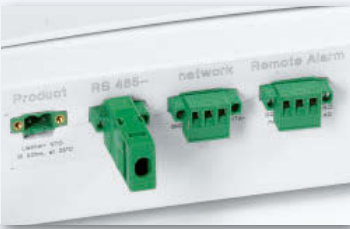
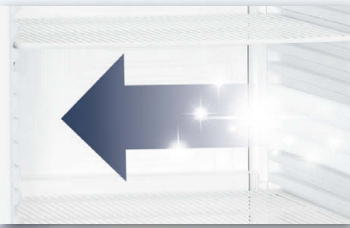


The advantages at a glance



Volt-free contact for forwarding alarms to an external remote warning system in laboratory appliances with a Comfort electronic controller.

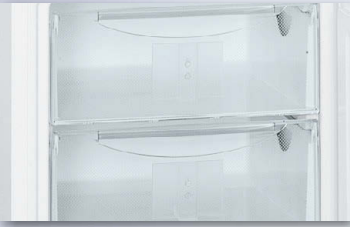


The commercial-grade moulded polystyrol inner liner is exceptionally easy to clean and enables optimum hygiene.



The sturdy, plastic-coated grid shelves have a loading capacity of up to 45 kg, are easily adjustable in height and can be removed at a door opening angle of 90°.

Access port for integration of the optionally available NTC temperature sensor or independent temperature sensor PT 100 or similar measuring instruments in laboratory appliances with a Comfort electronic controller.



The drawers in the LCv 4010 laboratory fridge-freezer can easily be removed by the handles recessed in the sides. The drawers have a transparent front providing a clear view of the products stored inside.



LKv 3913

The precision Comfort electronic controller with digital temperature display allows accurate temperature setting to 1/10 °C. An integrated data memory logs the last three temperature alarms and power failures, together with the time, date and duration of the alarm. The respective data can be recalled using the AlarmLog function and read on the display panel.



Laboratory refrigerators LKv 3913 and LKUv 1613 with a glass door feature an efficient LED interior light with a separate switch.



Laboratory appliances with a Comfort electronic controller provide 1-point calibration for accurate temperature control. This permits compensation between the set temperature and the actual internal temperature.

Self-closing doors prevent cold loss and contribute to the temperature stability of the appliances. The integrated lock is very sturdy and protects the samples and products against unauthorised access.



The dynamic cooling system in conjunction with the precision Comfort electronic controller ensures maximum temperature stability and high temperature consistency in the interior.

Quality right down to the smallest detail

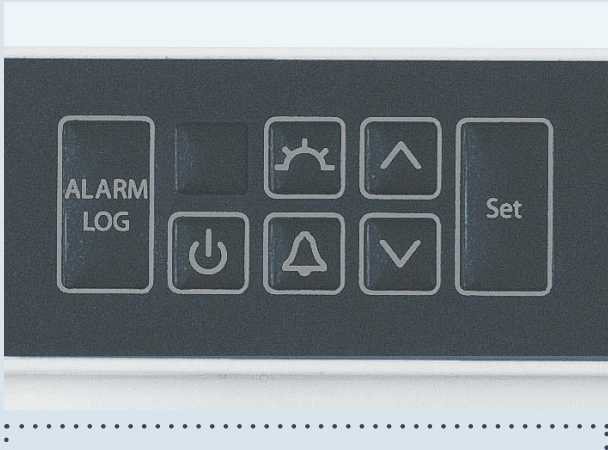
Liebherr Mediline laboratory refrigerators the ideal solution for a small footprint or for under-worktop integration. The range comprises two freestanding and under-worktop refrigerators with a glass door or a solid door. The precision Comfort electronic

controller enables temperatures to be set accurately. The dynamic cooling system ensures high temperature consistency. Integrated alarm systems guarantee safe storage.



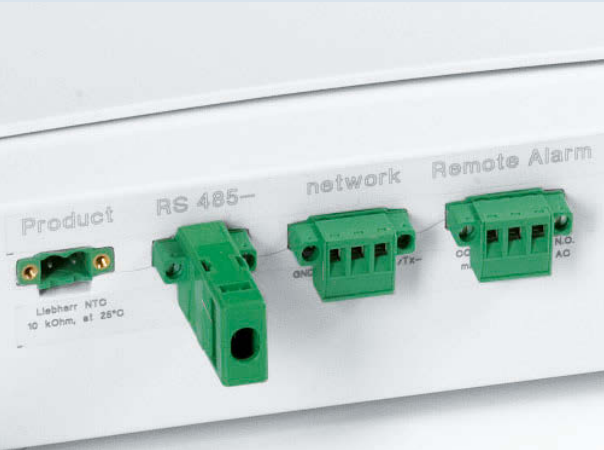
The Comfort electronic controller.

