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

LKPv 6527 7085 627-01 LIEBHERR

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Priority of warnings

	identifies a situation involving direct danger which, if not obviated, may result in death or severe bodily injury.
	identifies a dangerous situation which, if not obviated, may result in death or severe bodily injury.
	identifies a dangerous situation which, if not obviated, may result in minor or medium bodily injury.
NOTICE	identifies a dangerous situation which, if not obviated, may result in damage to property.
Note	identifies useful information and tips.

Safety instructions and warnings

 WARNING: do not seal ventilation openings on the appliance housing or enclosure.

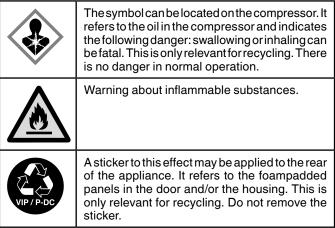


- WARNING: only use the mechanical devices or other aids recommended by the manufacturer to help speed up the defrosting process.

- WARNING: do not damage the refrigerant circuit.
- WARNING: do not use any electrical devices in the refrigerator compartment which do not comply with the design recommended by the manufacturer.
- **WARNING:** the mains cable must not be damaged while installing the appliance.
- WARNING: multi-sockets or distributor strips and other electronic devices (such as halogen transformers) must not be positioned and operated at the rear of appliances.
- **WARNING:** this appliance must be secured as described in the operating instructions to rule out any potential risks due to its instability.
- 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.
- Do not store any explosive substances, such as aerosol containers with flammable propellant gas, inside the appliance.
- To prevent injury and damage to property, the appliance should only be installed by two people.

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- 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.
- Avoid prolonged skin contact with cold surfaces (e.g. chilled/frozen products). If necessary, take safety action (e.g. gloves).
- All repairs and work on the appliance may only be carried out by customer service personnel or other trained personnel. The same applies to changing the mains power cable.
- Only carry out repair and other work on the appliance when the mains plug has visibly been disconnected.
- Only install, connect and dispose of the appliance as described in these operating instructions.
- In the event of a fault, pull out the plug or switch off the fuse.
- When disconnecting the appliance from the mains, pull on the plug. Do not pull on the cable.
- Do not allow naked flames or ignition sources to enter the appliance.



Intended use

This universal laboratory refrigerator for professional use is suitable for storing products at temperatures between -2 $^{\circ}$ C and +16 $^{\circ}$ C.

Typical products for storage include research samples, reagents, laboratory inventory, etc.

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.

Foreseeable incorrect use

Do not use the appliance for the following applications:

- · Storage and cooling of
 - chemically unstable, inflammable or caustic substances
 - blood, plasma or other bodily fluids for the purposes of infusion, application or insertion into the human body.
- Use in potentially explosive atmospheres.
- Use outdoors or in areas where it is exposed to splash water or damp conditions.

Incorrect use of the appliance will result in damaging or spoiling the goods stored in it.

Declaration of conformity

The refrigerant circuit has been tested for leaks. The appliance complies with the relevant safety regulations and EU Directives 2006/42/EG, 2014/30/EU, 2009/125/EG and 2011/65/EU.

Noise emissions from the appliance

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

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.

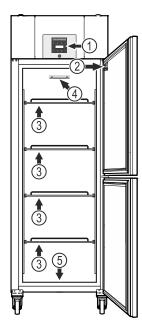
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The climate rating is indicated on the type plate.

Climate rating	Max. room temperature	Max. relative humidity
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 10°C.

Description of the appliance



- (1) Operating and control elements
- (2) Type plate
- (3) Grid shelves

NOTICE

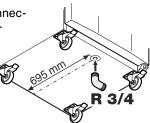
The maximum load per grid shelf is 60 kg.

(4) Stacking mark

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.

(5) 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.



