



## Research and laboratory appliances – for maximum precision and safety

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Hardly any sector has more stringent requirements for refrigerators and freezers than those of laboratories and research. Liebherr meets them with a specifically developed range and a new generation of appliances.

Sensitive substances are reliably stored at precise temperatures and additionally protected by integrated alarm systems. Maximum efficiency ensures low consumption, while durable materials and maintenance-free components guarantee minimal operating costs. The comprehensive range is user-friendly and easy to connect in a network – such as Liebherr SmartMonitoring.

Discover typical Liebherr quality that will pay off for years and lighten your daily workload.

# The advantages at a glance

## Integrated data memory

The minimum and maximum values can be stored for up to 41 days, and the last three power failures and temperature alarms can be recorded and retrieved.

## Emergency battery

If there is a power failure, the electronics are immediately powered by an integrated 12 V battery. This means the integrated memory can carry on logging the interior temperatures without interruption for another 72 hours.



## External temperature sensor

The laboratory appliances have a feedthrough (7.0 mm diameter) in the ceiling of the appliance for fitting a temperature sensor in the interior.

## Stainless steel workmanship

The smooth interior made of chrome-nickel steel is easy to clean and ensures optimal hygiene.

## Space-saving

To save space and increase the interior capacity, functional components such as fans and evaporators are located outside the refrigerator compartment.

The LKPv 1420, LKPv 1423 and LGPv 1420 models can be taken apart and reassembled for easier transport. This must always be done by a trained technician. Contact Liebherr Sales for more information.

## Pressure compensation valve

When the door of a refrigerator or freezer is opened and closed, the exchange of air creates a vacuum that makes it difficult to open the door again immediately afterwards. The pressure compensation valve quickly equalises the vacuum so that the door can be easily opened again.

## SmartMonitoring

The cloud-based digital solution continuously monitors and documents temperatures and alerts you immediately via email, text message or phone if any deviations occur.

## Integrated alarm systems

If the door is open for longer than one minute, a visual and audible alarm is generated. The temperature and power failure alarm indicates that the temperature is too high or too low, and also warns in the event of power failures.

## Dynamic cooling system

The dynamic cooling system with double ventilation combined with optimal airflow ensures maximum temperature stability in the interior.



## 90° door arrester

For convenient use, the practical door remains open at 90° and is self-closing at less than 60°.

## Castors

The LKPv and LGPv ranges come with castors as standard to allow versatile use according to the available space, as well as easy cleaning, even under the appliances.



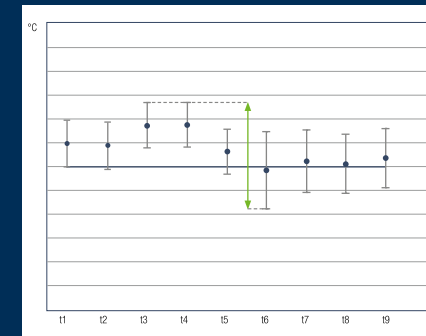
LKPv 6520 MediLine



### Split-door appliances

Quick access, minimal loss of cold air, longer-lasting product quality. Split-door appliances are ideal for use in the pharmaceutical industry or laboratories when the door has to be frequently opened. Frequently used samples and preparations can be kept in the upper section for quick access, while there is plenty of room below for items and raw materials that are required less often. Thanks to the split doors with their self-closing mechanism, only a little cold air escapes on opening, and this helps maintain a stable temperature and preserve the quality of the stored items for the long term.

## Quality right down to the smallest detail

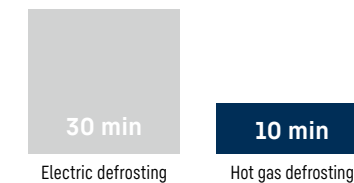


### Maximum temperature stability

The dynamic cooling system with double ventilation ensures maximum temperature stability in the interior. Very short defrost cycles allow the interior temperature to be kept almost constant during the defrost phases. All the laboratory appliances are designed for temperature stability and consistency according to EN 60068-3.

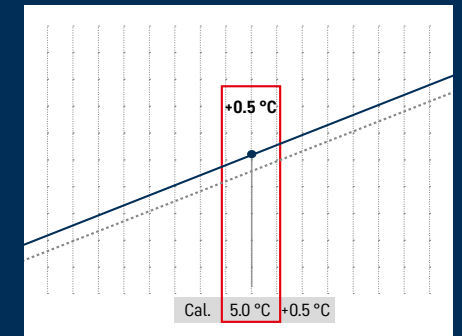
### Advantage of hot gas defrosting

Reduces the time when the temperature is increased



### Energy-efficient hot gas defrosting

Timed and on-demand hot gas defrosting allows very short defrosting times. To additionally improve temperature stability during defrosting, the internal temperature is slightly lowered shortly beforehand to create a reserve of cold air.



