

Laboratory-Freezer FROSTER-LABEX-320 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), EC Low Voltage Directive 2006/95EG, Electromagnetic Compatibility (EMC) 2004/108/EG

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



4 Shelves

Capacity	300 Liters
Temperature setting	- 5°to - 30°C
Voltage	220 – 240 V, 50 Hz
Power draft	540 Watt
Average consumption	4,58 kWh/24 h
Overall dimensions (incl. distance from wall and door handle)	w x d x h =74 x 77 x 149 cm
Interior dimensions	w x d x h =59,5 x, 53 x, 95 cm (usable depth less 12 cm)
Overall dimensions with door open at 90°	w x d = 74 x 141 cm
Shelf dimensions	57 x 42 cm
Max. loading capacity per shelf	40 kg
Weight	net 112 kg, gross 127 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 dynamic ventilated, hermetically enclosed, energy saving, low noise, service friendly for 220-240 V AC, 50 Hz. Other voltages on request. Length of mains cable approx. 1,8 m.

Equipment features at extra charge:

- Power failure alarm (optical and acoustic up to 72 hours)
- Additional shelves or drawers
- Castors
- Basket on rails: 56,8 x 40 x 10 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