The advantages at a glance

+2 °C SafetyDevice

If the temperature falls below +2 °C due to a malfunction, the SafetyDevice takes control, stabilising the temperature, activating the alarm and protecting the contents from freezing.



Power failure info

The power failure info function reports when the appliance was temporarily without power and what the maximum temperature was during this time. This allows you to better assess the potential loss of quality.

Min./max. temperature log

The min./max. temperature log stores the minimum and maximum interior temperatures and shows on the display whether the storage temperatures were within the tolerance limits.

Easy-to-clean interior

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

Feedthrough for external sensors

An integrated opening allows a separate sensor to be connected for additional temperature monitoring without having to drill holes or break the door seal.



Mechanical lock

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

SmartMonitoring

The cloud-based digital solution continuously monitors and documents temperatures and alerts you immediately via email, text message or phone if any deviations occur.

Retrofittable WiFi/LAN interface

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

Antimicrobial handle with opening mechanism

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

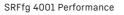


Replaceable door seal

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. Contact Liebherr Customer Service to purchase replacements.

Self-closing door < 90°

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





Quality right down to the smallest detail



Explosion protection: ATEX 95

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



Super-efficient

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



±3 °C temperature stability

Temperature fluctuations must be minimal to ensure that the quality of sensitive substances is preserved.

Liebherr Laboratory refrigerators have an impressive maximum deviation of just ±3 °C from the set temperature.

This not only maintains the storage climate, but also the value of your stored goods.



IEC 61010-2-011 standard

Liebherr refrigerators and fraeezers 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.



SRFfg 5501 Performance



Gross / net capacity	558/441 litre
Exterior dimensions in mm (w/d/h)	747/769/1684
Interior dimensions in mm (w/d/h)	600/537/1460
Energy consumption in 365 days ¹	399 kWh
Ambient temperature range	+10 °C to +35 °C
Heat output	408 kJ/h
Refrigerant	R 600a
Sound power level	49 dB(A)
Voltage / Connection rating	220 - 240V~ / 2.0 A
Cooling system / Defrost	forced-air/automatic
Temperature range	+3°C to +16°C
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
Type of control	monochrome display, touch
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	
Shelf material	glass
Usable shelf area in mm (w / d)	600/537
Shelf loading / device	40 kg / 300 kg
Handle	Antimicrobial handle with o
Access ports	1 x Ø 10 mm
ATEX conformity	yes
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	92/80 kg
Accessories	
Glass shelf	9291929
Perforated metal shelf	
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

558 / 441 litre	
747/769/1684	
600/537/1460	
399 kWh	
+10°C to +35°C	
408 kJ/h	
R 600a	
49 dB(A)	
220 - 240V~ / 2.0 A	
forced-air / automatic	
+3°C to +16°C	
3.7°C/3.0°C	
steel/white	
steel	
commercial grade moulded polystyrol	
monochrome display, touch buttons	
when mains power return	
visual and audible	
yes	
SmartModule SmartModule	
Retrofittable	
WiFi/LAN (optional)	
5	
glass	
600/537	
40 kg / 300 kg	
Antimicrobial handle with opening mechanism	
1 x Ø 10 mm	
yes	
mechanical	
right, reversible on site	
92 / 80 kg	
9291929	



SRFfg 4001 Performance

9029022

7435208

9086926

9080023

9080022

9086924

on request

on request

6145269



SRFfg 3501 Performance



394 / 298 litre	344/261 litre
597/654/1884	597/654/1684
460/422/1660	460/537/1460
421 kWh	406 kWh
+10 °C to +35 °C	+10 °C to +35 °C
454 kJ/h	388 kJ/h
R 600a	R 600a
49 dB(A)	48 dB(A)
220 - 240V~/ 2.0 A	220 - 240V~/2.0 A
forced-air/automatic	forced-air/automatic
+3°C to +16°C	+3 °C to +16 °C
5.1°C/3.2°C	3.6°C/3.1°C
steel/white	steel/white
steel	steel
commercial grade moulded polystyrol	commercial grade moulded polystyrol
monochrome display, touch buttons	monochrome display, touch buttons
when mains power return	when mains power return
visual and audible	visual and audible
yes	yes
SmartModule	SmartModule
Retrofittable	Retrofittable
WiFi/LAN (optional)	WiFi/LAN (optional)
5	4
glass	glass
460 / 422	460/537
40 kg / 225 kg	40 kg / 180 kg
Antimicrobial handle with opening mechanism	Antimicrobial handle with opening mechanism
1 x Ø 10 mm	1 x Ø 10 mm
yes	yes
mechanical	mechanical
right, reversible on site	right, reversible on site
74/68 kg	70/60 kg
9293493	9293493

9029022

7435208

9086926

9080023

9080022

9086924

on request

on request

6145269

6145269

SmartModule

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



Easy-to-clean interior

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



SmartFrost

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



Super-efficient

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



±5 °C temperature stability

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



IEC 61010-2-011 standard

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



Compliance with the **ATEX Directive**

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



Gross / net capacity

Refrigerant

Sound power level

Cooling system

Temperature range

External cabinet finish

Internal liner material

Power failure alarm

Fault: warning signal Volt-free alarm contact

Connectivity solution

Adjustable shelves Shelf material

Shelf loading / device

Usable shelf area in mm (w / d)