### Accurate 1-point calibration

The laboratory appliances with electronic controls have a 1-point calibration function for extremely accurate temperature control. This allows compensation between the set temperature and the actual interior temperature. The correction value can be adjusted in increments of 0.1 K.



### Integrated electronics

The intuitive controller with integrated real-time clock allows the temperature to be set to 1/10°C accuracy. The keypad is resistant to dirt and easy to clean – to meet the most stringent hygiene requirements of the laboratory.



### Easily accessible refrigeration components

The refrigeration components are easily accessible, located in the upper part of the machinery compartment to significantly increase the capacity of the interior. The front can be easily lifted up to facilitate cleaning or servicing. When opened by more than 45° it can be completely detached.



### External temperature and alarm documentation

The laboratory appliances are equipped with an RS 485 serial interface – which means that up to 20 appliances can be connected via the SmartCoolingHub to a network and the SmartMonitoring system, or used with an external documentation and alarm system. The appliances also have a volt-free contact to relay alarms to an external remote warning system.





LKPx 1423  
MediLine



LKPx 1420  
MediLine



Gross / net capacity	1397 / 980 litre
Exterior dimensions in mm (w / d / h)	1430 / 830 / 2160
Interior dimensions in mm (w / d / h)	1236 / 650 / 1500
Energy consumption in 365 days <sup>1</sup>	820 kWh
Ambient temperature range	+10 °C to +40 °C
Heat output	515 kJ/h
Refrigerant	R 290
Sound power level	58 dB(A)
Voltage / Connection rating	220 – 240V~ / 4.0 A
Cooling system	forced-air
Defrost	automatic
Temperature range	0 °C to +16 °C
Gradient <sup>2</sup> / max. fluctuation <sup>3</sup>	3.8 °C / 3.9 °C
External cabinet finish	steel / white
Door material	glass door
Internal liner material	304-grade stainless steel
Type of control	LED 7-segment display with buttons
Power failure alarm	immediately upon power failure for 72 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
Connectivity type	SmartCoolingHub
Connectivity solution	Retrofittable
Interface	RS485
Interior light	LED ceiling light strip with separate switch
Adjustable shelves	8
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	1236 / 640
Shelf loading	60 kg
Castors	castors with brake at the front, castors at the rear
Handle	full-length integrated handle
Access ports	1 x Ø 7 mm
Type of lock	mechanical
Door hinges	left hand / right hand
Gross / net weight	267 / 224 kg

1366 / 980 litre
1430 / 830 / 2160
1236 / 650 / 1550
714 kWh
+10 °C to +40 °C
471 kJ/h
R 290
58 dB(A)
220 – 240V~ / 4.0 A
forced-air
automatic
-2 °C to +16 °C
3.6 °C / 2.9 °C
steel / white
steel
304-grade stainless steel
LED 7-segment display with buttons
immediately upon power failure for 72 hrs
visual and audible
yes
SmartCoolingHub
Retrofittable
RS485
8
wire shelves plastic-coated
1236 / 640
60 kg
castors with brake at the front, castors at the rear
full-length integrated handle
1 x Ø 7 mm
mechanical
left hand / right hand
249 / 206 kg

Accessories	
Shelf, plastic-coated	7112393
U-shaped trayslide, right	9001761
U-shaped trayslide, left	9001757
Foot pedal opener	9590639
SmartCoolingHub	6125784
Product temperature sensor	9590407
Side-by-Side set	9901947

7112393
9001761
9001757
9590639
6125784
9590407
9901947



LKPx 8420  
MediLine



LKPx 6523  
MediLine



LKPx 6520  
MediLine



LKPx 6527  
MediLine



855 / 629 litre
790 / 980 / 2160
620 / 850 / 1550
603 kWh
+10 °C to +40 °C
430 kJ/h
R 290
58 dB(A)
220 – 240V~ / 4.0 A
forced-air
automatic
-2 °C to +16 °C
2.1 °C / 1.8 °C
steel / white
steel
304-grade stainless steel
LED 7-segment display with buttons
immediately upon power failure for 72 hrs
visual and audible
yes
SmartCoolingHub
Retrofittable
RS485
4
wire shelves plastic-coated
620 / 800
60 kg
castors with brake at the front, fixed castors at the rear
full-length integrated handle
1 x Ø 7 mm
mechanical
right, reversible on site
175 / 145 kg

