

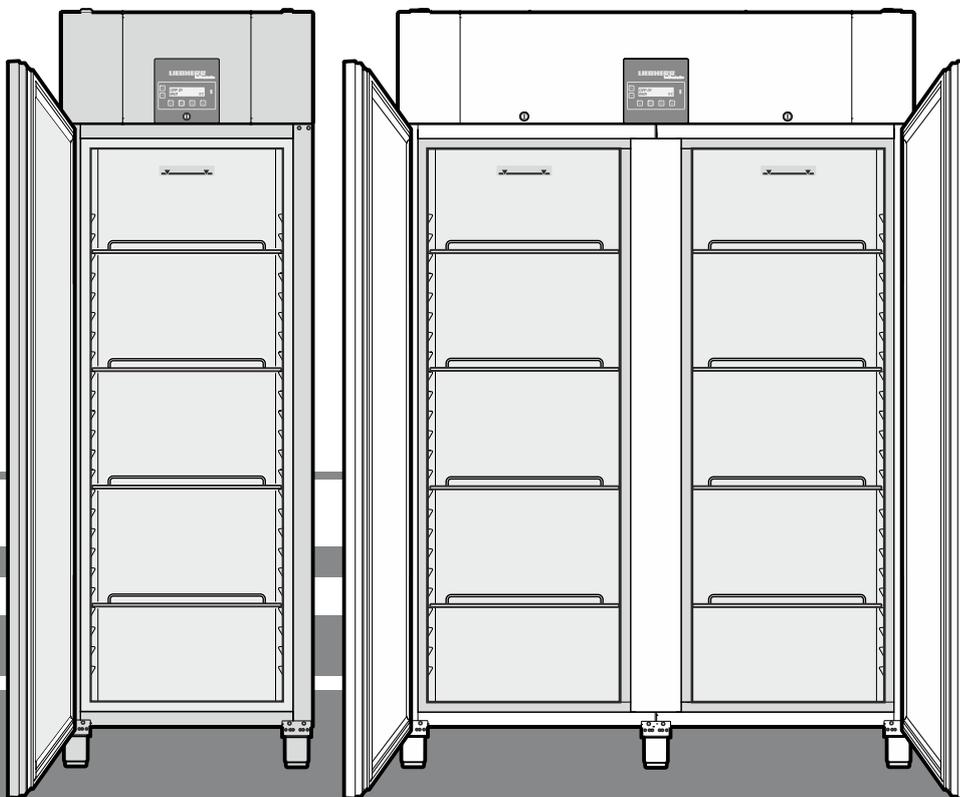
# Operating instructions

Commercial refrigerator

Read the operating instructions before switching on for the first time

Page 14

**GB**



**7082 265-01**

GKPV

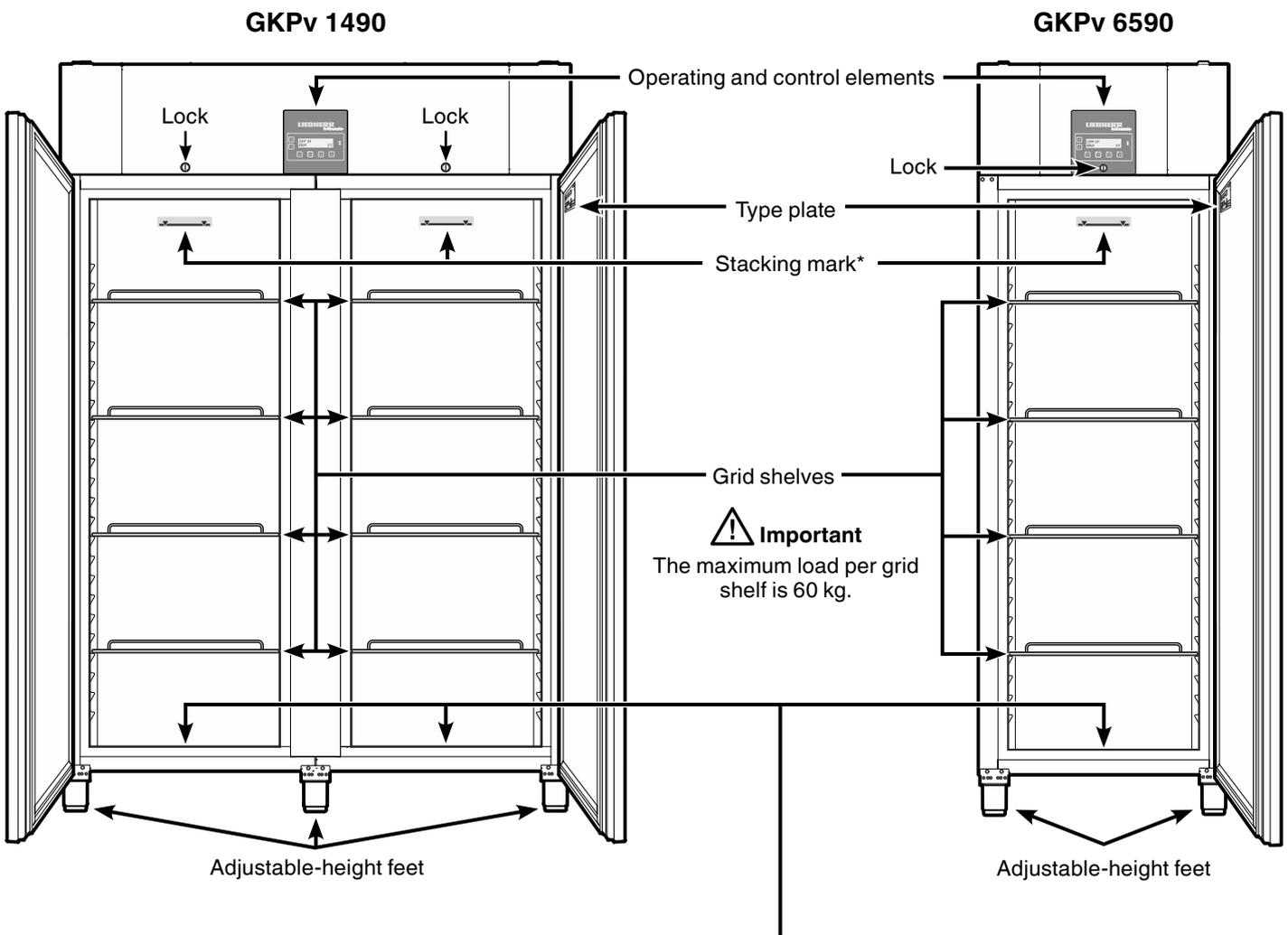
**LIEBHERR**

## Content

Description of the appliance.....	14
Safety instructions and warnings .....	15
Disposal notes.....	15
Noise emissions from the appliance .....	15
Range of appliance use.....	16
Climate rating .....	16
Appliance dimensions .....	16
Setting up .....	16
Electrical connection.....	16
Equipment .....	17
Operating and control elements .....	18
Switching the appliance on and off .....	18
Setting the language .....	18
Keypad lock.....	18
Alarm test .....	18

Main menu .....	19
Menu 01 Setpoint = setting the temperature .....	19
Menu 03 Defrosting = activating the defrost function manually .....	19
Menu 04 Programs = preset storage programs .....	19
Menu 05 Alarm = list of alarms .....	20
Menu 06 Settings = settings on the control electronics .....	21
External alarm .....	21
Product sensor (available accessory) .....	22
Product sensor settings .....	22
Cleaning .....	23
Malfunctions.....	23
Shutting your appliance down .....	23
Changing over door hinges GKPv 6590.....	24

## Description of the appliance



\* Stacking mark →

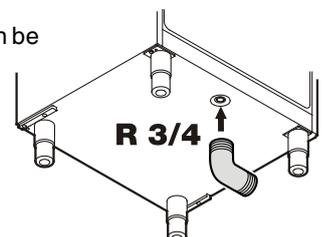
Only load the top shelf up to the stacking mark.  
This is important so as to ensure that the air can circulate properly and the temperature is even throughout the interior.

### 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.
- 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.

## 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.



When disposing of the appliance, ensure that the refrigerant circuit is not damaged to prevent uncontrolled escape of the refrigerant it contains (data on type plate) and oil.

- Disable the appliance.
- Pull out the mains plug.
- Cut through the connection cable.



### WARNING

Danger of suffocation due to packing material and plastic film! Do not allow children to play with packaging material. Take the packaging material to an official collection point.

