional services, including old appliance removal and recycling, are available at an additional cost.

Liebherr appliances for research, laboratory and healthcare use, require very little maintenance. When service is needed authorized service partners and original spare parts help ensure reliability over the long term.



Full 5-Year Warranty

For five (5) years from the date of original purchase, your Liebherr Warranty covers all parts and labor to repair or replace any part of the Liebherr Product that proves to be defective in materials or workmanship under normal and proper use and maintenance as specified by Liebherr after proper installation and start-up in accordance with the Owner's Use and Care Guide supplied with the Liebherr Product.

Limited 10-Year Compressor Warranty

For ten (10) years from the date of original purchase, your Liebherr Warranty covers the compressor that is contained within the Liebherr Product and proves to be defective in materials or workmanship under normal and proper use and maintenance service as specified by Liebherr after proper installation and start-up in accordance with the Owner's Use and Care Guide supplied with the Liebherr Product. For the avoidance of doubt, this compressor warranty applies only to the compressor itself and does not apply to any other parts or components of the Liebherr Product, or labor charges involved in replacement of the compressor.



Two unique series

Whether it's a large research facility or a small laboratory, a doctor's surgery, a nursing home or a pharmacy – our range includes models for every requirement. But however different the appliances are, they all have one thing in common: their first-rate quality.

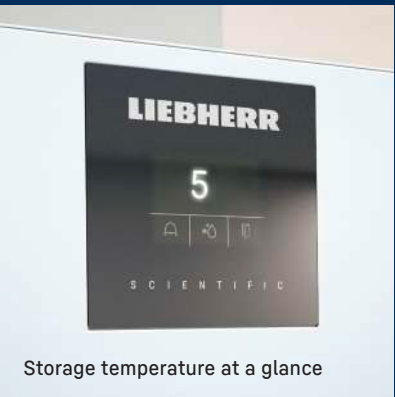
Performance Perfection

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 NFPA 45 & NFPA 99 directive.



Optimal temperature stability



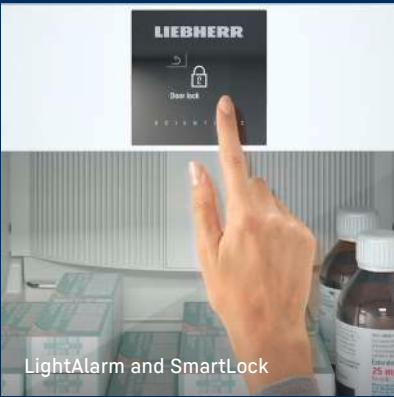
Storage temperature at a glance



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 DIN 13277, which specifies requirements for laboratory and medical applications.



Built-in LAN/WiFi interface

Refrigerators and freezers for laboratories and research



MediLine



Performance series



Perfection series

	MediLine
	General laboratory use SUFsg
Temperature stability	Freezers < ± 7 K deviation from setpoint SmartFrost Calibration option
Storage safety	Visual and audible alarms Custom alarm settings possible Alarm relay Alarm with battery backup (72 h) immediately upon power failure Integrated data logger Integrated data logger Mechanical lock
Interfaces	Interface Ethernet Modbus RTU communication protocol TCP/IP USB interface for reading the data logger
Connectivity	external data loggers
Features	LED 7-segment display with buttons Maintenance timer 360 days Castors as standard 3 Sensor feedthroughs Aluminum lever handle
Energy consumption	
Compliance	Safety according to IEC 61010-2-011

Performance-Series

General laboratory use/Flammable storage material
SRFfg/SFFfg/SRTvg/SRTfg/ SFTsg/SFTfg

Refrigerators +/-3 K deviation from setpoint
Freezers +/-5 K deviation from setpoint
Freezers with SmartFrost; SFPvg with NoFrost
Calibration option
Visual and audible alarms
Custom alarm settings possible
Alarm relay
Alarm test function
+2 °C SafetyDevice function (Refrigerators)
Alarm immediately upon power failure
Min./max. temperature log
Self-closing door at < 90°
Mechanical lock
Optional LAN/WiFi
Local API (optional via SmartModule)
SmartModule can be retrofitted
Monochrome display, touch buttons
Individually adjustable maintenance timer
Castors/adjustable feet as accessories, SRPvg/SFPvg with castors as standard
Refrigerator evaporator cover (stops items freezing to inner liner), only for glass door models and SRTvg/SRTfg models
Sensor feedthrough
Refrigerators: glass door models with ceiling lighting (SRPvg models with ceiling lighting)
Freezers: no lighting (SFPvg models with ceiling lighting)
Antimicrobial handle with opening mechanism (SRPvg/SFPvg with integrated handle)
EnergyStar
Safety according to IEC 61010-2-011
NFPA 55 & NFPA 99 (SRFfg/SFFfg/SRTfg/SFTfg)

Perfection series

General laboratory use
SCFvh/SRPvh/SFPvh/SRTvh

Refrigerators +/-2 K deviation from setpoint
Freezers < ± 4 K deviation from setpoint
Freezers with NoFrost
Calibration option
Visual and audible alarms
Custom alarm settings possible
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 (optional for SFFvh models)
Min./max. temperature log
Self-closing door at < 90°
Mechanical & Electronical lock
Integrated LAN/WiFi
Local API
USB interface for reading the data logger
SmartModule integrated
2.4" touch & swipe color display
Individually adjustable maintenance timer
Castors/adjustable feet as accessories, 75 cm-wide appliances with castors as standard
Refrigerator evaporator cover (stops items freezing to inner liner), only for glass door models and SRFvh/SCFvh/SRTvh models
Sensor feedthrough
Refrigerators: Insulated and glass door models with vertical lighting
Freezers: LED lighting in the front housing (SFPvh models with vertical lightning)
Integrated handle (SCFvh/SRTvh with antimicrobial handle with opening mechanism
EnergyStar
Safety according to IEC 61010-2-011
Fulfil DIN 13277



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

Liebherr ultra-low temperature freezers set new standards in the temperature range from $-40\text{ }^{\circ}\text{C}$ to $-86\text{ }^{\circ}\text{C}$. 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 have an impressive number of functions and features.

For optimal protection of your valuable samples, chemicals and research materials. And for the satisfaction of being able to concentrate fully on your work.

The advantages at a glance

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 1" (24mm) increments, offer flexibility for space-saving storage, tailored to your requirements. You can add more shelves if required.



Data recording

There are two feedthroughs 1 1/16" (28mm) on the top and bottom left for installing separate sensors for external monitoring or data recording systems in the interior.

Unloading ramp

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



SUFsg 5001 MediLine

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

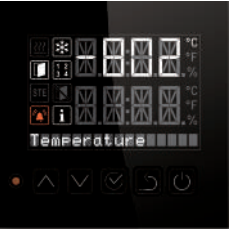


Door seals

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.

Intuitive electronics

The intuitive electronics with integrated real-time clock allow the temperature to be set with an accuracy of one tenth of a degree. The control and display panel is resistant to dirt and easy to clean. Flexible parameter adaptations, such as offset and alarm value settings, allow the appliances to be quickly and easily adapted and qualified for your applications and requirements.



Monitoring system

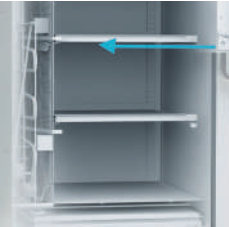
The 3-stage monitoring system, consisting of integrated alarm notifications for temperature, door or mains electrical faults, upgradable features such as CO₂ emergency refrigeration and online monitoring, ensures optimum protection during storage. In the event of a power failure, integrated 12-volt batteries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

Insulation

The combination of CFC-free polyurethane foam and vacuum-insulated panels ensures the best possible insulation to prevent rapid temperature increases.

