Heavy-duty laboratory refrigerators











Total gross/net capacity
Energy consumption in 24 h*
Exterior dim. (w/d/h) in mm
Cooling system
Temperature range
External finish
Door

LKPv 1420	LKPv 1422	LKPv 6520	LKPv 6522
Laboratory refrigerator	Laboratory refrigerator	Laboratory refrigerator	Laboratory refrigerator

1427/1427 1	1427/1427 1	601/601 1	601/601 1
3.4 kWh	4.1 kWh	2.4 kWh	2.8 kWh
1430/830/2150	1430/830/2150	700/830/2150	700/830/2150
forced-air	forced-air	forced-air	forced-air
-2°C to +16°C	0°C to +16°C	-2°C to +16°C	0°C to +16°C
white	white	white	white
solid	glass	solid	glass

^{*} Laboratory test procedure according to NF X15-140

Heavy-duty laboratory freezers







Total gross/net capacity
Energy consumption in 24 h*
Exterior dim. (w/d/h) in mm
Cooling system
Temperature range
External finish
Door

LGPv 1420	LGPv 6520
Laboratory freezer	Laboratory freezer

1427/1427 1	601/601 1
9.4 kWh	4.9 kWh
1430/830/2150	700/830/2150
forced-air	forced-air
-26°C to -10°C	-35°C to -10°C
white	white
solid	solid

^{*} Laboratory test procedure according to NF X15-140

Laboratory appliances with spark-free interior













Total gross/net capacity
Energy consumption in 24 h*
Exterior dim. (w/d/h) in mm
Cooling system
Temperature range
External finish
Door

LKEXv 1800 Laboratory refrigerator	FKEX 1800 Laboratory refrigerator	FKEX 2600 Laboratory refrigerator	FKEX 3600 Laboratory refrigerator	FKEX 5000 Laboratory refriger
180/157 1	180/1741	260/2461	360/3351	500/4331

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180/157 1	180/1741	260/2461	360/3351	500/433 1
1.2 kWh	0.8 kWh	0.8 kWh	1.1 kWh	0.8 kWh
600/600/860	600/600/886	600/600/1216	600/600/1590	752/710/1516
forced-air	static	static	static	static
+3°C to +8°C	+2°C to +16°C	+2°C to +16°C	+2°C to +16°C	+2°C to +16°C
white	white	white	white	white
solid	solid	solid	solid	solid

^{*} Laboratory test procedure according to NF X15-140



Laboratory refrigerators and freezers



LIFBHERR



Innovative expertise and drive in the laboratory sector

The demands made on refrigerators are particularly high in all the sectors of professional use. Whether the issue is the refrigeration performance, specifying the materials, designing the refrigeration components or evolving the design concepts – all the decisions are directed to ensuring the long-term, trouble-free operation of our appliances for the professional sector.

The most stringent reliability and safety standards apply to appliances in the laboratory and medical sector. Liebherr offers purpose-built laboratory appliances in three temperature ranges for the different areas of use.



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Inner liners in 304-grade stainless steel

The inner liners of these laboratory appliances are in corrosion-resistant 304-grade stainless steel. The heavy-duty wire shelves are guided on non-tilting U-shaped trayslides for a high shelf load and improved safety. The trayslides are height-adjustable in small increments and allow versatile use of the interior. The smooth inner liner is exceptionally easy to clean.



Hygiene is important in laboratories so the larger appliances have castors to allow easy and convenient cleaning underneath.

The ProfiPremium-Line digital controller

The sophisticated controller of the Profi Premium-Line laboratory appliances meets the most exacting requirements. It is equipped with a volt-free contact, an infrared interface and an RS 485 serial interface, and logs the temperature, date and alarm condition every two minutes. To satisfy laboratory hygiene requirements the electronic controller is recessed into the unit cover and is covered with a dirt-resistant, membrane keypad for easy cleaning. In case of power failure, a powerful 12V battery automatically cuts in. Alarm messages are thereby activated visually, audibly and also externally via a relay.

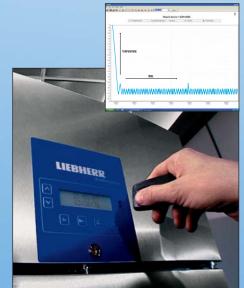


In case of power failure the appliances continue to monitor and save the unit data for up to 72 hours. Under normal operating conditions, temperatures and alarms from the previous 4 days of operation are logged. This data can be transferred to an external computer using either the optional infra-red key or via the RS 485 interface. Dedicated software is supplied to allow full analysis and visualisation of the logged temperatures.

Uniform temperatures

The forced-air systems have air-ducts optimised for uniform distribution and quick temperature recovery.