## 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 suited only for cooling food.

The appliance is not suited for storing and cooling pharmaceuticals, blood plasma, laboratory preparations or similar substances and products subject to the Medical Devices Directive 2007/47/EC.

Any misuse of the appliance may result in damage to or spoilage of the stored goods.

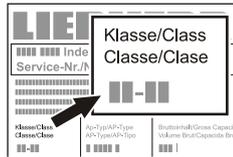
Furthermore, the appliance is unsuited for use in areas exposed to an explosion hazard.

## Climate rating

The climate rating indicates the room temperature at which the appliance may be operated in order to achieve full refrigeration performance.

The climate rating is indicated on the type plate.

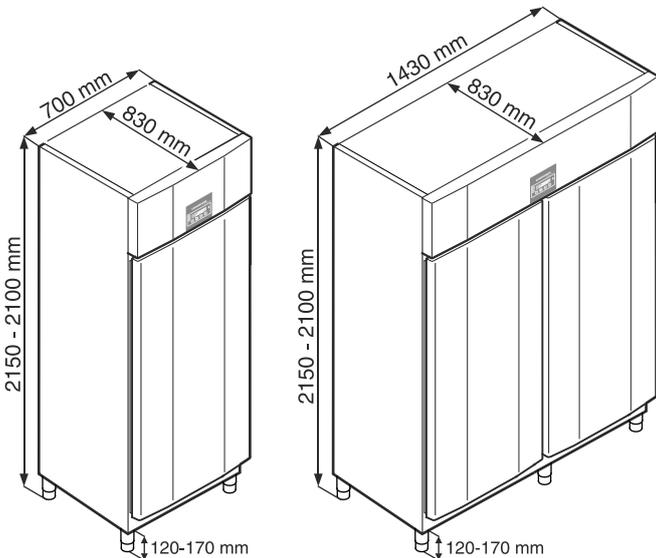
The position of the type plate is shown in the section entitled **Description of the appliance**.



Climate rating	Room temperature
4 (SN)	+10°C to +32°C
4 (N)	+16°C to +32°C
4+ (ST)	+16°C to +38°C
4+ (SN-ST)	+10°C to +38°C
5 (T)	+16°C to +43°C
5 (SN-T)	+10°C to +43°C

**Do not operate the appliance outside the specified room temperature range.**

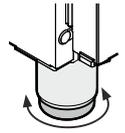
## Appliance dimensions



## 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. Compensate for uneven floors with the adjustable feet.

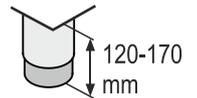
To alter the height, rotate the bottom section of the respective adjustable foot.



## WARNING!

**The height of the foot can be adjusted from 120 mm to 170 mm.**

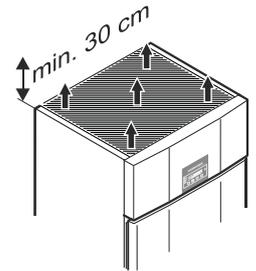
**Do not set the adjustable foot to a height greater than 170 mm! The bottom section of the adjustable foot can become loose and the appliance may then tip over.**



**This can lead to serious or even fatal injuries.**

- Standard EN 378 specifies that the room in which you install your appliance must have a volume of 1 m<sup>3</sup> 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)**.

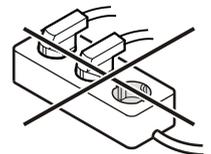
The permissible voltage and frequency are indicated on the type plate. The position of the type plate is shown in the section entitled **Description of the appliance**.

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.