Pressure compensation valve

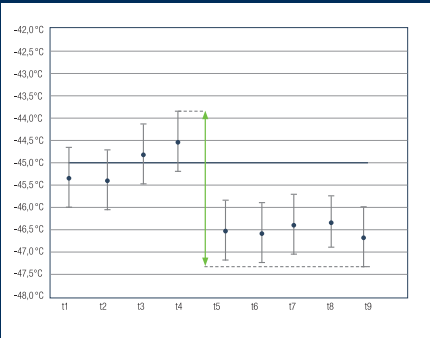
When the door is opened and closed, the air exchange creates a vacuum which makes it difficult to open the door again immediately afterwards. The heated pressure compensation valve quickly equalises the vacuum and the door can be easily opened again after just a few seconds.



Quality right down to the smallest detail

Mechanical lock

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



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 characterized by extremely low fluctuations, both within the appliance and over time.



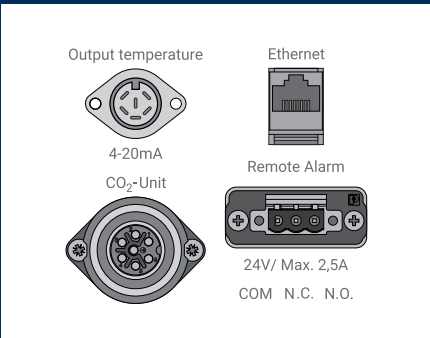
Low energy consumption

Ultra-low temperature freezers are among the appliances with the highest energy consumption in research facilities. 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 with HC refrigerants generates significantly less heat than previous technologies. This saves 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.



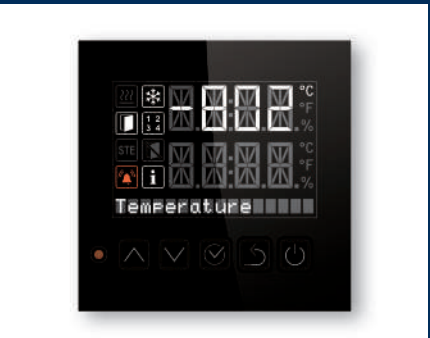
Connection to documentation and monitoring systems

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.



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.



Alarm system

A three-stage monitoring system with alarms protects the contents from any risks. In the event of a power cut, mains electrical faults, temperature fluctuations or an open door, the monitor regulator is triggered and a visual alarm appears on the regulator.



SUFsg 7001
MediLine



SUFsg 5001
MediLine

Total capacity cu. ft. (l)	728 / 700 (25.7 / 24.7)
Exterior dimensions in mm (w / d / h)	1110/985/1966
in inches (w / d / h)	47 3/8" / 42 5/8" / 77 3/8"
Interior dimensions in mm (w / d / h)	890/590/1300
in inches (w / d / h)	35 1/16" / 23 1/4" / 51 3/16"
Energy consumption kWh/day *	9.36
Ambient temperature range in °C (°F)	+16°C to +32°C (61°F to 90°F)
Heat output/system	1188 kJ/h/air cooling
Refrigerant	R290/R170
Sound rating ¹	47 dB(A)
Connection rating	11.7 A/1.4 kW
Voltage/frequency	120V~/60 Hz
Temperature range in °C (°F)	-40°C to -86°C (-40°F to -123°F)
External cabinet finish	Steel / white
Door/lid material	Steel
Internal liner material	Stainless steel
Type of control	Electronic control
Temperature display	External Digital
Interface	LAN (Ethernet)
Volt-free alarm contact	Yes
Data logger	Integrated, USB interface
Power failure alarm	Immediate with power cut for 72 h
Cooling system	Static
Refrigeration +22°C to -80°C	450 min
Warming -80°C to -60°C / to 0°C	250 min / 2220 min
Number / Max. number of shelves	4 / 14
Shelf material	Stainless steel
Shelf load weight in kg (lbs)	51 kg (110.2 lbs)
Number of racks per drawer	6
Max. number of cryo boxes 50 mm / 75 mm	528 / 336
Castors	Castors with brake at the front, fixed castors at the rear
Replaceable door seal	Yes
Sensor performance	3 x Ø 28 mm
Lock	Yes
Door hinges	Right, not reversible
Gross/net weight in lbs.	795.9/ 690
Accessories	
Cyroboxes	7790038
Co2 backup system	7790048
Foamed inner door	7790127
Cover main- switch	7790051
Analogue output 4-20mA Temp	7790042

491 / 471 (17.3 / 16.8)
921/985/1966
36 3/16" / 42 5/8" / 77 3/8"
586/605/1300
23 1/16" / 23 13/16" / 51 3/16"
8.14
+16°C to +32°C (61°F to 90°F)
1188 kJ/h/air cooling
R290/R170
47 dB(A)
11.7 A/1.4 kW
120V~/60 Hz
-40°C to -86°C (-40°F to -123°F)
Steel/white
Steel
Stainless steel
Electronic control
External Digital
LAN (Ethernet)
Yes
Integrated, USB interface
Immediate with power cut for 72 h
Static
360 min
230 min/2160 min
4/13
Stainless steel
50 (110.2) kg
4
352 / 224
Castors with brake at the front, fixed castors at the rear
Yes
2 x Ø 28 mm
Yes
Right, not reversible
674.6/ 634.9
7790038
7790048
7790070
7790051
7790042

¹ Average sound pressure level at 1 m distance



Ultra-low temperature freezers

Racks for cryoboxes

Convenient and temperature-resistant storage systems for well-organized 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 = 352 boxes x 81 pcs. 2mL samples.

Maximum Loading SUFsg 7001: 12x Rack 5x4 + 12x 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



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.



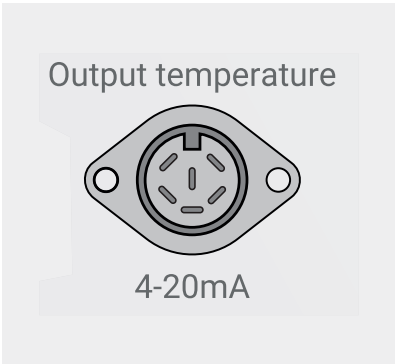
Foamed inner doors

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.



High-performance appliances – safety redefined

Hardly any sector has more stringent requirements for refrigerators and freezers than those of laboratories and research. Liebherr meets them 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.

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 authorized 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.

Wire shelf

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

Stainless steel workmanship

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



SRPvh 6511 Perfection

+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

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 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 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 content 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 organize 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.



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 authorized persons can unlock it again.

Advantage of hot gas defrosting

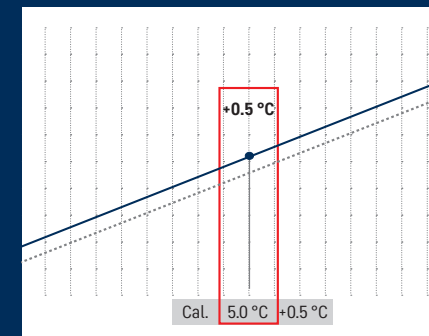
Reduces the time when the temperature is increased

30 min
Electric defrosting

10 min
Hot gas defrosting

Energy-efficient hot gas defrosting

Timed and on-demand hot gas defrosting allows very short defrosting times. To additionally improve temperature stability during defrosting, the internal temperature is slightly lowered shortly beforehand to create a reserve of cold air.



Accurate 1-point calibration

The laboratory appliances with electronic controls have a 1-point calibration function for extremely accurate temperature control. This allows compensation between the set temperature and the actual interior temperature. The correction value can be adjusted in increments of 0.1 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.



±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.



