

FROSTER LABEX® 330 ULTIMATE

Explosiongeschützter Innenraum - Zone 2

Equipment

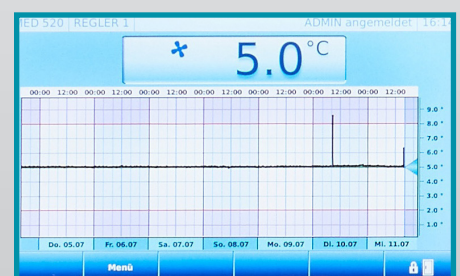
- Forced-air cooling
- 4 shelves
- Comfortable access
- Automatic fast defrosting
- Condensation container for manual emptying
- Potential-free contact
- Rapid freezing cycle
- Door frame heater
- Visual and audible alarm signal
- Minimum/maximum temperature memory

**MADE IN
GERMANY**



ULTIMATE-Features

- Touch display, capacitive, elegant glass design
- Graphic display of the temperature curve with logbook function
- Access control via password entry or RFID possible
- PC-KIT-NET for temperature documentation and monitoring via LAN



LABEX®-Devices

Our LABEX® models are the safest explosion-proof devices on the market that offer maximum temperature stability.

INTRINSIC SAFETY



Protected probes

The probes are protected via safety barriers



Explosion-proof fan

energy limiting power supply

CONSTRUCTIVE SAFETY



Earthing concept

The user is grounded as soon as the door handle is touched. Static charge is discharged into the housing



No spark formation

caused by moving parts (shelves or conductive drawers)





Explosion protection

Our promise - your safety!



KIRSCH was the first company in the laboratory cooling sector to adapt to the new ATEX product directive 2014/34/EU.

The interior of the devices is tested for absence of ignition sources by TÜV SÜD in conformity with Directive ATEX 2014/34/EU:

- All of the electrical equipment and components used in the interior (fans, temperature sensors, etc.) are specifically designed for use in zone 1* and zone 2
- We also guarantee the maximum temperature stability in explosion-proof interiors
- Intrinsically safe supply to the temperature sensors in the interior
- Explosion-proof fan
- Special earthing concept for discharging electrical potential
- Plastic parts in the interior have an antistatic design

(depending on the model)

*LABEX 465



Liability according to ATEX operator- and product guidelines

According to the ATEX operating directive, the plant operator is responsible for the correct selection of the equipment. For the determination of the suitable EX zone (e.g. Zone 1, Zone 2), following explosion hazards, among other things, have to be taken into consideration: the explosiveness of the stored substances and the frequency of occurrence of an explosive atmosphere.

We will gladly assist you in selecting the correct explosion protected device and provide you with the technical report of the TÜV-SÜD. You will find the declaration of conformity on our website: kirsch-medical.com/certificates/explosion-proofness.



- **PRO-ACTIVE- Control:** Permanent, proactive monitoring of the performance data and alerts in the case of deviations. World's most accurate temperature control in refrigerated areas thanks to two standard PT-1000 sensors.
- **Touch-Display,** elegant glass design, capacitive.
- **Access control** and device documentation with protocol.
- **Graphical display** of the temperature curve and min/max temperature.
- **External housing** made from galvanised sheet steel (rust-proof), with white, anti-scratch powder coating. Length of the plug cable: approx. 2.8 m.
- **Adjustable feet** to compensate uneven floors.
- **Interior** made from smooth aluminium with colourless protective coating. Gibs (every 15 mm) for flexible interior arrangement.
- **Interior equipment** can be customised (surcharge may apply). See optional equipment.
- **Extra-thick, energy saving insulation** made from high-quality, compression-moulded and environmentally friendly material.
- **Self-closing door** with easy-to-replace plastic magnetic seal frame, lockable.
- **Door hinge** on the right-hand side (by default, see illustration), or the left-hand side, can be retrofitted.
- **Forced-air cooling,** switches off automatically when you open the door, ensures a uniform temperature and minimizes temperature deviations.
- **Automatic fast defrosting** thanks to time-limited and temperature-monitored reversal of the refrigerant circuit. Defrost sensors are protected by safety barriers.
- **Valve controlled pressure compensation** for easier door opening.
- **Removable condensation container.**
- **Power failure alarm** (visual and audible alarm), the monitoring unit remains in operation for approx. 30 hours on battery power.
- **Warning functions** with visual and audible alarm signal in the case of temperature deviations or other malfunctions. Door open alarm after 60 seconds.
- **Alarms** can be forwarded using a potential-free contact (e.g., to a mobile phone with optional KIRSCH EVOLUTION CLOUD module or to a control centre).
- **Digital data documentation** readable via PC-KIT-NET or USB interface and software KIRSCH-DATANET.
- **Rapid freezing cycle** ensures that the goods to be cooled are frozen quickly.
- **Ventilation-enforced refrigerating machine,** hermetically sealed, energy saving, low-noise, easy to service.
- **Door frame heater** prevents icing of the door.

Specifications

Capacity	300 litres
Temperature setting	approx. -10 °C to -30 °C
Voltage	220 – 240 V, 50/60 Hz
Power consumption	289 watts
Normal consumption	2.58 kWh/24 h
Admissible ambient temperature	from +10 °C to +32 °C
Heat emission (max.)	1090 watts
Exterior dimensions (including distance from wall)	w x d x h = 74 x 77 x 166 cm
Usable dimensions	w x d x h = 56.7 x 44.5 x 74 cm
Exterior dimensions with door open at 90°	w x d = 74 x 141 cm
Shelfsize	w x d = 57 x 42 cm
Max. load shelf	40 kg
Weight (net/gross)	123 kg/139 kg
Temperature deviation without defrosting	+/-0.85 °C
Noise emission	51 dB(A)

Optional equipment

KIRSCH refrigerators and freezers offer numerous equipment options that can be retrofitted.



Castors

for easy handling and moving around.



Decorative frame

Made of stainless steel, allows to cover door with a decorative panel (thickness max. 2 mm).



Access Port

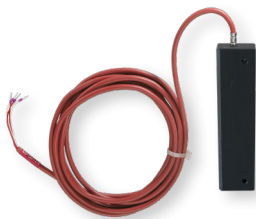
Simple insertion of an external temperature sensor with integrated cable feed-through.



Additional Shelves

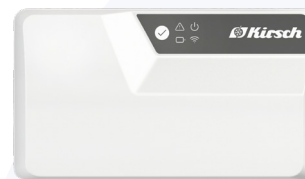
Wire shelves, robust with load capacity up to 40 and 50 kg.

Accessories for temperature documentation



External PT100/PT1000 with cold block

Additional temperature sensor for connection to existing/external monitoring system.



KIRSCH EVOLUTION CLOUD-Module

Maximum storage safety through optimal connectivity and real-time monitoring.

* For more information about our cloud, please contact us.



Philipp Kirsch GmbH
Im Lossenfeld 14
77731 Willstätt
Germany

Phone: +49 (0) 781 9227-0
Telefax: +49 (0) 781 9227-200
info@kirsch-medical.com

www.kirsch-medical.com



Photograph this QR code
and learn
about our entire
product range.