Kirsch
Member of the Hettich Group.

VDW
Crucial Temperature Solutions

LABEX® 520 PRO-ACTIVE

Explosion protection - Zone 2
The interior is free of ignition sources

Equipment

- 5 conductive wire grids to prevent static charges
- Automatic defrosting
- Equipped with castors
- Forced-air cooling
- Comfortable access
- Key switch
- Potential-free contact
- Digital temperature display
- Antifreeze
- Removable condensation container
- Visual and audible alarm signal
- Minimum/maximum temperature memory

MADE IN GERMANY

PRO-ACTIVE-Features

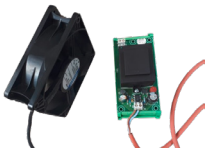
- Faster response time in the event of impending faults thanks to proactive alarms
- Data recording can be read out via USB interface using a USB stick and software
- Minimisation of temperature deviations in the interior
- Maximum storage safety thanks to harmonised components

LABEX®-Devices

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

INSTRINSIC 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.
- **External housing** made from galvanised sheet steel (rust-proof), with white, anti-scratch powder coating. Length of the plug cable: approx. 2.8 m.
- **Equipped with castors.**
- **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 minimises temperature deviations.
- **Automatic fast defrosting** with time limit and temperature monitoring. Defrost sensors are protected by safety barriers.
- **Removable condensation container.**
- **Key switch** protected control panel against tampering. Membrane keyboard with digital temperature display and minimum/maximum temperature memory. Control and display sensors protected by safety barriers.
- **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).
- **Data documentation** can be read via USB interface with KIRSCH Datanet software.
- **Antifreeze** against sub-zero temperatures.
- **Ventilation-enforced** refrigerating machine, hermetically sealed, energy saving, low noise, easy to service.
- **Low-noise compressor** reduces noise.

Specification

Capacity	500 litres
Temperature setting	approx. 0 °C bis +15 °C
Voltage	220 - 240 V, 50/60 Hz
Power consumption	73 watts
Normal consumption	0.88 kWh / 24 h
Admissible ambient temperature	from +10 °C to +38 °C
Heat emission (max.)	554 watts
Exterior dimensions (including door handle and distance from wall)	w x d x h = 77 x 76 x 195.5 cm
useable dimensions*	w x d x h = 59 x 45 x 129 cm
Exterior dimensions with door open at 90°	w x d = 77 x 144 cm
Shelf size	w x d = 59 x 45 cm
Max. load	40 kg
Weight	Net weight 126 kg, gross weight 149 kg
Temperature deviation	+/-0.51 °C
Noise emission	46 dB(A)

Optional equipment

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

Glass door

Transparency: Avoid unnecessary opening to check the contents. Lockable.

Decorative frame

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

Plastic-drawer on roller runners

Up to twelve drawers are possible in total.

Additional length and cross dividers

for the optimum organisation of your refrigerated goods.

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.

Door coupling

Connects the furniture door to the device door.

Levelling feet

Levelling feet instead of castors.

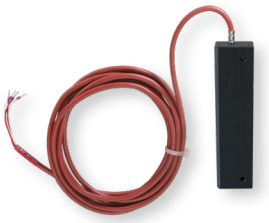
Accessories for temperature documentation

PC-KIT-NET

Automatic temperature documentation and monitoring via your network (LAN connection).

KIRSCH EVOLUTION CLOUD-Module

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



External PT100/PT1000 with cold block

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

Circular blade temperature recorder

Depending on the model, it is either installed in the machine compartment panel of the refrigerator or freezer or integrated into an additional housing attachment.

* 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.

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