SRPvh 1412
Perfection



SRPvh 1402
Perfection



Total capacity	50.1 / 48.2 cu. ft. (1,418 / 1,365 l)
Exterior dimensions in mm (w / d / h)	1427 / 867 / 2135
in inches (w / d / h)	56 3/16" / 34 1/8" / 84 1/8"
Interior dimensions in mm (w / d / h)	976 / 638 / 1493
in inches (w / d / h)	47 11/16" / 25 1/8" / 58 13/16"
Energy consumption (kWh/ day) *	2.24
Ambient temperature	+10°C to +35°C (50°F to 95°F)
Heat output	695 kJ/h
Refrigerant	R 600a
Sound rating	60 dB(A)
Voltage / Frequency	115 V / 60Hz
Connection rating/Rated consumption watts	4.0 A / 130 W
Cooling system / Defrost	Forced-air / automatic
Temperature range in °C (°F)	0 °C to +16 °C
Gradient ² / max. fluctuation ³	2.6 °C / 1.9 °C
External cabinet finish	Steel / white
Door material/ color	Insulating glass door with steel frame / white
Internal liner material	Chrome-nickel steel 1.4301 / AISI 304
Type of control	2.4" touch & swipe color control
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, separate connection
Adjustable shelves / Shelf material	8 / wire shelves plastic-coated
Usable shelf area in mm (in)	480 / 638 mm (18 7/8" / 25")
Shelf load weight / Maximum total load in kg (lbs)	60 kg (132.3 lbs)
Casters	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 in kg (lbs)	293 / 268 kg (645 / 590 lbs)
Accessories	
U-shaped trayslide, left / U-shaped trayslide, right	7745088 / 7745090
Grey grid shelf / Perforated metal shelf in grey	7112608
Castors Ø 100 mm (4 in)	9597965
Adjustable feet, 115-175 mm (4.5 - 6.9 in)	9080132
Foot pedal opener	9597649
Side-by-Side set in white	9597677

48.2 / 46.8 cu. ft. (1364 / 1325 l)
1427 / 867 / 2135
56 1/4" / 34 1/8" / 84 1/8"
976 / 638 / 1493
47 11/16" / 25 1/8" / 58 13/16"
1.34
+10°C to +35°C (50°F to 95°F)
565 kJ/h
R 600a
60 dB(A)
115 V / 60Hz
4.0 A / 130 W
Forced-air / automatic
-2 °C to +16 °C
2.3 °C / 2.1 °C
Steel / white
Steel / white
Chrome-nickel steel 1.4301 / AISI 304
2.4" touch & swipe color control
Immediately upon power failure for at least 12 hrs
Visual and audible / yes
Yes / SmartModule
Integrated, removable / WiFi/LAN
Integrated, USB interface
LED light column both sides
8 / wire shelves plastic-coated
480 / 638 (24 1/16" / 19 11/16")
60 kg (132 lbs)
5 swivel castors, 2 with parking brake
Vertical recessed handle
1 x Ø 12 mm
Electronic, with remote control
Left-hand / right-hand
235 / 210 (518 / 463)
7745088 / 7745090
7112608
9597965
9080132
9597649
9597677



SRPvh 8411
Perfection



SRPvh 8401
Perfection



SRPvh 6511
Perfection



SRPvh 6501
Perfection



31.3 / 30.4 cu. ft. (886 / 860 l)
787 / 1017 / 2135
31" / 40" / 84 1/8"
579 / 788 / 1493
22 13/16" / 31 1/16" / 58 13/16"
1.26
+10°C to +35°C (50°F to 95°F)
425 kJ/h
R 600a
60 dB(A)
115 V / 60Hz
4.0 A / 130 W
Forced-air / automatic
0 °C to +16 °C
3.9 °C / 2.9 °C
Steel / white
Insulating glass door with steel frame / white
Chrome-nickel steel 1.4301 / AISI 304
2.4" touch & swipe color control
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
4 / wire shelves plastic-coated
570 / 788 (22 1/2" / 31")
60 kg (132 lbs)
Castors with brake at the front, fixed castors at the rear
Vertical recessed handle
1 x Ø 12 mm
Electronic, with remote control
Right, reversible on site
186 / 168 (410 / 370)
7745092 / 7745094
7112614
9597828
9080131
9597617
9597677

30.2 / 29.7 cu. ft. (855 / 841 l)
787 / 1017 / 2135
31" / 40" / 84 1/8"
579 / 788 / 1493
22 13/16" / 31 1/16" / 58 13/16"
0.79
+10°C to +35°C (50°F to 95°F)
360 kJ/h
R 600a
60 dB(A)
115 V / 60Hz
4.0 A / 130 W
Forced-air / automatic
-2 °C to +16 °C
3.1 °C / 2.3 °C
Steel / white
Steel / white
Chrome-nickel steel 1.4301 / AISI 304
2.4" touch & swipe color control
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
4 / wire shelves plastic-coated
570 / 788 (22 1/2" / 31")
60 kg (132 lbs)
Castors with brake at the front, fixed castors at the rear
Vertical recessed handle
1 x Ø 12 mm
Electronic, with remote control
Right, reversible on site
220/201 kg (489.4/443.1)
7745092 / 7745094
7112614
9597828
9080131
9597617
9597677

22.2 / 21.4 cu. ft. (628 / 606 l)
697 / 867 / 2135
27 3/8" / 34 1/8" / 84 1/8"
489 / 638 / 1493
19 5/16" / 25 1/8" / 58 13/16"
1.01
+10°C to +35°C (50°F to 95°F)
365 kJ/h
R 600a
60 dB(A)
115 V / 60Hz
4.0 A / 130 W
Forced-air / automatic
0 °C to +16 °C
2.5 °C / 3.4 °C
Steel / white
Insulating glass door with steel frame/white
Chrome-nickel steel 1.4301 / AISI 304
2.4" touch & swipe color control
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
4 / wire shelves plastic-coated
480 / 638 mm (18 7/8" / 25")
60 kg (132 lbs)
Castors with brake at the front, fixed castors at the rear
Vertical recessed handle
1 x Ø 12 mm
Electronic, with remote control
Right, reversible on site
220 / 201 (489.4 / 443.1)
7745088 / 7745090
7112608
9597828
9080131
9597649
9597677

21.3 / 20.2 cu. ft. (603 / 572 l)
697 / 867 / 2135
29 3/16" / 35 7/16" / 88 5/8"
489 / 638 / 1493
19 5/16" / 25 1/8" / 58 13/16"
0.66
+10°C to +35°C (50°F to 95°F)
305 kJ/h
R 600a
60 dB(A)
115 V / 60Hz
4.0 A / 130 W
Forced-air / automatic
-2 °C to +16 °C
2.3 °C / 2.5 °C
Steel / white
Steel / white
Chrome-nickel steel 1.4301 / AISI 304
2.4" touch & swipe color control
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
4 / wire shelves plastic-coated
480 / 638 mm (18 7/8" / 25")
60 kg (132 lbs)
Castors with brake at the front, fixed castors at the rear
Vertical recessed handle
1 x Ø 12 mm
Electronic, with remote control
Right, reversible on site
148 / 130 kg (326 / 286 lbs)
7745088 / 7745090
7112608
9597828
9080131
9597649
9597677

1 Measured at +25°C ambient temperature and +5°C set temperature for refrigerators 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



Total capacity	48.2 / 46.38 cu. ft. (1,364 / 1,313 l)
Exterior dimensions in mm (w / d / h)	1427 / 867 / 2135
in inches (w / d / h)	56 3/16" / 34 1/8" / 84 1/8"
Interior dimensions in mm (w / d / h)	1210 / 638 / 1493
in inches (w / d / h)	47 11/16 / 25 1/8 / 58 13/16"
Energy consumption (kWh/ day) ¹	5.26
Ambient temperature range in °C (°F)	+10°C to +35°C (50°F to 95°F)
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / Connection rating	115 V / 60Hz
Cooling system	Forced-air
Defrost	Automatic
Temperature range in °C (°F)	-9 °C to -35 °C ²
Gradient ² / max. fluctuation ³	2.9 °C / 4.9 °C
External cabinet finish	Steel / white
Door material	Steel / white
Internal liner material	Chrome-nickel steel (1.4301 / AISI 304)
Type of control	2.4" touch & swipe color display
Power failure alarm	Immediately upon power failure for at least 12 hrs
Fault: warning signal	Visual and audible
Volt-free alarm contact	Yes
Connectivity solution	Integrated
Interface	Removable / WiFi / LAN
Interior light	LED light column both sides
Adjustable shelves	8
Shelf material	Wire shelves plastic-coated
Usable shelf area in mm (w / d)	480 / 638
Shelf loading kg. (lbs)	60 kg / (132 lbs)
Handle	Antimicrobial handle with opening mechanism
Type of lock	Vertical recessed handle
Door hinges	Left-hand / right-hand
Gross / net weight kg. (lbs.)	235 / 210 (518 / 463)

