

Bioline 410



Bioline RR410.
Drawers, glass door and reference container are optional extras.



The Bioline 410 models are available as refrigerator or freezer in either white or stainless steel finish. Bioline refrigerators can be equipped with a solid door with lock and self-closing system or glass door with LED light, lock and self-closing system. Bioline freezers are equipped with a solid door with lock and self-closing system.

The **Bioline 410** is a large refrigerator or freezer cabinet with a small footprint, designed for a wide range of biostorage purposes where the prime focus is on dependability and exceptional performance.

The **Bioline 410** provides you with significantly better performance than any other cabinets in this segment, on account of a refrigeration system that does away with cold walls that can damage the contents and a unique air distribution system for storing ordinary biomaterial under consistent, stable conditions.

The design of the **Bioline 410** ensures you lots of ways to deal with individual storage needs, thanks to the versatile interior layout and a comprehensive selection of fixtures and fittings. The small footprint of this design also makes it the perfect biostorage unit for use in confined spaces.

The **Bioline 410** uses environmentally responsible HFC-free foam propellants and is available with HFC-free refrigerants. Based on decades of specialist know-how, these biostorage units are exceptionally energy efficient, and are the best performers on the market in relation to Scandinavian standards.

Available in either white or stainless steel finish, with a one-piece moulded PS inner lining. Shelves and drawers are mounted in U-shaped rails moulded into the plastic walls.



II 3G Ex ec nC ic IIB T6 Gc (RR) (R600a)

II 3G Ex ec nC ic IIB T4 Gc (RR) (R134a*)



II 3G Ex ec nC ic IIB T3 Gc (RF) (R600a/R134a*)

*available outside the EU

DTI 21ATEX0160X

Biostorage
you can
depend on

Bioline 410

Top panel with BioLine 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 connector (NC/NO) for remote alarms. The display can be locked.



Access port

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



E-sensor

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



Finned tube evaporator

Using a refrigeration system based on a finned tube evaporator is unique for biostorage products in this segment, and provides unparalleled benefits. The design results in a refrigerated storage space with no cold walls that can damage any delicate items stored in the cabinet. This also makes it possible to ensure even better temperature stability inside the cabinet.

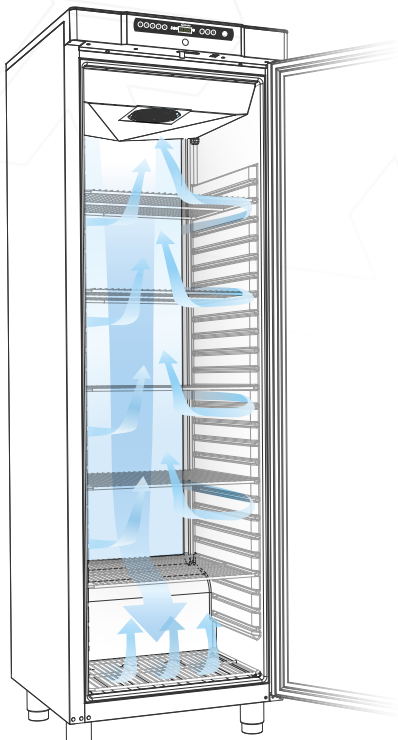


Shelves and drawers

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

ATEX

All BioCompact II 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 BioLine air distribution system makes sure the temperature inside the cabinet remains stable at all times. With the finned tube evaporator placed in the top, there are no cold walls inside the cabinet.

| Technical specifications | Bioline 410 | Bioline 410 R |
|----------------------------------|--|--------------------------------------|
| Temperature range | +20/+2 °C | -5/-25 °C |
| Ambient temperature range | Solid door +10/+35 °C; glass door (RR) +10/+32 °C | |
| Control Unit | 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 | PS | |
| Material exterior | White lacquered steel or stainless steel finish | |
| Dimensions (W x D x H) | 595 x 640 x 1776/1976 | |
| Gross volume | 346 litres/12.3 cubic feet | |
| Net volume | 312 litres/11.1 cubic feet | |
| Net weight | Unpacked net weight without optional fittings: 78 kg | |
| Modules for shelves and drawers | 25 shelves, 13 drawers and 8 wire baskets | |
| Insulation | 50 mm polyurethane with HFC-free cyclopentane propellant | |
| K-value | Glass door 0.5168 W/m ² K | Solid door 0.3543 W/m ² K |
| Refrigerant | R600a or R134a** | |
| Co ₂ e | R134a: 172 | R134a: 136 |
| Refrigeration capacity at -10 °C | R600a 207 Watt/R134a 173 Watt | - |
| Refrigeration capacity at -25 °C | - | R600a 204 Watt/R134a 216 Watt |
| Energy consumption | 0,73 kWh/24h | 2,13 kWh/24h |
| Sound level | 35,1 dB(A) | 38,6 dB(A) |
| Base | Legs* | |
| Connection | 230 V, 50 Hz | |
| Air system | BioLine ventilated air distribution system | |
| Defrost system | Automatic smart defrost with re-evaporation of defrost water | |

* The cabinets can be delivered with castors or legs or prepared for mounting on a plinth at no extra charge.

** R134a available outside the EU