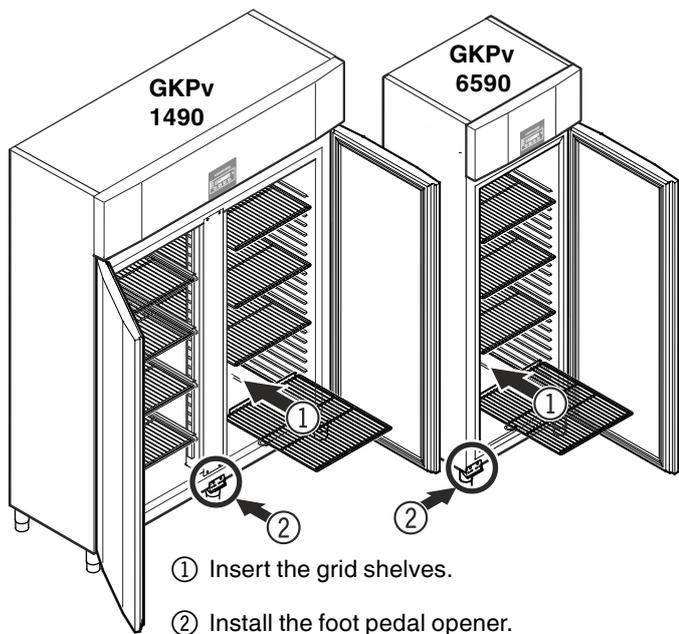
**The socket must not be situated behind the appliance and must be easily accessible.**

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

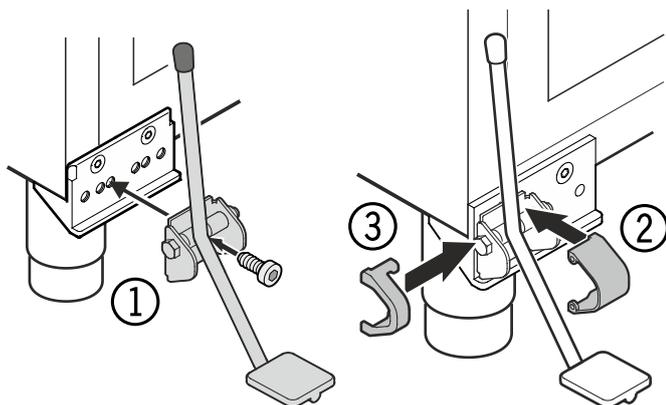
Do not use stand-alone inverters (conversion of direct current to alternating/three-phase current) or energy-saving plugs. Risk of damage to the electronic control system!



## Equipment

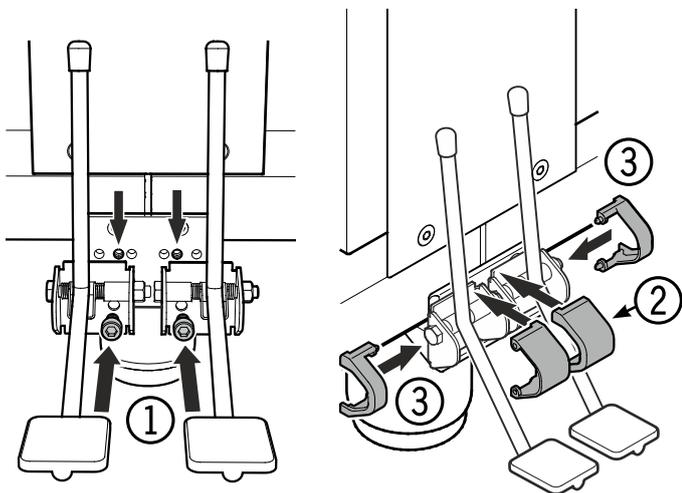


### Installation of foot pedal door opener on GKPv 6590



Installation of the foot pedal opener for the left-hand hinged door is described in the section entitled "Changing over door hinges" (page 24).

### Installation of foot pedal door opener on GKPv 1490



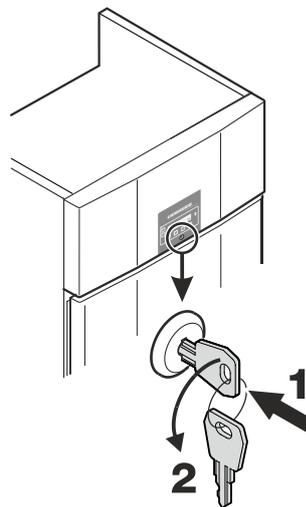
### Safety lock

The lock is equipped with a safety mechanism.

#### Locking the appliance

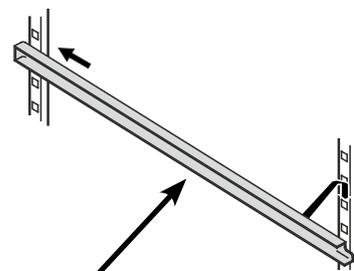
- Insert the key as shown by arrow 1.
- Turn the key 180° (2).

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

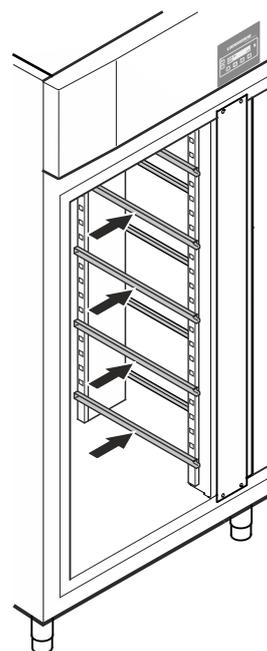


### GKPv 1490 equipment

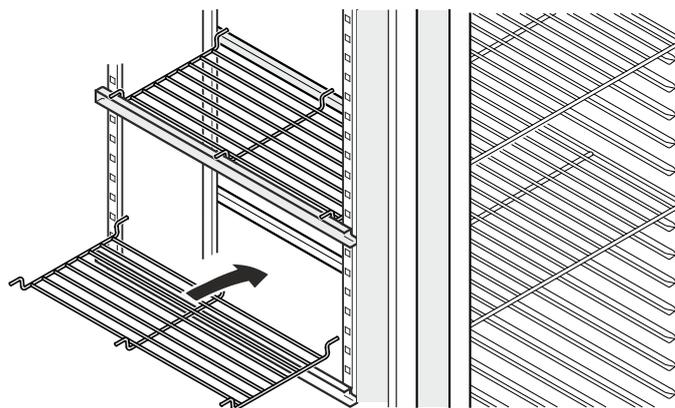
Fit the supplied shelf rails to the right and left of the vertical bar.