Accessories	
U-shaped trayslide, (left / right)	7745088 / 7745090
Gray wire shelf	7112608
Castors Ø 100 mm (4 in)	9597965
Adjustable feet, 115 - 175 mm (4.5 - 6.9 in)	9080132
Foot pedal opener	9597649
Side-by-Side set in white	9597677



SFPvh 8401

Perfection



Total capacity	30.2 / 28.6 cu. ft. (855 / 810 l)
Exterior dimensions in mm (w / d / h)	787 / 1017 / 2135
in inches (w / d / h)	31" / 40" / 84 1/8"
Interior dimensions in mm (w / d / h)	579 / 788 / 1493
in inches (w / d / h)	22 13/16" / 31 1/16" / 58 13/16"
Energy consumption (kWh/ day) ¹	3.08
Ambient temperature range in °C (°F)	+10 °C to +35 °C (50°F to 95°F)
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / Connection rating	60Hz/ 115V / 1.0 A
Cooling system	Forced-air
Defrost	Automatic
Temperature range in °C (°F)	-9 °C to -35 °C
Gradient ² / max. fluctuation ³	4.3 °C / 4.6 °C
External cabinet finish	Steel / white
Door material	Steel / white
Internal liner material	Commercial grade moulded polystyrol
Type of control	2.4" touch & swipe color display
Power failure alarm	Immediately upon power failure for at least 12 hrs
Fault: warning signal	Visual and audible
Volt-free alarm contact	Yes
Connectivity solution	Integrated
Interface	Removable / WiFi / LAN
Interior light	LED lighting column, left
Adjustable shelves	4
Shelf material	Wire shelves plastic-coated
Usable shelf area in mm (w / d)	570 / 788 mm (24 1/16" / 19 11/16")
Shelf loading kg. (lbs)	60 kg (132 lbs)
Handle	Antimicrobial handle with opening mechanism
Type of lock	Electronic
Door hinges	Right, reversible on site
Gross / net weight kg. (lbs.)	167 / 149 kg (489.4 / 443.1 lbs)

Accessories	
U-shaped trayslide, (left / right)	7745092 / 7745094
Gray wire shelf	7112614
Castors Ø 100 mm (4 in)	7746616
Adjustable feet, 115 - 175 mm (4.5 - 6.9 in)	9597828
Foot pedal opener	9080131
Side-by-Side set in white	99597677



SFPvh 6501

Perfection



Total capacity	21.3 / 20.3 cu. ft. (603 / 575 l)
Exterior dimensions in mm (w / d / h)	697 / 867 / 2135
in inches (w / d / h)	29 3/16" / 35 7/16" / 84 1/8"
Interior dimensions in mm (w / d / h)	489 / 638 / 1493
in inches (w / d / h)	19 5/16" / 25 1/8" / 58 13/16"
Energy consumption (kWh/ day) ¹	2.84
Ambient temperature range in °C (°F)	+10 °C to 27 °C (50°F to 95°F)
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / Connection rating	60Hz/ 115V / 1.0 A
Cooling system	Forced-air
Defrost	Automatic
Temperature range in °C (°F)	-9 °C to -35 °C
Gradient ² / max. fluctuation ³	3.6 °C / 5.0 °C
External cabinet finish	steel / white
Door material	Steel
Internal liner material	Commercial grade moulded polystyrol
Type of control	2.4" touch & swipe color display
Power failure alarm	Immediately upon power failure for min. 12h
Fault: warning signal	Visual and audible
Volt-free alarm contact	Yes
Connectivity solution	Integrated
Interface	Removable/ WiFi-LAN
Interior light	
Adjustable shelves	4
Shelf material	Wire shelves plastic-coated
Usable shelf area in mm (w / d)	480 / 638 (18 7/8" / 25")
Shelf loading kg. (lbs)	60 kg (132 lbs)
Handle	Vertical recessed handle
Type of lock	Electronic
Door hinges	Right, reversible on site
Gross / net weight kg. (lbs.)	150 / 132 kg (350 / 291 lbs)

Accessories	
U-shaped trayslide, (left / right)	7745092 / 7745094
Gray wire shelf	7112614
Castors Ø 100 mm (4 in)	7746616
Adjustable feet, 115 - 175 mm (4.5 - 6.9 in)	9597828
Foot pedal opener	9080131
Side-by-Side set in white	9597677

¹ Measured at +25°C ambient temperature and +5°C set temperature for refrigerators 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..





High-Performance Upright appliances – for maximum precision and safety

Constant temperatures are essential when storing sensitive substances. This especially applies to 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 also set new standards in terms of energy efficiency and total cost of ownership. On the next few 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

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.

+2 °C SafetyDevice

If the temperature falls below +2 °C due to a malfunction, the SafetyDevice takes control, stabilizing 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.

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.

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.



SRFvh 5511

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 unauthorized persons cannot access your valuable and sensitive stored goods.

Easy-to-clean interior

The inner liner made of fully recyclable, robust and odorless 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.



