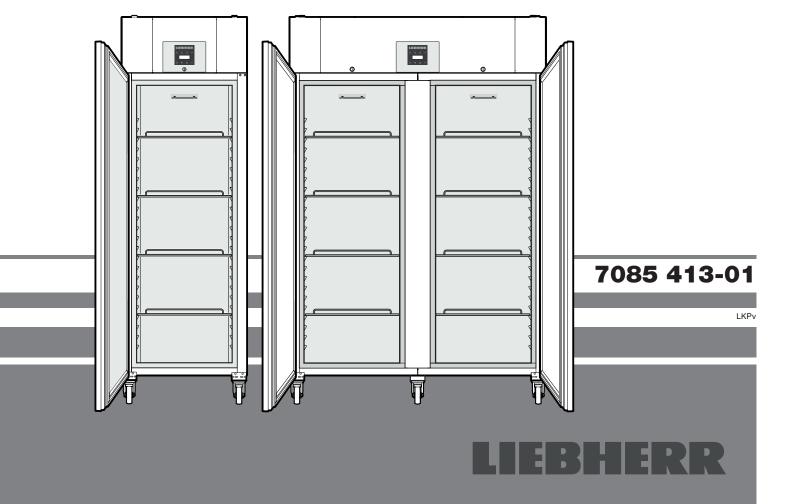
Übersetzung

Operating instructions Refrigerator Read the operating instructions before switching on for the first time





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Cock Cock Type plate** Stacking mark* Grid shelves A Important The maximum load per grid shelf is 60 kg.

Description of the appliance

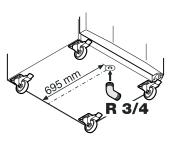
Only load the top shelf up to the stacking mark. This is important so as to ensure that the air can circulate properly and the temperature is even throughout the interior.

** LKPv 6523 / LKPv 1423

The type plate is located in the refrigerator compartment on the left-hand side.

Cleaning water drain opening

A drain hose with an R 3/4 connection can be fitted to the underside of the appliance. The water which collects in the interior during cleaning can be drained off in this way. An angled connector is supplied with the appliance.



Safety instructions and warnings

- To prevent injury or damage to the unit, the appliance should be unpacked and set up by two people.
- In the event that the appliance is damaged on delivery, contact the supplier immediately before connecting to the mains.
- To guarantee safe operation, ensure that the appliance is set up and connected as described in these operating instructions.
- Disconnect the appliance from the mains if any fault occurs. Pull out the plug, switch off or remove the fuse.
- When disconnecting the appliance, pull on the plug, not on the cable.
- Any repairs and work on the appliance should only be carried out by the customer service department, as unauthorised work could prove highly dangerous for the user. The same applies to changing the mains power cable.
- Do not allow naked flames or ignition sources to enter the appliance. When transporting and cleaning the appliance, ensure that the refrigerant circuit is not damaged. In the event of damage, make sure that there are no ignition sources nearby and keep the room well ventilated.
- Do not stand on the plinth, drawers or doors or use them to support anything else.
- This appliance can be used by children of 8 years old and over, and also by persons with restricted physical, sensory or mental capacity or lack of experience and knowledge, if they are supervised or have been instructed on safe use of the appliance and understand the resulting risks. Children must not be allowed to play with the appliance. Cleaning and user maintenance must not be carried out by children without supervision.
- Avoid prolonged skin contact with cold surfaces or chilled/frozen food. This could cause pain, numbness and frostbite. In the case of prolonged skin contact, protective measures should be taken, e.g. gloves should be worn.
- Do not consume food which has been stored for too long, as it could cause food poisoning.

- Do not store explosives or sprays using combustible propellants such as butane, propane, pentane, etc. in the appliance. Electrical components might cause leaking gas to ignite. You may identify such sprays by the printed contents or a flame symbol.
- Do not use electrical appliances inside the appliance.
- If you have a lockable appliance, do not keep the key near the appliance or within reach of children.
- 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.
- Do not install the appliance in the immediate vicinity of an air-conditioning unit. The appliance should also not be operated under a wallmounted air-conditioning unit.
- In special fields of application which are subject to their own standards or local regulations, the user is responsible for complying with these requirements.
 - Such requirements could be:
- Standardsforstoringdrugsorblood/bloodplasma
- Local pharmaceutical laws etc.

LKPv 6523 / LKPv 1423

- When transporting or operating the appliance at an altitude of more than 1500 m above sea level, the glass pane in the door can break due to the reduction in air pressure. Broken fragments are sharp-edged and can cause serious injury.
- The LED light strip illuminates the interior of the appliance. It is not suitable for lighting a room.