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.

## Operating and control elements



- ① **ON/OFF** button (to switch the appliance on and off)
- ② **Menu** button (to activate the main menu)
- ③ Selection buttons
- ④ **Set** button (Enter)
- ⑤ **Audible warning** on/off button
- ⑥ Display (above indication in display = standard indication)

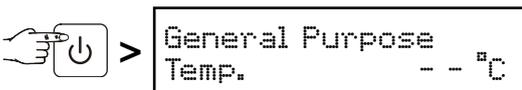
**Note:** the **Menu** button can be used to cancel any unintentional actions and return to the standard indication without changing the value.

### Switching the appliance on and off

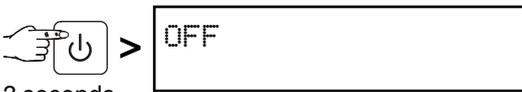
You are advised to clean the appliance before switching it on for the first time (see "Cleaning").

- Connect the appliance to the mains - the display reads **OFF**.

#### Switching the appliance on



#### Switching the appliance off



### **Set** button

If the **Set** button is pressed in standard display mode, the date and time appear in the display.

DD/MM/YY

hh:mm:ss

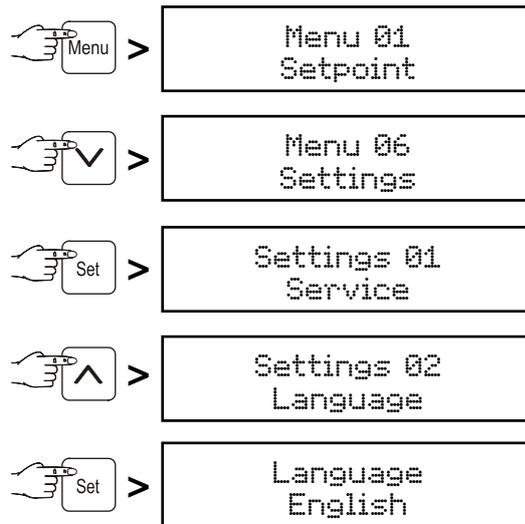
Press the **Set** button again to return to the standard indication.

**This is not automatic.**

## Setting the language

**Note:** the preset language is **English**.

**If this is the language which should remain, the following procedure is not necessary.**



Use buttons **↓** and **↑** to select the desired language.

Press **Set** > All menus will now appear in the set language.

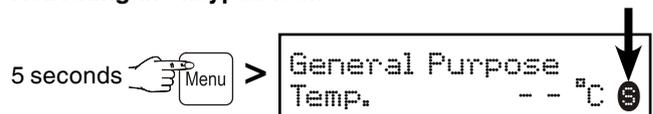
Press the **Menu** button to return to the standard indication.

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

## Keypad lock

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

### Activating the keypad lock



**S** appears in the display.

To deactivate, press again for 5 seconds.

## Main menu

Press the **Menu** button.

Use buttons **↓** and **↑** to select one of the menu items.

**Menu 01**  
Setpoint = setting the temperature

**Menu 02**  
Humidity = adjusting the humidity

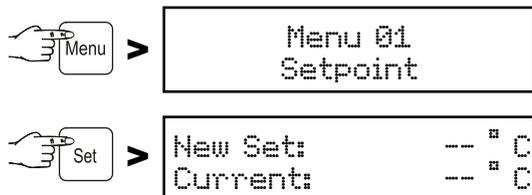
**Menu 03**  
Defrosting = activating the defrost function manually

**Menu 04**  
Programs = preset storage programs

**Menu 05**  
Alarm = list of alarms

**Menu 06**  
Settings = settings on the control electronics

### Menu 01 Setpoint = setting the temperature

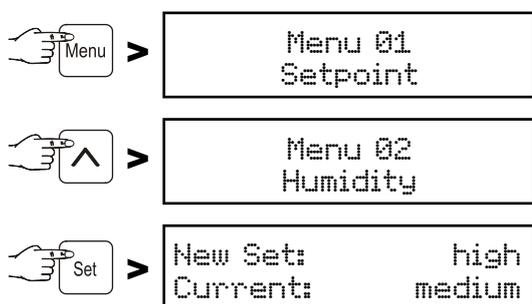


The current temperature is then shown at the bottom of the display and the required temperature is shown at the top.

Use button to reduce the temperature = colder. Use button to increase the temperature = warmer.

Press the button to accept the new setting or the button to cancel the procedure without saving.

### Menu 02 Humidity = adjusting the humidity



The current humidity setting is then shown at the bottom of the display and the desired setting is shown at the top.

Use buttons and to select the desired humidity setting (high, medium, low).

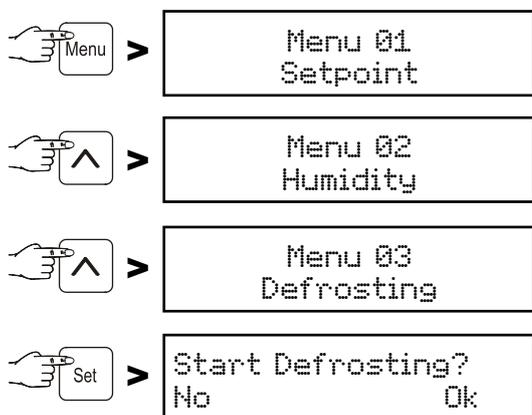
Press the button to accept the new setting or the button to cancel the procedure without saving.

### Menu 03

#### Defrosting = activating the defrost function manually

The appliance defrosts automatically.

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 button to start defrosting or press the button to cancel the procedure.

### Menu 04 Programs = preset storage programs

If the appliance is to be used for special purposes, different storage programs can be set. The storage climate inside the appliance will then be adjusted to the intended use (temperature, humidity).

