



125

1901-2026

CONTROLLED **BIOSTORAGE**  
**PRICE LIST**

ROW 2026



bioline

**GRAM**

Biostorage you can depend on

# The Gram BioLine advantage

Appearances can be deceptive. The basic box shape is just about the only thing that Gram BioLine controlled biostorage solutions have in common with the household fridges and freezers that we're all familiar with. The Gram BioLine range also features significantly higher performance and considerably more demanding specifications than any commercial refrigeration and freezer equipment. We have designed, fine-tuned and optimised all the details in BioLine biostorage cabinets to ensure:

- >> maximum reliability
- >> stringent control
- >> optimised air flows
- >> a responsible environmental profile
- >> easy customisation
- >> rapid support from trained staff

This all means you can rely on every product in our Gram BioLine range to meet and exceed any current legislative requirements and international standards, right across the board. There are five entirely separate models in the Gram BioLine range of controlled biostorage solutions. Together, these cover everything from high-specification biostorage designed for "mission-critical" work to general-purpose refrigeration and freezer units.

| Refrigerator |                        | Temp.         |
|--------------|------------------------|---------------|
| RR           | Regular refrigeration  | +2/+20 °C     |
| ER           | Extended refrigeration | -2/+20 °C     |
| Freezers     |                        |               |
| RF           | Regular freezer        | -25/-5 °C     |
| EF           | Extended freezer       | -35,-40/-5 °C |
| UL           | Ultra low freezer      | -86/-60 °C    |



## II 3G EX ec ic IIB T1-T6 Gc

ExVeritas 26ATEX2340X

ExVeritas 26ATEX2341X

ExVeritas 26ATEX2342X

ExVeritas 26ATEX2343X

DTI22ATEX0251X

## II 3G Ex nA nL IIB T1-T6 Gc



**TEKNOLOGISK  
INSTITUT**

Manufacturer product declarations assessed or Certified by ExVeritas and Danish Technological Institute.

Gram reserves the right to alter prices and specifications. Valid from 01.01.2026



# 125 Years Defined by Degrees

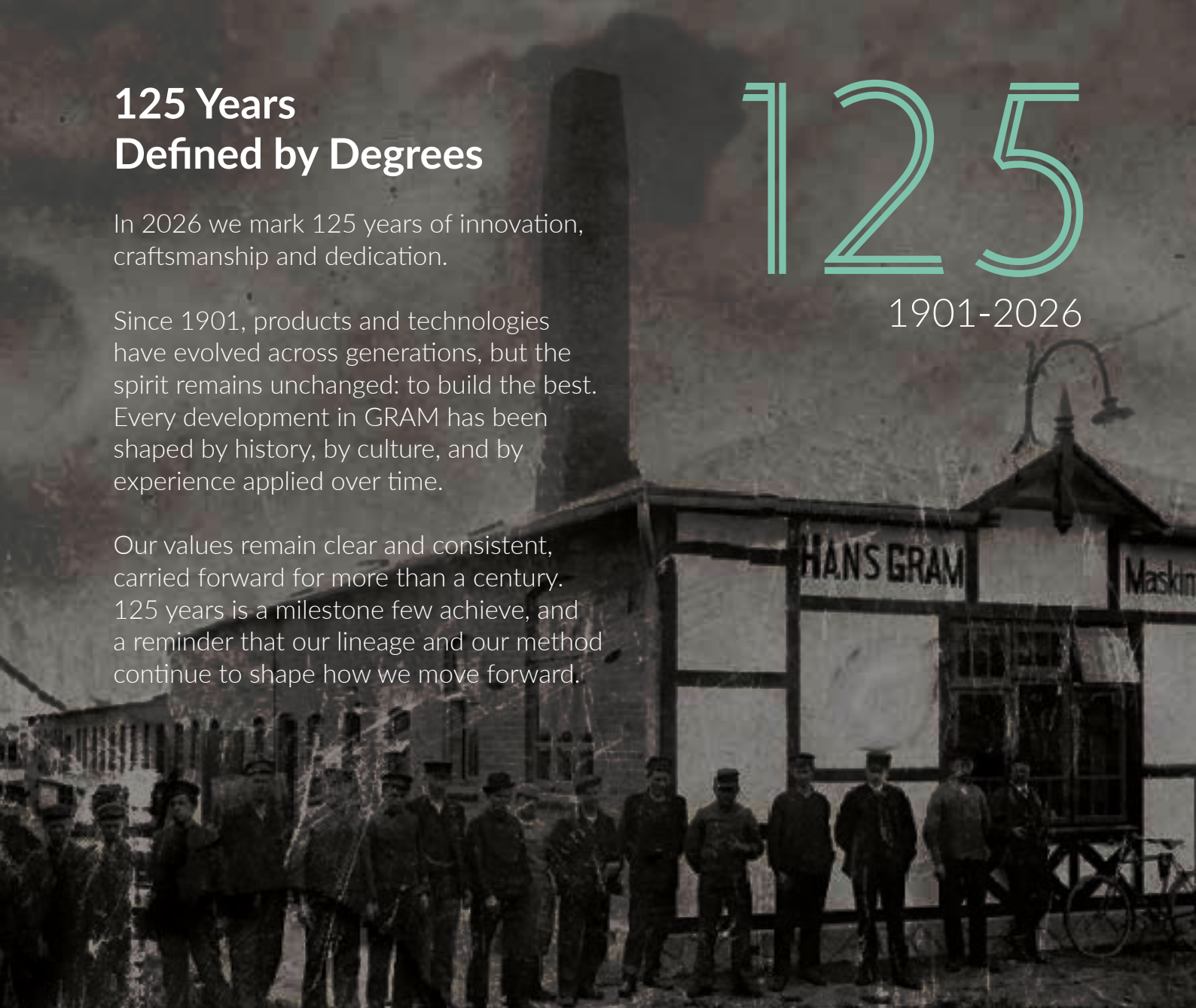
In 2026 we mark 125 years of innovation, craftsmanship and dedication.

Since 1901, products and technologies have evolved across generations, but the spirit remains unchanged: to build the best. Every development in GRAM has been shaped by history, by culture, and by experience applied over time.

Our values remain clear and consistent, carried forward for more than a century. 125 years is a milestone few achieve, and a reminder that our lineage and our method continue to shape how we move forward.

# 125

1901-2026



MADE IN  
DENMARK





## Customised to your needs

Each single user has a unique set of requirements for how a biostorage fridge or freezer should be configured, and how the interior should be laid out.

