

# LIEBHERR

Quality, Design and Innovation



Laboratory Refrigerator and Freezer | Spark-free Refrigerator and Freezer | Pharmacy Refrigerator



**KHH** scientific 球興行

Tel: 3123 6000  
Fax: 2789 2068

Email: [sales@kouhing.com](mailto:sales@kouhing.com)  
Website: [www.kouhing.com](http://www.kouhing.com)

# Laboratory Heavy-Duty Refrigerator and Freezer



Model	LKPv 1420 (refrigerator) LGPv 1420 (freezer)	LKPv 8420 (refrigerator) LGPv 8420 (freezer)	LKPv 6520 (refrigerator) LGPv 6520 (freezer)
Gross Capacity (L)	1361	856	597
Exterior Dimensions WxDxH (mm)	1430x830x2150	790x980x2150	700x830x2150
Temperature Range	0 to +16°C (refrigerator) -9 to -26°C (freezer)	-2 to +16°C (refrigerator) -9 to -35°C (freezer)	-2 to +16°C (refrigerator) -9 to -35°C (freezer)
Defrost mode	Auto Defrost	Auto Defrost	Auto Defrost
Cooling System	Forced-air	Forced-air	Forced-air
Door	Solid Steel *	Solid Steel	Solid Steel *
Shelves	8	4	4
Shelf Loading (kg)	60	60	60
Sound power level	58 dB(A) (refrigerator) 60 dB(A) (freezer)	58 dB(A) (refrigerator) 60 dB(A) (freezer)	58 dB(A) (refrigerator) 60 dB(A) (freezer)
Alarm	<ul style="list-style-type: none"> <li>Power Failure Alarm (72-hour without power supply)</li> <li>Open Door Alarm</li> <li>Temperature Deviation Alarm</li> </ul>		

\* Glass door models are available for LKPv 1420 and LKPv 6520



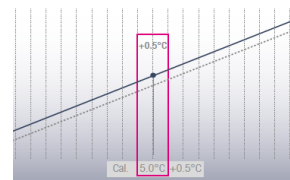
The practical door remains open at 90° and is **self-closing** at less than 60° for convenient use.

These appliances have an **access port** (7mm in dia.) in the ceiling area for independent temperature sensor.



The LKPv and LGPv ranges come with **castors as standard**.

The digital controller includes an accurate **1-point calibration** function in steps of 0.1K.



Visual and audible door **alarms** alert the user if the **door is open** for longer than 1 minute.

**Volt-free contact** and **RS485 interface** are equipped for alarm forwarding to external remote warning system.





Model	LCexv 4010	LKexv 3910	LGex 3410	LKUexv 1610 (refrigerator) LGUex 1500 (freezer)
Gross Capacity (L)	254 / 107 (refrigerator/freezer)	360	310	141 (refrigerator) 139 (freezer)
Exterior Dimensions WxDxH (mm)	597x615x2003	597x615x1840	597x615x1840	597x615x825
Temperature Range	+3 to +16°C (refrigerator) -9 to -30°C (freezer)	+3 to +16°C	-9 to -30°C	+3 to +16°C (refrigerator) -9 to -26°C (freezer)
Defrost mode	Auto (refrigerator) Manual (freezer)	Auto Defrost	Manual	Auto (refrigerator) Manual (freezer)
Cooling System	Forced-air (refrigerator) Static (freezer)	Forced-air	Static	Forced-air (refrigerator) Static (freezer)
Door	Solid Steel	Solid Steel	Solid Steel	Solid Steel
Shelves / Drawers	4 / 3	5	8	3 shelves (refrigerator) 3 drawers + 1 basket (freezer)
Shelf Loading (kg)	45/24	40	24	24
Sound power level	52 dB(A)	48 dB(A)	45 dB(A)	47 dB(A) (refrigerator) 45 dB(A) (freezer)
Alarm	<ul style="list-style-type: none"> <li>Power Failure Alarm when mains power return</li> <li>Open Door Alarm</li> <li>Temperature Deviation Alarm</li> </ul>			



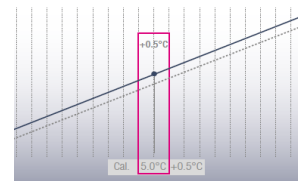
**Spark-free** interior is tested according to the 2014/34/EU (ATEX) Directive.

**Reversible door** hinges enable individual adaption to space conditions.



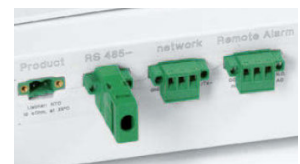
The **integrated lock** is sturdy and protects samples against unauthorised access.

The digital controller includes an accurate **1-point calibration** function in steps of 0.1K.



**Access port** for integration of an independent temperature sensors.

**Volt-free contact** is equipped for alarm forwarding to external remote warning system.



Compliant with  
DIN 58345Compliant with  
DIN 58345

Model	MKUv1610	MKv3910
Gross Capacity (L)	141	360
Exterior Dimensions WxDxH (mm)	597x615x825	600x615x1840
Temperature Range	+5°C (fixed)	+5°C (fixed)
Defrost mode	Automatic	Automatic
Cooling System	Forced-air	Forced-air
Door	Solid Steel	Solid Steel
Adjustable Shelves	3	5
Shelf Loading (kg)	45	45
Sound power level	47 dB(A)	48 dB(A)
Alarm	<ul style="list-style-type: none"> <li>· Immediately upon power failure for at least 12 hours by 12V back-up battery</li> <li>· Open Door Alarm</li> <li>· Temperature Deviation Alarm</li> </ul>	



The precise **electronic controller** with digital display enables temperatures to be shown accurately to 1/10°C

**Reversible door hinges** enable individual adaption to space conditions.



The **integrated lock** is sturdy and protects samples against unauthorised access.

Temperature is set at factory to +5°C. Additional **safety thermostat** prevents temperatures from dropping below +2°C in case of a malfunction



**Visual and audible alarms** alert the user if the internal temperature deviates beyond +2°C and +8°C

In case of power failure, the electronic controller is immediately supplied by an **integrated 12 V battery** and indicates the failure optically and audibly for at least 12 hours



## What is DIN 58345 ?

This guarantees that the appliances are particularly suitable for medicine storage with following basic requirements:

- Maintenance of an operating temperature from +2°C to +8°C
- Can be used in ambient temperatures from +10°C to +35°C
- Noise emission less than 60 dB(A)
- Visual and audible warning installation for high and low temperature alarms
- Preparation of operating temperature recording
- Visual and audible power failure alarm for at least 12h
- Safety thermostat to avoid temperatures below +2°C
- Mechanical resistance of internal fittings at least 100kg/m<sup>2</sup>
- Lockable door