Setting up

- Do not place the appliance in direct sunlight or near cookers, radiators and similar sources of heat.
- The more coolant there is in the appliance, the larger the room in which the appliance is installed must be. If the room is too small, any leak may create a flammable mixture of gas and air.
 For each 8 g of coolant the installation space must be at least 1 m³. Information on the coolant is on the model plate inside the appliance.
- There must be a gap of at least 30 cm between the upper edge of the appliance and the ceiling.

Levelling the appliance

NOTICE

The appliance must be aligned horizontally and vertically. If the appliance is not level, the main body of the appliance can be deformed and the door will not close properly.

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.

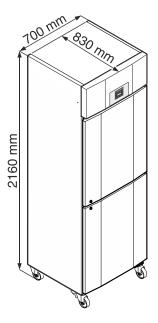
The socket must not be situated behind the appliance and must be easily accessible.

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

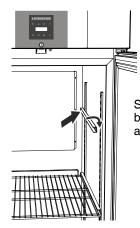


Do not use stand-alone inverters (conversion of direct current to alternating/three-phase current) or energy-saving plugs. Risk of damage to the electronic control system!

Appliance dimensions



Equipment



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

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

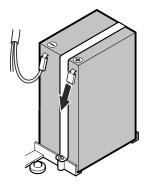
Before the appliance is switched on, the battery which is fitted in the compressor compartment must be connected.

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

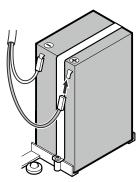
Important!

The appliance must not be connected to the electrical power supply yet.

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



- U On/Off button (switching the appliance on and off)
- Button for calling up stored alarm events
- E Keypad lock
- ∧∨ Selection buttons
- \land Audible alarm Off button
- * Defrost button (for manually activating the defrost function)
- (ご) Enter button

Symbols in the display

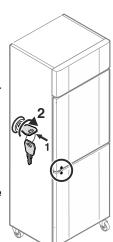
- Compressor is running
- LED flashing refrigeration unit switches on after a delay. The compressor will start automatically after the pressure in the refrigerant circuit has equalised.
- 😵 Fan is running
- Appliance is defrosting
- AUX Temperature display via product sensor is activated
- LED flashing and E E C appears 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.
- (H) If (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
- Summer 2 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 $b L^{P}$ will be shown in the display.

If (H) appears in the refrigerator's display, the temperature has risen above the upper alarm limit of + 8°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 () 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{H}) flashes in the display).

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

Press

Press \bigcirc + \land for 5 seconds. Display = r E

The H LED will now light up permanently.

Press \bigotimes for 5 seconds.

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

Switching the appliance off

Press () for approx. 5 seconds. Display = $\Box FF$

Setting the temperature

Press $\langle \widetilde{Q} \rangle$ for 1 second. The temperature display flashes.

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

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

Press 🗭 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 \bigtriangleup for 5 seconds. Display = r^{1} S

Press 🔅 Display =

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

 $0 = ^{\circ}C$

1 = °F

Press (). Display = -

Press \bigwedge for 5 seconds.

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

Door open alarm

When the door has been left open for more than 60 seconds, the LED \triangle begins to flash, and $d\Box r$ 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 Δ .

Note

The door opening alarm only works for the top door.

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

Press \wedge until d d appears in the display.

Press $\langle \widetilde{Q} \rangle$. Display = | Setting range = 1 - 5 minutes.

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

Press (). Display = d d d

Press \bigotimes 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 alarm after the button A has been pressed. Complete the following steps if you want the audible warning signal to reactivate automatically.

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

Press \bigvee until Π \Box \Box appears in the display.