That's why there are no standard arrangements for cabinets in the Gram BioLine range – it'd be highly unlikely that "standard" would live up to your particular working requirements. Our approach is to make sure that all the Gram BioLine cabinets featured in this price list have a high standard specification. We then provide you with a comprehensive selection of optional features, as well as standardised modules for internal arrangements, fittings and accessories.

These choices enable you to select exactly what you need and to customise both the operating specifications and the interior layout of your Gram BioLine cabinets, «so that they are in line» with your particular requirements.

**You can also visit our website [www.gram-bioline.com](http://www.gram-bioline.com) and make use of our new configurator.**

## Configuration

How to configure and customise your particular Gram BioLine biostorage cabinet

### 1. Select model

BioUltra, BioPlus, BioMidi or BioCompact II and cabinet size  
(210, 310, 410, 425, 500, 570, 600, 610, 625, 660, 930, 1270 or 1400)

|              |  |
|--------------|--|
| BioPlus 600D |  |
|--------------|--|

### 2. Select exterior

– select between white lacquered steel or stainless steel

|       |  |
|-------|--|
| White |  |
|-------|--|

### 3. Select temperature range

– select refrigerators RR or ER or freezers RF or EF

|    |  |
|----|--|
| ER |  |
|----|--|

|                      |         |
|----------------------|---------|
| BioPlus ER600D White | € 5,890 |
|----------------------|---------|

### 4. Select door

– solid insulated doors for refrigerators and freezers, or double-layer energy-optimised glass doors for refrigerators. Doors are selected to be hinged on either the right or the left (single door units only)

|                               |       |
|-------------------------------|-------|
| Glass door, right hand hinged | € 290 |
|-------------------------------|-------|

### 5. Select interior

– from a wide range of versatile interior fittings including shelves, drawers, reference container, low temperature protection, chart recorder, wall mounting etc.

|                                   |       |
|-----------------------------------|-------|
| 6 wire shelves in stainless steel | € 390 |
|-----------------------------------|-------|

|                            |       |
|----------------------------|-------|
| Low temperature protection | € 150 |
|----------------------------|-------|

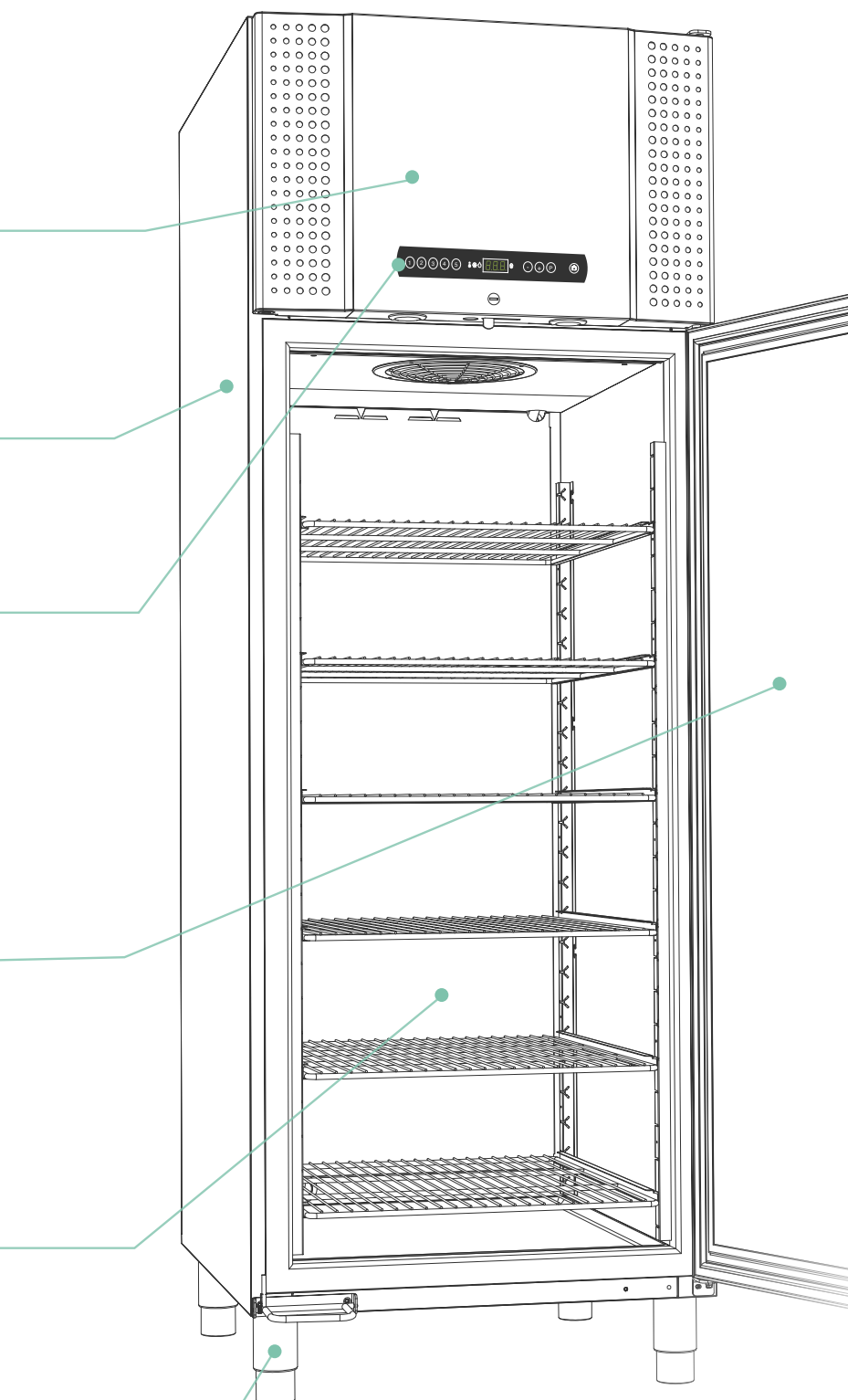
|                     |      |
|---------------------|------|
| Reference container | € 35 |
|---------------------|------|

### 6. Select base

– select between legs, wheels or prepared for mounting on plinth

|      |     |
|------|-----|
| Legs | € 0 |
|------|-----|

|                    |         |
|--------------------|---------|
| Customised cabinet | € 6,755 |
|--------------------|---------|



## When your needs change

Configuring a Gram BioLine cabinet to your current requirements doesn't lock you in to those specifications for ever. If new requirements arise or you need to change the way your staff use the cabinet, you can easily reconfigure it to meet those changing needs. All the fixtures and fittings inside Gram BioLine cabinets are based on the same modular system, making it easy to install new and/or different equipment to replace interior fittings that no longer meet your current requirements.

