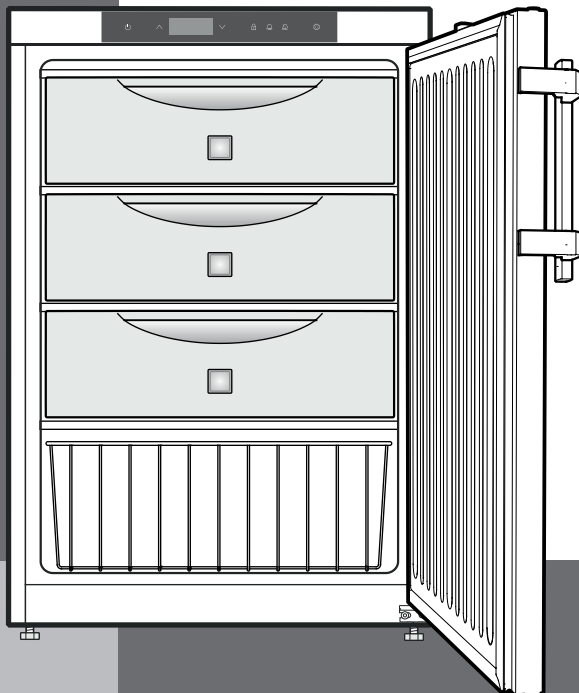


# LIEBHERR

## Use and Care Manual

Flammable Material  
Storage Freezer



LFBFS05W1HC  
7085 831-00

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## Please Read and Follow these Instructions

These instructions contain Danger, Warning and Caution notes.

This information is important for safe and efficient installation and operation.

Always read and comply with all Danger, Warning and Caution notes!



### DANGER!

**Danger indicates a hazard which will cause serious injury or death if precautions are not followed.**



### WARNING!

**Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**



### CAUTION!

**Caution indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.**

### IMPORTANT

*This indicates information that is especially relevant to a problem-free installation and operation.*

## California Proposition 65

- This product contains chemicals known to the state of California to cause cancer or reproductive harm.
- This product can expose you to chemicals including Diisononyl Phthalate (DINP) which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).
- This product can expose you to chemicals including Di-isodecyl Phthalate (DIDP) which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### IMPORTANT

*All types and models are subject to continuous improvement. The manufacturer reserves the right to make modifications to the shape, equipment and technology.*

## Disposal of Old Appliance



**DANGER!**

**Risk of child entrapment.**

Child entrapment and suffocation are not problems of the past.

Junked or abandoned refrigerators are still dangerous – even if they will sit for “just a few days.”

If you are getting rid of your old refrigerator, please follow these instructions to help prevent accidents.

**Before you discard old appliances:**

- Take off the doors.
- Leave the shelves in place so that children may not easily climb inside.
- Cut off the power cable from the discarded appliance. Discard separately from the appliance.
- Be sure to follow your local requirements for disposal of appliances.

Contact the trash collection agency in your area for additional information.

## Disposal of this Appliance

This appliance contains flammable gases within the refrigeration circuit and insulation foam.

Contact the municipality or disposal company in your area for information on approved recycling or disposal.

## Disposal of Carton

The packaging is designed to protect the appliance and individual components during transport and is made of recyclable materials.



**WARNING!**

**Keep packaging materials away from children. Polythene sheets and bags can cause suffocation!**

If possible, please recycle packaging material at a recycling facility.

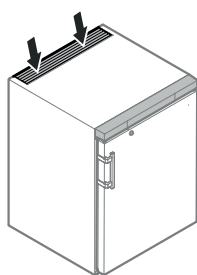
## R600a Refrigerant



**WARNING!**

The refrigerant R600a contained within the appliance is environmentally friendly, but flammable. Leaking refrigerant can ignite.

To prevent possible ignition, follow the warnings below:

- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction. 
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not damage the refrigerant circuit.
- Component parts and power cords shall be replaced with like components performed by factory authorized service personnel only.
- Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.

# SAFETY

## Important Safety Information

- If the appliance is damaged on delivery, contact the supplier immediately before connecting it to the power source.
- To guarantee safe operation, ensure that the appliance is set up and connected as described in this manual.
- Disconnect the appliance from the power source if a fault occurs. Pull out the plug, turn off or disable the power source.
- When disconnecting the appliance, always pull it out by the plug; never pull on the cable.
- Any repairs and work on the appliance should only be performed by the customer service department. Unauthorized work may be dangerous to the user. The power source cable should only be changed or replaced by the customer service department.
- 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 can identify such sprays by the printed contents or a flame symbol.
- To prevent possible injury due to an electrical shock, be sure to disconnect the power cord or turn off the circuit breaker before cleaning the appliance.
- To avoid injury or damage to the appliance, do not use steam cleaning equipment to clean the appliance.
- Do not operate the appliance in the presence of explosive fumes.
- In the event of a power outage, open the door as infrequently as possible.
- To protect the appliance from possible damage, allow it to stand 1/2 to 1 hour in place before turning on the electricity. This allows the refrigerant and system lubrication to reach equilibrium.

## Electrical Safety

Connect this appliance to a 15 amp or 20 amp, 110-120 VAC, circuit which is grounded and protected by a circuit breaker or fuse.

We recommend using a dedicated circuit for this appliance to prevent circuit overload and the chance of interruption to the appliance.

This appliance is equipped with a three-prong (grounding) polarized plug for your protection against possible shock hazards.

Where a two-prong wall receptacle is encountered, contact a qualified electrician and have it replaced with a properly grounded three-prong receptacle in accordance with all local codes and ordinances.

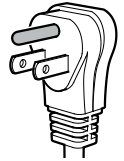


**WARNING!**

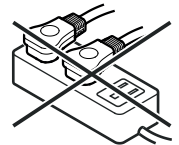
**Electrocution hazard.**

**Electrical grounding required.**

- **Do not remove the round grounding prong from the plug.** →
- **Do not use extension cords or ungrounded (two-prong) adapters.**
- **Do not use a power cord that is frayed or damaged.**



- **Do not use a power strip.** →



**Failure to follow these instructions may result in fire, electrical shock or death.**

## Safety Regulations

### Range of appliance use

These units are ideal for storing cyclopropane, ethyl ether, ethylene, acetone, alcohol, benzene, butane, gasoline, hexane, lacquer solvent vapors, naphtha, natural gas or propane along with many other potentially hazardous materials. Please also contact your supplier regarding the material safety data sheets for the stored materials.

### IMPORTANT

- The appliance is not intended for outdoor use.
- The appliance is not intended for storage of blood or blood products.
- The appliance is not intended to be used for medical applications.
- The appliance is not suitable for operation in potentially explosive atmospheres or hazardous (classified) locations.

### 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.

Climate Rating	Max. Ambient Temperature	Max. Relative Humidity
7	95°F (35°C)	75%

The minimum room temperature at the place of installation is 50°F (10°C).

