

BioMidi EF425

GRAM

Biostorage you can depend on



BioMidi EF425.
Drawers are optional extras.

The **BioMidi EF425** cabinet is a low temperature freezer that operates in the temperature range $-5/-40^{\circ}\text{C}$. It is a high capacity ventilated refrigeration unit that makes sure the interior quickly returns to the specified temperature after the door has been opened.

The control unit is a special Gram Multi Purpose Controller with LED display. It features acoustic alarm that provides clear notification if either maximum or minimum permitted temperature is reached. An acoustic door alarm is also fitted. All alarm parameters are set separately. Another embedded feature in the control-unit is voltage-free contact for IT networks, monitoring systems and/or remote alarms. Add to this alarm recording and Hi/Low temperature read out. E-sensor for temperature reference in the storage compartment is standard.

The **BioMidi EF425** utilises environmentally responsible HFC-free foam propellants and is available with CFC-free or HFC-free refrigerants.

The functional design ensures easy, ergonomically correct access to the storage space.



The BioMidi EF425 is available as a refrigerator or freezer in either white, aluminium or stainless steel finish. All BioMidi models come with selfclosing door. Glassdoor is available for refrigerator.



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TÜV 10 ATEX 354664

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Top panel with BioMidi control unit

The MPC unit is specially developed for users of BioLine storage cabinets. Among its many features are acoustic temperature and door alarms, and a voltage-free contact (NO/NC) for remote alarms. The display can be easily locked.



Access port

24.5 mm port for ease of access, e.g. sensors for external temperature surveillance.



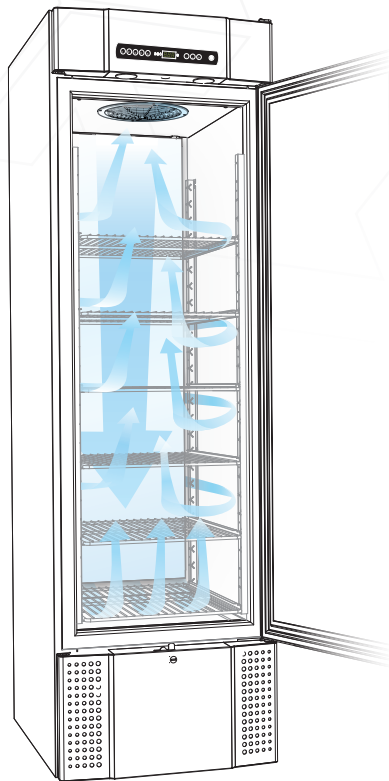
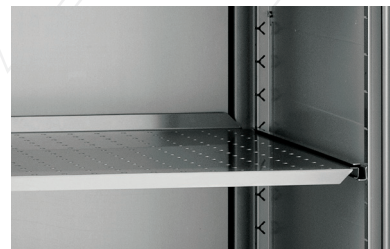
E-sensor

Extra sensor and reference container for providing a temperature reference within the storage compartment.



Shelves and drawers

A wide range of versatile interior fittings and layouts is available. The operating specifications and the interior layout can both be customised.



Aluminium / stainless steel interior

The interior base, including shelf or drawer brackets and support rails are made of stainless steel.

ATEX

All BioMidi models comply with ATEX Cat.3 Zone 2 requirements, both internal and externally, allowing for placement in locations where explosive gas atmospheres may be present.



AIR DISTRIBUTION

The unique Gram BioLine air distribution system makes sure the temperature inside the cabinet remains stable at all times, while using the minimum amount of energy

Technical specifications	BioMidi EF425
Temperature range	-5/-40 °C
Ambient temperature range	10/30 °C
Control Unit	Gram Control Unit with voltage-free contact, E-sensor, acoustic and visual door and temperature alarms that can be programmed individually, alarm recording and calibration function
Material interior Material exterior	Aluminium/stainless steel or stainless steel and inner doors in PMMA Lacquered steel or Aluminium/stainless steel or stainless steel
Dimensions mm (W x D x H)	600 x 731 x 2000
Gross volume	425 litres/15.0 cubic feet
Net volume	303 litres/10.7 cubic feet
Modules for shelves and drawers	Shelves 25 - Drawers 12
Insulation	60 mm polyurethane with CFC and HFC-free cyclopentane propellant
Refrigerant	R290 / R404A / prepared for external compressor
Refrigeration capacity at -40 °C	R290 396 Watt / R404A 378 Watt
Energy consumption	5.5 kWh/24h
Noise level	57,8 dB(A)
Base	Recessed wheels*
Connection	230 V, 50 Hz
Air system	BioLine ventilated air distribution system
Defrost system	Automatic smart defrost with re-evaporation of defrost water

* The cabinet can also be delivered for mounting on a plinth at no extra charge.