The precision Comfort electronic controller with digital temperature display enables temperatures to be set accurately. Symbols indicate the operating status of the appliance. The electronic controller is flush-mounted and equipped with a membrane keyboard for perfect hygiene.



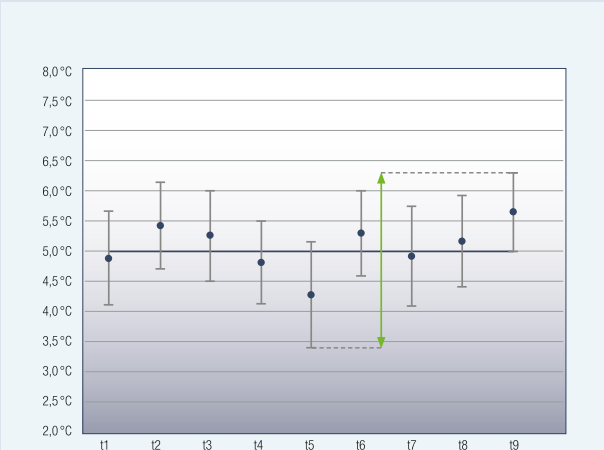
Integrated alarm systems.

Visual and audible alarm systems alert the user to undesired temperature deviations or when the door is open. All alarm parameters can be individually set. For example, the door-open alarm delay can be adjusted between 1 and 5 minutes. Additional safety is provided by a visual power failure alarm and sensor defect alarm.



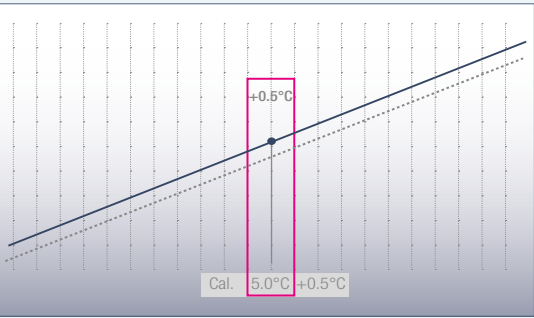
External temperature and alarm documentation.

The laboratory appliances are equipped with a volt-free contact for alarm forwarding to an external remote warning system, as well as with a serial interface RS 485 which enables central documentation of temperature profiles and alarm events. LTM documentation software is optionally available.



Maximum temperature consistency.

The dynamic cooling system in conjunction with the precision Comfort electronic controller ensures maximum temperature stability. All laboratory appliances with a Comfort electronic controller are designed according to the ISO 60068-3 standard with regard to optimum temperature consistency.



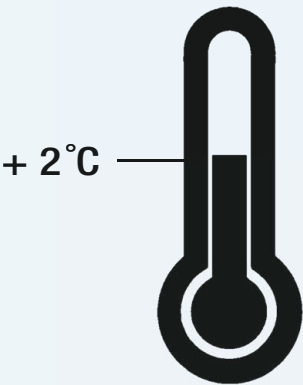
Accurate 1-point calibration.

The laboratory appliances with a Comfort electronic controller are equipped with 1-point calibration for accurate temperature control. This permits compensation between the set temperature and the actual internal temperature. Positive or negative changes to the correction value can be made in steps of 0.1 K.



Integrated data memory.

The Comfort electronic controller is equipped with an integrated data memory which logs the maximum and minimum internal temperatures as well as the last three temperature alarms and power failures, together with the time, date and duration. These data can be read out on the display.



Safety thermostat.

The laboratory appliances are equipped with an additional safety thermostat to prevent temperatures below +2 °C and to protect sensitive products in the event of a fault.



External temperature sensor.

The laboratory appliances with a Comfort electronic controller have an access port (diameter 10 mm) on the rear which allows the temperature sensor to be positioned in the interior.

Laboratory refrigerators with Comfort electronic controller



Laboratory refrigerators with Comfort electronic controller	
Total gross / net capacity	
Exterior dimensions in mm (w / d / h)	
Interior dimensions in mm (w / d / h)	
Energy consumption in 24 h *	
General	
Cooling system	
Defrost	
Temperature range	
External cabinet finish	
Door / lid material	
Internal liner material	
Type of control	
Temperature display	
Power failure alarm	
Fault: warning signal	
Interface / Volt-free alarm contact	
Interior light	
Adjustable shelves	
Usable shelf area in mm (w / d)	
Shelf material	
Shelf loading	
Handle	
Lock	
Self-closing door	
Door hinges	
Gross / net weight	
Climate rating	
Sound power level	
Refrigerant	
Voltage / Connection rating	
Accessories	
Shelf, plastic-coated	
Stacking kit, white	
Roller bars	
Evaporator cover, white	
Adjustable legs	
NTC product temperature probe	
RS 485 / RS 232 adapter, data log software	
Additional lock barrels (up to 10)	