Noise emissions from the appliance

The noise level while the appliance is operating is below 70 dB(A) (relative noise level 1 pW).

Range of appliance use

The appliance is suitable for storing and cooling laboratory preparations at temperatures of between

-2°C and +16°C (LKPv 6520, 8420, 1420), 0°C and +16°C (LKPv 6523, 1423).

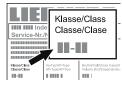
The appliance is **not** suitable for use in explosion-hazard areas.

For the storage of valuable or temperature-sensitive substances or products the use of an independent, constantly monitoring alarm system is necessary.

This alarm system must be designed so that each alarm status is detected immediately by an authorised person who can then take appropriate action.

Climate rating

The climate rating indicates at what room temperature the appliance may be operated to achieve full cooling capacity and what the maximum humidity level in the area around the appliance may be to ensure that no condensation forms on the exterior housing.



The climate rating is indicated on the type plate.

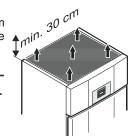
Climate rating	Max. room temperature	Max. relative humidity
5	40°C	40 %

The minimum room temperature at the place of installation is 10°C.

Setting up

- Avoid positioning the appliance in direct sunlight or near cookers, radiators and similar sources of heat.
- The floor on which the appliance stands should be horizontal and level.
- Standard EN 378 specifies that the room in which you install your appliance must have a volume of 1 m³ per 8 g of R 290a refrigerant used in the appliance, so as to avoid the formation of inflammable gas/air mixtures in the room where the appliance is located in the event of a leak in the refrigerant circuit. The quantity of refrigerant used in your appliance is indicated on the type plate on the inside of the appliance.
- There must be a gap of at least 30 cm between the upper edge of the appliance and the ceiling.

Do not cover ventilation openings or grille.



Electrical connection

Only operate the appliance with alternating current (AC).

The permissible voltage and frequency are indicated on the type plate. The position of the type plate is shown in the section entitled **Description of the appliance**.

The socket must be properly earthed and protected by a fuse.

The tripping current of the fuse must be between 10 A and 16 A.

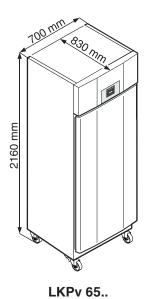
The socket must not be situated behind the appliance and must be easily accessible.

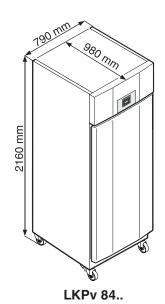
Do not connect the appliance using an extension cable or extension socket.

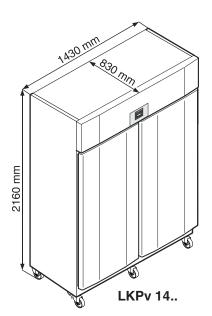
Do not use stand-alone inverters (conversion of direct current to alternating/three-phase current) or energy-saving plugs. Risk of damage to the electronic control system!



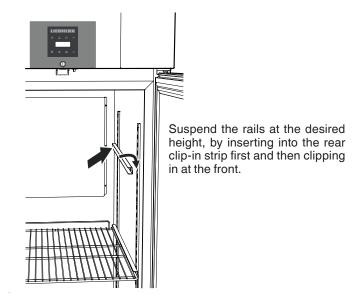
Appliance dimensions





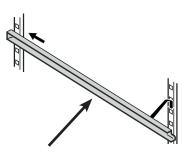


Equipment



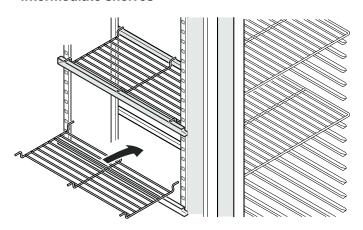
LKPv 1490 equipment

Fit the supplied shelf rails to the right and left of the vertical bar.



Suspend the rails at the desired height, by inserting into the rear clip-in strip first and then clipping in at the front.

Intermediate shelves



Place the supplied intermediate shelves onto the shelf rails.

Note

The maximum load per intermediate shelf is 20 kg.

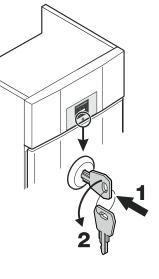
Safety lock

The lock is equipped with a safety mechanism.

Locking the appliance

- Insert the key as shown by arrow 1.
- Turn the key 180° (2).

