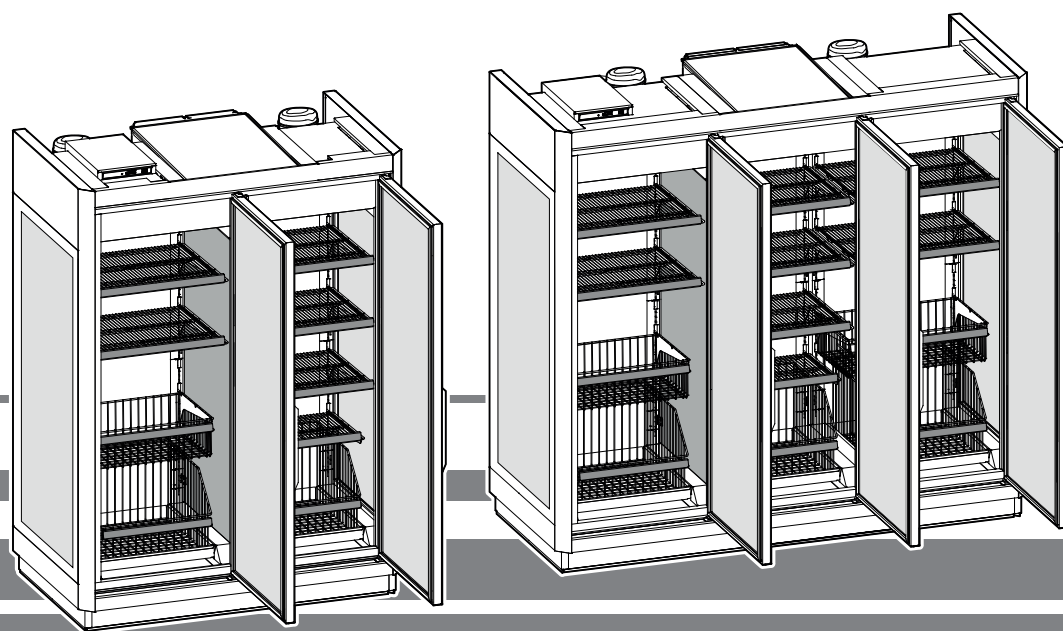


Operating instructions

Supermarket cabinet

EN

Read the operating instructions before switching on for the first time



Cliff 156

Cliff 234

7085 921-00

LIEBHERR

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The manufacturer is continually working on the further development of all types and models. Please be aware that we reserve the right to make changes to the shape, equipment and technology.

Open source licences:

The appliance contains software components that use open source licences. Information on the open source licences used can be found here: home.liebherr.com/open-source-licences

These operating instructions apply to:

- Cliff 156
- Cliff 234

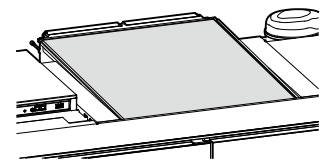
General safety instructions

Please keep these operating instructions in a safe place so you can refer back to them at any time. If you pass the appliance on, please hand these operating instructions to the next user.

Read these operating instructions carefully before use to ensure safe and correct use of the appliance. Follow the instructions, safety instructions and warning messages included at all times. They are important for ensuring you can operate and install the appliance safely and without any problems.

Danger for the user:

- This device can be used by children aged 8 and above and people with impaired physical, sensory or mental abilities or with a lack of experience and knowledge provided that they are supervised or have received instruction in the safe use of this appliance, and about the resulting hazards. Children must not play with this appliance. Cleaning and user maintenance work must not be carried out by children without adult supervision.
- The socket must be easily accessible so that the appliance can be disconnected quickly from the electricity supply in an emergency. It must not be located in the area behind the appliance.
- When disconnecting the appliance from the supply, always take hold of the plug. Do not pull the cable.
- In the event of a fault pull out the mains plug or deactivate the fuse.
- **WARNING:** Do not damage the mains power cable. Do not operate the appliance with a defective mains power cable.
- **WARNING:** Multiple sockets/distributors and other electronic equipment (such as halogen transformers) must not be placed or operated at the rear of the appliance.
- **WARNING:** Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Only customer service or other specially trained staff may repair or perform other operations on the appliance.
- Only assemble, connect and dispose of the appliance according to the instructions.



Fire hazard:

- The coolant used (information on the model plate) is ecofriendly but also flammable Any leaking coolant may ignite.
- **WARNING:** Do not damage refrigeration circuit.
- Do not handle ignition sources inside the appliance.
- **WARNING:** Do not use electrical appliances in the fridge compartment which do not comply with the design recommended by the manufacturer.
- If the refrigerant leaks: remove any naked flames or ignition sources from the vicinity of the leakage point. Properly air the room. Inform customer services.
- Do not operate the appliance close to explosive gases.
- Do not store or use petrol or other flammable gases and liquids close to the appliance.
- Do not store any explosive substances, such as aerosol containers with flammable propellant gas, in the appliance. To identify these spray cans, look for the list of contents printed on the can, or a flame symbol. Gases possibly escaping may ignite due to electrical components.
- Keep burning candles, lamps and other items with naked flames away from the appliance so that they do not set the appliance on fire.
- Please be sure to store alcoholic drinks or other packaging containing alcohol in tightly closed containers. Any alcohol that leaks out may be ignited by electrical components.
-

Danger of tipping and falling:

WARNING: To avoid hazards due to instability, the device must be secured according to the instructions.

Do not misuse the plinth, drawers, doors etc. as a step or for support.

Danger of frostbite, numbness and pain:

Avoid prolonged skin contact with cold surfaces or refrigerated/frozen goods or take protective measures, e.g. wear gloves.

Danger of injury and damage:

- **WARNING:** Do not use mechanical equipment or other methods to speed up the defrosting process other than those recommended by the manufacturer.
- **WARNING:** Risk of injury due to electric shock! There are live electrical parts under the cover. risk of injury from the LED lamp. Only carry out repair and other work on the appliance when the mains plug has visibly been disconnected. The light intensity of the LED light complies with laser class RG 2. If the cover is defective, do not look directly at the light through optical lenses from close distance. This may damage your eyes. Only have the LED interior lighting replaced or repaired by customer service or other suitably trained professionals.
- **NOTICE:** Appliance must only be used using original manufacturer accessories or using accessories from other providers approved by the manufacturer. The user bears the risk of using accessories which are not approved.
- Ensure that food which has been stored for too long is not consumed. Dispose of food which has been stored for too long properly.
- To prevent injury and damage to property, the appliance should only be installed by 3 people.
- After unpacking it, check the appliance for signs of damage. Contact the supplier if it is damaged. Do not connect the appliance to the mains power supply.

Risk of crushing:

Do not hold the hinge when opening and closing the door. Fingers may get caught.

Specialist personnel qualifications:

Specialist personnel are persons who, on account of their specialist training, knowledge and experience as well as their knowledge of the relevant standards, are able to assess and perform the work assigned to them and identify potential hazards. They must have training, instruction, and authorisation to work on the appliance.

Symbols on the appliance



This symbol may be located on the compressor. It relates to the oil in the compressor and makes reference to the risk that: **Swallowing or inhaling can be fatal**. This advice is only relevant to recycling. There is no danger in normal operation.



WARNING: Danger of fire/flammable materials. This symbol is located on the compressor and indicates the danger of flammable materials. Do not remove the sticker.



This or a similar sticker may be located on the rear of the appliance. This sticker indicates that there are vacuum insulation panels (VIP) or perlite panels in the door and/or housing. This advice is only relevant to recycling. Do not remove the sticker.