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



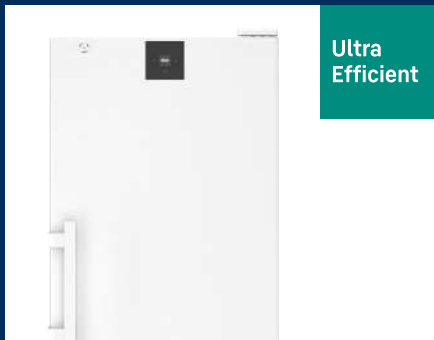
LED front lighting

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



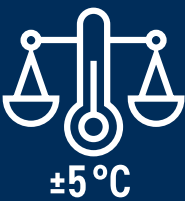
Ultra-efficient

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



Antimicrobial handle with opening mechanism

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



±5 °C temperature stability

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



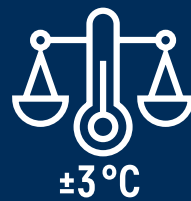
DIN 13277 compliance

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



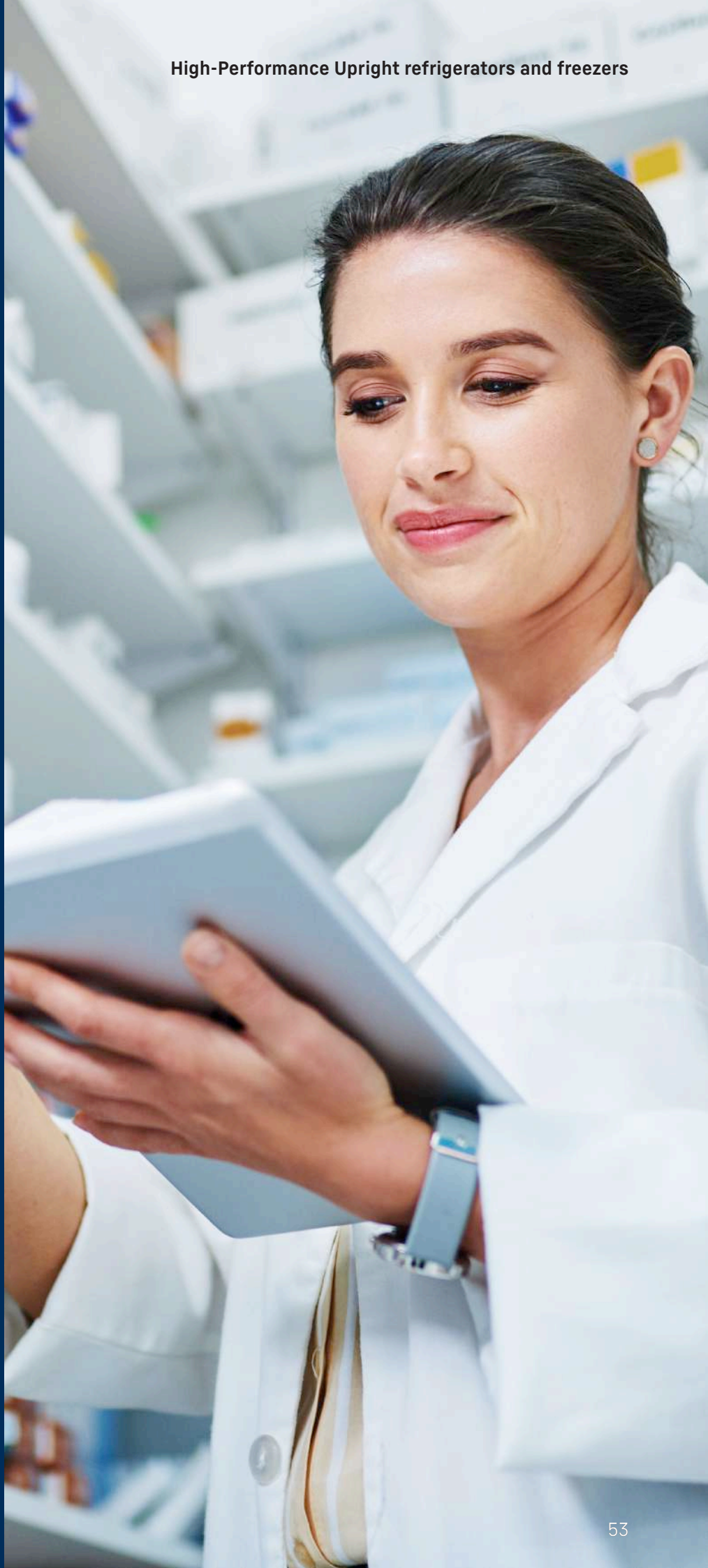
IEC 61010-2-011 standard

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



±3 °C temperature stability

(Refrigerator) 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.



High-Performance Upright refrigerators and freezers



SRFvh 5511

Perfection



Total capacity	20.8 / 19.3 cu. ft. (589 / 547 l)
Exterior dimensions in mm (w / d / h)	747 / 769 / 1793
in inches (w/d/h)	29 3/8" / 30 5/16" / 70 5/8"
Interior dimensions in mm (w / d / h)	600 / 536 / 1460
in inches (w/d/h)	23 7/8 l 21 1/8 l 57 1/2
Energy consumption kWh/day ¹	1.36
Ambient temperature range in °C (°F)	+10 °C to +35 °C (+50°F to +95°F)
Heat output	475 kJ/h
Refrigerant	R 600a
Sound power level	48 dB(A)
Voltage/ Frequency/ Connection rating	115 V / 60Hz / 2.0A
Cooling system / Defrost	Forced-air / automatic
Temperature range in °C (°F)	*+3 °C to +16 °C (+38°F to +60°F)
Gradient ² / max. fluctuation ³	3.3 °C / 2.0 °C
External cabinet finish	Steel / white
Door material	Glass
Internal liner material	Commercial grade moulded polystyrol
Type of control	2.4" touch & swipe color display
Power failure alarm	Immediately upon power failure for at least 12 hrs
Fault: warning signal	Visual and audible
Volt-free alarm contact	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
Adjustable shelves / Shelf material	5 (6) / wire shelves plastic-coated
Usable shelf area in mm (w / d)	606 / 536
Shelf loading weight	60 kg (132.3 lbs) / 300 kg (661.4 lbs)
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 (lbs.)	111 (244.7) / 98 (216)

Accessories	
Shelf, plastic-coated	7113310
Base grid	7113314
Glass shelf	9291929
Scanner rail	7435210
Castors Ø 80 mm (3 in)	9086926
Adjustable feet, 90 – 120 mm (3.5- 4.75 in)	9080022
Adjustable feet, 150 – 180 mm (5.9 - 7 in)	9086924
Side-by-Side kit	9017739



SRFvh 5501

Perfection



Total capacity	19.7 / 18.3 cu. ft. (558 / 441 l)
Exterior dimensions in mm (w / d / h)	747 / 769 / 1793
in inches (w/d/h)	29 3/8" / 30 5/16" / 70 5/8"
Interior dimensions in mm (w / d / h)	600 / 536 / 1460
in inches (w/d/h)	23 7/8 l 21 1/8 l 57 1/2"
Energy consumption kWh/day ¹	0.77
Ambient temperature range in °C (°F)	+10 °C to +35 °C (+50°F to +95°F)
Heat output	246 kJ/h
Refrigerant	R 600a
Sound power level	48 dB(A)
Voltage / 60Hz / 2.0A	115 V / 60Hz / 2.0A
Cooling system / Defrost	Forced-air / automatic
Temperature range in °C (°F)	*+3 °C to +16 °C (+38°F to +60°F)
Gradient ² / max. fluctuation ³	2.2 °C / 1.7 °C
External cabinet finish	Steel / white
Door material	Glass
Internal liner material	Commercial grade moulded polystyrol
Type of control	2.4" touch & swipe color display
Power failure alarm	Immediately upon power failure for at least 12 hrs
Fault: warning signal	Visual and audible
Volt-free alarm contact	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	5 (6) / wire shelves plastic-coated
Usable shelf area in mm (w / d)	606 / 536
Shelf loading weight	60 kg (132.3 lbs) / 300 kg (661.4 lbs)
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 (lbs.)	98 (216) / 89 (196)

Accessories	
Shelf, plastic-coated	7113310
Base grid	7113314
Glass shelf	9291929
Scanner rail	7435210
Castors Ø 80 mm (3 in)	9086926
Adjustable feet, 90 – 120 mm (3.5- 4.75 in)	9080022
Adjustable feet, 150 – 180 mm (5.9 - 7 in)	9086924
Side-by-Side kit	9017739



SFFvh 5501

Perfection



Total capacity	16.7 / 9.1 cu. ft. (472 / 283 l)
Exterior dimensions in mm (w / d / h)	747 / 769 / 1793
in inches (w/d/h)	29 3/8" / 30 5/16" / 70 5/8"
Interior dimensions in mm (w / d / h)	603 / 510 / 1118
in inches (w/d/h)	23 3/4" / 20" / 44"
Energy consumption kWh/day ¹	1.478
Ambient temperature range in °C (°F)	*+10 °C to +35 °C (+50°F to +95°F)
Heat output	725 kJ/h
Refrigerant	R 290
Sound power level	55 dB(A)
Voltage/ Frequency/ Connection rating	115-127 V ~ / 60Hz
Cooling system / Defrost	
Temperature range in °C (°F)	-9 °C to -35 °C (+16 °F to -31 °F)
Gradient ² / max. fluctuation ³	5.5 °C / 4.4 °C
External cabinet finish	Steel / white
Door material	Steel
Internal liner material	Plastic White
Type of control	2.4" Touch & Swipe color display
Power failure alarm	Immediately upon power failure for at least 12hrs.
Fault: warning signal	Visual and audible
Volt-free alarm contact	Yes
Connectivity type	SmartModule
Connectivity solution	Integrated, removable
Interface	WiFi/LAN
Data logger	Integrated, USB interface
Interior light	LED lighting
Adjustable shelves / Shelf material	4 Shelves / 6 Drawers / 2 Baskets
Usable shelf area in mm (w / d)	606 / 536
Shelf loading weight	60 kg (132.3)
Castors	Yes
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 (lbs.)	114 (252.20) / 108 (240.3)