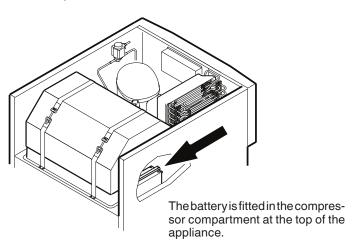
To unlock the appliance, the same procedure must be repeated in the same order.



Back-up battery

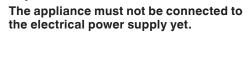
Before the appliance is switched on, the battery which is fitted in the compressor compartment must be connected.

This battery ensures that alarms are always reported, even in the event of a power failure.



Important!

Remove cover. •

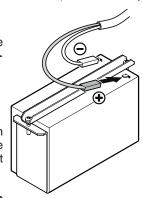


Plug the connector onto the positive pole on the battery.

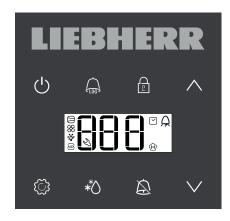
Disposal instructions for batteries

The battery must be removed when you wish to dispose of the appliance and sent for separate waste treatment for batteries.

Do not damage or short circuit the battery.



Operating and control elements



- On/Off button (switching the appliance on and off)
- Button for calling up stored alarm events
- Keypad lock
- Audible alarm Off button
- *\(\) Defrost button (for manually activating the defrost function)
- Enter button

Symbols in the display

- Compressor is running
- LED flashing refrigeration unit switches on after a delay. The compressor will start automatically after the pressure in the refrigerant circuit has equalised.
- Fan is running
- Appliance is defrosting
- AUX Temperature display via product sensor is activated
- LED flashing and L cappears in the display. The real time clock must be reset.
- H The H display means that the power supply and interior temperature of the appliance are recorded.
- If $\widehat{\mathbb{H}}$ flashes in the display, there has either been a power failure or the temperature in the appliance exceeded the permissible range.
- SuperCool is activated
- △ Alarm function
- The appliance has suffered a fault. Contact the customer service department.

Power failure alarm

In the case of a power failure, the audible warning signal will sound and bbP will be shown in the display.

If \widehat{H} appears in the refrigerator's display, the temperature has risen above the upper alarm limit of $+ 8^{\circ}$ C.

Check the temperature progression as described in the section entitled **Calling up stored alarm events** and then make a decision on what you wish to do with the items stored in the refrigerator.

Switching the appliance on and off

Connect the appliance to the mains. Display = OFF.

Switching the appliance on

Press (1) for approx. 5 seconds. Display = **ON**.

No alarm is displayed or sounded when the appliance is switched on for the first time.

If the appliance is disconnected from the mains for a long time after it has been switched on for the first time and if the temperature inside the appliance rises above the upper alarm limit, this will be detected as a fault by the electronic control system ($\widehat{\mathbf{H}}$) flashes in the display).

When the appliance is switched on again, this display must be reset as shown below.

Press

Press \bigcirc + \wedge for 5 seconds. Display = $\neg E \subseteq$

The (H) LED will now light up permanently.

Press for 5 seconds.

The electronic control system will switch back to normal operating mode.

Switching the appliance off

Press (1) for approx. 5 seconds. Display = 1 FF

Setting the temperature

Press (C) for 1 second. The temperature display flashes.

To increase the temperature (warmer): press button \wedge .

To reduce the temperature (colder): press button \bigvee .

Press (C) again.

The desired temperature setting is saved.

Temperatur display mode

The temperature display can be switched between degrees Celsius and degrees Fahrenheit. Factory setting is degrees Celsius.

Press \triangle for 5 seconds. Display = $-\frac{1}{5}$

Press (C). Display =

Use button ∨ or ∧ to select the desired setting.

0 = °C

1 = °F

Press (2). Display = -15

Press A for 5 seconds.

The electronic control system will switch back to normal operating mode.

Door open alarm

When the door is opened, the LED \triangle lights up and the temperature display begins to flash.

When the door has been left open for more than 60 seconds, the LED \bigcirc begins to flash, and $\Box\Box$ and the temperature indication flash alternately in the display.

The audible warning signal sounds (unless the audible warning signal function has been deactivated).

If the door has to stay open for longer in order to insert items to be cooled, cancel the audible warning signal by pressing button .

Setting the delay time for the door open alarm

The time before the audible warning signal sounds after the door has been opened can be adjusted.

Press \bigcirc for 5 seconds. Display = r^{1} \bigcirc

Press \(\lambda \) until \(\lambda \) appears in the display.

Press (3). Display = | Setting range = 1 - 5 minutes.