Press (). Display = []

Press V. 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 = 15d
```

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

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

Press (). Display = 🗄 🖯

Press 🗟 for 5 seconds.

Deactivating the audible warning signal function

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

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

Press \bigvee until H^{H} appears in the display.

Press 🔇 . Display = []

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

0 = audible warning signal function activated

1 = audible warning signal function deactivated

Press 🔅 . Display = HH

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 \bigotimes + V 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, HIII 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 I D will appear in the display.

The LED \bigcirc will be lit during the test.

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

Cancelling the test prematurely

Press 🔬 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 **0**, H^- and L^- will appear in the display during this test.

Alarm messages

1. LED $\sqrt{2}$ flashes in the display

If \bigotimes 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 / omega 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 Δ for 5 seconds. Display = r^{1} 5

Press \bigvee until $\exists L$ appears in the display.

FL = Lower alarm limit

Press (). Display = temperature difference in °C

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

Set positive values only.

Press 🔅 Display = 🖁 L

Press \wedge . Display = $\exists \exists \forall Upper a larm limit$

Press $\langle O \rangle$. Display = temperature difference in °C

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

Set positive values only.

Press 🔅 Display = 🗄

Press \wedge . Display = $\exists d$

Press 💭. Display = alarm delay in minutes

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

Press 🔅 Display = 🖓 🚽

Press 🛱 for 5 seconds.

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

- HR Last temperature alarm
- HA | Last temperature alarm but one
- HR2 Temperature alarm before HR |
- HFn Number of power cuts
- HF Last power cut
- HF | Last power cut but one
- HF2 Power cut before HF1
- r Ł 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 O button. Press this button again to return to the list.

You can exit the menu at any time by pressing \bigotimes 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 \bigcirc + \land for 5 seconds. Display = $r E \subseteq$.

Press \bigtriangleup for 5 seconds.

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

Resetting the recorded temperature progression rt

Press \triangle . Display = HH_{\Box}

Press the button \bigvee or \land until \ulcorner bappears in the display.

Press 🗭. Display = [] - 999

Press \bigvee for 5 seconds. Display = r E 5.

The values for $\sqcap H$ and $\sqcap L$ (highest and lowest measured interior temperature) are then reset to the current interior temperature.

Press \bigotimes for 5 seconds.

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

Example of an alarm query

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

Press 💭. Display= HAri

Press 🔅 Display = []

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

Press (). Display = HAn

Press \wedge until HF \Box appears in the display.

Press (\bigcirc) . Display = 1 power failure has occurred.

Press 🖏. Display = HF n