Accessories	
Shelf, plastic-coated	7113310
Base grid	7113314
Glass shelf	9291929
Scanner rail	7435210
Castors Ø 80 mm (3 in)	9086926
Adjustable feet, 90 – 120 mm (3.5- 4.75 in)	9080022
Adjustable feet, 150 – 180 mm (5.9 - 7 in)	9086924
Side-by-Side kit	9017739



Combination refrigerator-freezer

Designed for research and laboratory environments where space is at a premium, this combination refrigerator-freezer delivers reliable refrigerated and frozen storage in a single, compact unit. Engineered to meet the rigorous demands of healthcare, biotechnology, and pharmaceutical applications, it provides exceptional safety, reliability, and compliance with industry standards. Advanced temperature management maintains the refrigerator compartment within ±3°C and the freezer compartment within ±5°C of the set temperature, ensuring optimal conditions for sensitive samples and materials. Multiple alarm functions provide continuous monitoring and rapid notification of temperature deviations, helping protect valuable contents. Combining precision performance, dependable operation, and intuitive usability, this appliance is an ideal solution for laboratories that demand consistent, high-quality sample preservation.



SCFvh 4032 Combination refrigerator-freezer
Perfection

Total capacity	Refrigerator	9.9 cu. ft. (280 l)
Total capacity	Freezer	3.9 cu. ft. (110.43 l)
Exterior dimensions in mm (w / d / h)		597 / 654 / 2044
	in inches (w/d/h)	23 1/2" / 25 11/16" / 80 1/2"
Interior dimensions in mm (w / d / h)		460 / 423 / 1037
	in inches (w/d/h)	18 1/8" / 16 7/8" / 40 13/16"
Energy consumption kWh/day ¹		1.25
Ambient temperature range in °C (°F)		+10°C to +35°C (61°F to 95°F)
Heat output / Refrigerant		380 kJ/h / R 600a
Sound power level		49 dB(A)
Frecuency / Voltage		50 Hz/115V~
Connection rating / Rated consumption watts		2.0 A / 160 W
Cooling system	Refrigerator / Freezer	Forced-air / forced-air
Defrost	Refrigerator / Freezer	Automatic / automatic
Temperature range ²	Refrigerator / Freezer	+3 °C to +16 °C / -9 °C to -30 °C
Gradient ³	Refrigerator / Freezer	3.3 °C / 4.3 °C
Max. fluctuation ⁴	Refrigerator / Freezer	2.9 °C / 7.6 °C
External cabinet finish		Steel / white
Door material / color		Glass door / steel / white
Internal liner material		Commercial grade moulded polystyrene
Type of control		2.4" touch & swipe color 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	Refrigerator / Freezer comp.	Vertical LED light strip recessed in left wall with separate switch / LED
Adjustable shelves	Freezer comp.	4
Shelf material	Refrigerator / Freezer comp.	Wire shelves plastic-coated / glass
Usable shelf area in mm (w/d)	Freezer comp.	460 / 423
Shelf loading	Refrigerator / Freezer	45 kg (40 kg)
Maximum total load		345 kg (761 lbs)
Drawers	Freezer comp.	3
Handle		Antimicrobial handle with opening mechanism
Access ports / DIN 13277		2 x Ø 10 mm / yes
Type of lock / Door hinges		Mechanical / right, reversible on site
Gross / net weight (lbs.)		104.9 / 99.8 (231.3 / 220)
Accessories		
Pharmacy drawer		9032867
White grid shelf / White base grid		7113308 / 7113272
Perforated metal shelf, white		9029022
Scanner rail		7435208
Additional lock barrels		On request
Side-by-side set in white		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.



High-performance undercounters

These high-quality, compact undercounter appliances show how reliable and professional a partner Liebherr is. They are the result of intensive engagement with the requirements of the industry, and impress with their extraordinary performance, quality and long service life. Their highlights include precise temperature stability, efficient safety features and incredibly low energy consumption.

Depending on the appliance, the new undercounter appliances meet relevant safety requirements in line with DIN 13277, IEC 61010-2-011. This makes them great for complying with standards to store temperature-sensitive substances, flammable material and medications. The high temperature consistency of the appliances is another central feature that minimizes the impact of outside factors on the quality of the stored substances and provides optimum safety.

At the same time, the new generation of appliances from Liebherr offers incredibly impressive energy efficiency: from the compressor to the seal, to the lighting and electronics, every component has been optimized to reduce the energy consumption of the appliance down to a minimum.

The advantages at a glance

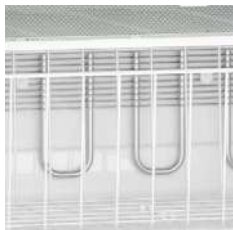


Alarm relay
The alarm relay makes it possible to connect the appliance to the building's control technology. In the event of an alarm, the corresponding control center is informed immediately.



With the digital monitoring solution, the storage temperature is controlled and documented conveniently and securely via the subsequently set up interface.

Easy-to-clean interior
The plastic inner liner is made of polystyrene: a fully recyclable, robust, and odorless plastic. Since the interior is seamlessly manufactured from one piece, there are no hidden dirt traps, and the large corners can be cleaned quickly and easily.



Access port
The laboratory appliances have an access port in the appliance ceiling which allows a temperature sensor to be positioned in the interior.

Column light (Perfection)
Ceiling light (Performance) Liebherr's LED light delivers exceptional performance by evenly illuminating the interior, ensuring optimal visibility across all shelves. Complementing this is the column LED lighting, engineered for perfection, which enhances both functionality and aesthetic appeal.



SRTvg 1511
Performance Series



Touch & Swipe
Control of your Liebherr at your fingertips: thanks to the Touch & Swipe display, you can operate your refrigerator intuitively and with ease.

Antimicrobial ergonomic handle
Antimicrobial handle with opening mechanism. Thanks to the innovative mechanism of the handle, appliances are particularly easy to open. Moreover, the material contains special antimicrobial substances that reduce bacteria by up to 99.99%*. This eliminates the need for regular and effortful disinfection measures.

+2 safety device
If the temperature in the appliance falls below +2°C due to a malfunction, the +2 C SafetyDevice takes over control, keeps the temperature stable, and activates an alarm. This ensures that sensitive substances are protected from freezing.



Self-closing door
Once the door has been opened to more than 90°, the appliance door remains open, which makes loading, unloading and cleaning easier. If the door is opened to less than 60°, it closes automatically to prevent it from accidentally being left open.

Door seals are replaceable for easy and fast maintenance.