Use button \bigvee or \bigwedge to select the desired setting.

Press (). Display = d 0 d

Press A for 5 seconds.

The electronic control system will switch back to normal operating mode.

Audible warning signal settings

The audible warning signal will be muted for the current alarmafter the button (A) has been pressed. Complete the following steps if you want the audible warning signal to reactivate automatically.

Press \bigcap for 5 seconds. Display = $r^{1} \bigcap$

Press ✓ until 月5 n appears in the display.

Press $\{ \bigcirc \}$. Display = []

Press **√**. Display =

Press 👸. Display = 🖺 🗓 🞵

Automatic reactivation of the audible warning signal is now active.

The time before the audible warning signal sounds again must be set.

Press \wedge . Display = 95d

Press (3). Display = | Setting range = 1 - 120 minutes.

Use button \bigvee or \bigwedge to select the desired setting.

Press $\{\tilde{G}\}$. Display = \tilde{H} \tilde{G}

Press A for 5 seconds.

The electronic control system will switch back to normal operating mode.

Deactivating the audible warning signal function

The audible warning signal function can be completely deactivated if necessary.

Press \triangle for 5 seconds. Display = r^{1} \triangle

Press ✓ until H appears in the display.

Press (C). Display = []

Use button \bigvee or \bigwedge to select the desired setting.

0 = audible warning signal function activated

1 = audible warning signal function deactivated

Press (주). Display = H님

Press for 5 seconds.

The electronic control system will switch back to normal operating mode.

Alarm test

This test checks the function of the internal and any external connected alarm device.

The appliance does not stop its refrigerating function during this test.

Press \bigcirc + \bigvee for 5 seconds.

- The display will change to a temperature value of 0.2°C below the set upper alarm limit.
- The temperature value will now rise by 0.1°C every 2 seconds.
- When the upper alarm limit is reached, HII will appear in the display. An external alarm unit connected to the floating alarm output will now be activated.
- The temperature value will continue to rise up to 0.2°C above the upper alarm limit.
- The same process will take place automatically for the lower alarm limit. L 10 will appear in the display.

The LED Ω will be lit during the test.

The electronic control system will switch back to normal operating mode.

Cancelling the test prematurely

Press A for 5 seconds.

Note

If the values of the upper and lower alarm limit (**AL** and **AH** in the section entitled "**Adjusting the alarm parameters**") are set to $\mathbf{0}$, \mathbf{H} - - and \mathbf{L}^{--} will appear in the display during this test.

Alarm messages

1. LED 🖄 flashes in the display

If $\langle \! \rangle$ appears in the display, the appliance has a fault. Consult your nearest customer service point.

2. LED \bigcirc flashes in the display; the display reads HI or LO

The interior is too warm (HI) or too cold (LO).

The audible warning signal sounds (unless the audible warning signal function has been deactivated).

Note

The alarm parameters can be adjusted. See **Adjusting the alarm parameters**.

3. HA / HF / $\stackrel{\frown}{\mathbb{H}}$ flashes in the display

There has been a power cut (**HF**) of some length or the interior was too warm or too cold (**HA**) during a certain period of time.

Up to three alarm events can be stored and called up.

Adjusting the alarm parameters

The alarm limits (difference to the set temperature) and the alarm delay (delay until alarm sounds) can be adjusted.

Press \triangle for 5 seconds. Display = r^{1} \subseteq

Press \bigvee until \bigcap appears in the display.

RL = Lower alarm limit

Press (3). Display = temperature difference in °C

Use button \bigvee or \bigwedge to select the desired setting.

Set positive values only.

Press (3). Display = AL

Press . Display = AH Upper alarm limit

Press (3). Display = temperature difference in °C

Use button \bigvee or \bigwedge to select the desired setting.

Set positive values only.

Press (). Display = AH

Press . Display = Ad

Press (). Display = alarm delay in minutes

Use button \bigvee or \bigwedge to select the desired setting.

Press (C). Display = [1-]

Press A for 5 seconds.

The electronic control system will switch back to normal operating mode.

Calling up stored alarm events and reading the temperature progression

Press Display = HAn

Scroll through the list using \bigvee or \bigwedge .

HAn Number of temperature alarms

HFI Last temperature alarm

HR | Last temperature alarm but one

HAZ Temperature alarm before HA |

HFn Number of power cuts

HF Last power cut

HFI Last power cut but one

HF2 Power cut before HF1

Period in hours in which the maximum and minimum interior temperatures were measured

← H Maximum (highest) measured temperature

Lowest measured temperature

Select the required item using the 0 button. Press this button again to return to the list.

