

# BioMidi EF425



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  $-5/-40$  °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 HFC-free refrigerants.

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



The BioMidi EF425 is available in either white or stainless steel finish. All models come with selfclosing door.



II 3G Ex nA nC nL IIB T3 Gc

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Version 06. Valid from 01.01.23



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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.

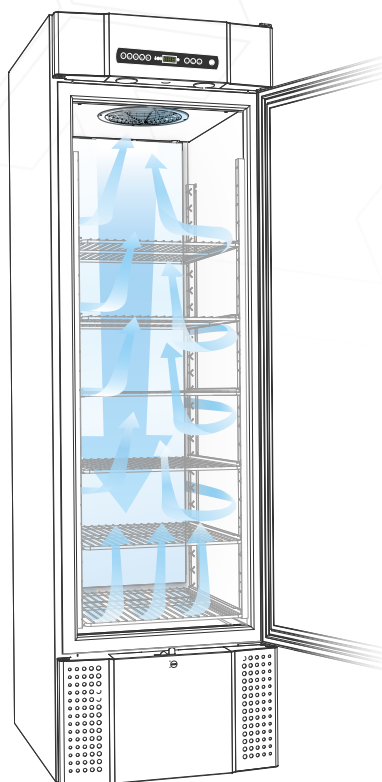


## Inner doors

Draught shield that minimizes cold loss when the outer door is opened is standard on the EF425.

## 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 offset function
Material interior Material exterior	Aluminium/stainless steel or stainless steel and inner doors in PMMA White lacquered steel or stainless steel
Dimensions mm (W x D x H)	622 x 731 x 1980/2000
Gross volume	425 litres/15.0 cubic feet
Net volume	303 litres/10.7 cubic feet
Net weight	Unpacked net weight without optional fittings: 112 kg
Modules for shelves and drawers	Shelves 25 - Drawers 12
Insulation	60 mm polyurethane with HFC-free cyclopentane propellant
K-Value	Solid door 0.31 W/m <sup>2</sup> K
Refrigerant	R290
Refrigeration capacity at -40 °C	R290 396 Watt
Co <sub>2</sub> e	-
Energy consumption	8.93 kWh/24h
Sound level	57,8 dB(A)
Base	Recessed wheels*
Connection	230 V, 50 Hz
Air system	Gram 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.