The following programs are available:

**P01 General Purpose**  
Storage of food products in general

**P02 Dairy Products**

**P03 Meat**

Storage of meat for immediate preparation (storage temperature: 1°C)

**P04 Meat Storage**

Long-term storage of meat (storage temperature: -1°C)

**P05 Cook & Chill**

Storage of home-cooked meals

**P06 Fish**

**P07 Red Wine**

**P08 White Wine**

**P09 Cheese**

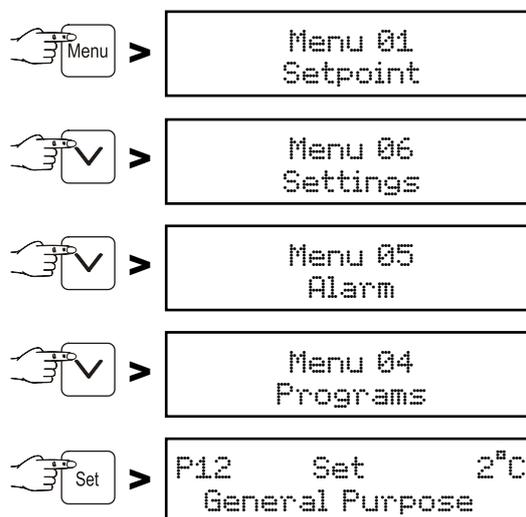
**P10 Patisserie RH Hi**

Storage of baked goods at high humidity

**P11 Patisserie RH Lo**

Storage of baked goods at medium humidity

Setting the storage program:



Select the desired program by pressing the buttons and .

Press the button to accept the new setting or the button to cancel the procedure without saving.

## Menu 05

### Alarm = list of alarms

The alarm events are saved and can be called up if required.

#### The following alarm can be rectified immediately:

```
Door Open
Temp.      -- °C
```

When the door is open, the above indication and the standard indication flash alternately. After 240 seconds, the audible warning signal sounds.

Cancel the audible warning signal by pressing button . Close the appliance door.

#### The following alarm events require the stored items to be checked:

1. 

```
ALL Power cut
Temp.        -- °C
```

The above indication and the standard indication flash alternately. This indication is displayed after a power failure.

Press button  to delete this display.

Call up the length of the power failure and the maximum temperature reached inside the appliance. See chapter "Calling up the saved alarm events".

2. 

```
High Temp Room
Temp.          -- °C ↑
```

```
Low Temp Room
Temp.          -- °C ↓
```

The above indication and the standard indication flash alternately. The audible warning signal sounds.

Cancel the audible warning signal by pressing button .

#### This can be caused by:

- the appliance door being left open for a long time, allowing warm ambient air to enter;
- a long power failure;
- a fault in the appliance.

If a large quantity of warm items is placed in the appliance at once, this alarm may occur. This does not mean that there is an error.

Call up the length of the temperature rise and the maximum temperature reached inside the appliance. See chapter "Calling up the saved alarm events".

**In both cases, the items must be checked and it must be decided if they can still be used.**

**All other alarms which occur must be rectified by a customer service technician.**

### Calling up the saved alarm events

  > 

```
Menu 01
Setpoint
```

  > 

```
Menu 06
Settings
```

  > 

```
Menu 05
Alarm
```

  > The last alarm which occurred is shown in the display.

30 alarm events are saved. The highest figure (A \_\_) is the last alarm which occurred. Select a previous alarm event by pressing the buttons  and .

  > 

```
A01      Door Open
S hh:mm   DD/MM/YY
```

Start of the alarm event with time and date.

  > 

```
A01      Door Open
E hh:mm   DD/MM/YY
```

End of the alarm event with time and date.

  > 

```
A01      Door Open
Temp Max  -- °C
```

Highest temperature reached inside the appliance.

Return to the standard indication by pressing the  button.

#### Note

After this query, the alarm display will be deleted automatically.

### Alarm test

To check that the alarm function is working correctly, an alarm test should be carried out at regular intervals.

5 seconds   > 

```
Alarm Test
```

The display flashes and the audible warning signal sounds. The alarm test is terminated automatically after a few seconds.

Menu 06

Settings = settings on the control electronics

Settings 01

Service

These settings can only be carried out by the customer service department.

Settings 02

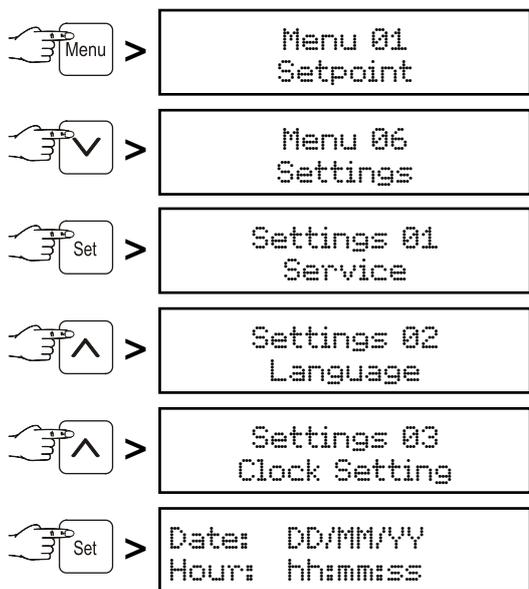
Language

Setting the display language. See paragraph "Setting the language".

Settings 03

Clock Setting

Setting the time and date.



The value to be changed flashes and can be changed by pressing the buttons and .

Save by pressing the button.

Return to the standard indication by pressing the button.

The conversion from summer to winter time is **not** automatic.

Settings 04

Inputs/Outputs

These settings can only be carried out by the customer service department.