You can exit the menu at any time by pressing \bigcirc for 5 seconds.

If no button is pressed within 60 seconds, the electronic control system switches back automatically.

Resetting the stored alarm events HAn

Press ... Display = HAn

Press $\stackrel{\frown}{\bigcirc}$ + \bigwedge for 5 seconds. Display = Γ $\stackrel{\frown}{\subseteq}$ $\stackrel{\frown}{\subseteq}$ $\stackrel{\frown}{\subseteq}$

Press A for 5 seconds.

The electronic control system will switch back to normal operating mode.

Resetting the recorded temperature progression rt

Press ... Display = HAn

Press the button \bigvee or \bigwedge until Γ that appears in the display.

Press (). Display = [- 999

Press \bigvee for 5 seconds. Display = Γ $\stackrel{\Gamma}{=}$ $\stackrel{\Gamma}{=}$ $\stackrel{\Gamma}{=}$ $\stackrel{\Gamma}{=}$

The values for Γ and Γ L (highest and lowest measured interior temperature) are then reset to the current interior temperature.

Press A for 5 seconds.

The electronic control system will switch back to normal operating mode.

Example of an alarm query

Situation: HA/HF/ H flashes in the display.

Press 🤝. Display= HAn

Press (). Display = []

There has not been an alarm status with a too high or too low temperature. You must switch to display HF n.

Press (). Display = HAn

Press \wedge until HF_{Π} appears in the display.

Press (3). Display = 1 1 power failure has occurred.

Press (). Display = HF n

Press \wedge . Display = HF Last power failure.

Press (). Display = \(\frac{1}{2} \) (year)

Press \wedge . Display = $\Box \Box \Box \Box$ (day 1-31)

Press . Display = h [] (hour 0-23)

Press \wedge . Display = Π (minute 0-59)

Press \wedge . Display = $\lfloor \square \rfloor$ (period of time in minutes)

Press \bigcirc + \wedge for 5 seconds. Display = Γ \bigcirc \bigcirc

The H LED will now light up permanently.

HA/HF is cancelled in the display.

The electronic control system is now ready for the next alarm.

Press 🗟 for 5 seconds.

The electronic control system will switch back to normal operating mode.

Calibrating the control sensor

(standard sensor for temperature control)

Possible tolerances of the control sensor (the displayed temperature compared to the actual interior temperature) can be offset with this function.

Press \bigcirc for 5 seconds. Display = r^{1} \bigcirc

Press \(\ \ until \(\frac{1}{c} \) lappears in the display.

Press (3). Display = correction value set at the factory

Use button \bigvee or \bigwedge to increase or decrease the correction value in 0.1°C increments.

Press (). Display = actual (corrected) interior temperature

Press ∰. Display = -¹ c l

Press for 5 seconds.

The electronic control system will switch back to normal operating mode.

Product sensor (available accessory)

The temperature may be measured or recorded at any point in the interior using the product sensor.

Remove the plug!

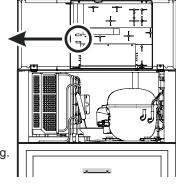
1.
Feed the sensor through the opening in the compressor compartment and position inside the appliance.

Seal the opening with sealant.

2.
Undo the screw on the underside of the front panel. Tilt the front panel upwards.







4. Close the front panel and fix with the screw.

Activation of the product sensor

Press for 5 seconds. Display = -

Press ✓ until ¬193 appears in the display.

Press (). Display = []

Press \wedge . Display = |

Press (3). Display = -183

Press for 5 seconds.

The electronic control system will switch back to normal operating mode.

If - - appears in the display, the product sensor has not been activated.

If E 2 appears in the display, the product sensor has not been connected, or is faulty.

Calibrating the product sensor

Possible tolerances of the product sensor (the displayed temperature compared to the actual interior temperature) can be offset with this function.

Press \bigwedge for 5 seconds. Display = r^{1} \int

Press ∧ until -¹ ⊆ 3 appears in the display.

Press (). Display = [].

Use button \bigvee or \bigwedge to increase or decrease the correction value in 0.1°C increments.

Press (C). Display = actual (corrected) product sensor temperature

Press (3). Display = $-1 \subseteq 3$

Press A for 5 seconds.

The electronic control system will switch back to normal operating mode.

Switching the temperature display between control sensor and product sensor

Press \triangle for 5 seconds. Display = r^{1} \subseteq

Press \(\lambda\) until \(\dagger^1 \mathbb{L}\) lappears in the display.

Press (C). Display = (control sensor)

If the product sensor is activated, appears in the display.

