

# Laboratory-Freezer FROSTER-LABEX-520 with recirculating air-cooling WITH EXPLOSION PROOF INTERIOR

TÜV approved according to guideline 94/9 EG (ATEX), EN 1127-1:1997 and BGR 120, figure 3.8 (October 1993),

Recirculating air-cooling ● Digital temperature display ● Minimum/Maximum temperature memory ● Potential free contact ● Micro processor controlled temperature and defrost mode ● Automatic defrosting ● Optical and acoustic warning device

Sensors are protected by safety barriers /inside fan protected through mains supply unit



## 5 Shelves

Capacity	500 Liters
Temperature setting	- 5° to - 30°C
Voltage	220 – 240 V, 50 Hz
Power draft	510 Watt
Average consumption	4,7 kWh/24 h
Overall dimensions (incl. distance from wall and door handle)	w x d x h = 77 x 76 x 193-196 cm
Interior dimensions	w x d x h = 60 x 57 x 140 cm (usable depth less 12 cm)
Overall dimensions with door open at 90°	w x d = 77 x 144 cm
Shelf dimensions	59,7 x 45 cm
Drawer inner dimensions	w x d x h = 57,4 x 40 x 5,6 cm
Max. loading capacity per drawer/shelf	24/40 kg
Weight	net 140 kg, gross 170 kg

**Outer panels** of galvanised sheet steel (protection against sub surface rusting), white powder coated.

**Adjustable feet** in case of uneven floor.

**Interior** of smooth aluminium sheet with a colourless protective coating, light metal strip with 15 mm raster.

**Insulating** 70 mm of high-grade pressure-foamed and pro-environmental material, extra thick for energy-saving effect.

**Lockable self closing door** with plastic magnetic sealing, easy to exchange. Door does not project at side when opened.

**Door hinge** changeable (also subsequently), standard version with hinges on right (as illustrated). Deliverable also with door hinge on left at no extra charge.

Pressure balance by temporally steered single solenoid valve.

**Defrosting** automatically with thermal control and time limit function (defrost sensor protected by safety barrier).

**During the defrosting period the necessary low temperature is kept.**

**Melt water tray** for manual emptying.

**Recirculating air-cooling** by means of a axial blower (**protected through mains supply unit**) which keeps the temperature constant and reduces the natural temperature stratification. The axial blower cuts out automatically when the door is opened, for a minimum loss of cold air.

**Temperature gear** by electronic thermostat. (sensor protected by safety barrier). The temperature is kept automatically, independent of changes in ambient temperatures, provided the ambient temperature is approx. 3°C above the selected interior temperature.

**Key switch protected control panel** with digital temperature display. Minimum/ maximum temperature memory, optical and acoustic warning signal in case of temperature deviation with potential free contact for remote monitoring. Defrost control light and red warning light. Standard equipped with interface RS485.

**Compressor** hermetically enclosed, energy saving, low noise, service friendly, for 220-240 V AC, 50 Hz. Other voltages on request. Length of mains cable approx. 3 m.

## Equipment features at extra charge:

- Power failure alarm (optical and acoustic up to 72 hours)
- Additional shelves or drawers
- Castors
- Basket on rails: 60 x 45 x 10 cm
- Aluminium tray on rails: 60 x 40 x 2,5 cm
- GSM-Module

## Appliances for temp. documentation:

- PC-Kit-Net (USB-Version)
- PC-Kit-Net (Network capable version), incl. documentation software
- Pen-recording thermometer for placing loosely inside appliance with waxed paper strips
- Disc-type pen recording thermometer incorporated in control panel, including 100 recording discs and 5 felt-tip pens for app. 2 years operation
- PT 100 or PT 1000 sensor (incl. safety barriers) for temperature recording and monitoring via EDP system