Connectivity type

Interface

Handle

Type of lock

Door hinges

Accessories

Gross / net weight

Full-depth drawer

Castors Ø 80 mm

Castors Ø 100 mm

Side-by-Side set

SmartModule

Adjustable feet, 90 - 120 mm

Adjustable feet, 150 - 180 mm

Additional lock barrels (up to 5)

Door material

Type of control

Defrost

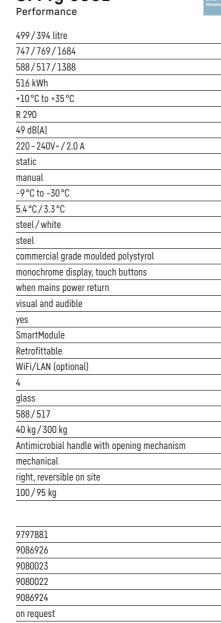
Exterior dimensions in mm (w/d/h)

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

Ambient temperature range

Voltage / Connection rating

Gradient 2 / max. fluctuation 3





SFFfg 4001

Performance	M
316/242 litre	
597/654/1884	
403/402/1588	
384 kWh	
+10°C to +35°C	
R 290	
49 dB(A)	
220 - 240V~ / 2.0 A	
static	
manual	
-9°C to -30°C	
5.2°C/2.4°C	
steel/white	
steel	
commercial grade moulded polystyrol	
monochrome display, touch buttons	
when mains power return	
visual and audible	
yes	
SmartModule	
Retrofittable	
WiFi/LAN (optional)	
5	
glass	
403 / 402	
40 kg / 270 kg	
Antimicrobial handle with opening mechanism	
mechanical	
right, reversible on site	
82 / 76 kg	
9086926	
9080023	
9080022	
9086924	

on request

on request

6145269

on request

6145269

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.



MediLine

141/130 litre



LGUex 1500	
MediLine	



LKexv 1800 MediLine

LCexv	4010
MediLine	



Gross / net capacity
Exterior dimensions in mm (w/d/h)
Interior dimensions in mm (w/d/h)
Energy consumption in 365 days ¹
Ambient temperature range
Refrigerant
Sound power level
Voltage / Connection rating
Cooling system
Defrost
Temperature range
Gradient ² /max. fluctuation ³
External cabinet finish
Door material
Internal liner material

Type of control Power failure alarm Fault: warning signal Volt-free alarm contact Connectivity type Connectivity solution

Interface Adjustable shelves Shelf material

Shelf loading Drawers Number of baskets Compartment height in mm

Handle

Type of lock

Door hinges

Accessories Glass shelf

Roller bars

Gross / net weight

Stacking kit, white

SmartCoolingHub

Additional lock barrels (up to 10)

Usable shelf area in mm (w / d)

60	1/618/820
44	0/435/670
31	5 kWh
+1	0°C to +35°C
Rδ	600a
47	dB(A)
22	0-240V~/1.0 A
for	rced-air
au	tomatic
+3	°C to +16°C
3.9	9°C/4.8°C
ste	eel/white
ste	eel
CO	mmercial grade moulded poly
LE	D 7-segment display with but
wh	nen mains power return
vis	sual and audible
ye	S
Sn	nartCoolingHub
Re	trofittable
RS	485
3	
gla	ass
44	0/420
40	kg
_	

slimline handle with integrated opening

mechanism

mechanical

41/38 kg

9293629

9592697

9590521

6125784

right, reversible on site

)	
)	
·	
С	
.0 A	
ade moulded polysty:	rol
t display with buttons	S
ower return	
ible	
lub	

MediLine	Tionico
139 / 129 litre	
601/618/820	
454/450/663	
294 kWh	
+10°C to +35°C	
R 600a	
45 dB(A)	
220 - 240V~ / 1.0 A	
static	
manual	
-9°C to -26°C	
6.6°C/3.3°C	
steel/white	
steel	
commercial grade moulded polys	styrol
LED 7-segment display with butt	ons
when mains power return	
visual and audible	
yes	
SmartCoolingHub	
Retrofittable	
RS485	
evaporator plates	
454 / 450	
24 kg	
3	
1	
1×149	
slimline handle with integrated o	pening
mechanism	
1 1 1	

mechanical

43 / 42 kg

9592697

9590521

6125784

on request

right, reversible on site

I۲I	reartine
18	30 / 160 litre
60	00/600/860
5]	13/441/702
32	28 kWh
+]	10°C to +30°C
R	600a
47	7 dB(A)
22	20-240V~/1.0 A
fo	rced-air
aı	utomatic
_	1°C to +15°C
	0.2°C/7.4°C
st	eel/white
st	eel
CC	ommercial grade moulded polystyrol
_	otary control with digital thermometer
_	
3	
gl	ass
51	13/412
4() kg
40) kg
er	gonomic slimline handle
m	echanical
ric	aht reversible on site

