

# Operating instructions

**Refrigerator/freezer**

**MED-Series PRO-ACTIVE / ULTIMATE**



 **Kirsch**  
Member of the Hettich Group.

Read the instructions for use before starting any work.

# 1 Product description

## 1.1 Unit overview

Model MED (example) MED 520  
PRO-ACTIVE



- 1 Key switch
- 2 Display and control unit ↪ *Chapter 1.2 'Display and control elements' on page 8*
- 3 Door lock
- 4 Forced-air cooling
- 5 Support rails
- 6 Door handle
- 7 Roller runners + cabinet rails
- 8 Rollers
- 9 Drawer

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## 1.2 Display and control elements

### 1.2.1 Layout of the display and control unit

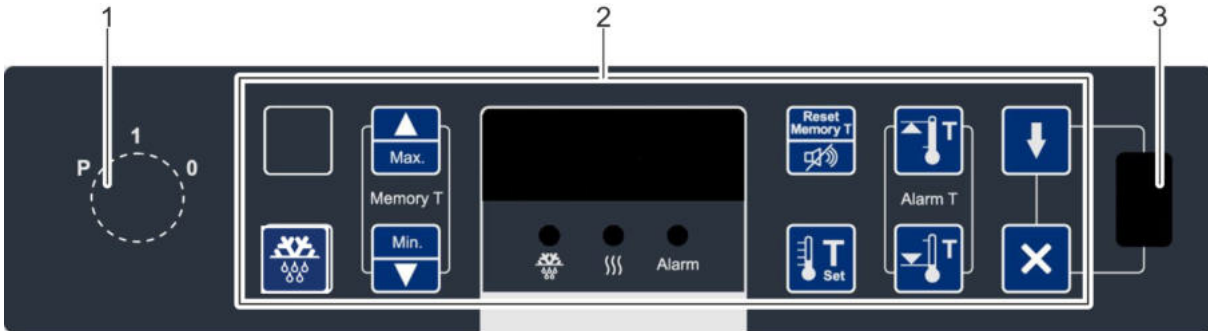


Fig. 1: Display and control unit

- 1 Key switch
- 2 Display and control unit (variable key assignment)
- 3 USB port

### 1.2.2 Function of the key switch

Tab. 1: Position of the key switch

Key position	Position	Function	Description
	"0"	Switch off unit.	<ul style="list-style-type: none"> <li>■ Switch off unit (for example to perform a restart).</li> <li>■ The Display shows <b>OFF</b>.</li> <li>■ To put the unit in a currentless state, unplug the power plug.</li> </ul>
	"1"	Switch on unit.	<ul style="list-style-type: none"> <li>■ Operate unit.</li> <li>■ Display and reset unit values (for example actual temperature or temperature limits).</li> <li>■ Confirm alarms.</li> </ul>
	"P"	Program unit.	<ul style="list-style-type: none"> <li>■ Adjust unit (for example target values or temperature warning limits).</li> <li>■ Display parameter lists.</li> <li>■ Confirm alarms.</li> </ul>



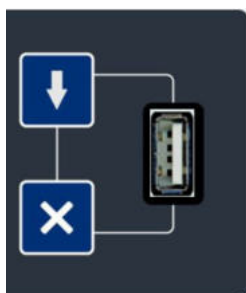
Always operate unit in key position "1" in order to prevent manipulation. During normal operation, remove key and store it safely.

### 1.2.3 Function of the buttons and indications

For the functions of buttons and displays, see the following overview:

The temperature memory can be retrieved and erased manually  
 ↪ *Chapter 7.3 'Retrieving/erasing the temperature memory' on page 46.*

### 1.5.6 Temperature monitoring with PC-KIT-STICK



The temperature memory of the unit documents the maximum and minimum temperature values.

PC-KIT-STICK is the easiest method of automatic temperature documentation.

The internal memory is a circular buffer. Before the oldest data are overwritten, the data are kept stored for 90 days. Therefore, we recommend to regularly read out the data, for example, weekly or monthly, in order to avoid gaps in recording.




The data transfer is performed via a USB flash drive. Even while the data are read out, the temperatures is constantly documented. An unlimited number of units can be incorporated ↪ *'Ports' on page 11.*

For constant temperature monitoring, the unit can be equipped with temperature documentation via the network ↪ *Chapter 1.6.1 'Temperature documentation' on page 16.*

### 1.5.7 Temperature sensor

The unit is equipped with multiple temperature sensors.

For the functions of the respective temperature sensors, see the following table:

Colour	Description	Function
	Evaporator sensor (red)	Controls the defrosting phase
	Control sensor (brown)	Controls the monitoring unit
	Control sensor (violet)	Controls the monitoring unit

### S18 1.5.8 Battery

#### Battery function

The battery powers the temperature monitor for up to 30 hours in the event of a power failure.

## 10 Alarms

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### 10.1 Alarm functions

#### Alarm functions

An alarm is triggered if a device function is faulty or defective.

**Every alarm is signalled both visually and audibly.**

The display alternately shows the visual alarm and the temperature. The message is displayed until the alarm is acknowledged. Acknowledging the alarm does not eliminate the fault.

The audible alarm is emitted as an alarm tone (hereinafter referred to as "buzzer").