LKv 3913 MediLine	LKv 3910 MediLine	LKUv 1613 MediLine	LKUv 1610 MediLine
360 / 344 litre	360 / 344 litre	141 / 130 litre	141 / 130 litre
600 / 615 / 1840	600 / 615 / 1840	600 / 615 / 820	600 / 615 / 820
440 / 435 / 1635	440 / 435 / 1635	440 / 435 / 670	440 / 435 / 670
1.315 kWh	0.846 kWh	1.010 kWh	0.747 kWh
forced-air	forced-air	forced-air	forced-air
automatic	automatic	automatic	automatic
+3°C to +16°C	+3°C to +16°C	+3°C to +16°C	+3°C to +16°C
steel / white	steel / white	steel / white	steel / white
glass door	steel	glass door	steel
commercial grade moulded polystyrol	commercial grade moulded polystyrol	commercial grade moulded polystyrol	commercial grade moulded polystyrol
electronic controller	electronic controller	electronic controller	electronic controller
external digital	external digital	external digital	external digital
when mains power return	when mains power return	when mains power return	when mains power return
visual and audible	visual and audible	visual and audible	visual and audible
RS 485 / yes	RS 485 / yes	RS 485 / yes	RS 485 / yes
LED lighting, with separate switch		LED lighting, with separate switch	
5	5	3	3
440 / 420	440 / 420	440 / 420	440 / 420
wire shelves plastic-coated	wire shelves plastic-coated	wire shelves plastic-coated	wire shelves plastic-coated
45 kg	60 kg	45 kg	60 kg
ergonomic slimline handle	ergonomic slimline handle	ergonomic slimline handle	ergonomic slimline handle
fitted	fitted	fitted	fitted
yes	yes	yes	yes
right, reversible on site	right, reversible on site	right, reversible on site	right, reversible on site
90 / 84 kg	71 / 65 kg	46 / 43 kg	39 / 37 kg
SN-ST	SN-ST	SN-ST	SN-ST
48 dB(A)	48 dB(A)	45 dB(A)	45 dB(A)
R 600a	R 600a	R 600a	R 600a
220 – 240V~ / 1.5 A	220 – 240V~ / 1.5 A	220 – 240V~ / 1.0 A	220 – 240V~ / 1.0 A
7112313	7112313	7112313	7112313
		9876687	9876687
		9590521	9590521
9590525	9590525	9590523	9590523
9590233	9590233		
9590407	9590407	9590407	9590407
9590387	9590387	9590387	9590387
on request	on request	on request	on request

* measured at +25 °C ambient temperature and +5 °C set temperature for fridges and -20 °C for freezers

Laboratory fridge-freezer with Comfort electronic controller



Laboratory fridge-freezer with Comfort electronic controller		LCv 4010 MediLine
Total gross / net capacity	fridge compartment	254 / 240 litre
Total gross / net capacity	freezer compartment	107 / 105 litre
Exterior dimensions in mm (w / d / h)		600 / 615 / 2000
Interior dimensions in mm (w / d / h)	fridge compartment	440 / 435 / 1105
Interior dimensions in mm (w / d / h)	freezer compartment	431 / 435 / 597
Energy consumption in 24 h *		1.800 kWh
General		
Cooling system	fridge / freezer comp.	forced-air / static
Defrost	fridge / freezer comp.	automatic / manual
Temperature range	fridge / freezer comp.	+3°C to +16°C / -9°C to - 30°C
External cabinet finish		steel / white
Door / lid material		steel
Internal liner material		commercial grade moulded polystyrol
Type of control		electronic controller
Temperature display		external digital
Power failure alarm		when mains power return
Fault: warning signal		visual and audible
Interface / Volt-free alarm contact		RS 485 / yes
Adjustable shelves	fridge compartment	4
Usable shelf area in mm (w / d)	fridge compartment	440 / 420
Shelf material	fridge / freezer comp.	wire shelves plastic-coated / glass
Shelf loading	fridge / freezer comp.	45 kg / 24 kg
Drawers	freezer compartment	3
Handle		ergonomic slimline handle
Lock		fitted
Self-closing door		yes
Door hinges		right, reversible on site
Gross / net weight		91 / 85 kg
Climate rating		SN-ST
Sound power level		52 dB(A)
Refrigerant		R 600a
Voltage / Connection rating		220 – 240V~ / 1.5 A
Accessories		
Grid shelf, plastic-coated, for	fridge compartment	7112313
Evaporator cover, white, for	fridge compartment	9590391
NTC product temperature probe		9590407
RS 485 / RS 232 adapter, data log software		9590387
Additional lock barrels (up to 10)		on request

* measured at +25 °C ambient temperature and +5 °C set temperature for fridges and -20 °C for freezers



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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