Press \bigwedge . Display = HF Last power failure.

Press 💭. Display = 🖓 🗍 🚺 (year)

Press \bigwedge . Display = [12] (month 1-12)

Press \bigwedge . Display = $\prod (day 1-31)$

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

Press \bigwedge . Display = \Box (minute 0-59)

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

Press \bigoplus + \bigwedge for 5 seconds. Display = r E

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

Press \bigwedge until Γ^{l} [appears in the display.

Press (). 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

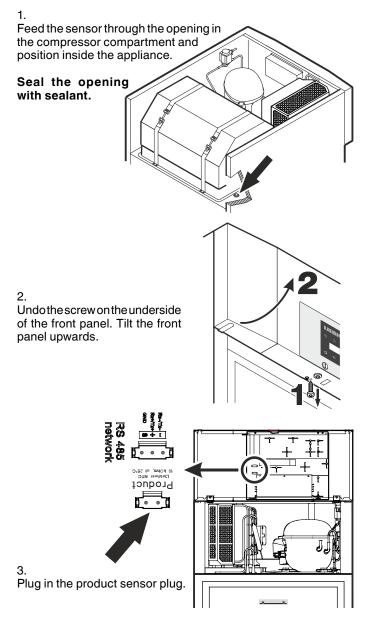
Press (). Display = -¹ [

Press 🗟 for 5 seconds.

Product sensor (available accessory)

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

Remove the plug!



4.

Close the front panel and fix with the screw.

Activation of the product sensor

Press \bigwedge for 5 seconds. Display = Γ_{1}

Press \bigvee until r^{1} β appears in the display.

Press (). Display = []

Press 🔨. Display =

Press 🔅. Display = - 193

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 C' 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}

Press \wedge until $r^{1} c^{3}$ appears in the display.

Press (). Display = [][]

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

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

Press (). Display = -¹ - 3

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

Press \wedge until r^{1} Lappears in the display.

Press (). Display = | (control sensor)

Press \wedge . Display = 2 (product sensor)

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

Press (). Display = -¹5

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

Press \bigvee until H[] appears in the display.

Press 💭. Display =

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

Press (). Display = H

Press 💭 for 5 seconds.

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}

Press \bigvee until P | appears in the display.

Press (). Display = []

Use button \bigvee or \land to choose a PIN code between 1 and 999.

Press (). Display = P

Press \bigotimes 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 \land to select the PIN code.

Press (). Display =

All buttons except Δ and \Box 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 \widehat{P} for 5 seconds. Display =]

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

Press 🔅 Display = U

All functions are enabled.

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

Resetting the parameters to factory settings

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

Keep the Ubutton pressed for approx. 5 seconds.

The OFF indicator and the temperature display flash alternately.

Remove the connector of the battery.

Pull out the mains plug.

Plug the connector onto the positive pole on the battery.

Keep \bigotimes pressed and connect the mains plug.

Display = bri

Press (). Display = 5t d

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

Setting the real time clock

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

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

Press \bigvee . Display = LC

Press $\langle \widetilde{O} \rangle$. Display = $\Box [0] \langle 0 \rangle$ (year)

Press (). Display = [][]

Set the year by pressing the $\bigvee \land$ buttons. Press $\{\widehat{O}\}$.

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

Press (). Display = [][]