SRTvh 1501
Perfection



SRTvg 1511
Performance



Total capacity	4.7 / 4.0 cu. ft. (133 / 113 l)
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
in inches (w / d / h)	23 1/2" / 23 13/16" / 32 3/16"
Interior dimensions in mm (w / d / h)	450 / 440 / 620
in inches (w / d / h)	17 3/4" / 18 1/8" / 34 3/8"
Energy Consumption (kWh / day) ¹	0.34
Ambient temperature range in °C (°F)	+10°C to +35°C (+50°F to +95°F)
Heat output	198 kJ/h
Refrigerant	R 600a
Sound power level	43 dB(A)
Voltage / Frequency	115V / 60 Hz
Connection rating/Rated consumption watss	2.0 A / 100 W
Cooling system / Defrost	Forced-air / automatic
Temperature range in °C (°F)	+3 °C to +16 °C
Gradient ² / max. fluctuation ³	4.9 °C / 4.4 °C
External cabinet finish	Steel / white
Door material / Color	Steel / white
Internal liner material	Commercial grade moulded polystyrene
Type of control	2.4"Touch & swipe, color display
Power failure alarm	Upon mains power return
Fault: warning signal	Visual and audible
Volt-free alarm contact	Yes
Connectivity Solution/ Interface	Yes / SmartModule
Connectivity solution	Integrated
Interface	WiFi/LAN (optional)
Interior light	LED lighting column, left
Adjustable shelves / Shelf material	3 (4) / wire shelves plastic-coated
Usable shelf area in mm (w / d)	450 x 425 mm (17 3/4" x 16 3/4")
Shelf loading / Max. total load kg. (lbs)	45 kg (99 lbs)
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 kg. (lbs.)	37 / 33 kg (81.5 / 72.75 lbs)

Accessories	
White grid shelf	7113408
Castors/ adjustable legs	9904819 / 9906105
Scanner railf	7401607
Additional lock barrels	On request
Stacking kit, white	9876098
Side-by-side set, in whitel	9031901
SmartModule	

Total capacity	4.8 / 4.0 cu. ft. (135 / 113 l)
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
in inches (w / d / h)	23 1/2" / 23 13/16" / 32 3/16"
Interior dimensions in mm (w / d / h)	450 / 460 / 620
in inches (w / d / h)	17 3/4" / 18 1/8" / 34 3/8"
Energy consumption (kWh/ day) ¹	0.51
Ambient temperature range in °C (°F)	+10°C to +35°C (+50°F to +95°F)
Heat output	202 kJ/h
Refrigerant	R 600a
Sound power level	45 dB(A)
Voltage/ Frequency	115V / 60 Hz
Connection rating/Rated consumption watss	2.0 A / 100 W
Cooling system / Defrost	Forced-air / automatic
Temperature range in °C (°F)	+3 °C to +16 °C
Gradient ² / max. fluctuation ³	3.7 °C / 5.2 °C
External cabinet finish	Steel / white
Door material / Color	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
Connectivity Solution/ Interface	Yes / SmartModule
Connectivity solution	Retrofittable
Interface	WiFi/LAN (optional)
Interior light	LED ceiling light strip
Adjustable shelves / Shelf material	3 (4) / wire shelves plastic-coated
Usable shelf area in mm (w / d)	450 x 425 mm (17 3/4" x 16 3/4")
Shelf loading / Max. total load kg. (lbs)	45 kg (99 lbs)
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 kg. (lbs)	39 / 35 kg (86 / 77 lbs)

Accessories	
White grid shelf	7113408
Castors/ adjustable legs	9904819 / 9906105
Scanner railf	7401607
Additional lock barrels	On request
Stacking kit, white	9876098
Side-by-side set, in whitel	9031901
SmartModule	6145269



SRTvg 1501
Performance



SFTsg 1501
Performance



Total capacity	4.7 / 4.0 cu. ft. (133 / 113 l)
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
in inches (w / d / h)	23 1/2" / 23 13/16" / 32 5/16"
Interior dimensions in mm (w / d / h)	450 / 440 / 620
in inches (w / d / h)	17 3/4" / 18 1/8" / 34 3/8"
Energy consumption (kWh/ day) ¹	0.34
Ambient temperature range in °C (°F)	+10°C to +35°C (+50°F to +95°F)
Heat output	198 kJ/h
Refrigerant	R 600a
Sound power level	43 dB(A)
Voltage/ Frequency	115V / 60 Hz
Connection rating/Rated consumption watss	2.0 A / 100 W
Cooling system / Defrost	Forced-air / automatic
Temperature range in °C (°F)	+3 °C to +16 °C
Gradient ² / max. fluctuation ³	4.9 °C / 4.4 °C
External cabinet finish	Steel / white
Door material / Color	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
Connectivity Solution/ Interface	Yes / SmartModule
Connectivity solution	Retrofittable
Interface	WiFi/LAN (optional)
Interior light	
Adjustable shelves / Shelf material	3 (4) / wire shelves plastic-coated
Usable shelf area in mm (w / d)	450 x 425 mm (17 3/4" x 16 3/4")
Shelf loading / Max. total load kg. (lbs)	45 kg (99 lbs)
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 kg. (lbs.)	39 / 35 kg (86 / 77 lbs)

Accessories	
White grid shelf	7113408
Castors/ adjustable legs	9904819 / 9906105
Scanner railf	7401607
Additional lock barrels	On request
Stacking kit, white	9876098
Side-by-side set, in whitel	9031901
SmartModule	6145269

Total capacity	3.6 / 3.5 cu. ft. (101 / 99 l)
Exterior dimensions in mm (w / d / h)	597 / 605 / 819
in inches (w / d / h)	23 1/2" / 23 13/16" / 32 3/16"
Interior dimensions in mm (w / d / h)	380 / 410 / 610
in inches (w / d / h)	17 3/4" / 18 1/8" / 34 3/8"
Energy consumption (kWh/ day) ¹	0.38
Ambient temperature range in °C (°F)	+10°C to +35°C (+50°F to +95°F)
Heat output	294 kJ/h
Refrigerant	R 600a
Sound power level	35 dB(A)
Voltage/ Frequency	115V / 60 Hz
Connection rating/Rated consumption watss	2.0 A / 110 W
Cooling system / Defrost	Static / manual
Temperature range in °C (°F)	-9 °C to -30 °C
Gradient ² / max. fluctuation ³	7.4 °C / 3.3 °C
External cabinet finish	Steel / white
Door material / Color	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
Connectivity Solution/ Interface	Yes / SmartModule
Connectivity solution	Retrofittable
Interface	WiFi/LAN (optional)
Interior light	
Adjustable shelves / Shelf material	2 (3) Wire shelves plastic-coated
Usable shelf area in mm (w / d)	380 / 338
Shelf loading / Max. total load kg. (lbs)	45 kg (99 lbs)
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 kg. (lbs.)	37 / 34 kg (81 / 76.7 lbs)

Accessories	
White grid shelf	7113408
Castors/ adjustable legs	9904819 / 9906105
Scanner railf	7401607
Additional lock barrels	On request
Stacking kit, white	9876098
Side-by-side set, in whitel	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.



Flammable material storage refrigerators and freezers

When storing flammable solvents or other volatile chemicals, it is crucial to use the appropriate refrigerator or freezer to minimize serious safety risks. Liebherr refrigerators and freezers for flammable material storage are specifically engineered to safely house volatile substances in laboratory, industrial, and healthcare environments. These units are designed to prevent ignition of flammable vapors, helping to reduce the risk of fire or explosion.

All electrical components—including thermostats, lights, and compressors—are either sealed or located outside the storage compartment to eliminate internal spark hazards. The interiors are completely free of ignition sources, making them suitable for storing flammable substances in sealed containers. Liebherr units comply with applicable safety standards, including NFPA 45 and NFPA 99

The advantages at a glance

+2 °C SafetyDevice

If the temperature falls below +2 °C due to a malfunction, the SafetyDevice takes control, stabilizing 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 odorless 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 5501 Performance



Mechanical lock

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

Antimicrobial handle with opening mechanism

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



Replaceable door seal

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

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

Robust glass shelves

For more convenience in the lab, the robust glass shelves of the refrigerators and freezers with spark-proof interior are easy to clean and simple to remove when the door is opened by around 90°.



±3 °C temperature stability

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



IEC 61010-2-011 standard

Liebherr refrigerators and 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.

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 unauthorized hands can access your stored goods.



Compliance with applicable standards set by NFPA 45 and NFPA 99

The interior of Liebherr refrigerators and freezers designed for storing flammable materials is free from ignition sources and suitable for use with flammable substances in sealed containers. These units meet the requirements for Class I, Division 2, Gas Group B, and comply with applicable standards set by NFPA 45 and NFPA 99.



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.



Retrofittable WiFi/LAN

This is how easy it is to network a Liebherr: With the retrofittable WiFi and LAN interface, appliances can be effortlessly connected to external systems, such as SmartMonitoring from Liebherr. With the digital monitoring solution, the storage temperature is controlled and documented conveniently and securely via the subsequently set up interface.