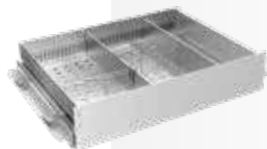
Gram BioLine "factory-fitted" items are the extra equipment and fittings you can select when the cabinet is delivered new from the factory.

Gram BioLine "supplied separately" items are the additional equipment and fittings you can purchase to supplement or alter the capabilities and layout in your existing Gram BioLine cabinets.



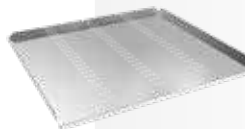
See page 58-61– Products and prices for detailed information

# BioLine options



## Aluminium drawers

Specially built, multi-purpose drawers provide a high degree of flexibility for your biostorage. The drawers can be divided horizontally and vertically according to your specific needs and changing daily requirements.



## Stainless perforated shelves

The perforated shelves provide a flat surface that helps ensure stable storage. The special design ensures exceptional strength, making them ideal for bearing heavy items. These shelves are highly resistant to a wide range of substances.



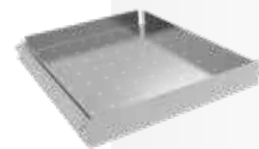
## ABS drawers

The ABS drawer has been designed from the ground up to meet the most stringent requirements. The drawer is one-piece injection molded for maximum rigidity and seamless smooth surfaces. Available for BioCompact II 210, 310 and 410 models.



## Wire basket

Large wire basket mounted in u-shaped rails fitted into the walls of the cabinet. Ideal for storing multiple items, with easy access. Available for BioCompact II 210, 310 and 410 models.



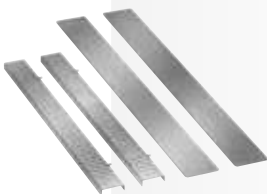
## Stainless drawers 30/40 kg

High-quality, heavy-duty drawers made of stainless steel are well-suited for use in particularly demanding environments. These drawers are available with a traditional stainless steel front. Equipped with telescopic drawer rails.



## Glass doors

These make checking and access both quicker and easier. Fitted with an energy-saving, extra-insulated double layer of glass, the glass door is optional equipment for the refrigerators in the Gram BioLine range.



## Stainless dividers

Divider system for when additional vertical compartments are needed in 30 and 40 kg stainless steel drawers.



## Draught shields

Set of 3 extra inner doors that minimise cold loss when the outer cabinet door is opened. Each of the 3 inner doors can be opened separately for access to the storage compartment. Optional for BioPlus and BioMidi, and standard equipment on EF versions.



## Wire shelves

The high-quality standard wire shelves are constructed of robust stainless steel for long life. Plastic-coated wire shelves are available for general use.

# BioLine options



## Wall mounting

BioCompact II 210, 310 and 410 models can also be wall-mounted, to save floor space and for easy cleaning.



## Reference container

Container in which the properties of the biomaterial can be simulated. The E-sensor or the user's own sensor can be placed in the reference container.



## Legs

Adjustable stainless steel legs are the ideal choice for mounting a stationary refrigerator securely and safely. You can also choose to have the refrigerator prepared for mounting on a plinth. Both options are included in the Gram BioLine product range at no extra charge.



## DIN kit

Fitted with the appropriate DIN kit, relevant cabinets will be compliant with DIN 13277.



## Wheels

A cabinet with wheels provides you with a bio-storage unit you can move around. For an even more maneuverable cabinet, you can upgrade from the standard option of two lockable castors and two fixed wheels to the option with four swivel castors.



## Pedal door opener

Practical pedal door opener for hand-free opening of the cabinet. Standard for BioPlus and optional available for BioCompact II 410/610.



## Chart recorder

The temperature chart recorder is for independent measurement of cabinet temperature. Sensor can be placed in separate liquid container. The recorder is powered by a 1.5 volt battery to ensure recording even in the event of a power failure.



## Dual refrigeration circuit

This additional safety feature ensures that the temperature inside the cabinet is maintained even in the unlikely event of a compressor failure. There are two independent refrigeration circuits that operate side-by-side under normal circumstances. However, each is designed to safely maintain the desired cabinet temperature on its own.



## Low-temperature protection

Low-temperature thermostat preventing the refrigerating system to operate if the temperature falls below the set minimum.

## Introducing **ExGuard**



The ExGuard is designed for safe temperature controlled storage of items potentially emitting noxious, malodorous and/or explosive atmospheres. At the core, the ExGuard is envisioned to facilitate a safer work environment for users.

ExGuard increases work environment safety and allows placement in work environments by letting your existing ventilation system extract the hazardous atmospheres from the cabinet interior prior to you being able to access the interior.

As with all other BioLine refrigerators, the ExGuard has internal and external ATEX Cat.3 Zone 2 compliance, thereby keeping the work environment safety as high as possible.

The ExGuard is currently available as a 614 litre refrigerator in stainless/stainless or white/stainless with glass or solid door.

### ExGuard refrigerator

|    |                        |           |
|----|------------------------|-----------|
| ER | Extended refrigeration | -2/+20 °C |
|----|------------------------|-----------|

### Features include:

- Built in safety mechanisms that prevent the cabinet from being opened before the hazardous atmosphere have been safely extracted
- Effortless and safe daily operation
- ATEX Cat.3 Zone 2 compliant – Internal and External
- Easy connection to your existing ventilation system\*
- Minimal setup
- High capacity refrigeration system for temperature recovery