### IMPORTANT

*Do not operate the appliance outside the specified ambient temperature and humidity range.*

- The refrigerant circuit has been tested for leaks.
- The appliance complies with current safety regulations  
C22.2 No. 120-13  
UL 471 - 10<sup>th</sup> Edition  
ANSI/ISA 12.12.01 - 9<sup>th</sup> Edition

## ⚠ WARNING!

**Do not allow children to play with the appliance. Children must not climb, sit or stand on the shelves or door.**

**Failure to follow these instructions may result in death or serious injury.**

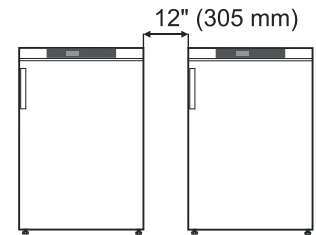
## Setting Up

Avoid placing the appliance in direct sunlight or near the stove, range top, radiators and similar heat sources.

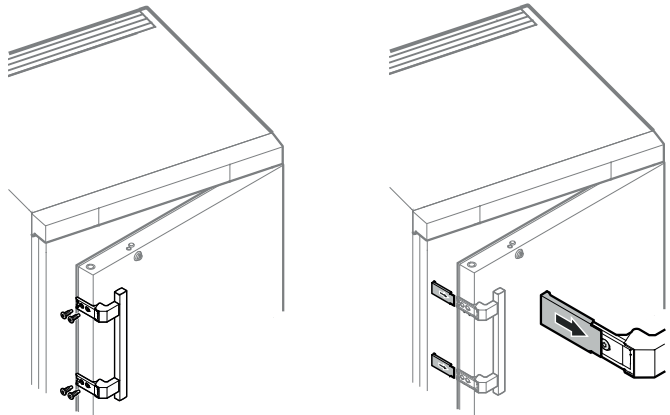
- Examine the unit and packaging for shipping damage. Contact the carrier immediately if you suspect there is any damage.

### IMPORTANT

*If several appliances are installed next to each other, leave a gap of 12" (305 mm) between them.*



## Installing the Equipment

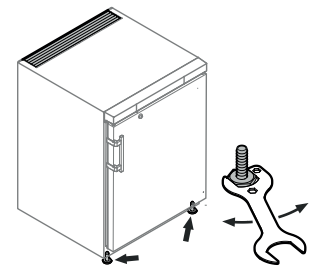


Screw on the handle. Handle, screws and key are supplied in the accessory pack.

Push on pressure plates until they engage.

## Levelling the appliance

Compensate floor unevenness using the adjustable feet. 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.

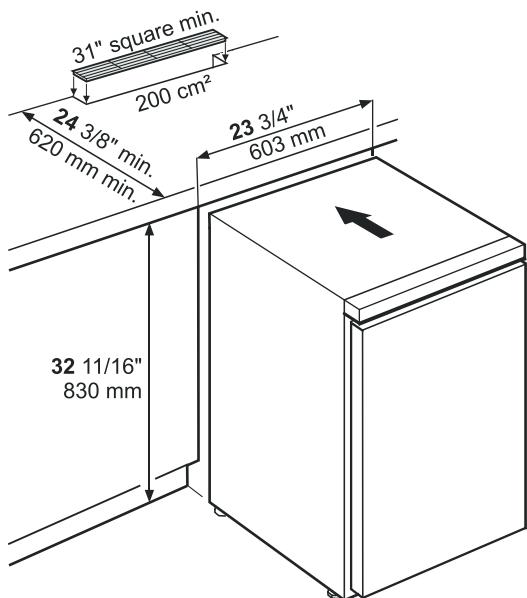


# FEATURES

## Installation Dimensions

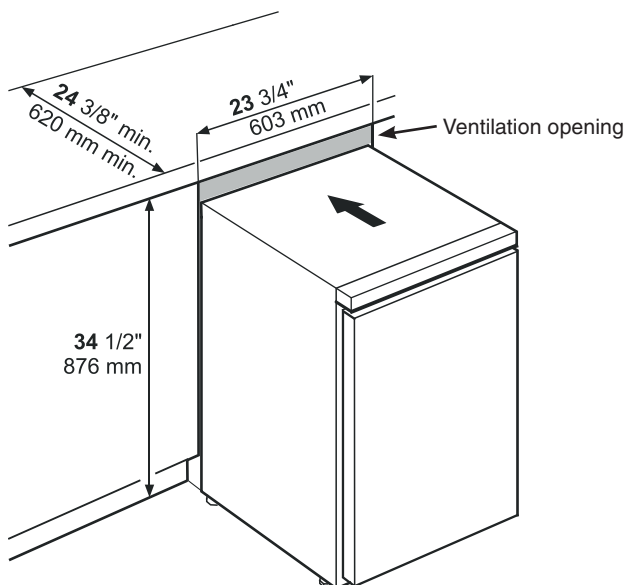
### Version 1

An opening with a cross-section of min. 31 sq. in. is required in the worktop to ensure ventilation of the rear of the appliance.

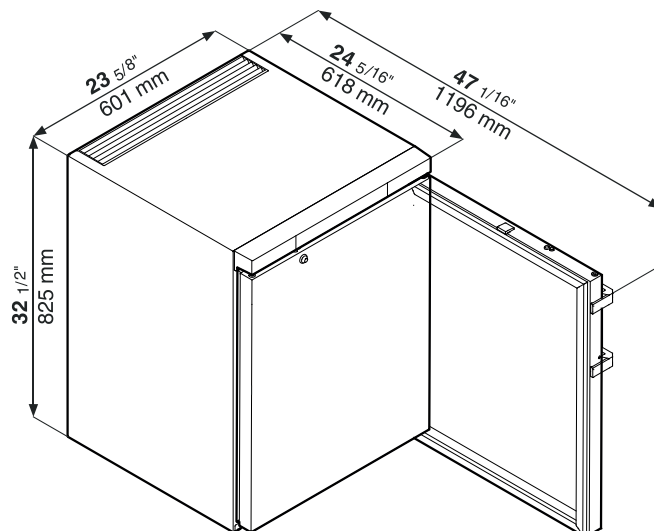


### Version 2

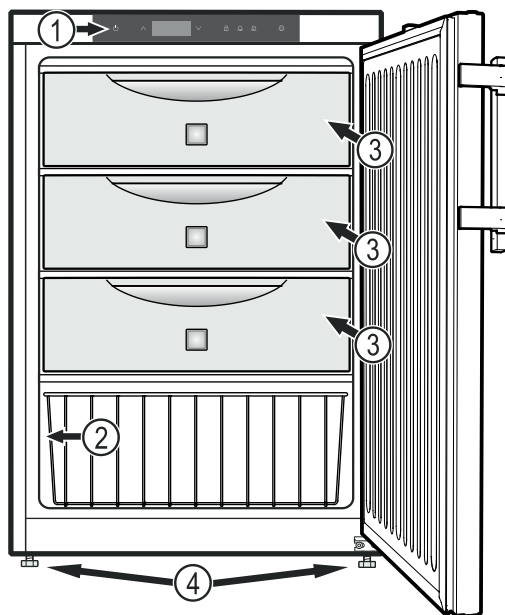
If the worktop is not supplied with a ventilation grille, the recess must be at least 34 -1/2" (876 mm) high to ensure adequate heat dissipation to the front.