Press (). Display = 🖒

Press for 5 seconds.

The electronic control system will switch back to normal operating mode.

Keypad lock

The keypad lock ensures that no unintentional changes are made to the electronic control system.

Setting a PIN code for the keypad lock function

Press \triangle for 5 seconds. Display = r^{1} 5

Press \bigvee until P | appears in the display.

Press (). Display = []

Use button ∨ or ∧ to choose a PIN code between 1 and 999.

Press (3). Display = [7]

Press for 5 seconds.

The electronic control system will switch back to normal operating mode.

Activating the keypad lock

Press for 5 seconds. Display = []

Use button \bigvee or \bigwedge to select the PIN code.

Press (). Display = 10c

All buttons except \bigcirc and \bigcirc are locked.

If an incorrect PIN code is entered, the electronic control system switches back to normal operation without activating the keypad lock.

Deactivating the keypad lock

Press ref for 5 seconds. Display =

Use button \bigvee or \bigwedge to select the PIN code.

Press (Display = unl

All functions are enabled.

If an incorrect PIN code is entered, the keypad lock remains active.

Setting the real time clock

The real time clock is preset (CET). For a different time zone, the time must be adjusted manuall.

Press \triangle for 5 seconds. Display = r^{1} 5

Press V. Display = LC

Press (). Display = \(\frac{1}{2} \) (year)

Press (). Display = [][]

Set the year by pressing the $\bigvee \bigwedge$ buttons.

Press (C).

Press \wedge . Display = $\prod \prod$ (month 1-12)

Press (). Display = [][]

Set the month by pressing the $\bigvee \bigwedge$ buttons.

Press 💢.

Press \wedge . Display = $d \square \square$ (day 1-31)

Press (). Display = [][]

Set the day by pressing the $\bigvee \bigwedge$ buttons.

Press (C).

Press \wedge . Display = $u \square \square$ (days of the week)

(1 = Monday, 7 = Sunday)

Press (C). Display = [][]

Set the day of the week by pressing the $\bigvee \bigwedge$ buttons.

Press (C)

Press \wedge . Display = $\frac{1}{100}$ (hour 0-23)

Press (C). Display = [][]

Set the hour by pressing the $\bigvee \bigwedge$ buttons.

Press (C)

Press \wedge . Display = $\neg \Box \Box$ (minute 0-59)

Press $\{\tilde{C}\}$. Display = [][]

Set the minutes by pressing the $\bigvee \bigwedge$ buttons.

Press (C).

Press A for 5 seconds.

The electronic control system will switch back to normal operating mode.

When EE_C appears in the display, the real time clock must be reset.

Conversion from summer to winter time

Conversion to summer time is carried out automatically by the electronic control system on the last Sunday in March at 2 o'clock in the morning.

Conversion to winter time is carried out automatically by the electronic control system on the last Sunday in October at 2 o'clock in the morning.

In order to enable the new time, the appliance must be switched off and on after each of the times specified above.

Enabling/disabling automatic conversion from summer to winter time

Press \triangle for 5 seconds. Display = r^{1} \subseteq

Press \bigvee until dSE appears in the display.

Press (). Display =

Use button \bigvee or \bigwedge to select the desired setting.

0 = deactivated

1 = activated

Press (). Display = d5E

Press for 5 seconds.

The electronic control system will switch back to normal operating mode.

Changing the network address

When connecting several appliances via the RS485 interface, each appliance must have its own network address.

Press \triangle for 5 seconds. Display = $-\frac{1}{5}$

Press \bigvee until H appears in the display.

Press (C). Display =

Use button \bigvee or \bigwedge to change the network address (1-207).

Press (). Display = H[]

Press A for 5 seconds.

The electronic control system will switch back to normal operating mode.

Resetting the parameters to factory settings

The alarm limits and sensor calibration values can be reset to the factory settings using this function.

Pull out the mains plug.

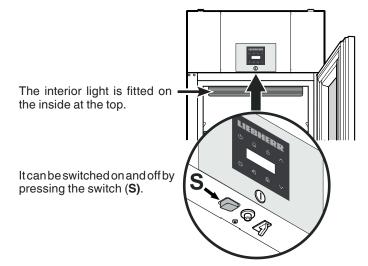
Keep A pressed and connect the mains plug.

Display = bn

Press (S). Display = 5t d

The electronic control system will switch back to normal operating mode.

Interior light LKPv 6523 / LKPv 1423



The light intensity of the LED light corresponds to laser class 1/1M.