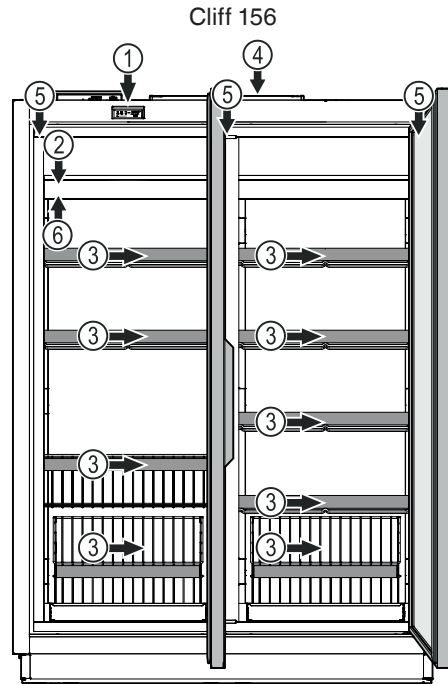


WARNING: Cold surface! Only touch with suitable hand protection. This or similar sticker may be on the appliance and indicates the danger of frostbite.

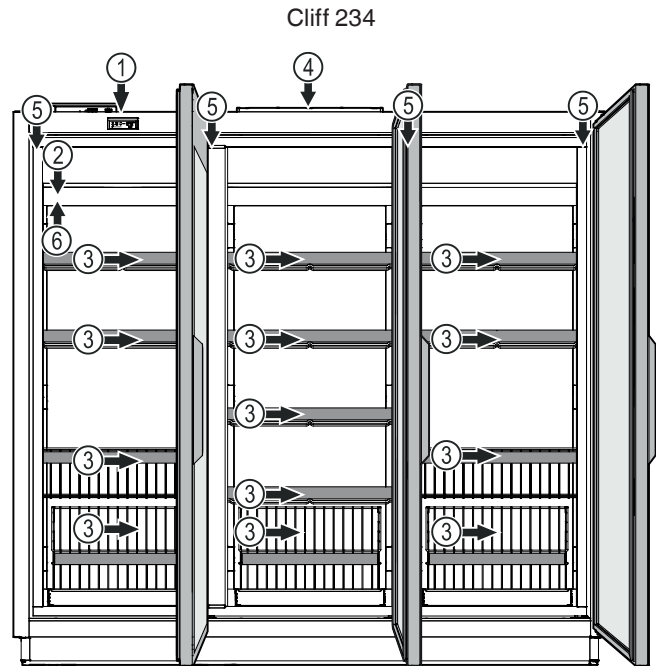
Please note the warning messages and other specific advice in the other chapters:

	DANGER	Indicates an immediately hazardous situation which will lead to death or serious injuries if it is not avoided.
	WARNING	Indicates a hazardous situation which will lead to death or serious injuries if it is not avoided.
	CAUTION	Indicates a hazardous situation which will lead to minor or moderate injuries if it is not avoided.
	NOTICE	Indicates a hazardous situation which may lead to damage to property if it is not avoided.
	Note	Indicates useful instructions and tips.

Overview of appliances and equipment



Example illustration



Example illustration

- (1) Operating and control elements
- (2) Type plate
- (3) Equipment (Grid shelves, Hanging basket, Pull-out basket)
- (4) Dust filter
- (5) Interior light (LED light strips)
- (6) Load sticker

Range of use of appliance

Intended use

This freezer is appropriate for the professional storage of frozen foodstuffs. This appliance is intended for the presentation or removal of foodstuffs by customers.

The appliance is only designed for use in closed rooms.

All other types of use are not permitted.

Foreseeable incorrect use

The following uses are expressly forbidden:

- Storage and refrigeration of:
 - Chemically unstable flammable or corrosive substances
 - Medicines, blood plasma, laboratory preparations or similar substances and products based on the Medical Device Directive 2007/47/EC.
- Use in potentially explosive atmospheres.
- Use outdoors or in areas exposed to dampness and splashing water.
- Use in residential areas because adequate protection of radio reception cannot be ensured in such environments.*

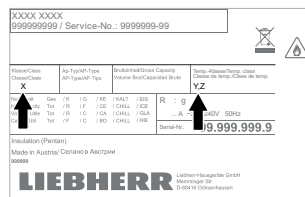
This appliance is only suitable for storing food that has already been frozen. Improper use of the appliance will result in goods stored being damaged or spoiled.

Climate classes

The applicable climate class for your appliance is printed on the type plate.

The climate class [X] specifies the ambient conditions in which the appliance can be operated safely.

The climate class [Y] and temperature class [Z] define the maximum outline conditions in which the appliances will operate perfectly.



[X,Y] Climate class	Max. room temperature	Max. relative humidity
0	20 °C	50 %
1	16 °C	80%
2	22 °C	65%
3	25 °C	60 %
4	30 °C	55 %
5	40 °C	40 %
7	35 °C	75 %

The minimum room temperature at the place of installation is +16°C.

At limit conditions, slight condensation may form on the glass door (depending on the equipment) and on the side walls..

Recommended temperature setting:

[Z] Temperature class	Temperature setting
L1	-19 °C / -21°C *

* Depending on model and options

Appliance noise emissions

The A-weighted emission sound pressure level during operation of the appliance is under 70 dB(A) (sound power rel. 1 pW).

Conformity

The coolant circuit has been tested for leak-tightness. The appliance complies with the relevant safety regulations.

EU Declaration of Conformity	
Manufacturer/Exhibitor:	LIEBHERR-HAUSGERÄTE LIENZ GMBH
Address:	A-9900 Lienz, Dr. Hans Liebherr Straße 1
The designated product complies with the provisions of the following European directives and regulations: 2019/2020, 2019/2024, 2019/2018, 2017/1369, 2006/42/EC, 2014/30/EU, 2009/125/EC und 2011/65/EU.	
The full text of the EU Declaration of Conformity is available at the following web address: www.liebherr.com	

SVHC substances according to REACH regulation

You can check whether your appliance contains SVHC substances according to REACH regulation at the following link:

<https://go.liebherr.com/z3eewm>

EPREL database

Details about the labelling of energy consumption and ecodesign requirements will be available on the European Product Database (EPREL) from 1 March 2021. You can access the product database at the following link: <https://eprel.ec.europa.eu/>. You will be asked to enter the model identification. The model identification can be found on the type plate

Installation requirements

The installation conditions are crucial to ensure that you can operate your appliance safely, efficiently and without problems.

- Observe all safety instructions.
- Consider the location and position in the room.

WARNING

Danger of fire due to incorrect positioning!

If the mains cable or plug touches the back of the appliance, the vibration can damage the mains cable or the plug resulting in a short circuit.

- ▶ Make sure the mains cable is not trapped under the appliance when you position the appliance.
- ▶ Stand the appliance so that it is not touched by connectors or main cables.
- ▶ Do not connect any appliances to sockets in the area of the back of the appliance.
- ▶ Do not place and operate multi-sockets/power distributors and other electronic devices (such as halogen transformers) at the back of the appliances.

WARNING

Fire hazard due to dampness!

If live parts or the mains lead become damp this may cause short circuits.

- ▶ The appliance is designed for use in enclosed areas. Do not operate the appliance outdoors or in areas where it is exposed to splash water or damp conditions.

WARNING

Leaking coolant and oil!



Leaking coolant and oil! Fire. The coolant contained in the appliance is eco-friendly, but also flammable. The oil contained in the appliance is flammable. Escaping coolant and oil can ignite if the concentration is high enough and in contact with an external heat source.

- ▶ Do not damage the pipelines of the coolant circuit and the compressor.

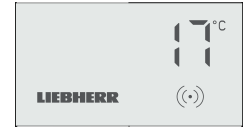
Installation site

- A dry and well-ventilated room is an optimum installation location.
- If the appliance is installed in a very damp environment, condensation may form on the appliance exterior. Always make sure there is good ventilation and aeration at the installation site.
- The more refrigerant there is in the appliance, the larger the room must be in which it is located. In rooms that are too small, a leak can produce a flammable gas/air mixture. For every 8 g of refrigerant, the installation room must be at least 1 m³ in size. Information on the refrigerant contained is given on the type plate inside the appliance.
- The floor on which the appliance stands must be horizontal and level.
- The site of use must be able to bear the weight of the device including the maximum load. (see Technical specifications)



Switching the appliance on

- ▶ Activate setup mode using the release key. 
- ▶ Press the  button.