## Dimensions



## Description of the Appliance

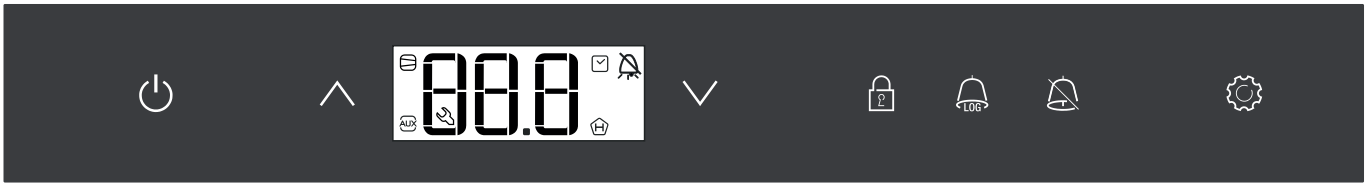



- (1) Operating and control elements
- (2) Model plate
- (3) Drawers
- (4) Adjustable-height feet


### **IMPORTANT**


The maximum load per drawer is 44 lbs (20 kg).

## Operating and Control Elements




 On/Off button (switching the appliance on and off)

 Up button (for navigating in the menu and increasing values)

 Down button (for navigating in the menu and decreasing values)

 Keypad lock


 AlarmLog button (for calling up stored alarm events and reading the temperature progression)

 Audible alarm Off button


 Enter button

### Symbols in the display


 Compressor is running

 LED flashing. The compressor will start after the pressure in the refrigerant circuit has equalized.


 Product sensor is activated

 LED flashing and **E t C** appears in the display. The real time clock must be reset.

 ALARM LOG function is activated

 LED flashing. A power outage or interior temperatures outside the permitted range have been recorded.

 Alarm function


 A fault has occurred in the appliance. Contact the customer service department.

 Digital display


### Switching the Appliance On and Off

Connect the appliance to the electrical outlet - the **OFF** indicator and the temperature display flash alternately.




#### Switching the appliance on

Keep the  button pressed for approx. 3 seconds until the temperature display lights up.


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

If the appliance is disconnected from the electrical outlet 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 ( appears in the display).


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

- Press button .
- Press  +  for 5 seconds. Display = **r E S**.

The  LED will now be lit permanently.



- Press  for 5 seconds. The electronic control system switches back to normal operation.

#### Switching the appliance off

Keep the  button pressed for approx. 3 seconds - the **OFF** indicator and the temperature display flash alternately.



# OPERATION

## Setting the Temperature

- Press  for 1 second. The temperature display flashes.
- To increase the temperature (warmer): press .

### Note

Keep the button pressed down to change the temperature setting continuously.


- To reduce the temperature (colder): press .
- Press  again.

The desired temperature setting is saved.

The temperature can be set at between -9°C and -26°C (16°F and -15°F).

## Door Open Alarm


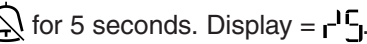

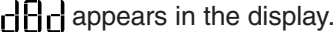







If the door is left open for more than 1 minute, the audible alarm signal will sound and *door* and the temperature indication flash alternately in the display.

If the door must be opened for a lengthy period in order to place items into the appliance, cancel the audible alarm signal by pressing the  button.


The alarm switches back to standby when the door is shut.











## Setting the Delay Time for the Door Open Alarm

The delay time until the audible alarm sounds after the door has been opened can be adjusted.











- Press  for 5 seconds. Display = .
- Press  until  appears in the display.
- Press . Display =  (minute).  
Setting range = 1 - 5 minutes.
- Use buttons  or  to select the desired setting.
- Press . Display = .
- Press  for 5 seconds. The electronic control system switches back to normal operation.

## Audible Alarm Settings

The audible alarm will be muted for the current alarm after the  button has been pressed. Complete the following steps if you want the audible alarm function to reactivate automatically.


- Press  for 5 seconds. Display = .
- Press  until  appears in the display.
- Press . Display = .
- Press . Display = .
- Press . Display = .

Automatic reactivation of the audible alarm is now active. The delay time until the audible alarm sounds again must be set.

- Press . Display = .
- Press . Display = .  
Time in minutes after which the audible alarm will sound again after the  button has been pressed.  
Setting range = 1 - 120 minutes.
- Use buttons  or  to select the desired setting.
- Press . Display = .
- Press  for 5 seconds. The electronic control system switches back to normal operation.

## Alarm Messages

### 1. LED flashes

If  appears in the display, the appliance has a fault. Consult your nearest customer service point.

### 2. The temperature display flashes alternately with or

The interior is too warm (HI) or too cold (LO). The audible alarm sounds (unless the audible alarm function has been deactivated).

### 3. HA / HF / LED flashes

There has been a power outage (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.

### Note






After a door has been opened or a defrosting process, the alarm delay Ad will be extended by an additional delay time (60 minutes). This additional delay time must not be changed.

This means that a temperature alarm will appear later after a door has been opened or a defrosting process than is actually set using parameter Ad.

- Press  for 5 seconds. Display = r15.
- Press  until AL appears in the display. (AL = lower alarm limit)
- Press . Display = temperature difference in °F.
- Use buttons  or  to select the desired setting.








### IMPORTANT

*Set positive values only.*

- Press . Display = AH.
- Press . Display = AH (upper alarm limit).
- Press . Display = temperature difference in °F.
- Use buttons  or  to select the desired setting.

### IMPORTANT

*Set positive values only.*






- Press . Display = AH.
- Press . Display = Ad.
- Press . Display = alarm delay in minutes.
- Use buttons  or  to select the desired setting.
- Press . Display = Ad.
- Press  for 5 seconds. The electronic control system switches back to normal operation.


## Deactivating the Audible Alarm Function


The audible alarm function can be completely deactivated if necessary.



### Note

In this case, the sentence “**The audible alarm signal will sound**” in these operating instructions must be skipped when reading the section in question.


- Press  for 5 seconds. Display = r15.
- Press  until H4 appears in the display.
- Press . Display = 0.
- Use buttons  or  to select the desired setting.

 = audible alarm function activated

 = audible alarm function deactivated.

- Press . Display = H4.
- Press  for 5 seconds. The electronic control system switches back to normal operation.

## Calling Up Stored Alarm Events and Reading the Temperature Progression (ALARM LOG)

- Press . Display =  $\text{H}\bar{\text{A}}\bar{\text{r}}_1$ .
- Scroll through the list using  $\nabla$  or  $\blacktriangle$ .