\*Requirements for airflow dependant on items stored

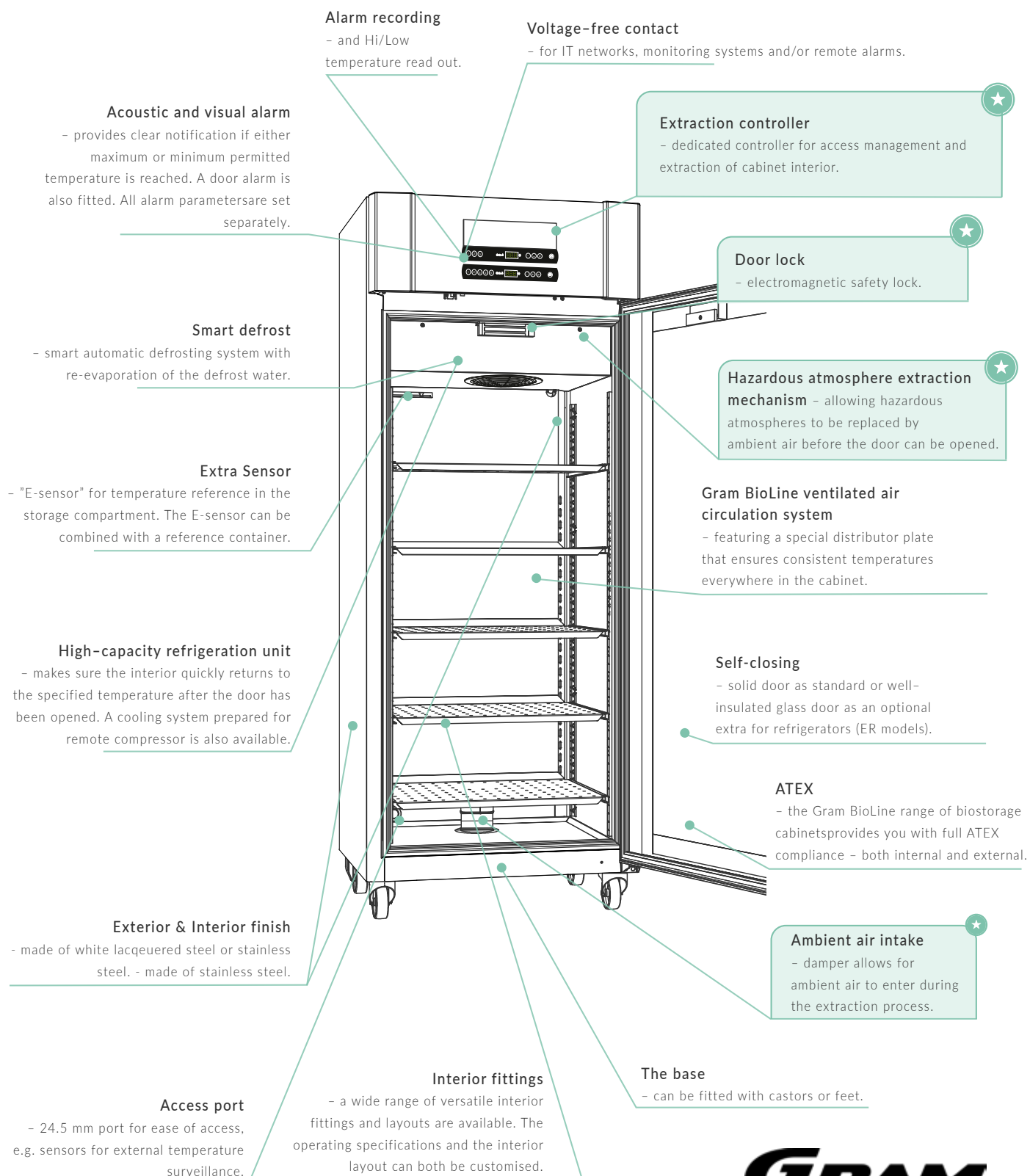


**EXGUARD**  
**YOUR SAFETY**





# ExGuard



# ExGuard, work safety made accessible

A damper is controlled via the extraction controller to open and close, allowing for potentially contaminated air to be evaluated through the connected ventilation system.

Safe temperature controlled storage of items potentially emitting noxious, malodorous and/or explosive atmospheres has until now been difficult. An option has been to customize a cabinet with extensive additions to comply with requirements – or in the worst case, using a regular storage cabinet for hazardous atmospheres, exposing users and surroundings to potential harm.

The ExGuard line offers a safe and viable storage solution for items potentially emitting noxious, malodorous and/or explosive atmospheres. With external and internal ATEX Cat. 3 Zone 2 compliance, integrated extraction controller, user safety features and fail-safes – ExGuard simply needs to be connected to an existing ventilation system and power supply to deliver a market benchmark for practical obtainable safety in the workplace.

## Easy to use

The ExGuards simple access procedure requires minimal training and ensures safe access to the stored items every time.

- A powerful electromagnetic lock keeps the cabinet door firmly locked under ordinary operation
- To access the cabinet, press the activation button on the extraction controlpanel. The cabinet interior will be evacuated and flushed with ambient air
- After a successful extraction, the cabinet can be opened
- When the cabinet is closed, the door is automatically locked

Ambient air is drawn into the cabinet interior through a check valve when the damper opens, equalising the pressure in the interior thereby flushing out potentially contaminated air.



# ExGuard ER600W



II 3G Ex ec ic IIB T2 Gc  
ExVeritas 26ATEX2341X



## Technical specifications

|                                  |                                                                                                                                                                                                                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -2/+20 °C                                                                                                                                                                                                                                                                                                            |
| Ambient temperature range        | Solid door +10/+43 °C; glass door +10/+38 °C                                                                                                                                                                                                                                                                         |
| Control Unit                     | Dedicated ExGuard extraction controller and software inhibiting access to the storage chamber unless safe extraction of cabinet interior has occurred. Timing of steps in the access procedure can be adjusted to suit your specifications. Separate controller managing normal operation as with the BioPlus range. |
| Material: Interior<br>Exterior   | Stainless steel<br>White lacquered steel or stainless steel                                                                                                                                                                                                                                                          |
| Ext. dimensions mm (W x D x H)   | 820 x 789 x 1996/2246                                                                                                                                                                                                                                                                                                |
| Net weight                       | Unpackaged net weight without optional fittings: 166 kg                                                                                                                                                                                                                                                              |
| Gross volume                     | 614 litres                                                                                                                                                                                                                                                                                                           |
| Net volume                       | 486 litres                                                                                                                                                                                                                                                                                                           |
| Modules for shelves and drawers  | 48 max (see page 68)                                                                                                                                                                                                                                                                                                 |
| Insulation                       | 70 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                                                                                                                                                             |
| K-Value                          | Solid door 0.26 W/m²K; glass door 0.45 W/m²K                                                                                                                                                                                                                                                                         |
| Refrigerant                      | R290                                                                                                                                                                                                                                                                                                                 |
| CO <sub>2</sub> e                | -                                                                                                                                                                                                                                                                                                                    |
| Refrigeration capacity at -10 °C | R290 389 watt                                                                                                                                                                                                                                                                                                        |
| Energy consumption               | 1.62 kWh/24h                                                                                                                                                                                                                                                                                                         |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                                                                                                                                                         |
| Sound level                      | 46,3 dB(A)                                                                                                                                                                                                                                                                                                           |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                                                                                                                                                      |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                                                                                                                                                     |

Price (white)  
€ 8,190

Price (stainless steel)  
€ 8,440

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| T     | BioLine wire shelf in stainless steel                | € 65  |
| 11    | Glass door                                           | € 290 |
| V     | Reference container                                  | € 35  |
|       | Legs, wheels*                                        | € 0   |
| 31    | Castors, 360° swivel                                 | € 50  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* See page 70



## Introducing **BioUltra**



The BioUltra UL570 is an ultra-low-temperature freezer that operates safely at -86 °C.