The light cover may only be removed by customer service staff. If the cover is removed, do not look directly at the light through optical lenses from close distance. This can damage your eyes.

Defrosting

The refrigerator defrosts automatically.

Activating the defrost function manually

If the door has been left slightly open for a long time, a layer of ice may form in the interior and on the cooling plate. The defrost function can then be activated manually.

Press *\(\frac{1}{4}\) for 3 seconds. Display = $\frac{1}{4}$ + $\frac{1}{4}$ F

The electronic control system will automatically switch back to normal operating mode.

Display = dFE

Setting the display indication for the defrost phase

Press \bigcirc for 5 seconds. Display = r^{1} \bigcirc

Press \wedge until dE appears in the display.

Press (C). Display =

Use button \bigvee or \bigwedge to select the desired setting.

- 0 =Symbol + alternating display of dEF and the current temperature in the interior of the appliance.
- 1 = Symbol $\frac{4}{4}$ + temperature before the start of the defrost phase.

 $2 = \text{Symbol} + \Box F$.

Press ∰. Display = db

Press \bigotimes for 5 seconds. The electronic control system will switch back to normal operating mode.

Cleaning

Clean the appliance at least twice per year.

Before cleaning always switch off the appliance. Pull out the mains plug or switch off or unscrew the fuse.

 Clean the inside and equipment with lukewarm water and a little detergent. Do not use abrasive or acid cleaners or chemical solvents.

Do not use steam cleaners because of the risk of injury and damage.

- Ensure that no cleaning water penetrates into the electrical components or ventilation grille.
- Dry all parts well with a cloth.
- Use a commercially available stainless-steel cleaning agent for stainless-steel appliances.

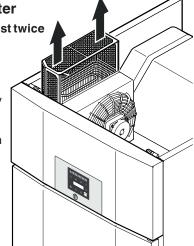
Do not use abrasive sponges or scourers, do not use concentrated cleaning agents and never use cleaning agents containing sand, chloride or acid or chemical solvents, as these would damage the surfaces and could cause corrosion.

Cleaning the dust filter

Clean the dust filter at least twice per year!

Remove the plug!

- Remove the dust filter by lifting upwards.
- 2. Clean the dust filter with water and detergent.
- 3. Reinstall the dust filter.



External alarm

The appliance can be connected to an external alarm device.

A floating alarm contact and an RS485 interface are available.

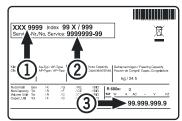
A refitting kit for serial data evaluation via the RS485 interface is available from your dealer or our customer service department.

Malfunctions

You may be able to rectify the following faults by checking the possible causes yourself:

- Appliance does not function:
- Is the appliance switched on?
- Is the plug correctly fitted in the mains socket?
- Is the fuse intact?
- · The temperature is not low enough:
- Is the temperature setting correct (see "Setting the temperature")?
- Does the separately installed thermometer show the correct reading?
- Is the ventilation system working properly?
- Is the appliance set up too close to a heat source?

If none of the above causes apply and you cannot rectify the fault yourself, contact the nearest customer service department stating the type designation ①, service number ② and appliance number ③ as indicated on the type plate.



The position of the type plate is shown in the section entitled **Description of the appliance**.

Shutting your appliance down

If your appliance is to be shut down for any length of time, switch it off and disconnect the plug or switch off or unscrew the fuse.

Complete the following steps to disconnect the power failure alarm battery from the electronic control system.

- Keep the button pressed for approx.
 3 seconds.
- The OFF indicator and the temperature display flash alternately.
- Remove the connector of the battery.

Clean the appliance and leave the door open in order to prevent unpleasant smells.

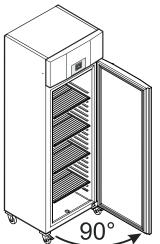
The appliance complies with the relevant safety regulations and EU Directives 2014/30/EU and 2014/35/EU.

Possible error messages in the display

Error code	Error	Action
E0, E1, E2, rE	Temperature sensor defective	Contact the customer service department
EE, EF	Electronic control system error	Contact the customer service department
dOr	Appliance door open for too long	Close appliance door
HI	Temperature inside appliance too high (too warm)	Check that the door has been closed properly. If the temperature does not drop, contact the customer service department.
LO	Temperature inside appliance too low (too cold)	Contact the customer service department
Etc		Reset the real time clock (see "Setting the real time clock")
HF, HA	There has been a power cut of some length or the interior was too warm or too cold during a certain period of time.	See Calling up stored alarm events and reading the temperature progression
btE	Back-up Battery error	Check if the battery is connected properly. See Back-up Battery. If the connection is correct and the error code is still displayed, contact the customer service department.
btP	Power failure alarm	It will go out again when mains voltage is applied. Make a decision on what you wish to do with the items stored in the appliance.