$\text{H}\bar{\text{A}}\bar{\text{r}}_1$  Number of temperature alarms

$\text{H}\bar{\text{A}}$  Last temperature alarm

$\text{H}\bar{\text{A}}\bar{1}$  Last temperature alarm but one

$\text{H}\bar{\text{A}}\bar{2}$  Temperature alarm before  $\text{H}\bar{\text{A}}\bar{1}$

$\text{H}\bar{\text{F}}_1$  Number of power outages

$\text{H}\bar{\text{F}}$  Last power outage


$\text{H}\bar{\text{F}}\bar{1}$  Last power outage but one

$\text{H}\bar{\text{F}}\bar{2}$  Power outage before  $\text{H}\bar{\text{F}}\bar{1}$


$\bar{\text{r}}\bar{\text{t}}$  Period in hours in which the maximum and minimum interior temperatures were measured

$\bar{\text{r}}\bar{\text{H}}$  Maximum (highest) measured temperature

$\bar{\text{r}}\bar{\text{L}}$  Lowest measured temperature




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

### Note

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



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

## Resetting the Recorded Alarm Events $\text{H}\bar{\text{A}}\bar{\text{n}}$


- Press . Display =  $\text{H}\bar{\text{A}}\bar{\text{r}}_1$ .
- Press  for 5 seconds. Display =  $\bar{\text{r}}\bar{\text{E}}\bar{\text{S}}$ .
- Press  for 5 seconds. The electronic control system switches back to normal operation.

## Resetting the Recorded Temperature Progression $\bar{\text{r}}\bar{\text{t}}$

Complete the following steps if you want to reset the value saved for  $\bar{\text{r}}\bar{\text{t}}$  in the previous section to 0.


- Press . Display =  $\text{H}\bar{\text{A}}\bar{\text{r}}_1$ .
- Press  $\nabla$  until  $\bar{\text{r}}\bar{\text{t}}$  appears in the display.
- Press . Display =  $0-999$ .
- Press  $\nabla$  for 5 seconds. Display =  $\bar{\text{r}}\bar{\text{E}}\bar{\text{S}}$ .

The values for  $\bar{\text{r}}\bar{\text{H}}$  and  $\bar{\text{r}}\bar{\text{L}}$  (highest and lowest measured interior temperature) are then reset to the current interior temperature.

- Press  for 5 seconds. The electronic control system switches back to normal operation.

## Alarm Test

This test checks the function of the internal and any externally connected alarm devices. The appliance's refrigerating function remains switched on during this test.

- Press  +  $\nabla$  for 5 seconds.
- The display changes to a temperature value of 0.2°F below the set upper alarm limit.
- The temperature value now rises by 0.1°F every 2 seconds.
- When the upper alarm limit is reached,  $\text{H}\bar{1}\bar{0}$  appears in the display. An external alarm device connected to the floating alarm output is now activated.
- The temperature value continues to rise up to 0.2°F above the upper alarm limit.
- The same process then takes place automatically for the lower alarm limit.  $\bar{\text{L}}\bar{1}\bar{0}$  appears in the display.

The electronic control system automatically switches back to normal operation.

### Cancelling the test prematurely

- Press  for 5 seconds.

### Note

If the values of the upper and lower alarm limit (**AL** and **AH** in **Adjusting the Alarm Parameters**) are set to 0,  $\text{H}\bar{-}$  and  $\bar{\text{L}}\bar{-}$  will appear in the display during this test.

### Note






For a realistic temperature alarm test, an additional delay time (60 minutes) applies as well as the adjustable alarm parameters AL, AH and Ad.

After a door has been opened or a defrosting process, the alarm delay Ad will be extended by an additional delay time (60 minutes). This additional delay time must not be changed. This means that a temperature alarm will appear later after a door has been opened or a defrosting process than is actually set using parameter Ad.

## 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  for 5 seconds. Display =  $r^1 \zeta$ .
- Press  $\wedge$  until  $r^1 \zeta |$  appears in the display.
- Press . Display = correction value set at the factory.
- Use buttons  $\vee$  or  $\wedge$  to increase or decrease the correction value in 0.1°F increments.
- Press . Display = actual (corrected) interior temperature.
- Press . Display =  $r^1 \zeta |$ .
- Press  for 5 seconds. The electronic control system switches back to normal operation.

## Product Sensor (optional accessory)

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

For information about ordering and connecting the product sensor, contact your dealer.

### Activating the sensor





- Press  for 5 seconds. Display =  $r^1 \zeta$ .
- Press  $\vee$  until  $r^1 \text{A} \zeta$  appears in the display.
- Press . Display =  $|$ .
- Press  $\wedge$ . Display =  $|$ .
- Press . Display =  $r^1 \text{A} \zeta$ .
- Press  for 5 seconds. The electronic control system switches back to normal operation.

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





If  $E \zeta$  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 set temperature compared to the actual interior temperature) can be offset with this function.

- Press  for 5 seconds. Display =  $r^1 \zeta$ .
- Press  $\wedge$  until  $r^1 \zeta \zeta$  appears in the display.
- Press . Display =  $0.0$ .
- Use buttons  $\vee$  or  $\wedge$  to increase or decrease the correction value in 0.1°F increments.
- Press . Display = actual (corrected) product sensor temperature.
- Press  for 5 seconds. The electronic control system switches back to normal operation.


## Switching the Temperature Display between Control Sensor and Product Sensor

- Press  for 5 seconds. Display =  $r^1 \zeta$ .
- Press  $\wedge$ . Display =  $r^1 \zeta |$ .
- Press . Display =  $|$  (control sensor).
- Press  $\wedge$ . Display =  $\zeta$  (product sensor).
- Press . Display =  $r^1 \zeta |$ .
- Press  for 5 seconds. The electronic control system switches back to normal operation.

If the product sensor is activated,  $\text{Aux}$  appears in the display.

## Resetting the Parameters to Factory Settings

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

- Disconnect the power cord.
- Keep  pressed down and connect the power cord.

Display =  $Er |$ .

- Press . Display =  $5 \zeta d$ .

The electronic control system automatically switches back to normal operation.



## Setting the Real Time Clock

The real time clock is preset (CET). Other time zones or summer/winter time must be adjusted manually.






### Note

The time and date values in this section are depicted with 0. The actual numbers displayed when setting the real time clock may vary.






### Activating the clock setting

- Press  for 5 seconds. Display =  $r^15$ .
- Press . Display =  $t \square$ .






### Setting the year

- Press . Display =  $Y00$ . Year 0 - 99
- Press . Display =  $\square\square$  (single or double digit).
- Set the year by pressing the   buttons.
- Press  = save new setting.






### Setting the month

- Press . Display =  $M00$ . Month 1 - 12
- Press . Display =  $\square\square$  (single or double digit).
- Set the month by pressing the   buttons.
- Press  = save new setting.






### Setting the day

- Press . Display =  $d00$ . Day 1 - 31
- Press . Display =  $\square\square$  (single or double digit).
- Set the day by pressing the   buttons.
- Press  = save new setting.