+10°C to +30°C
R 600a
47 dB(A)
220 - 240V~ / 1.0 A
forced-air
automatic
+1°C to +15°C
10.2°C/7.4°C
steel/white
steel
commercial grade moulded polystyrol
Rotary control with digital thermometer
3
glass
513 / 412
40 kg
ergonomic slimline handle
mechanical
right, reversible on site
41/38 kg
41 / 30 ky
9293631

Gross/net capacity fridge comp	artment 254/240 litre
Gross / net capacity freezer com	partment 107/105 litre
exterior dimensions in mm (w/d/h)	601/618/2003
nterior dimensions in mm (w/d/h) fridge comp	artment 440/441/1105
nterior dimensions in mm (w/d/h) freezer com	partment 433 / 433 / 597
nergy consumption in 365 days ¹	657 kWh
Ambient temperature range	+10 °C to +35 °C
Refrigerant	R 600a
Sound power level	52 dB(A)
/oltage / Connection rating	220-240V~/1.5 A
Cooling system fridge / free	zer comp. forced-air/static
Defrost fridge/free	zer comp. automatic / manual
emperature range fridge / free	zer comp. +3 °C to +16 °C / -9 °C to -30 °C
Gradient ² fridge / free	zer comp. 4.0 °C / 7.9 °C
1ax. fluctuation ³ fridge / free	zer comp. 3.9 °C / 5.5 °C
external cabinet finish	steel/white
Door material	steel
nternal liner material	commercial grade moulded polystyrol
ype of control	LED 7-segment display with buttons
Power failure alarm	when mains power return
ault: warning signal	visual and audible
/olt-free alarm contact	yes
Connectivity type	SmartCoolingHub
Connectivity solution	Retrofittable
nterface	RS485
Adjustable shelves fridge comp	artment 4
Shelf material fridge / free	zer comp. glass/glass
Jsable shelf area in mm (w / d) fridge comp	<u>440 / 409</u>
Shelf loading fridge / free	zer comp. 40 kg / 24 kg
Orawers freezer com	partment 3
landle	slimline handle with integrated opening mechanism
ype of lock	mechanical
Ooor hinges	right, reversible on site
Gross / net weight	92/85 kg
Accessories	
Glass shelf	9293629
Product temperature sensor	9590145
SmartCoolingHub	6125784
Roller bars	9592756
Additional lock barrels (up to 10)	on request

Accessories

Laboratory refrigerators and freezers with stainless steel inner liner



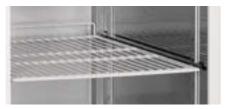
Side-by-side set

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



U-shaped trayslides

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



Plastic-coated grid shelf

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

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



Stacking Kit

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



Evaporator cover

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



Roller bars and height-adjustable feet

The sturdy castors to facilitate transport and allow cleaning underneath and behind the appliance. Two roller sets including mounting accessories are supplied. The height-adjustable feet create the necessary clearance for easy cleaning under the appliance. With an individually adjustable height of 90 to 120 mm, they perfectly compensate for any unevenness on the floor.



Product temperature sensor

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



Foot-pedal door opener

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



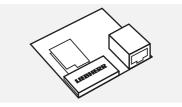
SmartCoolingHub

The SmartCoolingHub provides the basis for connecting your professional Liebherr appliances. Up to 20 network-capable Liebherr appliances can be connected via cable.



Plastic-coated grid shelf

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



SmartModule

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



Long drawer

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

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



SmartCoolingHub

The SmartCoolingHub provides the basis for connecting your professional Liebherr appliances. Up to 20 network-capable Liebherr appliances can be connected via cable.



Product temperature sensor

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



Special locking

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



Glass shelf

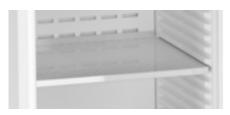
Additional shelves made of high-quality safety glass not only the increase storage space but also make it easier to see the goods. They are ideal for storing smaller containers or materials. In addition, the shatterproof glass shelves are quick and easy to clean.



Side-by-side set

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

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



Perforated metal shelf

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



Flexible scanner rail

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



Base grid

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

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



Height-adjustable feet

The height-adjustable feet create the necessary clearance for easy cleaning under the appliance. With an individually adjustable height of 90 to 120 mm, they perfectly compensate for any unevenness on the floor.



Perforated metal shelf

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



Flexible scanner rail

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

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



Product temperature sensor

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



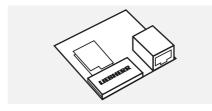
SmartCoolingHul

The SmartCoolingHub provides the basis for connecting your professional Liebherr appliances. Up to 20 network-capable Liebherr appliances can be connected via cable.



Special locking

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



SmartModule

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



Long drawer

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



Side-by-side set

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



Glass shelf

74

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



Stacking Kit

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



Roller bars

The sturdy castors within the roller bars to facilitate transport and allow cleaning underneath and behind the appliance. Two roller sets including mounting accessories are supplied.