Refrigerators

Laboratory cooling, medicine storage

Equipment

- · Forced air cooling
- · Electronic controller with text display and real-time clock
- · 1 pre-defined cooling program
- · Castors, 2 with brake
- · Full-length integrated handle, hygienic and robust
- · Appliances with glass door (..22) including interior light with separate switch
- · Plastic-coated grid shelves and smooth 304grade stainless steel inner liner

Safety package

- · Data logging of the temperature every 2 minutes
- · Audible and visual door-open and hi-low temperature alarms
- · Back-up battery for 72-hour temperature monitoring/logging in case of mains failure
- · Infrared and RS 485 serial interface options for external temperature data logging
- · Volt-free contact for connection to a remote warning system
- · Lock



Freezers

Laboratory freezer

Safety in case of power failure

laboratory appliances is equipped with a powerful 12V battery. In case of power failure, the electronic control system switches to drawing power from the battery. Optical and acoustic alarms are activated. In addition the volt-free alarm contact is minutes.

The electronic control system of Liebherr activated which can be connected to an external warning system. The internal temperature continues to be registered for up to 72 hours. The electronic controller logs the temperature, date and alarm conditions of the laboratory appliances every two









Total gross/net capacity
Energy consumption in 24 h*
Exterior dim. (w/d/h) in mm
Cooling system
Defrosting method
Temperature range
Exterior finish
Door
Inner liner
Storage shelves

LKPv 1420	LKPv 1422	LKPv 6520	LKPv 6522
Laboratory refrigerator	Laboratory refrigerator	Laboratory refrigerator	Laboratory refrigerator
1427/1427 1	1427/1427 1	601/601 1	601/601 1
3.4 kWh	4.1 kWh	2.4 kWh	2.8 kWh
1430/830/2150	1430/830/2150	700/830/2150	700/830/2150
forced-air	forced-air	forced-air	forced-air
automatic	automatic	automatic	automatic
-2°C to +16°C	0° C to +16°C	-2°C to +16°C	0°C to +16°C
white	white	white	white
solid door	glass door	solid door	glass door
304-grade stainless steel	304-grade stainless steel	304-grade stainless steel	304-grade stainless steel
grid shelves, plastic-coated	grid shelves, plastic-coated	grid shelves, plastic-coated	grid shelves, plastic-coated

Laboratory freezer	Laboratory freezer
1427/1427 1	601/601 1
9.4 kWh	4.9 kWh
1430/830/2150	700/830/2150
forced-air	forced-air
automatic	automatic
-26°C to -10°C	-35°C to -10°C
white	white
solid door	solid door
304-grade stainless steel	304-grade stainless steel
grid shelves, plastic-coatedt	grid shelves, plastic-coated

^{*} Laboratory test procedure according to NF X15-140

with forced-air cooling

Laboratory cooling, medicine storage

Equipment

- · Forced-air cooling
- · Electronic controller with digital temperature display
- · Defrost water collection tray
- · Door handle
- · Height-adjustable glass shelves
- · Moulded commercial-grade polystyrol inner liner: robust and hygienic
- · Spark-free warning labels in accordance with the ATEX EU Directive

Safety package

- · Audio/visual hi-lo alarms
- · Safety thermostat to prevent product temperature dropping below the required storage parameters in case of a fault thus enhancing inventory protection
- · Serial interface (RS 485) for external temperature data logging
- Volt-free contact for remote alarm
 Min-max temperature recording
- · Alarm log saves 3 alarms with date, duration and max. temperature

with static cooling

Laboratory cooling, medicine storage

Equipment

- · Static cooling
- · Moulded commercial-grade polystyrol inner liner
- · Height-adjustable glass shelves
- · Defrost water collection tray
- · External thermostat
- · Spark-free warning labels in accordance with the ATEX EU Directive
- · Lock
- · Door handle



Spark-free interior

The interior of the appliances is spark-free in compliance with ATEX Directive 94/9/ EC zone II.





180/157 1			
1.2 kWh			
600/600/860			
forced-air			
+3°C to +8°C			
white			
solid door			
white moulded commercial-grade polystyrol			
glass			



FKEX 1800	FKEX 2600	FKEX 3600	FKEX 5000
Laboratory refrigerator	Laboratory refrigerator	Laboratory refrigerator	Laboratory refrigerator
180/1741	260/246 1	360/3351	500/433 1
0.8 kWh	0.8 kWh	1.1 kWh	0.8 kWh
600/600/886	600/600/1216	600/600/1590	752/710/1516
static	static	static	static
+2°C to +16°C	$+2^{\circ}$ C to $+16^{\circ}$ C	+2°C to +16°C	+2°C to +16°C
white	white	white	white
solid door	solid door	solid door	solid door
white moulded commercial-grade polystyrol			
glass	glass	glass	glass

^{*} Laboratory test procedure according to NF X15-140