### Setting the day of the week

- Press . Display =  $u00$ .  
Day of the week: 1 = Monday, 7 = Sunday.
- Press . Display =  $\square$ .
- Set the day of the week by pressing the   buttons.
- Press  = save new setting.


### Setting the hour

- Press . Display =  $h00$ . Hour 0 - 23
- Press . Display =  $\square\square$  (single or double digit).
- Set the hour by pressing the   buttons.
- Press  = save new setting.

### Setting the minute

- Press . Display =  $m00$ . Minute 0 - 59
- Press . Display =  $\square\square$  (single or double digit).
- Set the minute by pressing the   buttons.
- Press  = save new setting.

### Exiting the clock setting








- Press  for 5 seconds. The electronic control system switches back to normal operation.

### Note

When  $E t \square$  appears in the display, the real time clock must be reset.

## Changing the Network Address











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

- Press  for 5 seconds. Display =  $r^15$ .
- Press  until  $H0$  appears in the display.
- Press . Display =  $!$ .
- Use button  or  to change the network address (1 - 207).
- Press . Display =  $H0$ .
- Press  for 5 seconds. The electronic control system switches back to normal operation.







## 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  for 5 seconds. Display = .
- Press  until  appears in the display.
- Press . Display = .
- Use button  or  to choose a PIN code between 1 and 999.
- Press  at the desired code number.
- Press  for 5 seconds. The electronic control system switches back to normal operation.

### Activating the keypad lock







- Press  for 5 seconds. Display = .
- Enter the PIN code using button  or .
- Press . Display = .

All functions except  and  are locked.

### Note

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  for 5 seconds. Display = .
- Enter the PIN code using button  or .
- Press . Display = .

All functions are enabled.







### Note

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

## Temperature Display Mode




You can choose the **unit of temperature** for the display in degrees Fahrenheit or degrees Celsius.

The factory setting is degrees Celsius.

- Press  for 5 seconds. Display = .
- Press . Display = .
- Use buttons  or  to select the desired setting.

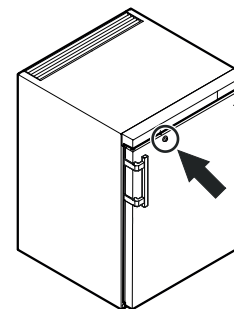
 = °C

 = °F

- Press . Display = .
- Press  for 5 seconds. The electronic control system switches back to normal operation.

## Safety Lock

The lock in the appliance door is equipped with a safety mechanism.



### Locking the appliance

- Insert the key and push as shown by arrow **1**.
- Turn the key 90° clockwise **2**.



### Unlocking the appliance

- Insert the key and push as shown by arrow **1**.
- Turn the key 90° counterclockwise **2**.



**WARNING!**

**Risk of child entrapment and suffocation due to a locked appliance door.**

**To Prevent A Child From Being Entrapped, Keep The Key Out Of Reach Of Children And Not In The Vicinity Of Freezer (Or Refrigerator).**

# DEFROSTING / CLEANING

## Defrosting

After a longer period of operation a layer of frost or ice can build up on the cooling plates in the freezer compartment. This will increase the energy consumption.

### ⚠ WARNING!

Leaking refrigerant can ignite.

- Do not damage the refrigerant circuit.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Disconnect the power cord or turn off the circuit breaker.
- Transfer items to other appliances.
- Remove the drawers.
- Leave the door of the appliance open while defrosting.

### ⚠ CAUTION!

Danger of frostbite due to prolonged skin contact with cold surfaces.

Use protective gloves when defrosting.

- After a defrosting time of approx. 20 minutes, the layer of frost or ice can be detached from the interior container by hand and removed.
- Mop up the remaining water with a cloth and clean the appliance.
- Insert the drawers.

## Cleaning

### ⚠ WARNING!

- To prevent possible injury due to an electrical shock, be sure to disconnect the power cord or turn off the circuit breaker before cleaning the appliance.
- To avoid injury or damage, do not use steam cleaning equipment to clean the appliance.

### Cleaning the appliance interior

- Remove the drawers.
- Clean the inside of the appliance and equipment parts with lukewarm water and a little detergent.
- Thoroughly dry all parts with a cloth.
- Do not damage or remove the model plate on the inside of the appliance. It is very important for servicing your appliance.
- Insert the drawers.

### Cleaning the appliance outside

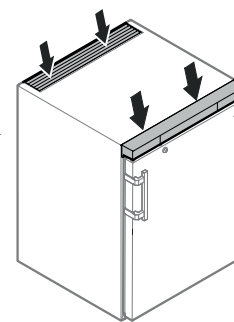
- Clean the door surface with a clean and soft cloth. If necessary, use a moist cloth (water + detergent).

### IMPORTANT

*Do not use abrasive or scouring pads or sponges. Do not use concentrated cleaning agents. Never use abrasive or acid-based cleaners or chemical solvents.*

- Ensure no cleaning water penetrates into the electrical components.

Do not use a sponge or cloth that is overly wet.



## Troubleshooting

Your appliance is designed and manufactured for a long life and reliable operation.

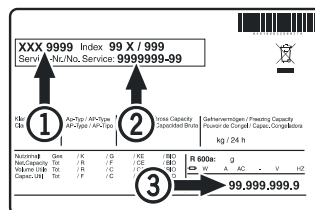
If a problem occurs during operation, check whether it is due to an operating error.

Please note that even during the warranty period, you may be responsible for certain repair costs.

Problem	Possible cause and remedy
Appliance does not work, display is off.	<ul style="list-style-type: none"> <li>- Is the appliance turned on?</li> <li>- Is the power cord properly inserted in the outlet?</li> <li>- Is the circuit breaker or fuse in working order?</li> </ul>
Motor seems to run too long.	<ul style="list-style-type: none"> <li>- Is the ambient temperature too hot? See <b>Safety Regulations</b>.</li> <li>- Has the appliance been opened too often or left open too long?</li> </ul>
The temperature is not cold enough.	<ul style="list-style-type: none"> <li>- Is the temperature setting correct? See <b>Setting the Temperature</b>.</li> <li>- Does a separately installed thermometer show the correct reading?</li> <li>- Is the ventilation system working properly?</li> <li>- Is the appliance set up too close to a heat source?</li> </ul>
Temperature alarm test does not work as required.	- See „Adjusting the alarm parameters“ and „Alarm test“
Error codes displayed	Cause and further action
E0 or E1 or E2 or rE	Sensor error. > Contact the customer service department.
EE or EF	Error in the electronic control system. > Contact the customer service department.
LO	Temperature in the interior is too low. > Contact the customer service department.
HI	Temperature in the interior is too high (warm). > First make sure that the door is closed properly. If the HI display does not disappear after approx half an hour, contact the customer service department.
dor	The appliance door has been left open for more than 1 minute. > Close the door.
Etc	Real time clock error. > Reset the real time clock.
HF or HA	There has been a power outage ( <b>HF</b> ) of some length or the interior was too warm or too cold ( <b>HA</b> ). > See <b>Calling Up Stored Alarm Events and Reading the Temperature Progression</b> .