Set the month by pressing the $\bigvee \land$ buttons. Press $\langle \widetilde{\mathcal{O}} \rangle$.

Press \bigwedge . Display = d (day 1-31)

Press (). Display = [][]

Set the day by pressing the $\bigvee \land$ buttons. Press $\{\widehat{O}\}$.

Press \bigwedge . Display = $u \square \square$ (days of the week) (1 = Monday, 7 = Sunday)

Press (). Display = [][]

Set the day of the week by pressing the $\bigvee \land$ buttons. Press $\langle \widetilde{O} \rangle$.

Press \bigwedge . Display = h (hour 0-23)

Press (3). Display =

Set the hour by pressing the $\bigvee \land$ buttons. Press $\{\widehat{O}\}$.

Press \bigwedge . Display = $\Box \square \square$ (minute 0-59)

Press (). Display = [][]

Set the minutes by pressing the $\bigvee \land$ buttons. Press $\langle \widetilde{Q} \rangle$.

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

When LLC 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 = -15

Press \bigvee until d $\subseteq E$ appears in the display.

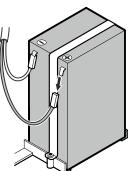
Press (C). Display =

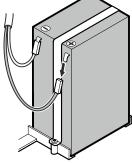
Use button \bigvee or \land to select the desired setting.

0 = deactivated 1 = activated

Press 🖏 Display = 🖂

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





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 * for 3 seconds. Display = 😽 + d F b

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

Display = dFE

Setting the display indication for the defrost phase

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

Press \wedge until db appears in the display.

Press 🗭. Display =

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

- 0 = Symbol 4 + alternating display of $\frac{1}{2}$ F and the current temperature in the interior of the appliance.
- 1 = Symbol $\frac{4}{4}$ + temperature before the start of the defrost phase.
- 2 = Symbol $\frac{4}{6}$ + d [F.

Press 🔅 Display = 🗗

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

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.

Cleaning

Before cleaning, always disconnect the appliance from the mains. Pull out the plug or switch off the fuse.

Risk of damage to the appliance components and risk of injury due to hot steam.

Do not use steam cleaning equipment to clean the appliance.

NOTICE

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

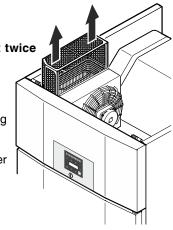
- Clean the inside, equipment parts and outer walls with lukewarm water and a little detergent. Do not use chemical solvents or any cleaning agents containing sand or acid.
- To avoid short-circuits, ensure no cleaning water penetrates into the electrical components when cleaning the appliance.
- Dry all parts well with a cloth.
- Use a commercially available stainless-steel cleaning agent for stainless-steel appliances.
- Do not damage or remove the type plate on the inside of the appliance. It is very important for servicing purposes.

Cleaning the dust filter

Clean the dust filter at least twice per year!

Remove the plug!

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



Malfunctions

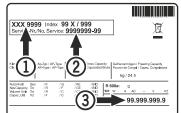
You may be able to rectify the following faults by checking the possible causes yourself:

- 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 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.

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

- Keep the U button pressed for approx. 5 seconds.
- The **OFF** indicator and the temperature display flash alternately.
