Laboratory Refrigerators and Freezers, Kirsch

KIRSCH – reliable cooling for the health care industry and for laboratories. A manufacturer of premium-quality products since 1865, KIRSCH knows exactly what counts in respect of cooling your sensitive substances. Your benefit: Units that you can fully rely on.

General features:
Robust, scratch-resistant housing made by ourselves: „Quality made in Germany". The interior is made of impact-resistant synthetic with moulded supports (undercounter models) or smooth aluminium with a protective coating with height-adjustable support rails (for all stand-alone models of 280 l cooling volume and up). The insulation consists of premium-quality environmentally friendly material. The units have lockable doors with hinges that can be changed. The temperature regulation controlled by microprocessor allows for accurate temperature control with safety functions in case of fault. The control is protected with a key switch against manipulation and equipped with a digital display and a minimum/maximum temperature memory. Furthermore, the KIRSCH cooling units have a USB connection for manual data acquisition with the free KIRSCH-DATANET software (only with PRO-ACTIVE) and a floating contact for forwarding alarms. The KIRSCH forced-air cooling provides for even temperature distribution and thus for a uniform storage temperature in the entire refrigeration space. Forced-air cooling is optimized for every model and consists of an individually adjusted combination of blower and ventilation plate.

LABEX® – for your safety
Laboratory refrigerators and freezers with explosion-proof interior (LABEX® and FROSTER-LABEX® models) meet the most challenging quality standards and safety requirements. The design safety has been tested by TÜV SÜD to Directive 2014/34/EU. A test report describes the KIRSCH LABEX® safety concept and makes the LABEX® refrigerators and freezers the safest explosion-proof frosters on the market. In the LABEX® models of the PRO-ACTIVE series, safety barriers provide additional safety for the temperature sensors. The interior is made of conductive materials, the integrated circulating-air fans are explosion protected (except for ESSENTIAL FROSTER LABEX 71, FROSTER LABEX 96 PRO-ACTIVE, LABEX 105 PRO-ACTIVE)

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3 product lines:

① ULTIMATE
- Touch display, elegant glass design
- Convenient operation via capacitive touch display
- Remote operation possible
- Digital data documentation with KIRSCH Datanet software
- Access monitoring with log
- Operation via touch while wearing laboratory gloves
- Plain-text fault alarms and troubleshooting
- Graphic display of the temperature curve and Min/Max temperature
- Fast commissioning
- Comprises the benefits of the PRO-ACTIVE line

PRO-ACTIVE
- Up to 60% reduction of power consumption (depending on model)
- Faster reaction to pending faults thanks to pro-active fault alarms
- Data records can be read out via USB interface by means of USB thumb drive and software
- Minimum temperature deviation in the cooling chamber
- Matching components ensure premium storage safety
- Comprises the benefits of the ESSENTIAL line

ESSENTIAL
- Entry-level KIRSCH quality
- Highest quality and reliability
- Robust design
- Temperature stability
- Flexibility
- Maximum safety

Laboratory refrigerators with ignition source-free interior (without recirculating air cooling)

Type	Vol. l	Temp. approx. °C	Outer W × D × H cm	Qty drawers/ shelves	P input W	Order No.
LABEX® 105 PRO-ACTIVE[1]	95	+2 – +15	54×54×82	1/2	86	**41 34 04105**
ESSENTIAL LABEX® 125[1]	120	+2 – +12	54×54×81	1/2	115	**10 34 04125**

Laboratory refrigerators with explosion-proof interior (with recirculating air cooling)

Type	Vol. l	Temp. approx. °C	Outer W × D × H cm	Qty drawers/ shelves	P input W	Order No.
LABEX® 288 PRO-ACTIVE[2]	280	+2 – +15	67×70×124	1/3	100	**10 34 04288**
LABEX® 288 ULTIMATE[2]	280	+2 – +15	67×765×131	1/3	100	**10 34 00288**
LABEX® 340 PRO-ACTIVE[2]	330	+2 – +15	67×63×181	2/4	128	**10 34 04340**
LABEX® 340 ULTIMATE[2]	330	+2 – +15	67×69×188	2/4	128	**10 34 00340**
LABEX® 468 PRO-ACTIVE[2]	460	+2 – +15	74×75×181	–/6	150	**10 34 04468**
LABEX® 468 ULTIMATE[2]	460	+2 – +15	74×80×188	–/6	170	**10 34 00468**

Laboratory refrigerators without explosion-proof interior (without recirculating air cooling)

Type	Vol. l	Temp. approx. °C	Outer W × D × H cm	Qty drawers/ shelves	P input W	Order No.
ESSENTIAL LABO 85[1]	80	+2 – +12	47×51×74	1/2	100	**10 34 00085**
ESSENTIAL LABO 125[1]	120	+2 – +15	54×54×81	–/2	125	**10 34 00125**

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[1] build-in model, [2] stand-alone model   ULTIMATE and ESSENTIAL models on request.