By utilising high-capacity components, cascade refrigeration system, latest generation vacuum insulated panel technology and insulated inner doors, the BioUltra cabinets are able to maintain safe and stable interior conditions when operating at -86 °C.

The BioUltra UL570 holds up to 384 2"/50 mm boxes, 192 3"/75 mm boxes or 192 4"/100 mm boxes.

### BioUltra freezers

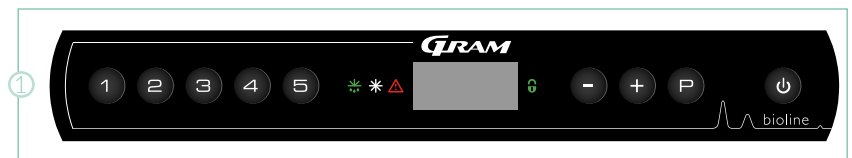
|    |                   |            |
|----|-------------------|------------|
| UL | Ultra Low Freezer | -86/-60 °C |
|----|-------------------|------------|

- ① The Gram MPC 4.6 control unit lets you adjust several different parameters individually. This makes it easy to adjust the cabinet's operating profile to your specific requirements or changing needs.
- ② Each UL570 is delivered with five adjustable stainless steel perforated shelves, for full utilisation of the storage space.
- ③ Two separate insulated inner doors facilitate safe operation and high flexibility. The inner doors can be removed for easy cleaning.

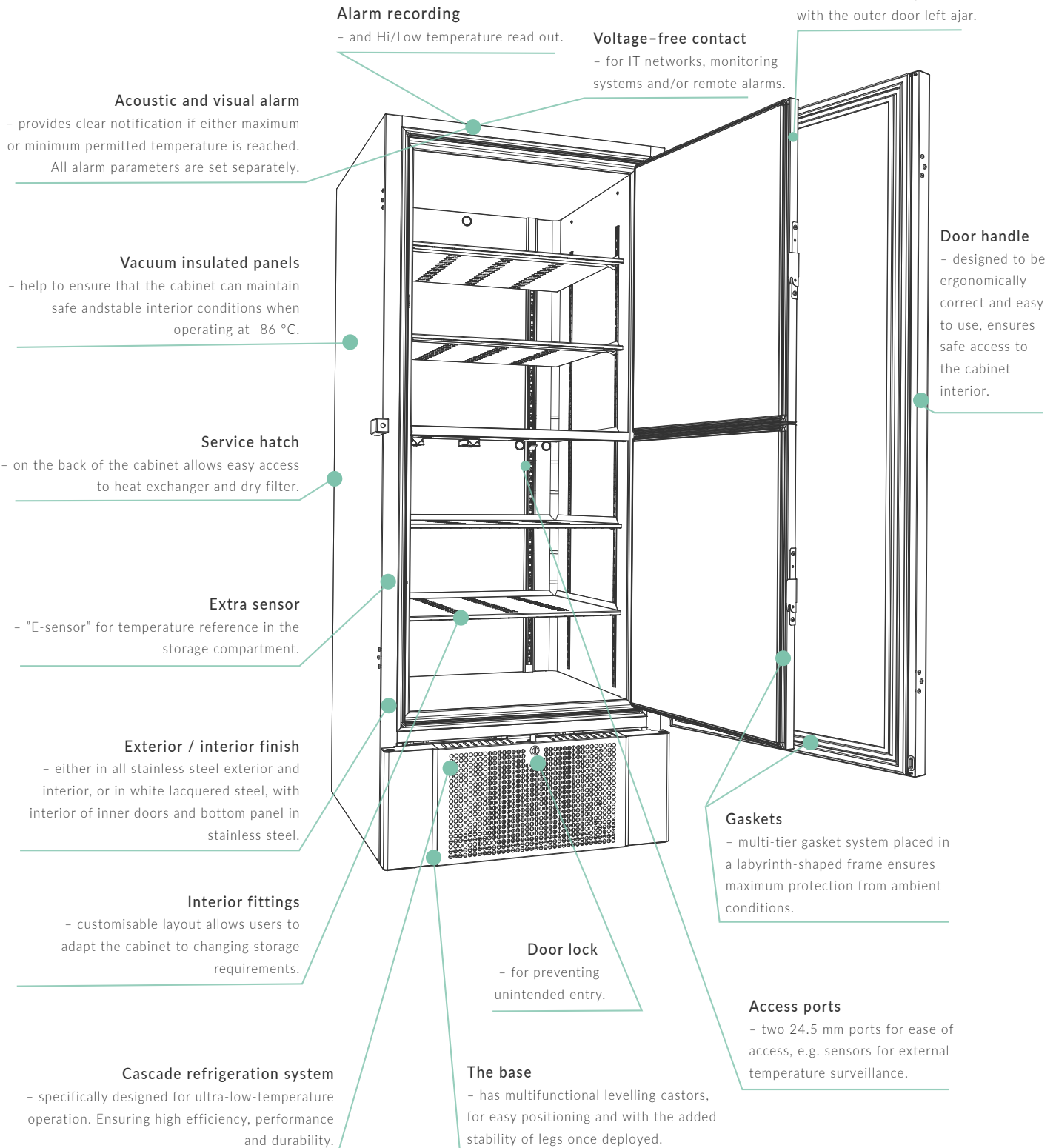
### INFO

Besides a regular air-cooled condenser, the BioUltra is also available with a hybrid water/air-cooled condenser option\*. The hybrid option combines the convenience of minimal heat and noise emission from water cooling, with the safety of a redundant condensing system in the event of interruptions in the supply of process water – securing maximum item safety and cabinet uptime.