**The device has the following alarm functions:**

- Temperature alarm
- Door Open alarm
- Power failure warning
- Alarm indicating a defective display and control unit

Depending on what has caused the triggered alarm, the following measures are required:

- 1 - Deactivating the buzzer ↪ *'Deactivating the buzzer' on page 66*
- 2 - Acknowledging the alarm ↪ *'Acknowledging the alarm' on page 67*
- 3 - Informing Service ↪ *'Service contact' on page 4*

Tab. 10: Alarm functions (overview)

Alarm function	Display	Buzzer	Cause	Measures
Temperature alarm		✓	<ul style="list-style-type: none"> <li>■ The temperature warning limit was exceeded.</li> <li>■ The remote warning contact has triggered.</li> </ul>	<ul style="list-style-type: none"> <li>■ Deactivate the buzzer.</li> <li>■ Determine and eliminate the cause.</li> </ul>
		✓	<ul style="list-style-type: none"> <li>■ The temperature has fallen below the temperature warning limit.</li> <li>■ The remote warning contact has triggered.</li> </ul>	
Door Open warning		✓	<ul style="list-style-type: none"> <li>■ The door has been open for more than 60 seconds.</li> <li>■ The Door Open warning is not forwarded via the remote warning contact.</li> </ul>	<ul style="list-style-type: none"> <li>■ Deactivate the buzzer.</li> <li>■ Close the door.</li> </ul>

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Alarm function	Display	Buzzer	Cause	Measures
Door Open alarm		✓	<ul style="list-style-type: none"> <li>The door has been open for more than 180 seconds.</li> <li>The Door Open alarm is forwarded via the remote warning contact.</li> </ul>	<ul style="list-style-type: none"> <li>Deactivate the buzzer.</li> <li>Close the door.</li> </ul>
Power failure warning		✓	<ul style="list-style-type: none"> <li>The power supply to the device has failed.</li> <li>The remote warning contact has triggered.</li> </ul>	<ul style="list-style-type: none"> <li>Deactivate the buzzer.</li> <li>Determine and eliminate the cause of the power failure.</li> <li>The monitoring unit remains operational for approx. 30 hours.</li> <li>Acknowledge the alarm.</li> </ul>
Faulty battery alarm		✓	<ul style="list-style-type: none"> <li>The power supply for temperature documentation has failed.</li> <li>The alarm function has failed.</li> </ul>	<ul style="list-style-type: none"> <li>Switch off the alarm. The audible alarm is silenced for 48 hours after being acknowledged.</li> <li>Order a new battery, art. no. 202067</li> <li>Replace the battery ↪ <i>Chapter 9.2 'Replacing the battery' on page 62.</i></li> </ul>
Alarm indicating a defective display and control unit	PRO-ACTIVE  ULTIMATE The display remains dark	✓	<ul style="list-style-type: none"> <li>The display and control unit is defective.</li> </ul>	<ul style="list-style-type: none"> <li>Pull out the mains plug.</li> <li>Inform Service ↪ <i>'Service contact' on page 4.</i></li> </ul>

## 10.2 Dealing with alarms

### Deactivating the buzzer

The buzzer sounds.



- Press the *[Reset]* button.
  - ⇒ The buzzer is deactivated.
- Determine and eliminate the cause of the alarm.

Otherwise, the buzzer will sound again after every 30 minutes.

## 13.2 Technical data

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	FR MED 95 PRO-ACTIVE	MED 100 PRO-ACTIVE	MED 126 PRO-ACTIVE	MED 200 PRO-ACTIVE	MED 288 PRO-ACTIVE/ ULTIMATE*
Cooling capacity, litres	95	95	120	170	280
Temperature setting (approx.), °C	-5 to -25	+2 to +15	+2 to +15	+2 to +15	+2 to +15
Voltage, V	220 – 240	220 – 240	220 – 240	220 – 240	220 – 240
Frequency, Hz	50	50/60	50/60	50/60	50/60
Refrigerant quantity, grams	42	43	32	37	27
Refrigerant	R600a	R600a	R600a	R600a	R600a
Current consumption, amps	0.54	0.48	0.50	0.48	0.63
Power consumption, watts	123	30	105	30	38.7
Normal consumption, kWh/24	1.33	0.43	0.58	0.53	0.59
Perm. ambient temperature, °C	+10 to +32	+10 to +38	+10 to +38	+10 to +38	+10 to +38
Specification of the temperature rise inside the device in the event of a power failure in minutes at an ambient temperature of 25 °C	106	95	71	145	99
Temperature homogeneity at a reference ambient temperature of 25 °C, K	**	1.78	**	1.33	1.58
Temperature stability at reference ambient temperature of 25 °C, K	**	0.33	**	0.37	0.72
External dimensions incl. distance to wall (WxDxH), cm	54 x 54 x 82	54 x 54 x 82	54 x 53.5 x 89	54 x 54.5 x 122	67 x 72 x 132
Usable size (WxDxH), cm	43 x 36 x 34	40.8 x 32 x 34	40.8 x 32 x 59 (Usable depth 15 cm less at the bottom)	38 x 34 x 72	50.4 x 32 x 92 (Usable depth 15 cm less at the bottom)