Laboratory refrigerators without explosion-proof interior (with recirculating air cooling)

Type	Vol. l	Temp. approx. °C	Outer W×D×H cm	Qty drawers/ shelves	P input W	Order No.
② LABO 100 PRO-ACTIVE[1]	95	+2 – +15	54×54×82	–/2	76	**41 34 00100**
LABO 340 PRO-ACTIVE[2]	330	+2 – +15	67×63×181	1/3	110	**10 34 03340**
LABO 340 ULTIMATE[2]	330	+2 – +15	67×69×188		110	**10 34 00341**
LABO 468 PRO-ACTIVE[2]	460	+2 – +15	74×75×181	–/4	170	**41 34 03468**
LABO 468 ULTIMATE[2]	460	+2 – +15	74×80×188		170	**10 34 00469**
LABO 520 PRO-ACTIVE[2]	500	0 – +15	77×76×193–196	–/5	250	**41 34 02520**
LABO 520 ULTIMATE[2]	500	0 – +15	77×76×196		250	**10 34 00520**
LABO 720 PRO-ACTIVE[2]	700	0 – +15	77×98×193–196	–/5	250	**41 34 02720**
LABO 720 ULTIMATE[2]	700	0 – +15	77×98×196		250	**10 34 00720**
LABO 720 CHROMAT PRO-ACTIVE[2]	700	+4 – +15	77×98×193–196	–/5	250	**10 34 02721**
LABO 720 CHROMAT ULTIMATE[2]	700	+4 – +15	77×98×196		250	**10 34 00721**

Laboratory freezers with explosion-proof interior (without recirculating air cooling)

Type	Vol. l	Temp. approx. °C	Outer W × D × H cm	Qty drawers/ shelves	P input W	Order No.
ESSENTIAL FROSTER LABEX® 71[1]	70	-15 – -22	47×51×74	1/3	100	**10 34 06070**
FROSTER LABEX® 96 PRO-ACTIVE[1]	90	-5 – -25	54×54×82	–/3	119	**10 34 06095**

Laboratory freezers with explosion-proof interior (with recirculating air cooling)
Contrary to the products by comparable competitors, all FROSTER-LABEX® models offer the unique combination of explosion-proof interior, forced-air cooling, automatic quick defrosting, and controlled pressure compensation.

Type	Vol. l	Temp. approx. °C	Outer W × D × H cm	Qty drawers/ shelves	P input W	Order No.
FROSTER LABEX® 330 PRO-ACTIVE[2]	300	-5 – -30	74×78×159	–/4	540	**10 34 06320**
FROSTER LABEX® 330 ULTIMATE[2]	300	-5 – -30	74×78×166	–/4	540	**10 34 00330**
③ FROSTER LABEX® 530 PRO-ACTIVE[2]	500	-5 – -30	77×76×193-196	–/5	550	**10 34 06520**
FROSTER LABEX® 530 ULTIMATE[2]	500	-5 – -30	77×76×196	–/5	550	**10 34 00530**
FROSTER LABEX® 730 PRO-ACTIVE[2]	700	-5 – -30	77×98×193–196	–/5	550	**10 34 06720**
FROSTER LABEX® 730 ULTIMATE[2]	700	-5 – -30	77×98×196	–/5	550	**10 34 00730**

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Laboratory freezers without explosion-proof interior (with recirculating air cooling)
With an automatic rapid defrosting system.

Type	Vol. l	Temp. approx. °C	Outer W × D × H cm	Qty drawers/ shelves	P input W	Order No.
FROSTER LABO 330 PRO-ACTIVE[2]	300	-5 – -30	74×78×159	–/4	590	**10 34 05320**
FROSTER LABO 330 ULTIMATE[2]	300	-5 – -30	74×77×166	–/4	590	**10 34 00331**
FROSTER LABO 530 PRO-ACTIVE[2]	500	-5 – -30	77×76×193–196	–/5	605	**41 34 05520**
FROSTER LABO 530 ULTIMATE[2]	500	-5 – -30	77×76×196	–/5	605	**10 34 00531**
FROSTER LABO 730 PRO-ACTIVE[2]	700	-5 – -30	77×98×193–196	–/5	605	**41 34 05720**
FROSTER LABO 730 ULTIMATE[2]	700	-5 – -30	77×97×196	–/5	605	**10 34 00731**

[1] build-in model, [2] stand-alone model   ULTIMATE and ESSENTIAL models on request.
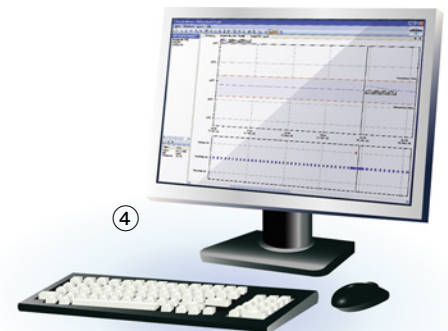
④ **Temperature documentation and quality assurance with KIRSCH-DATANET software**
Complete, simple, reliable, time-saving

PC-KIT-NET

Allows for connection to a network, incl. KIRSCH-DATANET software for PRO-ACTIVE models (comes as a standard with ULTIMATE models).
Monitoring, recording and evaluation of a multitude of technical parameters with PC-KIT-NET (door opening, alarms, temperature curves, technical operating statuses of cooling units, fans etc.)

Article	Order No.
PC-KIT-NET (network-compatible version)	**10 34 01675**

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Kirsch DATALOG

For retrofitting automatic temperature documentation and monitoring in units without PRO-ACTIVE or ULTIMATE control incl. software KIRSCH-DATANET and temperature sensor which needs to be integrated into the cooling unit on site.
Monitoring and recording of the temperature data and the set alarm limits.

Article	Order No.
DATALOG-NET	10 34 01687