\*Requires process water supply



# BioUltra UL570



## Option:

- Air and water cooled condenser
- Hybrid



# BioUltra UL570 <sup>❄</sup> -86 °C



II 3G Ex ec ic IIB T4 Gc

ExVeritas 26ATEX2340X



| Technical specifications       |                                                                                                                                                                                 |                                |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Temperature range              | -86/-60 °C                                                                                                                                                                      |                                |
| Ambient temperature range      | +10/+30 °C                                                                                                                                                                      |                                |
| Control Unit                   | Gram Control Unit with voltage-free contact, E-sensor, acoustic temperature alarm that can be programmed individually, alarm recording, hi/low temperature and offset function. |                                |
| Material: Interior<br>Exterior | White lacquered steel, inside of doors and bottom panel in stainless steel<br>White lacquered steel or stainless steel                                                          |                                |
| Ext. dimensions mm (W x D x H) | 856 x 979 x 1986/1996 (min./max. height)                                                                                                                                        |                                |
| Net weight                     | Unpackaged net weight without optional fittings: 257 kg                                                                                                                         |                                |
| Gross volume                   | 570 litres/20.1 cubic feet                                                                                                                                                      |                                |
| Modules for shelves            | Adjustable with 12.5 mm increments<br>5 Stainless steel perforated shelves come as standard                                                                                     |                                |
| Rack capacity: 2"/50 mm boxes  | 384 boxes (using 4x4 racks)                                                                                                                                                     | 38.400 vials (using 4x4 racks) |
| Rack capacity: 3"/75 mm boxes  | 192 boxes (using 3x4 racks)                                                                                                                                                     | 19.200 vials (using 3x4 racks) |
| Rack capacity: 4"/100 mm boxes | 192 boxes (using 2x4 racks)                                                                                                                                                     | 19.200 vials (using 2x4 racks) |
| Insulation                     | 70 mm (HFC free cyclopentane) Vacuum insulated panels                                                                                                                           |                                |
| Refrigerant                    | R290 / R170 / R601                                                                                                                                                              |                                |
| CO <sub>2</sub> e              |                                                                                                                                                                                 |                                |
| Sensors used                   | PT-10.000                                                                                                                                                                       |                                |
| Base                           | Levelling castors                                                                                                                                                               |                                |
| Connection                     | 230 V, 50 Hz, 16 Amp                                                                                                                                                            |                                |
| Energy consumption*            | 10.5 kWh/24h                                                                                                                                                                    |                                |
| Sound level                    | 46,5 dB(A)                                                                                                                                                                      |                                |

\* Measured with empty cabinet, setpoint of -80 °C with an ambient temperature of +20 °C

Price (white)

€ 11,700

Price (stainless steel)

€ 12,150

## Optional fittings and equipment – product configuration guide on page 4

Equipped with 5 perforated shelves in stainless steel

|       |                                    |         |
|-------|------------------------------------|---------|
| 50    | Chart recorder                     | € 735   |
| 79    | Water cooled condenser – Hybrid    | € 2,290 |
| 20/21 | Door hinge – on right or left side | € 0     |
| 98    | 9 Point temperature mapping        | € 430   |

Option codes



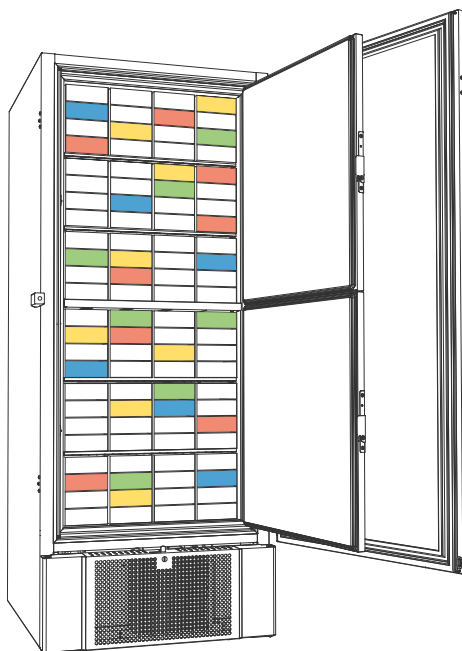
| Racks    |           |               |                                            |               |                            |        |       |
|----------|-----------|---------------|--------------------------------------------|---------------|----------------------------|--------|-------|
|          | Model     | Type          | Description<br>(max 137x137mm)             | HxDxW         | Maximum<br>amount per unit | Price* |       |
| Standard | 2"/50 mm  | Eco AluRack   | Side opening, aluminium construction       | For 4x4 boxes | 228x558x140                | 24     | € 150 |
|          |           | Standard rack | Side opening, stainless steel construction | For 4x4 boxes | 228x558x140                | 24     | € 175 |
|          |           | Comfort rack  | Shuffle rack, stainless steel construction | For 4x4 boxes | 228x558x140                | 24     | € 290 |
|          | 3"/75 mm  | Eco AluRack   | Side opening, aluminium construction       | For 3x4 boxes | 240x558x140                | 16     | € 145 |
|          |           | Standard rack | Side opening, stainless steel construction | For 3x4 boxes | 240x558x140                | 16     | € 170 |
|          |           | Comfort rack  | Shuffle rack, stainless steel construction | For 3x4 boxes | 240x558x140                | 16     | € 305 |
|          | 4"/100 mm | Eco AluRack   | Side opening, aluminium construction       | For 2x4 boxes | 212x558x140                | 16     | € 150 |
|          |           | Standard rack | Side opening, stainless steel construction | For 2x4 boxes | 212x558x140                | 16     | € 175 |
|          |           | Comfort rack  | Shuffle rack, stainless steel construction | For 2x4 boxes | 212x558x140                | 16     | € 305 |

\* Prices are without boxes

| Boxes |            |                         |                                |            |
|-------|------------|-------------------------|--------------------------------|------------|
|       | Box height | Type                    | Description                    | Price/pcs. |
| 9x9   | 2"/50 mm   | Coated cardboard, white | 133x133 mm with 9x9 dividers   | € 6        |
|       | 3"/75 mm   | Coated cardboard, white | 133x133 mm with 9x9 dividers   | € 8        |
|       | 4"/100 mm  | Coated cardboard, white | 133x133 mm with 9x9 dividers   | € 11       |
| 10x10 | 2"/50 mm   | Coated cardboard, white | 133x133 mm with 10x10 dividers | € 6        |
|       | 3"/75 mm   | Coated cardboard, white | 133x133 mm with 10x10 dividers | € 8        |
|       | 4"/100 mm  | Coated cardboard, white | 133x133 mm with 10x10 dividers | € 11       |



Shuffle rack, stainless steel construction



## Introducing **BioPlus**



The BioPlus range is designed for the storage of the most delicate biomaterials, in situations where even tiny fluctuations in conditions inside the storage cabinet can have a serious effect on the contents.