The display will show the current temperature inside the appliance.




Switching the appliance off

- ▶ Activate setup mode using the release key. 
- ▶ Press and hold the  button for 5 seconds.
- ▶ The temperature display will go out.
- ▶ The interior light will go out.

The release key symbol (dot) will still be lit to show that the appliance is connected to the electricity supply.

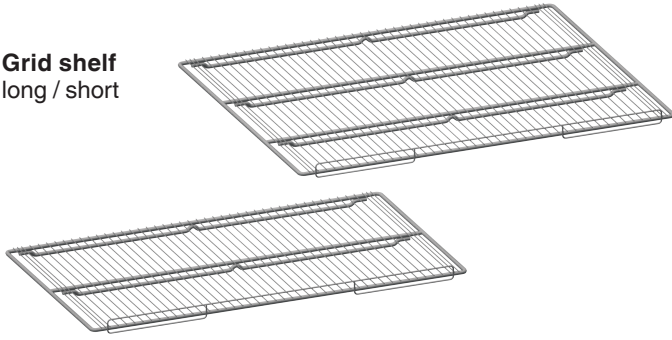


Note

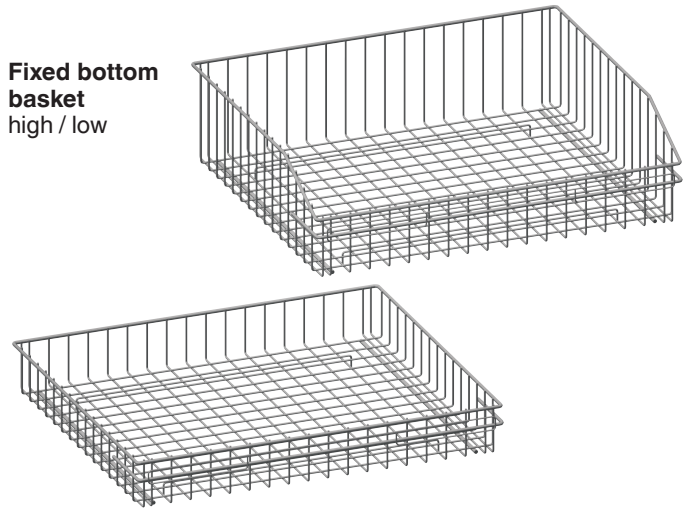
If the appliance has been switched off using the  button, the refrigeration system is switched off but the appliance has not been fully disconnected from the mains.

Equipment *

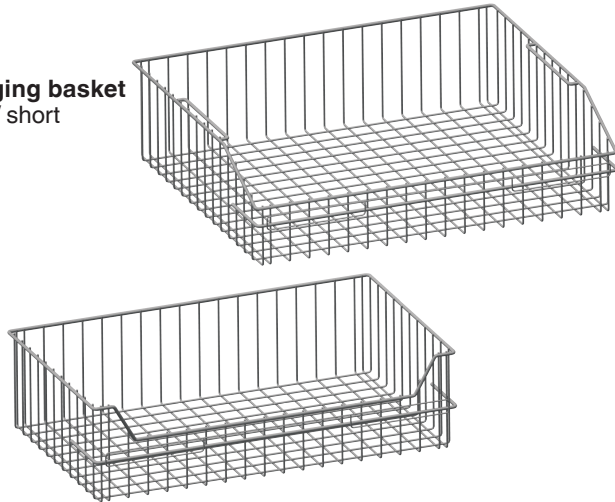
Grid shelf
long / short



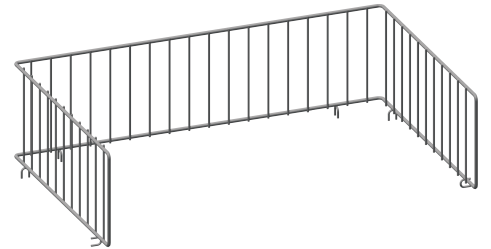
Fixed bottom basket
high / low



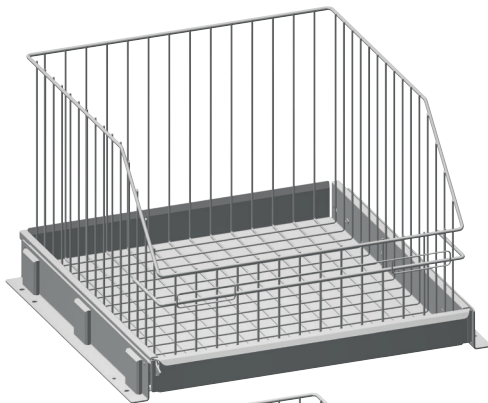
Hanging basket
long / short



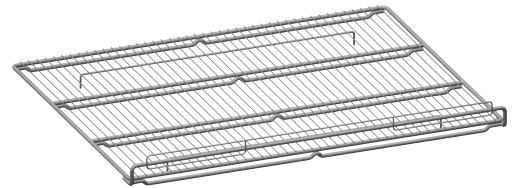
Basket extension



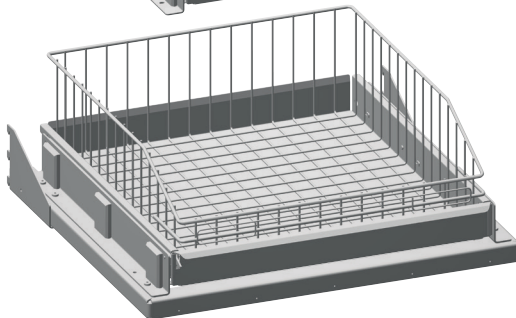
Pull-out bottom basket
high / low



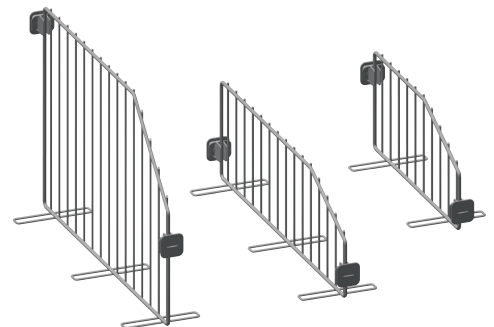
Bottom grid shelf



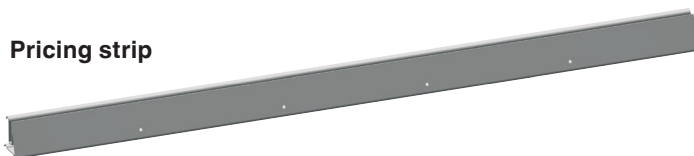
Pull-out basket
high / low



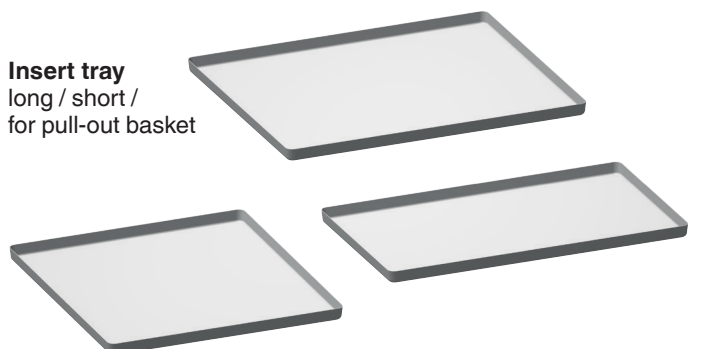
Dividers
Long (high / low)
Short (low)