## Customer Service

If none of the above possible causes apply, and you can not rectify the fault yourself, contact the customer service department. Indicate the type (1) of appliance, service number (2) and the appliance / serial number (3) as shown on the model plate.



The position of the model plate is shown in the section entitled **Description of the Appliance**.

## Turning Off the Appliance

If your appliance is to be turned off 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 odors.

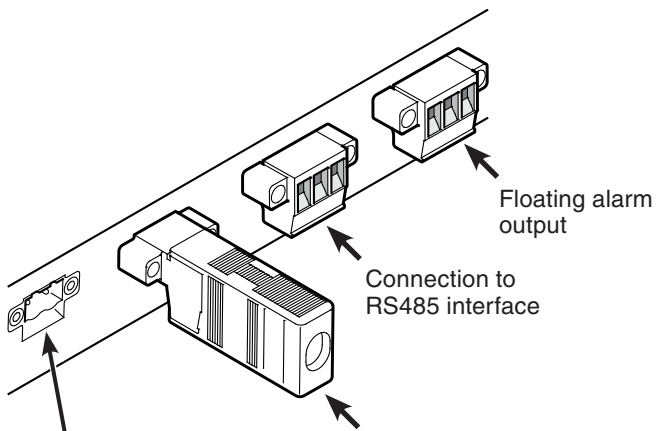
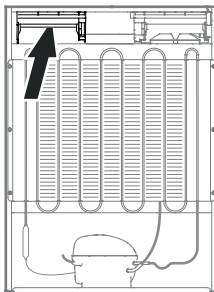
# INSTALLATION

## External alarm

We recommend connecting the appliance to an external alarm device.

There are various connection options at the back of the appliance.

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



Optional temperature sensor connection.

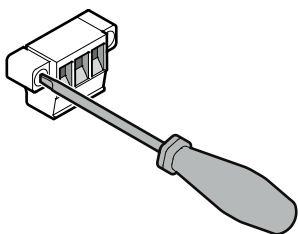
### Terminating resistor

When connecting several appliances via the RS485 interface, the terminating resistor must remain on the last appliance.

**Remove the terminating resistors from the appliances in between.**

### IMPORTANT

Only the original Liebherr temperature sensor, article number 9590 145, is suitable for this connection.



### Note

The connectors are secured with screws. To remove the connectors, undo the left and right screws using a small slotted screwdriver.

## Floating alarm output

These three contacts can be used to connect the appliance to an optical or acoustic alarm device.

The connection is designed for a maximum of 42 V/8 A DC from a safety extra-low voltage (SELV) source (minimum current: 150 mA).

### IMPORTANT

When the power supply voltage is supplied to the floating alarm contact, the technical safety requirements specified in the C22.2 No. 120-13 and UL 471 - 10th Edition standards will not be met.

### N.O

#### Alarm output

Connection for a visual warning light or an acoustic alarm signal.

### N.C

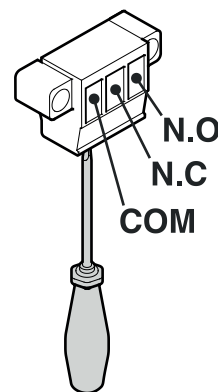
#### Operating light

Connection for a control lamp to indicate that the appliance is in normal mode.

### COM

#### External power supply unit

42 V/8 A DC maximum  
Minimum current: 150 mA



## RS485 interface

### Rx- / Tx-

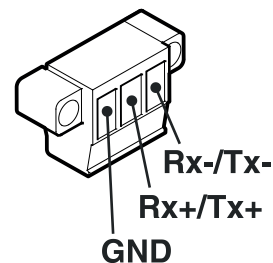
Send/Receive data cable (negative pole)

### Rx+ / Tx+

Send/Receive data cable (positive pole)

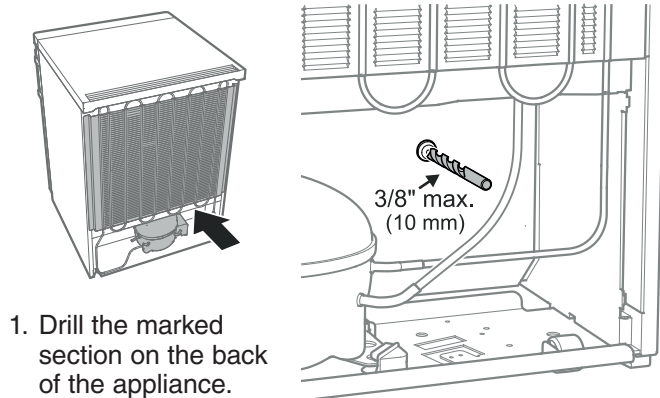
### GND

Grounding cable

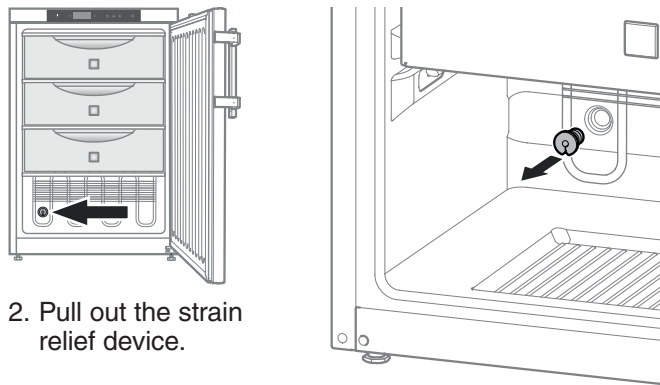




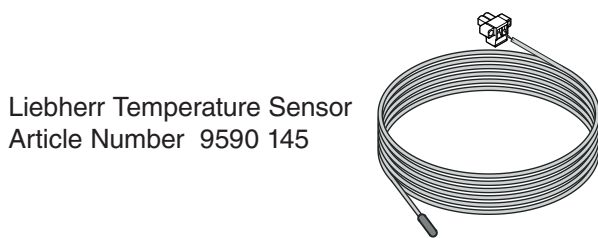
## Opening for external temperature sensor



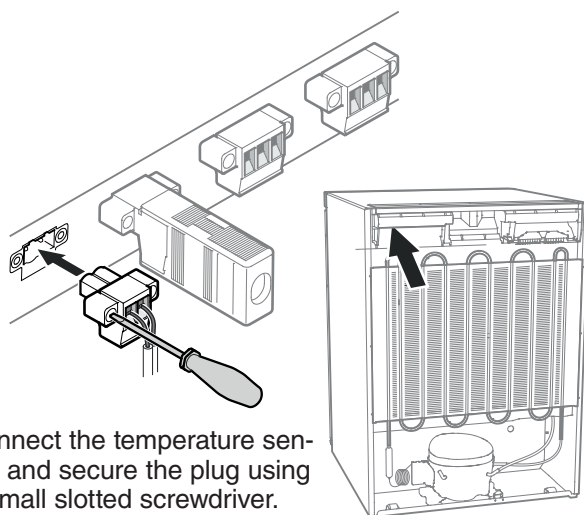
1. Drill the marked section on the back of the appliance.