BioPlus refrigerators also enable you to reduce internal relative humidity, thus cutting down on any likelihood of undesirable contaminants getting near delicate biomaterials. In terms of performance, these units are designed to provide the very best results even under exceptional conditions.

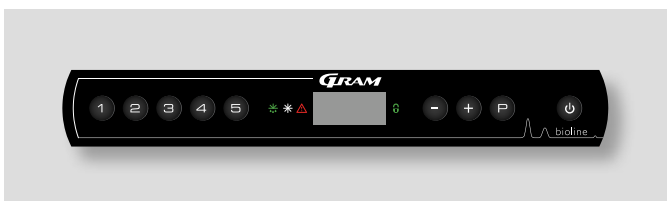
Available with capacities of 500, 600, 660, 930, 1270 and 1400 litres and in a range of different sizes, in either white or stainless steel finish.

### BioPlus refrigerators

|    |                        |           |
|----|------------------------|-----------|
| ER | Extended refrigeration | -2/+20 °C |
|----|------------------------|-----------|

### BioPlus freezers

|    |                  |           |
|----|------------------|-----------|
| RF | Regular freezer  | -25/-5 °C |
| EF | Extended freezer | -35/-5 °C |



The Gram MPC 4.6 lets you adjust several different parameters individually, so that you can adjust the cabinet's operating profile to specific requirements or changing needs.



Glass door (optional on all refrigerators) makes it easy to carry out rapid, at-a-glance checks of the contents of the cabinet.



The interior is made of stainless steel that is extremely durable, ready to withstand many years of use. Access port located in the back of the cabinet.

# BioPlus



## Alarm recording

– and Hi/Low temperature read out.

## Acoustic and visual alarm

– provides clear notification if either maximum or minimum permitted temperature is reached.  
A door alarm is also fitted.  
All alarm parameters are set separately.

## Voltage-free contact

– for IT networks, monitoring systems and/or remote alarms.

## Door lock

– for avoiding unintended entry.

## Smart defrost

– smart automatic defrosting system with re-evaporation of the defrost water.

## Extra Sensor

– "E-sensor" for temperature reference in the storage compartment. The E-sensor can be combined with a reference container.

## Gram BioLine ventilated air circulation system

– featuring a special distributor plate that ensures consistent temperatures everywhere in the cabinet.

## Self-closing

– solid door as standard or well-insulated glass door as an optional extra for refrigerators (ER models).

## High-capacity refrigeration unit

– makes sure the interior quickly returns to the specified temperature after the door has been opened.

## ATEX

– the Gram BioLine range of biostorage cabinets provides you with full ATEX compliance – both internal and external.

## Interior fittings

– a wide range of versatile interior fittings and layouts are available. The operating specifications and the interior layout can both be customised.

## Exterior & Interior finish

– made of white lacquered steel or stainless steel.  
– made of stainless steel.

## The base

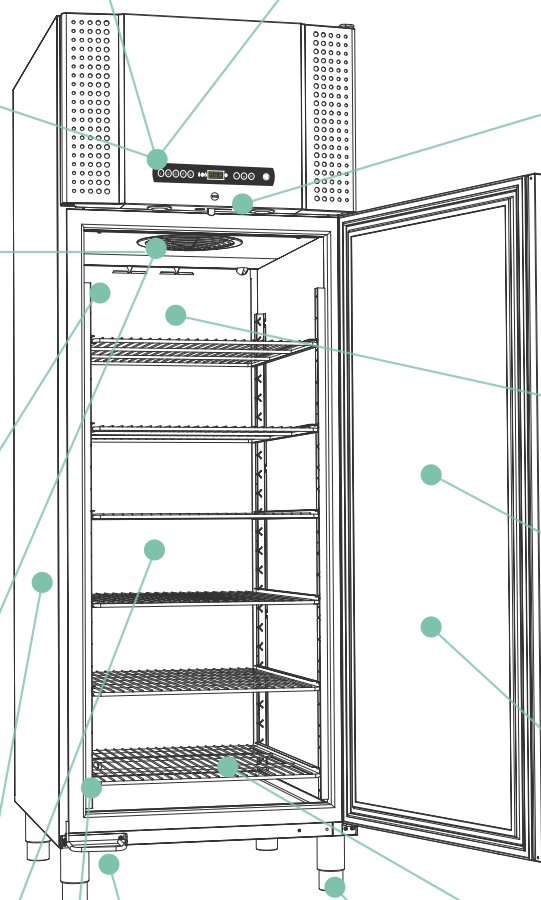
– can be fitted with castors or feet, or for mounting on a plinth.

## Pedal door opener

– so that the cabinet is easy to open, with full access even when the user's hands are full. (Not EF)

## Access port

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



# BioPlus ER500



II 3G Ex nA nC nL IIB T2 Gc



## Technical specifications

|                                  |                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -2/+20 °C                                                                                                                                                                                          |
| Ambient temperature range        | Solid door +10/+43 °C; glass door +10/+38 °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, dry cool function and offset function |
| Material: Interior               | Stainless steel                                                                                                                                                                                    |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                                           |
| Ext. dimensions mm (W x D x H)   | 600 x 805 x 2025/2275                                                                                                                                                                              |
| Net weight                       | Unpackaged net weight without optional fittings: 130 kg                                                                                                                                            |
| Gross volume                     | 500 litres/17.7 cubic feet                                                                                                                                                                         |
| Net volume                       | 365 litres/12.9 cubic feet                                                                                                                                                                         |
| Modules for shelves and drawers  | 52 (see page 68)                                                                                                                                                                                   |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                                           |
| K-Value                          | Solid door 0.31 W/m²K; glass door 0.46 W/m²K                                                                                                                                                       |
| Refrigerant                      | R290                                                                                                                                                                                               |
| CO <sub>2</sub> e                | -                                                                                                                                                                                                  |
| Refrigeration capacity at -10 °C | R290 389 watt                                                                                                                                                                                      |
| Energy consumption               | 1.26 kWh/24h (see page 64)                                                                                                                                                                         |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                                       |
| Sound level                      | 46.2 dB(A)                                                                                                                                                                                         |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                                    |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                                   |

Price (white)

€ 5,740

Price (stainless steel)