7113643
9005089
9005077
9590659
6125784
9590407
9901947

617 / 430 litre
700 / 830 / 2160
533 / 650 / 1500
571 kWh
+10 °C to +40 °C
345 kJ/h
R 290
58 dB(A)
220 – 240V~ / 4.0 A
forced-air
automatic
0 °C to +16 °C
2.0 °C / 1.6 °C
steel / white
glass door
304-grade stainless steel
LED 7-segment display with buttons
immediately upon power failure for 72 hrs
visual and audible
yes
SmartCoolingHub
Retrofittable
RS485
LED ceiling light strip with separate switch
4
wire shelves plastic-coated
533 / 650
60 kg
castors with brake at the front, fixed castors at the rear
full-length integrated handle
1 x Ø 7 mm
mechanical
right, reversible on site
164 / 138 kg

7112393
9001761
9001757
9590659
6125784
9590407
9901947

602 / 430 litre
700 / 830 / 2160
533 / 650 / 1550
497 kWh
+10 °C to +40 °C
300 kJ/h
R 290
58 dB(A)
220 – 240V~ / 4.0 A
forced-air
automatic
-2 °C to +16 °C
1.8 °C / 1.0 °C
steel / white
steel
304-grade stainless steel
LED 7-segment display with buttons
immediately upon power failure for 72 hrs
visual and audible
yes
SmartCoolingHub
Retrofittable
RS485
4
wire shelves plastic-coated
533 / 650
60 kg
castors with brake at the front, fixed castors at the rear
full-length integrated handle
1 x Ø 7 mm
mechanical
right, reversible on site
154 / 128 kg

7112393
9001761
9001757
9590659
6125784
9590407
9901947

598 / 429 litre
700 / 830 / 2160
533 / 650 / 1550
688 kWh
+10 °C to +40 °C
345 kJ/h
R 290
58 dB(A)
220 – 240V~ / 4.0 A
forced-air
automatic
-2 °C to +16 °C
1.8 °C / 1.0 °C
steel / white
steel
304-grade stainless steel
LED 7-segment display with buttons
immediately upon power failure for 72 hrs
visual and audible
yes
SmartCoolingHub
Retrofittable
RS485
4
wire shelves plastic-coated
533 / 650
60 kg
castors with brake at the front, fixed castors at the rear
full-length integrated handle
1 x Ø 7 mm
mechanical
right, reversible on site
155 / 130 kg

7112393
9001761
9001757
9590659
6125784
9590407

<sup>1</sup> Measured at +25°C ambient temperature and +5°C set temperature for fridges and -20°C for freezers.

<sup>2</sup> Gradient as defined in EN 60068-3: the difference between the warmest and coldest average measurements, increased by their expanded uncertainty, throughout the duration.  
<sup>3</sup> Max. fluctuation as per EN 60068-3: greatest fluctuation value determined throughout the duration of measurements.



LGPv 1420  
MediLine



Gross / net capacity	1366 / 980 litre
Exterior dimensions in mm (w / d / h)	1430 / 830 / 2160
Interior dimensions in mm (w / d / h)	1236 / 650 / 1550
Energy consumption in 365 days <sup>1</sup>	2654 kWh
Ambient temperature range	+10 °C to +40 °C
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / Connection rating	220 - 240V~ / 4.0 A
Cooling system	forced-air
Defrost	automatic
Temperature range	-9 °C to -26 °C
Gradient <sup>3</sup> / max. fluctuation <sup>4</sup>	4.3 °C / 6.7 °C
External cabinet finish	steel / white
Door material	steel
Internal liner material	304-grade stainless steel
Type of control	LED 7-segment display with buttons
Power failure alarm	immediately upon power failure for 72 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
Connectivity type	SmartCoolingHub
Connectivity solution	Retrofittable
Interface	RS485
Adjustable shelves	8
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	1236 / 640
Shelf loading	60 kg
Castors	castors with brake at the front, castors at the rear
Handle	full-length integrated handle
Type of lock	mechanical
Door hinges	left hand / right hand
Gross / net weight	254 / 209 kg

Accessories	
Shelf, plastic-coated	7112393
U-shaped trayslide, right	9001761
U-shaped trayslide, left	9001757
Foot pedal opener	9590639
SmartCoolingHub	6125784
Product temperature sensor	9590407
Side-by-Side set	9901947