- Remove the connector of the battery.

Disposal notes

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.



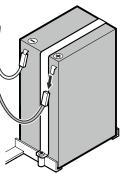
Do not damage the refrigerant circuit of an appliance that is no longer needed during its disposal.

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.

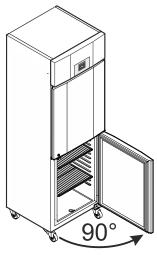
Possible error messages in the display

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	See
	power cut of some length or the interior was too warm or too cold during a certain period of time.	Calling up stored alarm events and reading the temperature progression
btE	length or the interior was too warm or too cold during a certain	events and reading the



Changing over door hinges

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°.

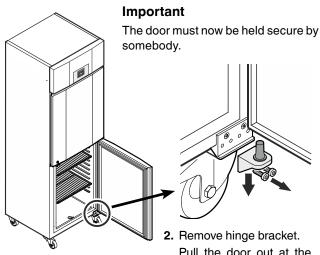
Important note

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

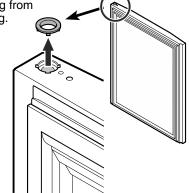
This will hold the self-closing mechanism that is integrated into the door in the required position for installation.

WARNING!

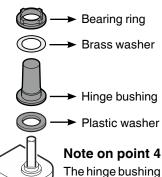
If the door is removed and reinstalled in the closed position, this will lead to destruction of the self-closing mechanism on the first opening of the door.



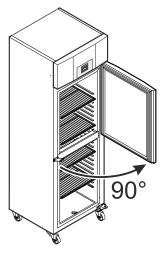
- Pull the door out at the bottom and lift off.
- 3. Remove bearing ring from upper door mounting.



4. Remove the hinge components from the hinge bracket.



The hinge bushing with brass washer and bearing ring may stick in the door mounting when you pull out the hinge bracket and, in this case, must be removed from it.



5. Open door by about 90°.

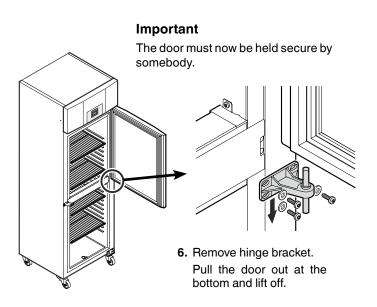
Important note

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

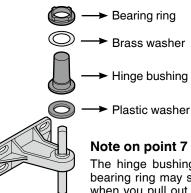
This will hold the self-closing mechanism that is integrated into the door in the required position for installation.

WARNING!

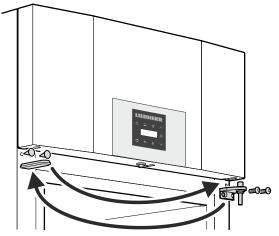
If the door is removed and reinstalled in the closed position, this will lead to destruction of the self-closing mechanism on the first opening of the door.



7. Remove the hinge components from the hinge bracket.

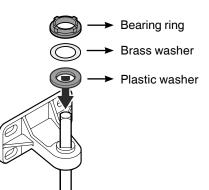


The hinge bushing with brass washer and bearing ring may stick in the door mounting when you pull out the hinge bracket and, in this case, must be removed from it.



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

12. Fit the hinge components on the hinge bracket.



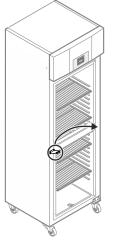
13. Keeping door open at 90°, suspend in top square pin.

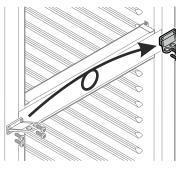
It is essential that the door is open at an angle of 90° during installation.

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

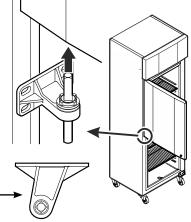
The door must now be held secure by somebody.

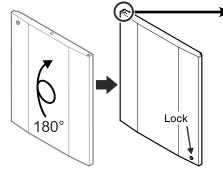




- **9.** Transfer locking bracket to the opposite side.
- 14. Install the hinge bracket with the fitted hinge components in the lower door mounting.

View from above ·



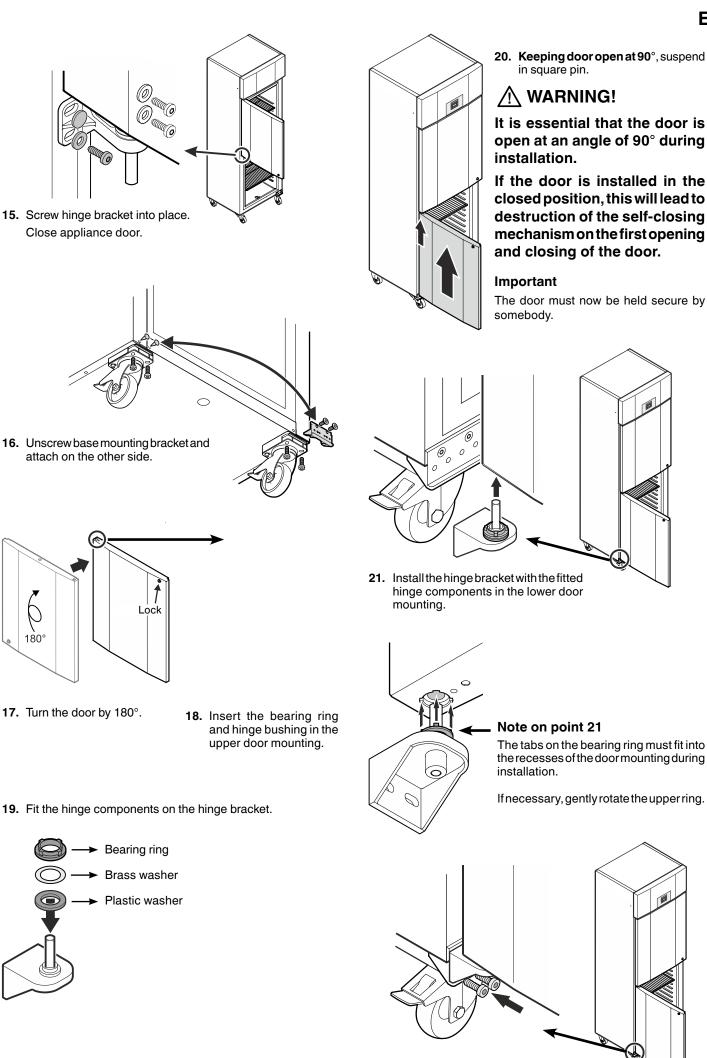


- **10.** Turn the door by 180°.
- **11.** Insert the bearing ring and hinge bushing in the upper door mounting.

Note on point 14

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

If necessary, gently rotate the upper ring.



22. Screw hinge bracket into place.



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