Changing over door hinges LKPv 65.. / 84..

Door hinges should only be changed by a trained expert. Changing the door hinges must be done by two people.



1. Open door by about 90°.

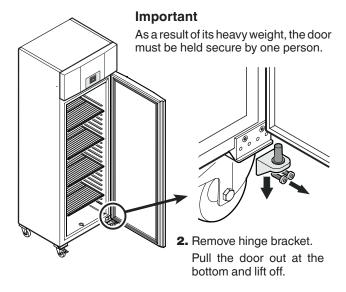
Important note

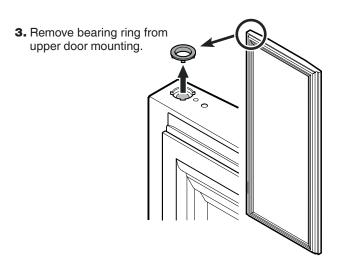
The door must be opened 90° before the lower hinge bracket is removed.

This will hold the self-closing mechanism that is integrated into the door in the required position for installation.

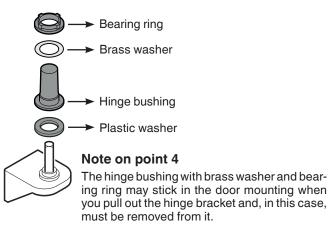
⚠ WARNING!

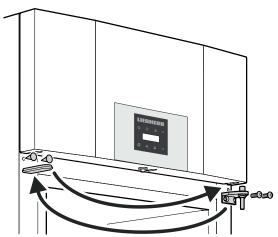
If the door is removed and reinstalled in the closed position, this will lead to destruction of the self-closing mechanism on the first opening of the door.



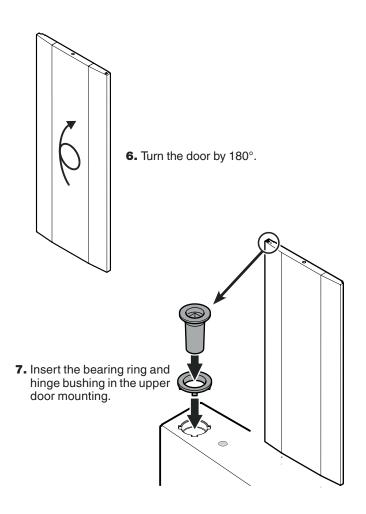


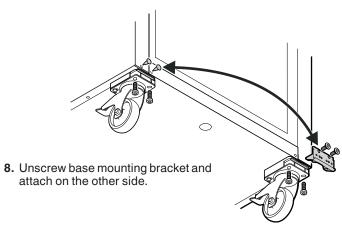
4. Remove the hinge components from the hinge bracket.

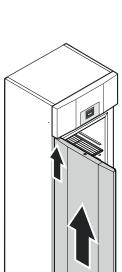




Transfer the upper hinge bracket and covers to the opposite side.







9. Keeping door open at 90°, suspend in top square pin.

↑ WARNING!

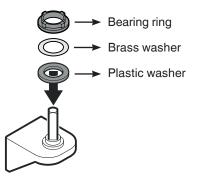
It is essential that the door is open at an angle of 90° during installation.

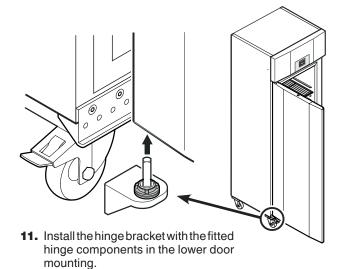
If the door is installed in the closed position, this will lead to destruction of the self-closing mechanism on the first opening and closing of the door.

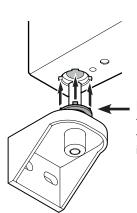
Important

As a result of its heavy weight, the door must be held secure by one person.

10. Fit the hinge components on the hinge bracket.



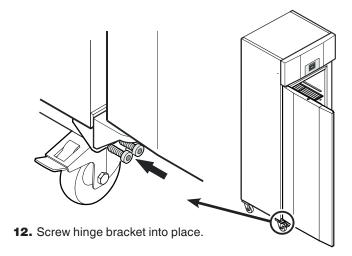




Note on point 11

The tabs on the bearing ring must fit into the recesses of the door mounting during installation.

If necessary, gently rotate the upper ring.







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