Pricing strip



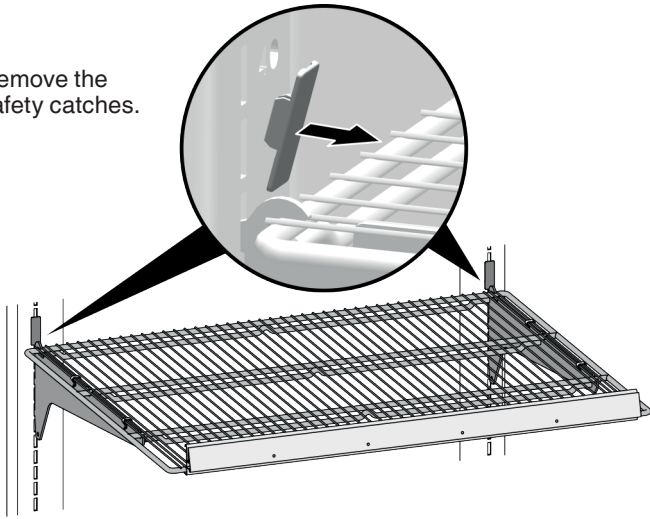
Insert tray
long / short /
for pull-out basket



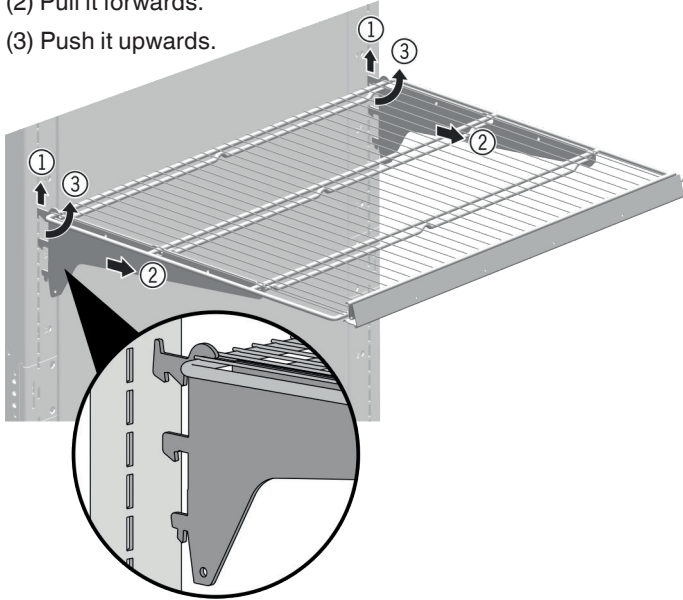
* Depending on model and options

Repositioning the shelves

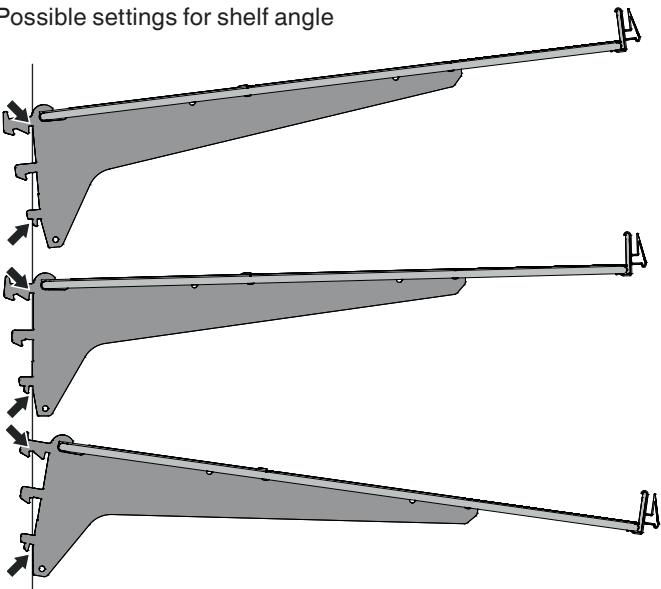
Remove the safety catches.



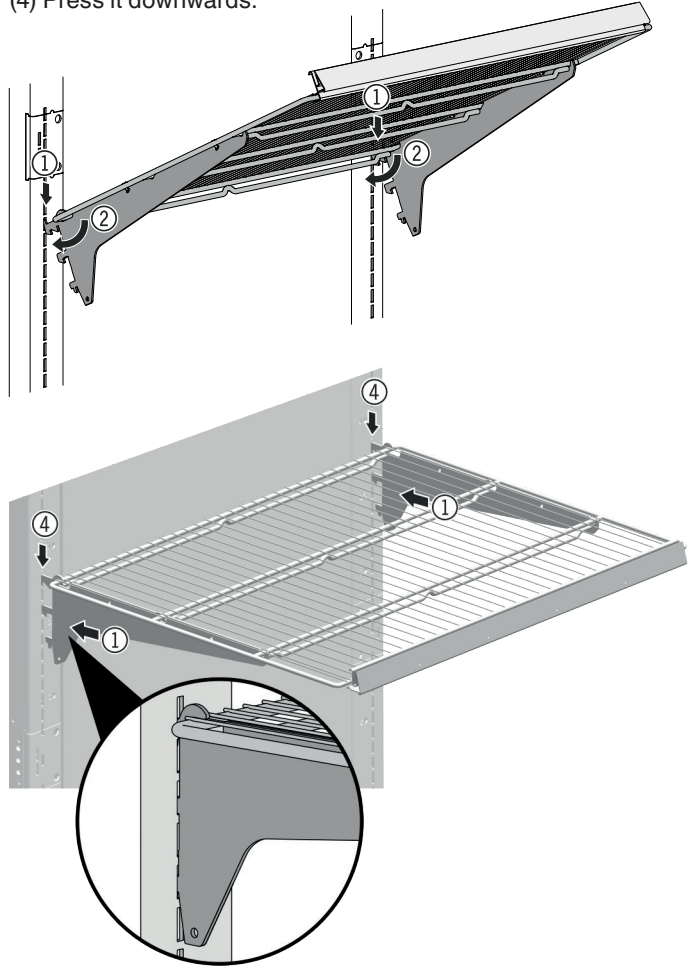
- (1) Push the shelf upwards on both sides.
- (2) Pull it forwards.
- (3) Push it upwards.