LGPv 8420  
MediLine



Gross / net capacity	855 / 629 litre
Exterior dimensions in mm (w / d / h)	790 / 980 / 2160
Interior dimensions in mm (w / d / h)	620 / 850 / 1550
Energy consumption in 365 days <sup>1</sup>	1739 kWh
Ambient temperature range	+10 °C to +40 °C
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / Connection rating	220 - 240V~ / 4.0 A
Cooling system	forced-air
Defrost	automatic
Temperature range	-9 °C to -35 °C <sup>2</sup>
Gradient <sup>3</sup> / max. fluctuation <sup>4</sup>	4.5 °C / 5.7 °C
External cabinet finish	steel / white
Door material	steel
Internal liner material	304-grade stainless steel
Type of control	LED 7-segment display with buttons
Power failure alarm	immediately upon power failure for 72 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
Connectivity type	SmartCoolingHub
Connectivity solution	Retrofittable
Interface	RS485
Adjustable shelves	4
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	620 / 800
Shelf loading	60 kg
Castors	castors with brake at the front, fixed castors at the rear
Handle	full-length integrated handle
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	182 / 150 kg

Accessories	
Shelf, plastic-coated	7113643
U-shaped trayslide, right	9005089
U-shaped trayslide, left	9005077
Foot pedal opener	9590659
SmartCoolingHub	6125784
Product temperature sensor	9590407
Side-by-Side set	9901947



LGPv 6520  
MediLine



Gross / net capacity	602 / 430 litre
Exterior dimensions in mm (w / d / h)	700 / 830 / 2160
Interior dimensions in mm (w / d / h)	533 / 650 / 1550
Energy consumption in 365 days <sup>1</sup>	1367 kWh
Ambient temperature range	+10 °C to +40 °C
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / Connection rating	220 - 240V~ / 4.0 A
Cooling system	forced-air
Defrost	automatic
Temperature range	-9 °C to -35 °C <sup>2</sup>
Gradient <sup>3</sup> / max. fluctuation <sup>4</sup>	2.9 °C / 3.6 °C
External cabinet finish	steel / white
Door material	steel
Internal liner material	304-grade stainless steel
Type of control	LED 7-segment display with buttons
Power failure alarm	immediately upon power failure for 72 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
Connectivity type	SmartCoolingHub
Connectivity solution	Retrofittable
Interface	RS485
Adjustable shelves	4
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	533 / 650
Shelf loading	60 kg
Castors	castors with brake at the front, fixed castors at the rear
Handle	full-length integrated handle
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	162 / 136 kg

Accessories	
Shelf, plastic-coated	7112393
U-shaped trayslide, right	9001761
U-shaped trayslide, left	9001757
Foot pedal opener	9590659
SmartCoolingHub	6125784
Product temperature sensor	9590407
Side-by-Side set	9901947



LGPv 6527  
MediLine



Gross / net capacity	598 / 429 litre
Exterior dimensions in mm (w / d / h)	700 / 830 / 2160
Interior dimensions in mm (w / d / h)	533 / 650 / 1550
Energy consumption in 365 days <sup>1</sup>	2019 kWh
Ambient temperature range	+10 °C to +40 °C
Refrigerant	R 290
Sound power level	60 dB(A)
Voltage / Connection rating	220 - 240V~ / 4.0 A
Cooling system	forced-air
Defrost	automatic
Temperature range	-9 °C to -35 °C <sup>2</sup>
Gradient <sup>3</sup> / max. fluctuation <sup>4</sup>	2.9 °C / 3.6 °C
External cabinet finish	steel / white
Door material	steel
Internal liner material	304-grade stainless steel
Type of control	LED 7-segment display with buttons
Power failure alarm	immediately upon power failure for 72 hrs
Fault: warning signal	visual and audible
Volt-free alarm contact	yes
Connectivity type	SmartCoolingHub
Connectivity solution	Retrofittable
Interface	RS485
Adjustable shelves	4
Shelf material	wire shelves plastic-coated
Usable shelf area in mm (w / d)	533 / 650
Shelf loading	60 kg
Castors	castors with brake at the front, fixed castors at the rear
Handle	full-length integrated handle
Type of lock	mechanical
Door hinges	right, reversible on site
Gross / net weight	160 / 134 kg

Accessories	
Shelf, plastic-coated	7112393
U-shaped trayslide, right	9001761
U-shaped trayslide, left	9001757
Foot pedal opener	9590659
SmartCoolingHub	6125784
Product temperature sensor	9590407
Side-by-Side set	

<sup>1</sup> Measured at +25°C ambient temperature and +5°C set temperature for fridges and -20°C for freezers.  
<sup>2</sup> The temperature range is valid at a maximum ambient temperature of +30°C

<sup>3</sup> Gradient as defined in EN 60068-3: the difference between the warmest and coldest average measurements, increased by their expanded uncertainty, throughout the duration.  
<sup>4</sup> Max. fluctuation as per EN 60068-3: greatest fluctuation value determined throughout the duration of measurements.