



VONMAREN
LABORATORY & MEDICAL EQUIPMENT

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Digital temperature display

Key switch

Forced-air cooling

3 drawers

Automatic fast defrosting

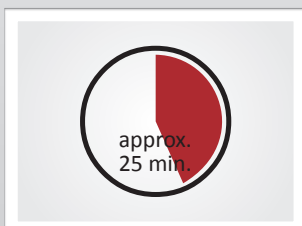
Condensate evaporation

Minimum/maximum temperature memory

Comfortable access

Visual and audible alarm signal, even in the case of power failure

Connection for forwarding alarms and for PC-supported temperature documentation



Fast defrosting

Fast defrosting reduces defrosting periods with minimal temperature variations.

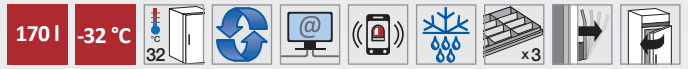


Controls

Thanks to the re-designed symbols and coloring the operation is more intuitive.

FROSTER-

BL-178 according to DIN 58371



- **External housing** made from galvanised sheet steel (rust-proof), with white, anti-scratch powder coating. Length of the plug cable: approx. 1.8 m.
- **Adjustable feet** to compensate for uneven floors.
- **Interior** made from smooth aluminium with colourless protective coating.
- **Interior consists** of three drawers of aluminium on telescopic runners. Stacking height: 15 cm. Capacity per drawer app. 28 plasma cartons (each 19 x 13 x 2,5 cm), each 400 ml size.
- **Extra-thick 70-mm insulation**, made from high-quality, compression-moulded and environmentally friendly material. Energy saving.
- **Self-closing door** with easy-to-replace plastic magnetic seal frame, lockable.
- **Door stop** on the right-hand side (by default, see illustration), or the left-hand side, can be retrofitted.
- **Forced-air cooling** with axial blower, 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.
- **Condensate evaporates** in stainless steel heated dish beneath the refrigerator floor.
- **Key switch** protected control panel against tampering. Membrane keyboard with digital temperature display and minimum/maximum temperature memory.
- **Warning functions** with visual and audible alarm signal in the case of power failure and temperature deviations. In the case of power failure, the monitoring unit remains in operation for approx. 72 hours on battery power. Door open alarm after 60 seconds.
- **Alarms** can be forwarded using a potential-free contact (e.g., to a mobile phone with optional GSM-Module or to a control centre).
- **RS485 interface** for connecting to PC-supported temperature documentation (using the optional KIRSCH-PC-KIT).
- **Ventilation-enforced refrigerating machine**, vibration free, hermetically sealed, energy saving, low-noise, easy to service. Inlet air and exhaust air flow through the ventilation slits at the front.

Specification

Capacity	170 litres
Temperature setting	-32 °C
Voltage	220 – 240 V, 50 Hz
Power consumption	460 watts
Normal consumption	5.3 kWh/24 h
Admissible ambient temperature	from +10 °C to +32 °C
Heat emission (max.)	603 watts
Exterior dimensions (including door handle and distance from wall)	w x d x h = 70 x 77 x 122 cm
Interior dimensions	w x d x h = 55 x 52 x 60 cm (usable width 3 cm, usable depth 11 cm, usable height 13cm less)
Exterior dimensions with door open at 90°	w x d = 70 x 136 cm
Drawer inner dimensions	w x d x h = 50 x 34 x 10 cm
Max. load drawer	50 kg
Weight	Net weight 104 kg, gross weight 117 kg

Optional equipment

- **LED illumination** mounted at the top.
- **Equipped with castors.**
- **Drawer insert** (set) with 3 adjustable length and 21 cross dividers per drawer.
- **Additional length and cross dividers.**
- **Drawer** made of stainless steel, also possible with cover plate, instead of aluminum.
- **GSM-Module** for alarm text message transmission (e.g., to a mobile phone).
- **Temperature documentation:**
 - PC-KIT-NET, PC-KIT-USB-MONITORING or PC-KIT-STICK including software for temperature documentation.
 - 4-pin PT 100 or PT 1000 temperature sensor, class 1/3 B, including built-in reference body.
 - Disc-type pen recording thermometer, with 7-day measuring cycle, incorporated, with 100 recording discs and 5 felt tip pens.
 - Mechanical pen-recording thermometer with two waxed paper strips.