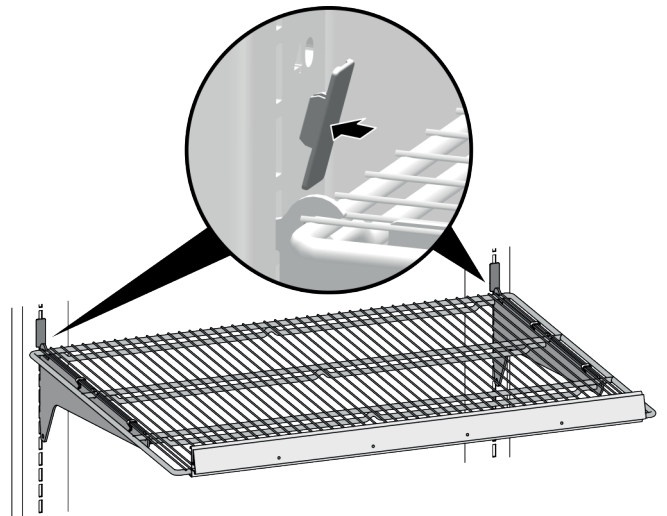
Possible settings for shelf angle



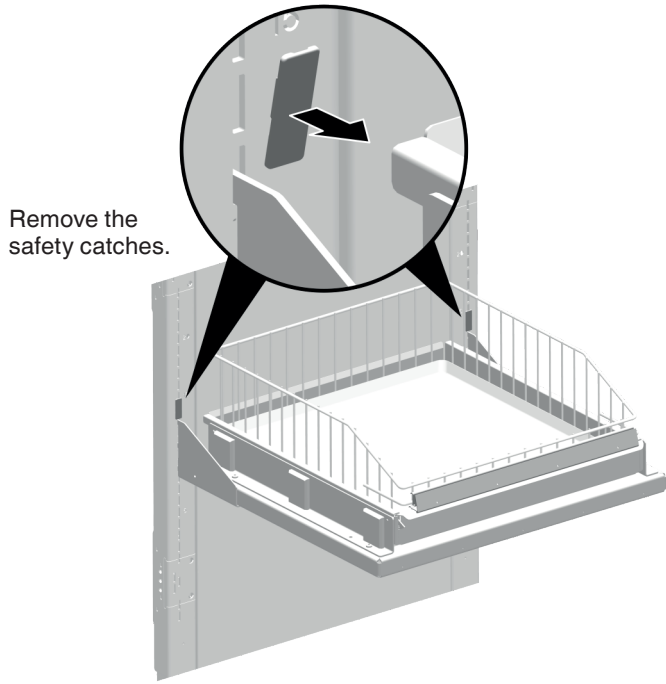
- (1) Attach the shelf at the top.
- (2) Pull it downwards.
- (3) Push it towards the rear.
- (4) Press it downwards.



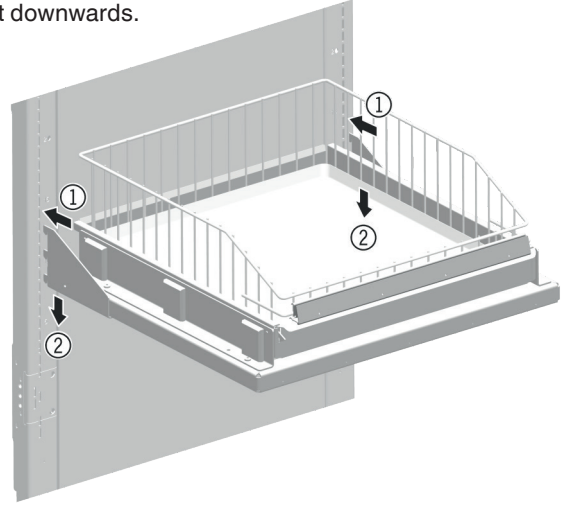
Install the safety catches.



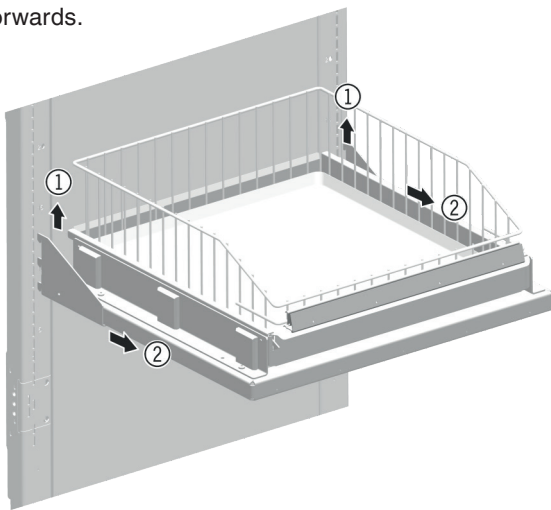
Repositioning the pull-out basket



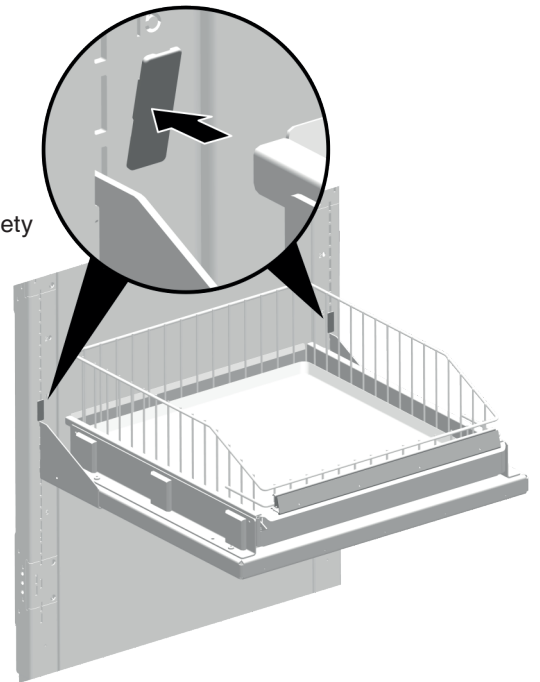
- (1) Attach the shelf and push it towards the rear.
- (2) Press it downwards.



- (1) Push the shelf upwards on both sides.
- (2) Pull it forwards.

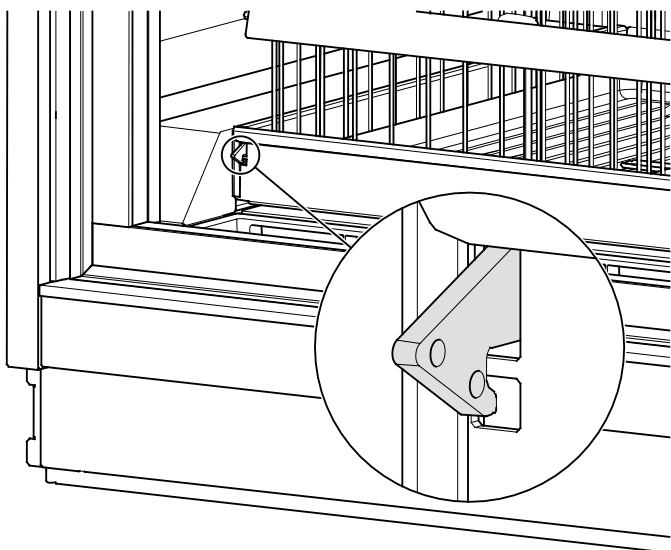


Install the safety catches.

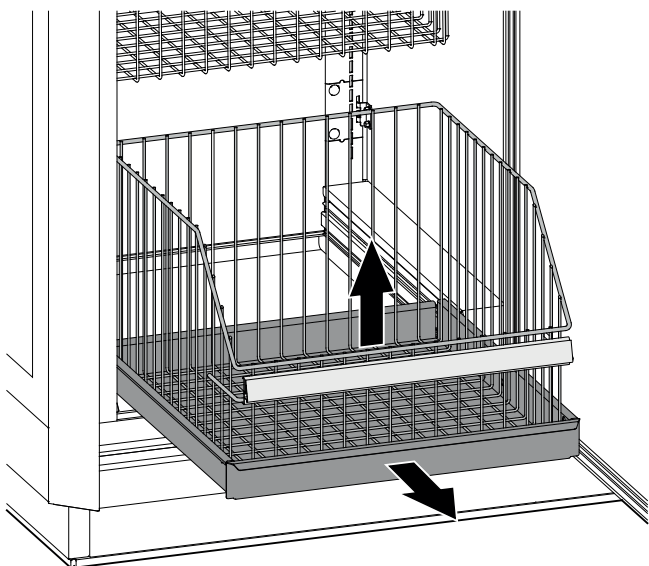


Removing the pull-out basket

Push the pull-out compartment backwards, lift the safety catch.



Remove the pull-out shelf. Remove the pull-out basket by lifting it upwards.



Note

Do not climb into the pull-out drawer!

Storage

Note

Failure to follow these guidelines can lead to food becoming spoiled.

When stocking observe the following:

- If storage surfaces are movable, adjust them according to height.
- Observe maximum load weight. (see Technical specifications)
- Do not load appliance until storage temperature has been reached (maintain cold chain).
- Kühlgut ragt nicht über die Ablageflächen hinaus.
- Refrigerated items do not protrude beyond the shelves.
- Leave space when storing items for refrigeration to ensure good air circulation.