Settings 05

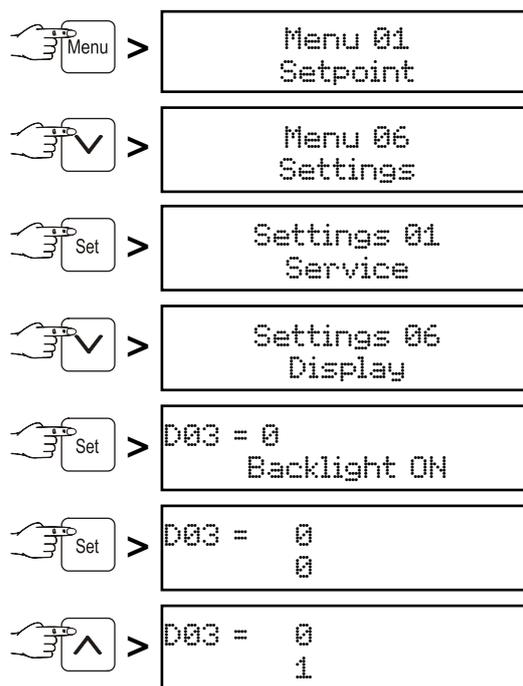
Communication

This menu item is described in the documentation on the accessories set "Serial data evaluation".

Settings 06

Display

Setting for permanent display light.



Save by pressing the button.

Return to the standard indication by pressing the button.

The display is now permanently lit.

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.

**The appliance may only be connected to an external alarm device by trained personnel!**

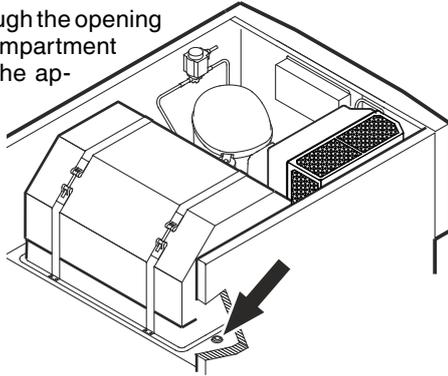
## Product sensor (available accessory)

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

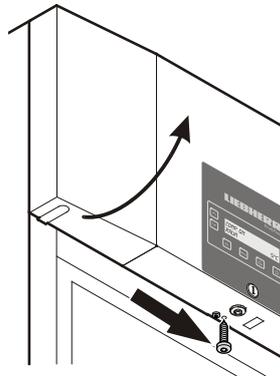
### Remove the plug!

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

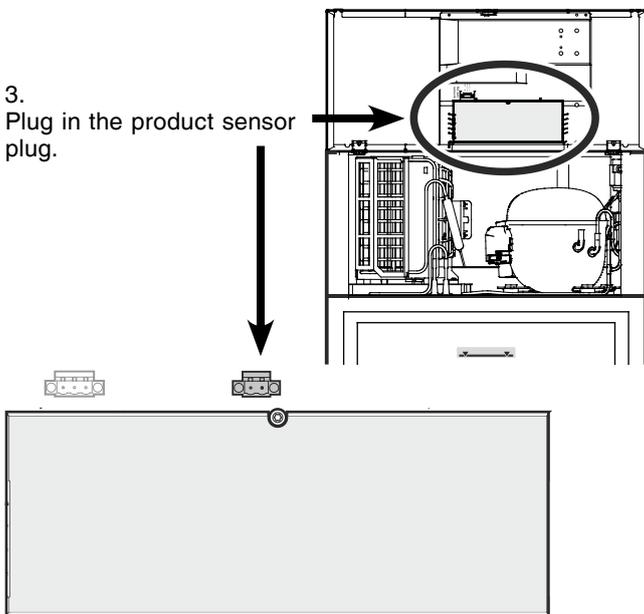
Seal the opening with sealant.



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



3. Plug in the product sensor plug.



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

## Product sensor settings

• Connect the appliance to the mains - the display reads OFF.

	>	General Purpose Product - - °C
	>	Menu 01 Setpoint
	>	Menu 06 Settings
	>	Settings 01 Service
	>	Settings 09 Alarm setting
	>	Sensor check OFF
	>	Sensor check OFF ← flashes
	>	Sensor check ON ← flashes

Save by pressing the **Set** button.

The sensor is now monitored by the electronic control system. In the event of a sensor error, an alarm will be signalled.

### Adjusting the alarm limits

	>	A12= - 45 °C P low Alarm
	>	A12= - 45 °C - 45 °C ← flashes

Use buttons **↓** and **↑** to select the desired setting.

Save by pressing the **Set** button.

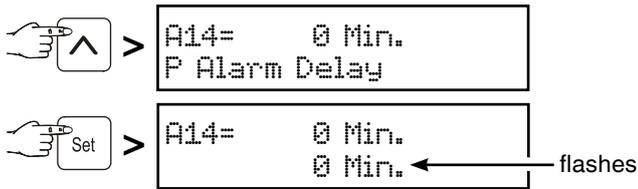
	>	A13= 45 °C P high Alarm
	>	A13= 45 °C 45 °C ← flashes

Use buttons **↓** and **↑** to select the desired setting.

Save by pressing the **Set** button.

If an alarm delay needs to be set, carry out the steps in the next section or return to the default display by pressing the **Menu** button.

## Adjusting the alarm delay



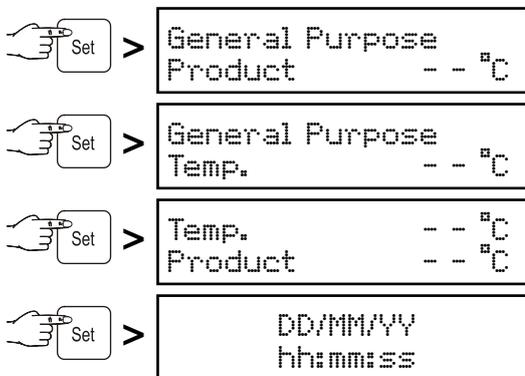
Use buttons and to select the desired setting.

Save by pressing the button.

Return to the standard indication by pressing the button.

## Note

When in standard display mode, it is possible to switch between product sensor, standard temperature sensor, both sensors and date/time using the button.



## 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.**

- Empty the appliance and store the food in a cool place.
- 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**.