2. Pull out the strain relief device.

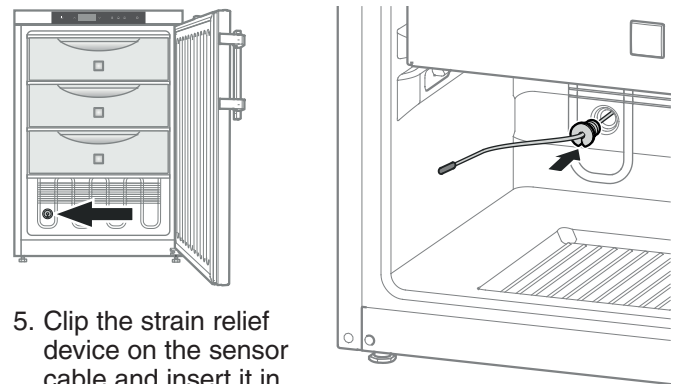
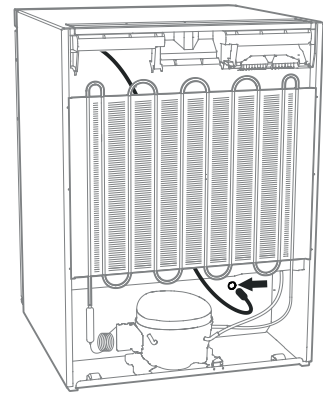


Liebherr Temperature Sensor  
Article Number 9590 145



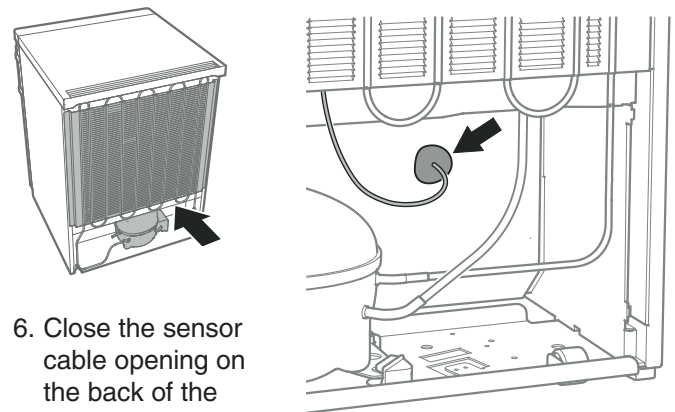
3. Connect the temperature sensor and secure the plug using a small slotted screwdriver.

4. Lay the sensor cable behind the condenser and insert it in the pre-drilled opening.



5. Clip the strain relief device on the sensor cable and insert it in the opening.

Position the temperature sensor as desired.



6. Close the sensor cable opening on the back of the appliance with the sealant provided.

# CHANGING OVER DOOR HINGES

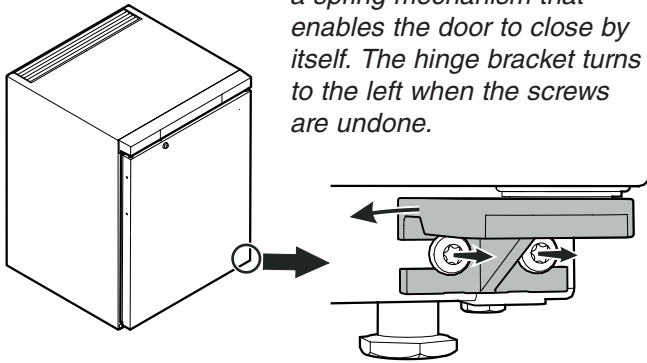
## Changing Over Door Hinges

Door hinges should only be changed by a trained expert.

Changing over the door hinges requires two people.

### IMPORTANT

The door mounting has a spring mechanism that enables the door to close by itself. The hinge bracket turns to the left when the screws are undone.

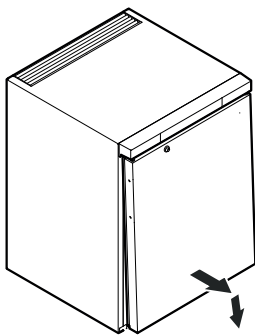


### IMPORTANT

The door must now be held secure by another person.

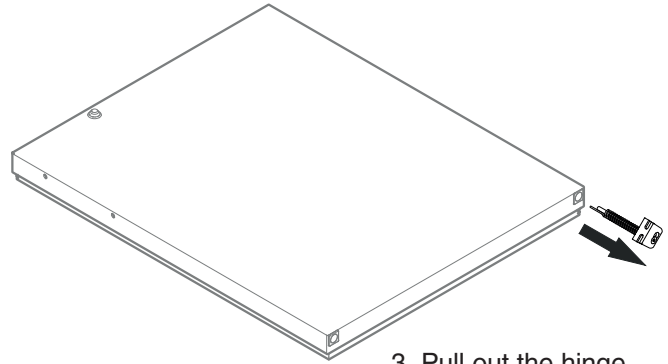
1. Hold the hinge bracket and remove the screws.

Turn the hinge bracket to the left and continue to hold it.

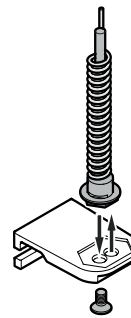


2. Move the bottom of the door forwards and remove it downwards.

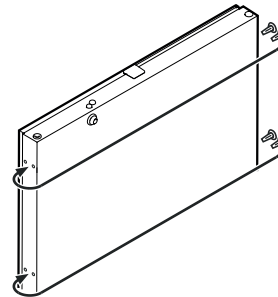
Carefully place the door on a soft surface.



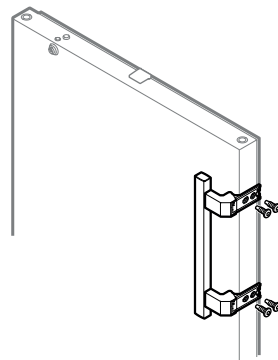
3. Pull out the hinge bracket.