This is important for free air circulation and even temperature distribution in the interior

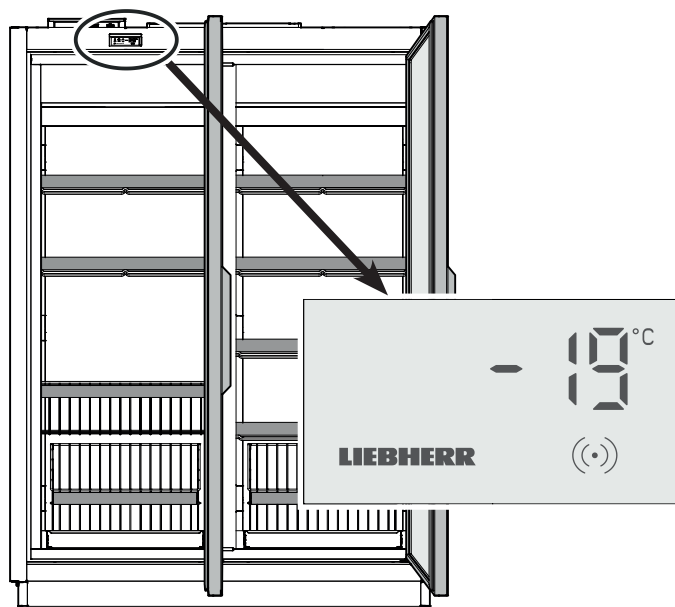
Storage times

The best-before date specified on the packaging should be used as the reference point for the storage time.

Display in indicating mode

After being commissioned by the team of technicians, the display will be in indicating mode.

The display shows the current interior temperature.



Note

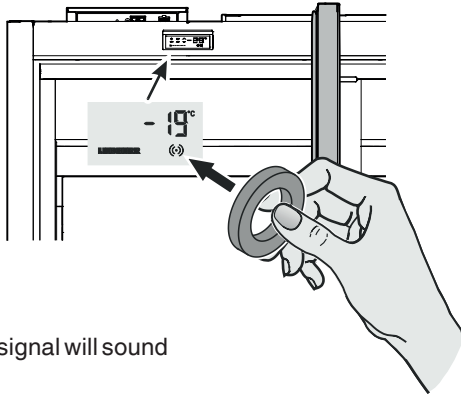
The goods must not be inserted until -18°C is shown in the display..

Setup mode

The supplied release key is required to activate setup mode.

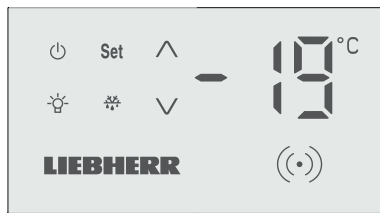
Activating setup mode

Touch the activation point on the display with the release key (magnet).



An audible warning signal will sound for 1 second.














































The operating symbols are displayed.



Note

If no button is pressed for 2 minutes, the electronic control system will automatically switch back to indicating mode.

Setting the real time clock

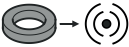
- ▶ Activate setup mode using the release key 
- ▶ Press and hold the **Set** button for 5 seconds. Display = 
- ▶ Press . Display = 
- ▶ Press **Set**. Display =     
- ▶ Set the hour by pressing the   buttons.
- ▶ Press **Set**. Display =     
- ▶ Set the minute by pressing the   buttons.
- ▶ Press **Set**. The new setting will be saved.
- ▶ The electronic control system will switch back to indicating mode.
- ▶ Press and hold the **Set** button for 5 seconds. Display = 
- ▶ Press . Display = 
- ▶ Press . Display =  
- ▶ Press **Set**. Display =     
- ▶ Set the year by pressing the   buttons.
- ▶ Press **Set**. Display =     
- ▶ Set the month by pressing the   buttons.
- ▶ Press **Set**. Display =     
- ▶ Set the day by pressing the   buttons.
- ▶ Press **Set**. The new setting will be saved.
- ▶ The electronic control system will switch back to indicating mode.

Changing the temperature setting

The desired temperature can be set between -18°C and -23°C.

Depending on the customer's version, different control areas may be blocked or released.

Proceed as follows:

- ▶ Activate setup mode using the release key 

The current temperature inside the appliance is displayed.

- ▶ Press  → **-23** flashes.
- ▶ Press **Set** → The new setting will be saved.

The electronic control system will switch back to indicating mode

Note

Repeat these steps to reset the temperature to -18°C.

Press the  button instead of the  button.

Note

The temperature in the warmest area of the interior may be warmer than the temperature setting.

Note

If the door is left open for a lengthy period, the temperature in the appliance's compartments may rise dramatically.

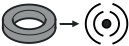


Activating the defrost function manually


The appliance defrosts automatically.

Increased frost may form on the interior container in high ambient temperature and humidity.

In this case, activate the defrost function manually.

Proceed as follows:

- ▶ Activate setup mode using the release key 
- ▶ Press  →  flashes.
- ▶ Press **Set**. The defrosting process will be started.

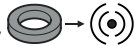


The electronic control system will switch back to indicating mode. The LED  will be lit until the defrosting process is finished.



Interior light *

Switch the interior light on or off as required.

Switching on the interior light

- ▶ Activate setup mode using the release key 
- ▶ Press  →  flashes.
- ▶ Press **Set**. The interior light is switched on.

Note

Repeat these steps to switch off the interior light again.

Prepare cleaning

WARNING

Short-circuit hazard due to live parts!
Electric shock or damage to the electronics.

- ▶ **Switch off the appliance..**
- ▶ Pull out mains plug or switch off fuse.

Cleaning the glass door

Exterior glass surfaces:

- ▶ Clean the glass surfaces on the outside with a commercially available glass cleaner and a soft cloth.

Anti-fog film (interior):

- ▶ **NOTICE:** Risk of damage to the anti-fog coating! The film must only be cleaned at a surface temperature of at least +10 °C. If cleaned at lower temperatures, the film cannot be cleaned professionally and may be permanently damaged.
- ▶ If necessary, defrost the device in good time or leave the doors open until the interior surfaces have reached the required temperature.
- ▶ When the surface becomes dirty due to fingerprints, wipe them off with a soft cloth soaked in water (or neutral detergent diluted with water) - do not rub roughly.
- ▶ If you use alcohol-based cleaning products, their alcohol content must not exceed 35 %.
- ▶ **IMPORTANT:** Any residues of cleaning agents must then be removed cleanly and completely from the film.
- ▶ Do not use chemicals or solvents.
- ▶ Do not use brushes or abrasives.
- ▶ Do not rub with sharp objects or hard objects.
- ▶ Do not spill or spray liquids directly on the film.
- ▶ Do not remove the film once applied on the glass door: adhesive properties will vanish once removed.
- ▶ Do not use, store or leave the film in hot places or under a direct source of heat, e.g. by the fire, near a heater, etc.

Cleaning the housing and interior

NOTICE

Improper cleaning! Damage to the appliance.

- ▶ Only use soft cleaning cloths and ph-neutral all-purpose cleaners.
- ▶ Do not use abrasive sponges or steel wool which may cause scratches.
- ▶ Do not use any sharp or abrasive cleaning agents, nor any that contain sand, chloride or acid.



WARNING

Risk of injury and damage as a result of hot steam! Hot steam can lead to burns and can damage the surfaces..

- ▶ Do not use any steam cleaners!

NOTICE

Risk of damage due to short circuit!

- ▶ When cleaning the appliance, make sure no water gets into the electrical components.

Note

- ▶ Do not damage or remove the type plate on the inside of the appliance. The type plate is important for Customer Service

Surfaces which may come into contact with food and accessible drain systems must be cleaned at regular intervals!