Flammable material storage refrigerators and freezers



SRFfg 5501
Performance



SRFfg 3501
Performance



SRTfg 1501
Performance



Gross / net capacity	19.7 / 18.3 cu. ft. (558 l)
Exterior dimensions in mm (w / d / h)	558 / 518 (19.7 / 18.3)
in inches (w / d / h)	29 3/8" / 30 5/16" / 66 5/16"
Interior dimensions in mm (w / d / h)	600 / 537 / 1460
in inches (w / d / h)	23 9/16" / 25 3/4" / 66 5/16"
Energy consumption (kWh/ day) ¹	0.73
Ambient temperature range in °C (°F)	*+10 °C to +35 °C (+50 °F to +95 °F)
Heat output	408 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / Connection rating	115 V / 60Hz / 2.0A
Cooling system / Defrost	Forced-air / automatic
Temperature range in °C (°F)	*+3°C to +16°C (+38 °F to +60 °F)
Gradient ² / max. fluctuation ³	3.7 °C / 3.0 °C
External cabinet finish	Steel / white
Door material	Steel
Internal liner material	Commercial grade moulded polystyrol
Type of control	Monochrome display, touch buttons
Power failure alarm	When mains power return
Fault: warning signal	visual and audible
Volt-free alarm contact	Yes
Connectivity type	SmartModule
Connectivity solution	Retrofittable
Interface	WiFi/LAN (optional)
Adjustable shelves	5 (6)
Shelf material	glass
Usable shelf area in mm (w / d)	600 / 537
Shelf loading / device	40 kg (88.2 lbs)
Handle	Antimicrobial handle with opening mechanism
Access ports	1 x Ø 10 mm
NFPA 45 & NFPA 99	Yes
Type of lock	Mechanical
Door hinges	Right, reversible on site
Gross / net weight kg. (lbs)	94 (207.2) / 87 (191.8)

Accessories	
Glass shelf	9291929
Scanner rail	7435210
Castors Ø 80 mm	9086926
Castors Ø 100 mm	9080023
Adjustable feet, 90 – 120 mm	9080022
Adjustable feet, 150 – 180 mm	9086924
Additional lock barrels (up to 5)	on request
Side-by-Side set	on request

12.1 / 11.1 cu. ft. (344 / 315 l)
597 / 654 / 1684
23 1/2" / 25 11/16" / 66 5/16"
460 / 537 / 1460
18 1/8" / 16 11/16" / 57 1/2"
0.63
*+10 °C to +35 °C (+50 °F to +95 °F)
388 kJ/h
R 600a
48 dB(A)
115 V / 60Hz / 2.0A
Forced-air / automatic
*+3°C to +16°C (+38 °F to +60 °F)
3.6 °C / 3.1 °C
Steel / white
Steel
Commercial grade moulded polystyrol
Monochrome display, touch buttons
When mains power return
Visual and audible
Yes
SmartModule
Retrofittable
WiFi/LAN (optional)
4 (5)
glass
460 / 537
40 kg (88.2 lbs)
Antimicrobial handle with opening mechanism
1 x Ø 10 mm
Yes
Mechanical
Right, reversible on site
70 (154.3) / 65 (143.3)

	9293493
	7435208
	9086926
	9080023
	9080022
	9086924
	on request
	on request

4.7 / 4.0 cu. ft. (133 / 113 l)
597 / 605 / 819
23 1/2" / 23 13/16" / 32 3/16"
380 / 410 / 610
23 1/2" / 23 7/8" / 32 1/4"
0.31
*+10 °C to +35 °C (+50 °F to +95 °F)
388 kJ/h
R 600a
35 dB(A)
115 V / 60Hz / 2.0A
Forced-air / automatic
*+3°C to +16°C (+38 °F to +60 °F)
3.6 °C / 3.1 °C
Steel / white
Steel
Commercial grade moulded polystyrol
Monochrome display, touch buttons
When mains power return
Visual and audible
Yes
SmartModule
Retrofittable
WiFi/LAN (optional)
4
glass
460 / 537
40 kg (88.2 lbs)
Antimicrobial handle with opening mechanism
1 x Ø 10 mm
Yes
Mechanical
Right, reversible on site
37 (82.9) / 35 (78.5)

	9293493
	7435208
	9086926
	9080023
	9080022
	9086924
	on request
	on request



SFFfg 5501
Performance



SFTfg 5501
Performance



17.6 / 13.9 cu. ft. (499 / 394 l)
747 / 769 / 1684
29 3/8" / 30 5/16" / 66 5/16"
517 / 588 / 1388
23 1/8" / 20 3/8" / 54 5/8"
2.11
*+10°C to +35°C (+50 °F to +95 °F)
713 kJ/h
R 290
115 V / 60Hz
Smart Frost / manual
-9°C to -30°C (+15°F to -22°F)
5.4°C / 3.3°C
Steel/white
Steel
Commercial grade molded polystyrol
Monochrome display, touch buttons
When mains power return
Visual and audible
Yes
SmartModule
Retrofittable
WiFi/LAN (optional)
4 (5)
Glass
500 / 517
40 kg (88.2 lbs)
Antimicrobial handle with opening -mechanism
1 x Ø 10 mm
Yes
Mechanical
Right, reversible on site
95/90 kg (211.4/ 200.6 lbs)

	9293493
	7435208
	9086926
	9080023
	9080022
	9086924
	on request
	on request

3.6 / 3.5 cu. ft. (101 / 99 l)
597 / 605 / 819
23 1/2" / 23 7/8" / 32 1/4"
380 / 410 / 610
15" / 16 1/8" / 32 1/4"
0.38
*+10 °C to +35 °C (+50 °F to +95 °F)
388 kJ/h
R 600a
40 dB(A)
115 V / 60hZ / 2.0A
SmartFrost / manual
-9°C to -30°C (+15.8°F to -22°F)
3.6 °C / 3.1 °C
Steel / white
Steel / white
Commercial grade moulded polystyrene
Monochrome display. touch buttons
When main power returns
Visual and audible
Yes
SmartModule
Retrofittable
Wifi/ LAN (optional)
3
glass
380 / 347
40 kg (88.2 lbs)
Antimicrobial handle with opening
1 x Ø 10 mm
Yes
Mechanical
Right, reversible on site
38 / 35 kg (84 / 77 lbs)

	9293493
	7435208
	9086926
	9080023
	9080022
	9086924
	on request
	on request



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

Accessories



Glass shelf
The glass shelves in Liebherr scientific units are made of high-strength, easy-to-clean safety glass designed for optimal visibility and durability. They provide stable, adjustable storage that supports the safe organization of sensitive materials in laboratory and medical environments.



Scanner rail
The scanner rails in Liebherr scientific units ensure smooth and secure shelf adjustment, allowing for flexible interior configuration to accommodate varying storage needs. Designed for durability and ease of use, they support efficient access and repositioning of shelves without compromising stability.



Castors
The castors on Liebherr scientific units provide smooth mobility, allowing for easy repositioning and cleaning access in laboratory and medical settings. Built for strength and stability, they ensure the unit remains securely in place when stationary.



Adjustable feet
The adjustable feet on Liebherr scientific units allow for precise leveling, ensuring optimal stability on uneven surfaces. This enhances the unit's performance and safety by maintaining proper alignment and reducing vibration.



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



Wire shelves
The Liebherr wire shelves for laboratory products are designed for optimal air circulation, ensuring consistent temperature distribution throughout the unit. Their durable, easy-to-clean construction supports safe and organized storage of sensitive samples and materials.



Stacking kit
The Liebherr stacking kit for laboratory products provides a secure and space-efficient solution for vertically combining two compatible units. Designed for stability and safety, it ensures optimal performance while maximizing valuable floor space in lab environments.