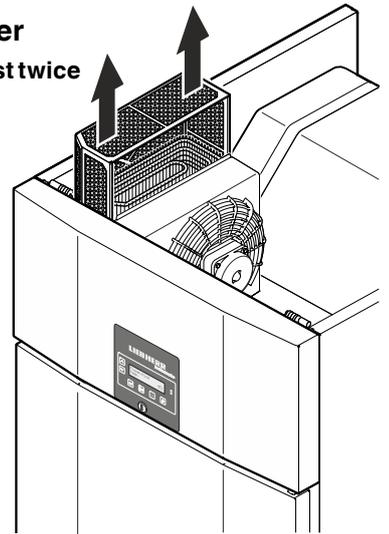
**Do not use abrasive sponges or scourers, do not use concentrated cleaning agents and never use cleaning agents containing sand, chloride or acid or chemical solvents, as these would damage the surfaces and could cause corrosion.**

## Cleaning the dust filter

Clean the dust filter at least twice per year!

### Remove the plug!

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:

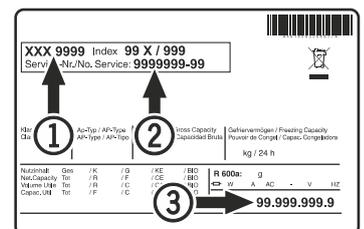
- Is the appliance switched on?
- Is the plug correctly fitted in the mains socket?
- Is the fuse intact?

### • The temperature is not low enough:

- Is the temperature setting correct (see "Setting the temperature")?
- Have excessive amounts of fresh food been placed in the appliance?
- 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**.



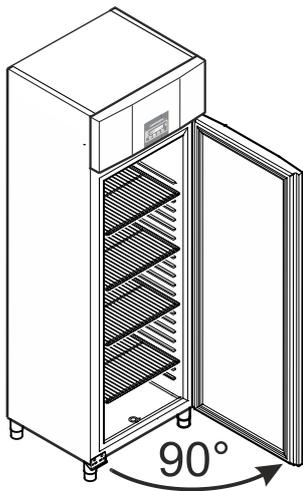
## Shutting your appliance down

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

The appliance complies with the relevant safety regulations and EC Directives 2004/108/EC and 2006/95/EC.

## Changing over door hinges GKPv 6590

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°.

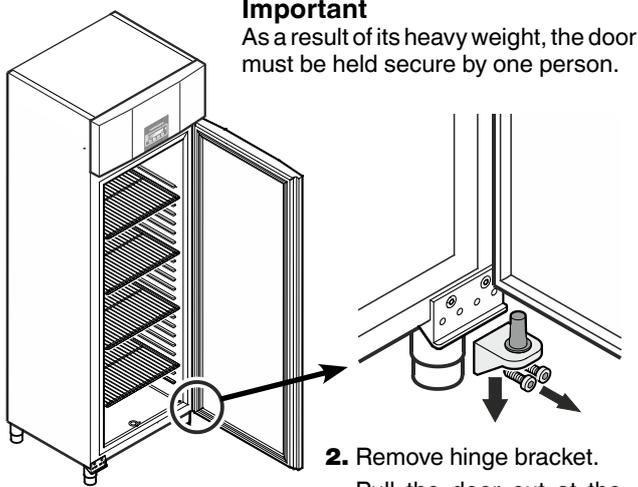
### Important note

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.

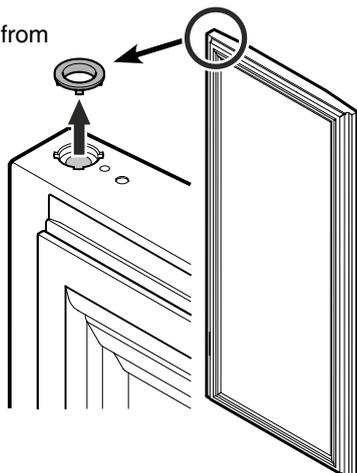


### Important

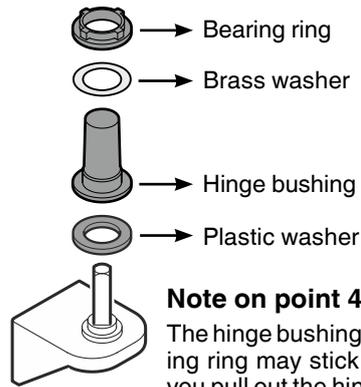
As a result of its heavy weight, the door must be held secure by one person.

2. Remove hinge bracket.  
Pull the door out at the bottom and lift off.

3. Remove bearing ring from upper door mounting.

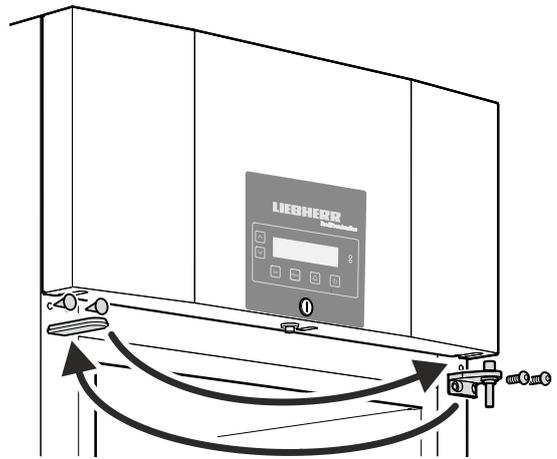


4. Remove the hinge components from the hinge bracket.

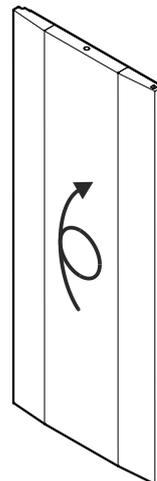


### Note on point 4

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.