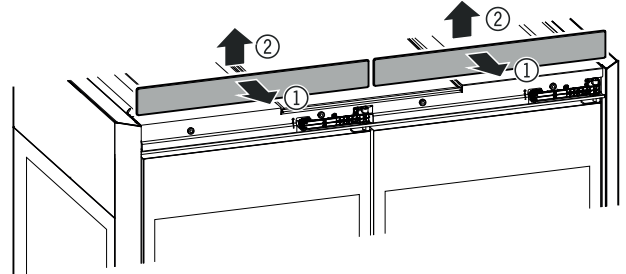
- ▶ Wipe the housing down with soft, clean cloth. If very dirty, use lukewarm water with a neutral cleaner. Glass surfaces can also be cleaned with glass cleaner.
- ▶ Clean interior and equipment parts with lukewarm water and a little detergent. Do not use any gritty or acidic cleaning agent or any chemical solvent.
- ▶ Use a commercially available stainless-steel cleaning agent for stainless-steel appliances..
- ▶ Dry all parts well with a cloth

Cleaning the dust filter

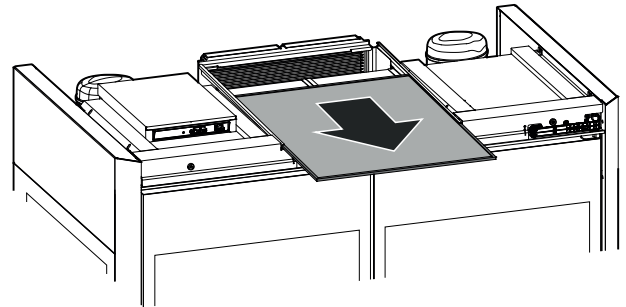
The dust filter must be checked at least once a year and more often if necessary.

The cover is held in place by magnets which means that no tools are required for removal.

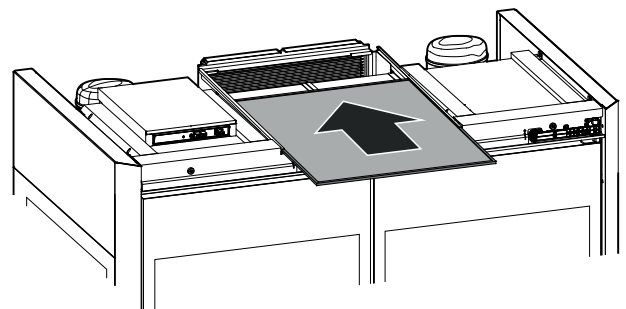
- (1) Tip the top of the cover forwards.
- (2) Remove it upwards.



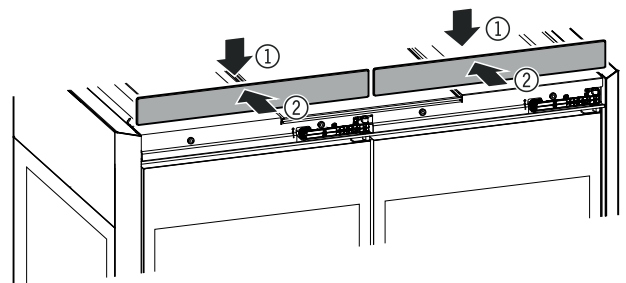
Pull the dust filter towards the front.



Vacuum the dust filter and clean it by hand with water and detergent. Dry the filter.

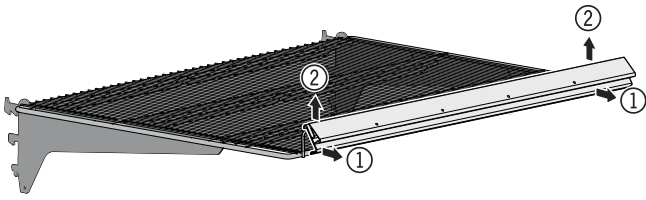


Attach the cover (1) and push it towards the rear (2).

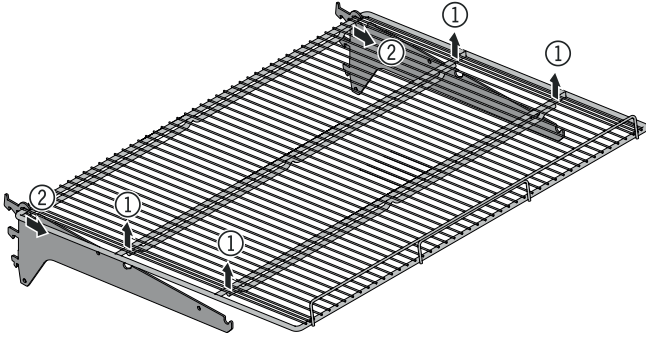


Cleaning the shelves

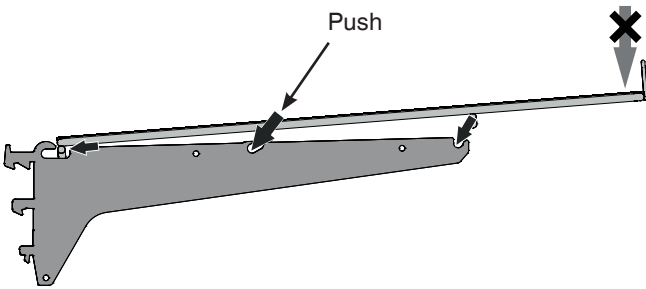
Remove the pricing strip.



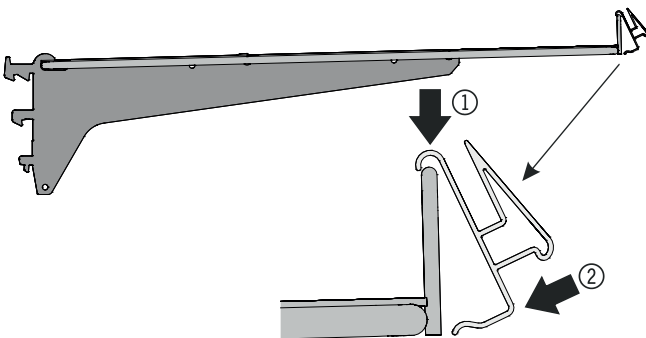
Remove the grid shelf.



Install the grid shelf.



Install the pricing strip. (depending on configuration)



Malfunctions

The release key symbol (dot) will flash in the event of a malfunction or if the appliance is defective.



Proceed as follows:

- ▶ Activate setup mode using the release key

Either a **flashing temperature display** or an **error code** will appear in the display.

Action to take if the temperature display is flashing

- ▶ First check whether the appliance doors are closed.

If the temperature falls after closing the doors, no further action is required.

If no drop in temperature is apparent after approx. 10 minutes:

- ▶ Transfer the goods immediately to other appliances.
- ▶ Notify the customer service department.

Customer service

First check whether you can remedy the fault yourself. If this is not the case, please contact Customer Service. You will find the address in the enclosed "Liebherr-Service" brochure, at home. liebherr.com/service or in the individual service flyer..

Make sure you have the following appliance data at the ready:

- Appliance name (model and index)
- Service no. (Service)
- Serial no. (S no.)
- ▶ Retrieve appliance information via the display or refer to the type plate for appliance information. (The position of the service type plate is shown in the section entitled **Description of the appliance**.)
- ▶ Note down appliance information.
- ▶ Inform Customer Service: Report faults and the appliance information.
- ▶ This will help us to provide a fast and focussed service.
- ▶ Follow any further instructions provided by Customer Service.

Technical specifications

NOTICE

The maximum load per grid shelf is 130 kg/m².

The maximum load per pull-out basket is 160 kg/m².

Operating mode	Freezing
Description	Cliff
Overall electrical data (including LED lighting)	
Rated voltage	220-240 V
Frequency	50 / 60Hz
Rated current	13 A
Compressor system inverter (frequency converter)	Yes
Fuse on each appliance	RCBO 16 A Characteristic B, C
Length of mains cable	2.50 m
Interface (standard)	CAN bus
Interface (alternative)	MODBUS
Electrical data for LED lighting	
Power consumption	60 W

Lighting	
Class¹	Light source
This product contains a light source that meets energy efficiency rating E	LED
¹ The appliance may contain light sources with different energy efficiency classes. The lowest energy efficiency class is indicated.	