4. Unscrew the hinge pin and insert into the left-hand opening.

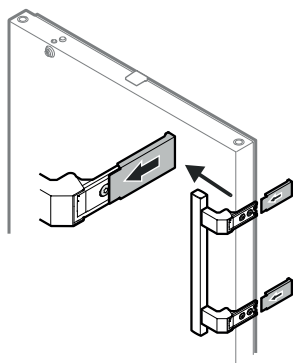


5. Transfer plugs to the opposite side.

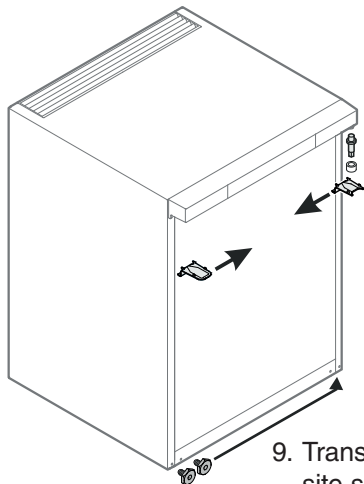


6. Screw on the handle. Handle, screws and key are supplied in the accessory pack.

# CHANGING OVER DOOR HINGES

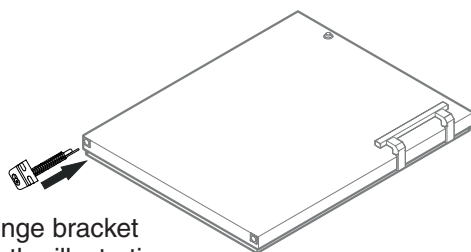


7. Push on pressure plates until they engage.

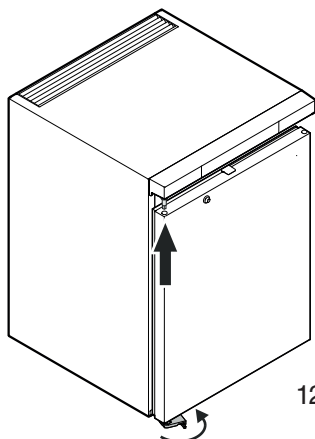


8. Transfer upper hinge components to the opposite side.

9. Transfer screws to the opposite side. Use a Torx 25 key or a 14 mm metric hexagon key.



10. Insert the hinge bracket as shown in the illustration and hold it.



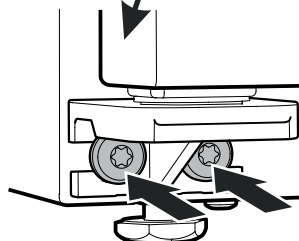
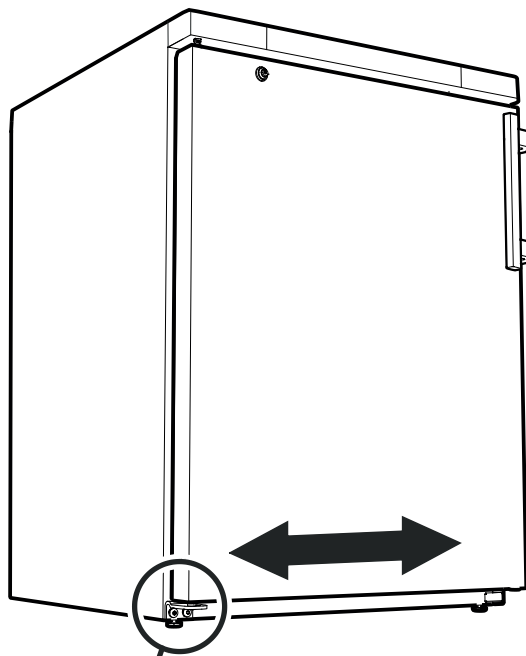
11. Mount door on hinge pin and close.

**IMPORTANT**  
*The door must now be held secure by another person.*

12. Turn the hinge bracket. This tensions the spring in the closing mechanism.

Screw on hinge bracket.

**Adjusting the lateral tilt of the door**  
If the door is at an angle, adjust the angle.



13. Undo screws and slide hinge bracket to the right or left. Tighten screws.

# WARRANTY

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## COMMERCIAL LABORATORY AND MEDICAL PRODUCTS

### FULL THREE YEAR WARRANTY

For three years from the date of original purchase, your Liebherr warranty covers all parts and labor to repair or replace any part of the product which proves to be defective in materials or workmanship under normal and proper use and maintenance as specified by Liebherr and upon proper installation and start-up in accordance with the Owner's Use and Care Guide supplied with each Liebherr unit.

### TERMS APPLICABLE TO EACH WARRANTY

This warranty will apply to products purchased and located in the United States and Canada. Products must be purchased in the country where service is requested. Any part covered under the above warranties that is determined by Liebherr to have been defective within the time frame is limited to the repair or replacement, including labor charges, of defective parts or assemblies. The labor warranty will include standard straight time labor charges only and reasonable travel time, as determined by Liebherr. This warranty is void for any misuse of the intended application of these products.

All service provided by Liebherr under the warranty must be performed by authorized Liebherr service representatives, unless otherwise specified by Liebherr. The warranty does not cover any parts or labor to correct any defect or damage caused by negligence, accident, fire, flood, acts of God, improper use, improper maintenance, improper delivery, improper installation, power interruptions, power surges, incorrect electric current, voltage or supply, use of extension cords, improper grounding, removal and reinstallation of the product if it is not installed in accordance with published installation instructions or in an inaccessible location, service cost or service call to instruct the user on the proper use of the product or repairs to parts or systems resulting from unauthorized modifications made to the product repairs when the product is used in a manner that is contrary to published user or operator instructions and/or installation instructions.

Liebherr is not responsible for economic loss, profit loss or direct, indirect or consequential damages, losses or other costs and expenses resulting from any spoilage of any items stored in a Liebherr refrigeration system including refrigerators, freezers, and wine coolers whether they be food, medicine, wine or otherwise. In no event will Liebherr have any liability or responsibility whatsoever for damage to surrounding property, including but not limited to cabinetry, floors, ceilings and other structures or objects around the product. You are solely responsible for any structure and setting for the product including but not limited to all electrical, plumbing or other connecting facilities, for proper foundation/flooring and for any alterations including without limitation cabinetry, walls, flooring and shelving. Warranties are void if the original serial numbers have been removed, altered or cannot be readily determined. Liebherr reserves the right to amend or alter this warranty and/or any warranty terms at Liebherr's discretion.

**THE REMEDIES DESCRIBED ABOVE FOR EACH WARRANTY ARE THE ONLY ONES WHICH LIEBHERR WILL PROVIDE, EITHER UNDER THESE WARRANTIES OR UNDER ANY WARRANTY ARISING BY OPERATION OF LAW. LIEBHERR WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM THE BREACH OF THESE WARRANTIES OR ANY OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY.**

Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state, or province to province.

For all other warranty inquiries or to receive parts and/or service and the name of the Liebherr authorized service representative nearest you, for the USA and Canada, contact the Liebherr designated national service provider at **service-commercial.us@liebherr.com** or call **1-844-LICOSVC (1-844-542-6782)** or contact your authorized Liebherr dealer or distributor.







## **For Service in the U.S. and Canada**

Toll Free: **1-844-LICOSVC** or **1-844-542-6782**

Email: **service-commercial.us@liebherr.com**



[www.liebherr-appliances.com](http://www.liebherr-appliances.com)