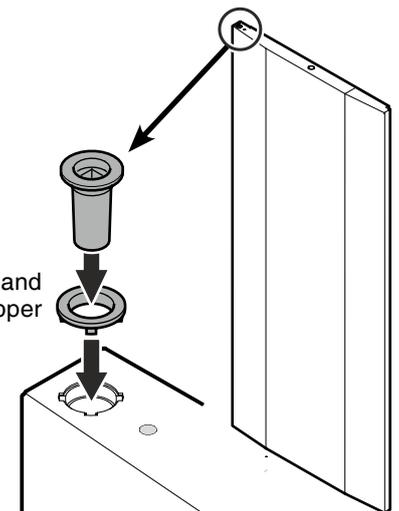


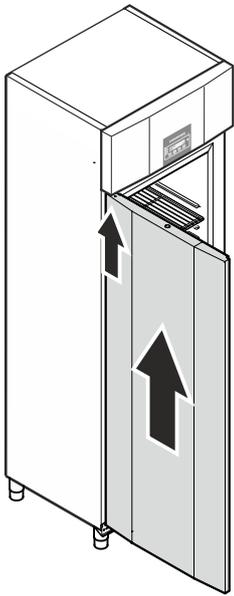
5. Transfer the upper hinge bracket and covers to the opposite side.



6. Turn the door by 180°.

7. Insert the bearing ring and hinge bushing in the upper door mounting.





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

**⚠ WARNING!**

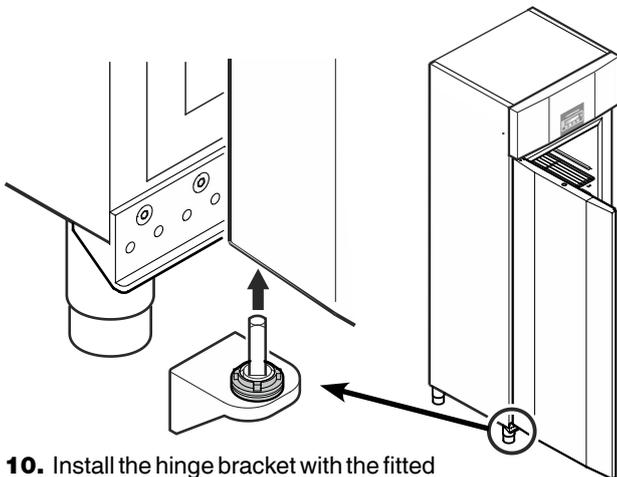
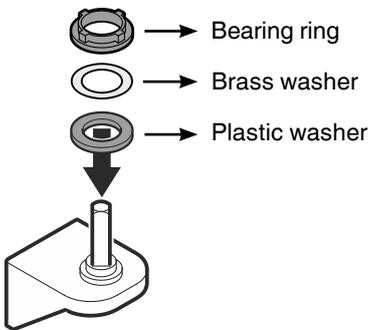
**It is essential that the door is open at an angle of 90° during installation.**

**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.**

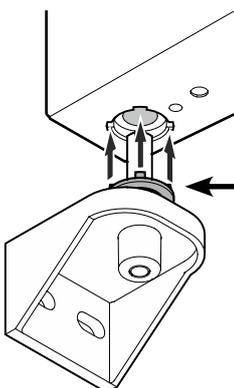
**Important**

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

**9. Fit the hinge components on the hinge bracket.**



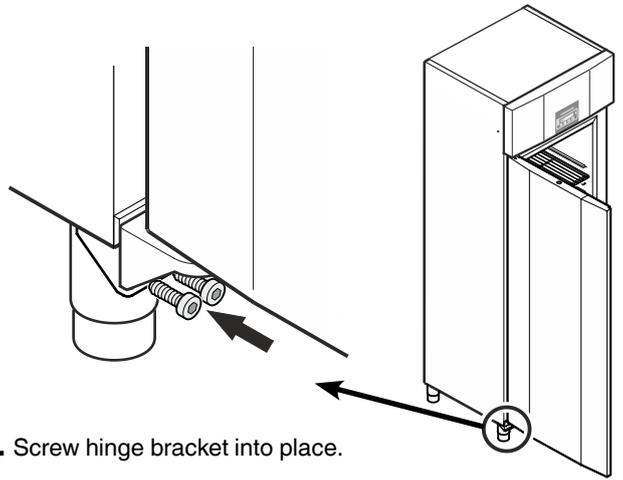
**10. Install the hinge bracket with the fitted hinge components in the lower door mounting.**



**Note on point 10**

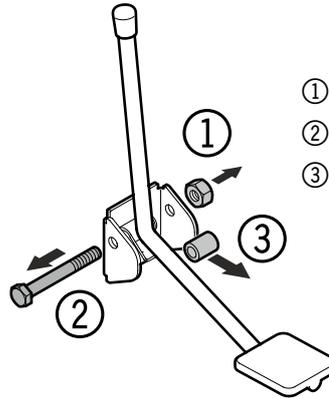
The tabs on the bearing ring must fit into the recesses of the door mounting during installation.

If necessary, gently rotate the upper ring.



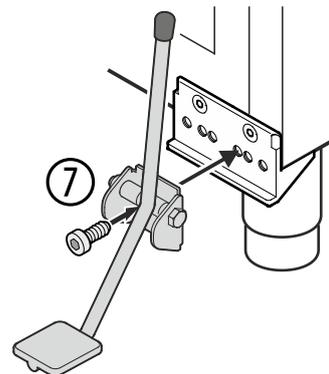
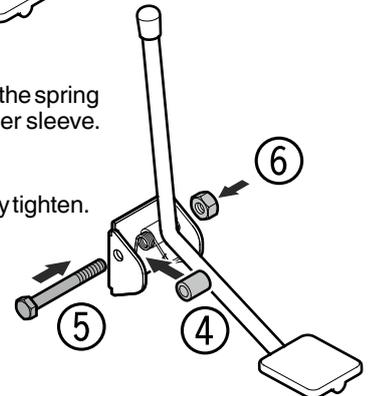
**11. Screw hinge bracket into place.**

**Installation of the foot pedal opener for the left-hand hinged door**



- ① Unscrew the nut.
- ② Remove the screw.
- ③ Remove the spacer sleeve.

- ④ Position the foot pedal with the spring to the right. Insert the spacer sleeve.
- ⑤ Insert the screw.
- ⑥ Screw on the nut and slightly tighten.



⑦ Screw on the foot pedal (third hole from the right).

⑧ Fit the covers.