Appliance weight

At least three people are required for the installation work.

	Weight [kg]
Cliff 156	450
Cliff 234	670

Surface load

	Surface load [kg/m²] at maximum weight of the appliance
Cliff 156	900
Cliff 234	860

Error codes

Error code F1, F2, F3, F4, F5, F6 or FE

The temperature sensor in the appliance is defective.

Action

- ▶ Notify the customer service department.

The goods can be left in the appliance since the temperature is maintained by the appliance being in emergency mode.

Error code Ht

The temperature inside the appliance is too warm.


Action

- ▶ Transfer the goods immediately to other appliances.
- ▶ Notify the customer service department.

Error code nA

A mains failure has occurred.

Action

- ▶ Press **Set**  The warmest temperature during the mains failure is displayed.
- ▶ Decide whether the goods can be used depending on the level of the temperature rise.

Alarm channels

Priority	Alarm colour	Meaning
1	Red	Alarm, transmitted even at night
2	Red	Alarm, not transmitted at night
3	Yellow	Alarm, transmitted; however, transmitting the alarm is of lower priority even during the day
0		No alarm; displayed only in the malfunction list, no red colouring in Frigodata XP (when the operating data are selected via the service interface)

Malfunction / Fault

Malfunction/Fault (Technical Wording, Development)	Table of error codes (Customer Service)	Max. Priority CAN ¹	Delay ²	Visual (audible) alarm (flashes)	Display message after unlocking	AUX	CANBus (Wurm, proprietary)	ModBus (LSC) ³
Power failure	Power failure	-	-		Yes (no display)	Yes (alarm = deenergised)	Yes (pseudo-failure)	Yes (pseudo-failure)
Sensor 1 (base sensor) break/short circuit	Air sensor	1	0	Yes	F1	Yes	Yes	Yes
Sensor 2 (stack mark) break/short circuit With LFT002, frame heater accessed	Stack mark sensor	1	0	Yes	F2	Yes/No	Yes/No	Yes/No
Sensor 3 (condenser) break/short circuit	Condenser sensor	1	0	Yes	F3	Yes/No	Yes/No	Yes/No
Sensor 4 (limit sensor) break/short circuit	Evaporator sensor	1	0	Yes	F4	Yes	Yes	Yes
Sensor 5 (motor compartment sensor) break/short circuit	Motor compartment sensor	3	0	Yes	FE	Yes	Yes	Yes
Sensor 5 (motor compartment sensor) High temperature Occurs if PCB temperature reaches 70°C is cancelled again under 60°C	High temperature (Condenser sensor/ Motor compartment sensor)	1	0	Yes	tE Temperatur Engine	Yes	Yes	Yes
Sensor 6 (client sensor)	optional	-	-	-	-	-	-	-
Control actual value, high temperature - Occurs when the control actual value is above the target value plus the high temperature threshold No change of fault status during defrosting	High temperature alarm	1	Parameters long /short [min]	Yes; temperature flashes also	Temp. flashes and ↑	Yes	Yes	Yes
Control actual value, low temperature Occurs when the control actual value is below the target value minus the low temperature threshold No change of fault status during defrosting	Low temperature alarm	1	Parameters long /short [min]	Yes; temperature flashes also	Temp. flashes and ↓	Yes	Yes	Yes

* Depending on model and options

Malfunction/Fault (Technical Wording, Development)	Table of error codes (Customer Service)	Max. Priority CAN ¹	Delay ²	Visual (audible) alarm (flashes)	Display message after unlocking	AUX	CANBus (Wurm, proprietary)	ModBus (LSC) ³
Alarm HT, hot gas alarm	High temperature alarm after defrosting	1	10 s	Yes	Ht	Yes	Yes	Yes
Defrost time too long	-	0 No message from V1.1	0	No	No message from V1.1.	No	No	No
Parameter memory error Checksums test and recovery of parameter memory failed	Parameter memory error	1 Always reported with 1	0	Yes	EE From V.1.1	Yes	Yes	Yes
Bus system address conflict A Can address was assigned twice withdrawn approx. 30 s after change of the address	Bus address conflict	3 Cannot be sent due to conflict	approx. 30 s	Yes	co	Yes	Yes, if malfunction is remedied	No
Bus system address conflict A Modbus address was assigned twice	-			No		No	No	
Bus fault Telegrams cannot be sent withdrawn when communication is re- established or the Can address is set to 0 (no communication)	Bus fault	0 Since LBH001 V1.7x	approx. 30 s		bu	Yes (LBH001); No (LBH002 and LFT001)	Yes (LBH001); No (LBH002 and LFT001)	No
Real-time clock fault The set time is not plausible	Real-time clock	3	0	Yes	rc	Yes	Yes	Yes
Display communication fault Communication with the control panel is faulty	Communication error	2	120 s	Yes	nc (not connected) after 60s	Yes	Yes	Yes
Temperature too high after mains power is connected (from LBH002 in other words all from construction year 2017)	Power failure	No message		No	nA	No	No	No

* Depending on model and options

Malfunction/Fault (Technical Wording, Development)	Table of error codes (Customer Service)	Max. Priority CAN ¹	Delay ²	Visual (audible) alarm (flashes)	Display message after unlocking	AUX	CANBus (Wurm, proprietary)	ModBus (LSC) ³
Interior fan, group fault. Error message does not depend on the number or position of the error. Check interior fan. The message via the bus/malfunction list is generated per fan. Positive message after restart amounts to 120 min (debouncing) The timer only runs if the fan is required.	-	3	45 s	Yes, up until positive message	FA, until positive message	No	Yes	Yes
Failure of several fans If more than 50% of the installed fans fail	Interior fan	1	45 s	Yes; temperature flashes also	FA	Yes	Yes	Yes
Defrost water tray fan	Defrost water tray fan	3	45 s	Yes	Fd	Yes	Yes	Yes
Door open (switch is recognised as defective), group error at the display, individual messages via the bus and in the malfunction list	Door open	0	15 min	No	Do, until door closed again	No	No	No
Wrong type of display (for future applications): Appliance configured as an EU version, but the display is connected with °F or vice-versa. The coding of the display must be set correctly. This is defined in the report. Configuration: Type of chest freezer/country	Wrong type of display	3	0	Yes	FF	Yes	Yes	Yes

¹ Max. priority shows the highest possible priority with which the fault occurring is reported via data line. This is limited by the adjustment of appliance priority (parameter, default 2) at the CAN_{Wurm}*

² Delay: time from occurrence until signalling

³ Depends on the index description, see home.liebherr.com/lsc

Shutting down

If the appliance is left empty for a lengthy period, it must be switched off, defrosted, cleaned and dried and the door is to be left open to prevent mould formation.

Disposal

The appliance contains reusable materials and should be disposed of properly - not simply with unsorted household refuse. Appliances which are no longer needed must be disposed of in a professional and appropriate way, in accordance with the current local regulations and laws.



Do not damage the refrigerant circuit of an appliance that is no longer needed during its disposal.

This appliance contains inflammable gases in the refrigerant circuit and insulation foam.

Your local council or a waste disposal contractor can provide information about how to dispose of the appliance correctly.

Additional information

- Food will remain fresh for longer if stored at the correct temperature. This can prevent having to discard food needlessly.
- If the condenser coil is not cleaned every year, it will significantly reduce the appliance's efficiency.
- The period during which spare parts, necessary for the repair of the refrigerating appliance with a direct sales function, are available is 10 years.
- The minimum duration of the guarantee of the refrigerating appliance with a direct sales function offered by the manufacturer, importer or authorised representative is 2 years.



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