€ 5,990

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer with length and cross dividers | € 185 |
| R     | BioLine stainless steel drawer 30 kg                    | € 185 |
| S     | BioLine stainless steel drawer 40 kg                    | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set)    | € 70  |
| P     | BioLine perforated shelf in stainless steel             | € 90  |
| T     | BioLine wire shelf in stainless steel                   | € 65  |
| N     | BioLine wire shelf with plastic coating                 | € 45  |
| 11    | Glass door                                              | € 290 |
| 70    | Draught shields (set of 3 inner doors)*                 | € 435 |
| 50    | Chart recorder                                          | € 735 |
| 69    | DIN kit 13277                                           | € 185 |
| 81    | Low-temperature protection                              | € 150 |
| V     | Reference container                                     | € 35  |
|       | Legs, wheels or for mounting on a plinth**              | € 0   |
| 31    | Castors, 360° swivel                                    | € 50  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 98    | 9 Point temperature mapping                             | € 430 |

Option codes

\* Cannot be combined with BioLine wire shelf with plastic coating or aluminium drawers

\*\* See page 71





# BioPlus RF500 <sup>\*</sup> -25 °C



II 3G Ex nA nC nL IIB T2 Gc

## Technical specifications

|                                  |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+43 °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<br>Exterior   | Stainless steel<br>White lacquered steel or stainless steel                                                                                                                     |
| Ext. dimensions mm (W x D x H)   | 600 x 805 x 2025/2275                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 130 kg                                                                                                                         |
| Gross volume                     | 500 litres/17.7 cubic feet                                                                                                                                                      |
| Net volume                       | 365 litres/12.9 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 52 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R290 374 watt                                                                                                                                                                   |
| Energy consumption               | 3.83 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 48.7 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)  
€ 6,310

Price (stainless steel)  
€ 6,560

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| R     | BioLine stainless steel drawer 30 kg                 | € 185 |
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| T     | BioLine wire shelf in stainless steel                | € 65  |
| N     | BioLine wire shelf with plastic coating              | € 45  |
| 70    | Draught shields (set of 3 inner doors)*              | € 435 |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
|       | Legs, wheels or for mounting on a plinth**           | € 0   |
| 31    | Castors, 360° swivel                                 | € 50  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* Cannot be combined with BioLine wire shelf with plastic coating

\*\* See page 71



The BioPlus series is designed for the storage of the most sensitive biomaterials in situations where even small fluctuations in the conditions inside the storage cabinet can have a serious impact on the contents.

# BioPlus ER600D



II 3G Ex nA nC nL IIB T2 Gc



## Technical specifications

|                                  |                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -2/+20 °C                                                                                                                                                                                          |
| Ambient temperature range        | Solid door +10/+43 °C; glass door +10/+38 °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, dry cool function and offset function |
| Material: Interior               | Stainless steel                                                                                                                                                                                    |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                                           |
| Ext. dimensions mm (W x D x H)   | 695 x 876 x 1875/2125                                                                                                                                                                              |
| Net weight                       | Unpackaged net weight without optional fittings: 146 kg                                                                                                                                            |
| Gross volume                     | 600 litres/21.2 cubic feet                                                                                                                                                                         |
| Net volume                       | 432 litres/15.3 cubic feet                                                                                                                                                                         |
| Modules for shelves and drawers  | 24 (see page 68)                                                                                                                                                                                   |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                                           |
| K-Value                          | Solid door 0.31 W/m²K; glass door 0.46 W/m²K                                                                                                                                                       |
| Refrigerant                      | R290                                                                                                                                                                                               |
| CO <sub>2</sub> e                | -                                                                                                                                                                                                  |
| Refrigeration capacity at -10 °C | R290 389 watt                                                                                                                                                                                      |
| Energy consumption               | 1.26 kWh/24h (see page 64)                                                                                                                                                                         |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                                       |
| Sound level                      | 46 dB(A)                                                                                                                                                                                           |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                                    |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                                   |

Price (white)

€ 5,890

Price (stainless steel)

€ 6,140

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer with length and cross dividers | € 185 |
| R     | BioLine stainless steel drawer 30 kg                    | € 185 |
| S     | BioLine stainless steel drawer 40 kg                    | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set)    | € 70  |
| P     | BioLine perforated shelf in stainless steel             | € 90  |
| T     | BioLine wire shelf in stainless steel                   | € 65  |
| N     | BioLine wire shelf with plastic coating                 | € 45  |
| 11    | Glass door                                              | € 290 |
| 70    | Draught shields (set of 3 inner doors)*                 | € 435 |
| 50    | Chart recorder                                          | € 735 |
| 81    | Low-temperature protection                              | € 150 |
| 69    | DIN kit 13277                                           | € 185 |
| V     | Reference container                                     | € 35  |
|       | Legs, wheels or for mounting on a plinth**              | € 0   |
| 31    | Castors, 360° swivel                                    | € 50  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 98    | 9 Point temperature mapping                             | € 430 |

Option codes

\* Cannot be combined with BioLine wire shelf with plastic coating or aluminium drawers

\*\* See page 71



# BioPlus RF600D

❄️ -25 °C



II 3G Ex nA nC nL IIB T2 Gc

| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+43 °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               | Stainless steel                                                                                                                                                                 |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 695 x 876 x 1875/2125                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 146 kg                                                                                                                         |
| Gross volume                     | 600 litres/21.2 cubic feet                                                                                                                                                      |
| Net volume                       | 432 litres/15.3 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 24 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R290 512 watt                                                                                                                                                                   |
| Energy consumption               | 4.03 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 47.3 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)  
€ 6,460

Price (stainless steel)  
€ 6,710

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| R     | BioLine stainless steel drawer 30 kg                 | € 185 |
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| T     | BioLine wire shelf in stainless steel                | € 65  |
| N     | BioLine wire shelf with plastic coating              | € 45  |
| 70    | Draught shields (set of 3 inner doors)*              | € 435 |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
|       | Legs, wheels or for mounting on a plinth**           | € 0   |
| 31    | Castors, 360° swivel                                 | € 50  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* Cannot be combined with Bioline wire shelf with plastic coating

\*\* See page 71



# BioPlus ER600W



**Ex II 3G Ex nA nC nL IIB T2 Gc**

## Technical specifications

|                                  |                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -2/+20 °C                                                                                                                                                                                          |
| Ambient temperature range        | Solid door +10/+43 °C; glass door +10/+38 °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, dry cool function and offset function |
| Material: Interior<br>Exterior   | Stainless steel<br>White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 815 x 756 x 1875/2125                                                                                                                                                                              |
| Net weight                       | Unpackaged net weight without optional fittings: 146 kg                                                                                                                                            |
| Gross volume                     | 600 litres/21.2 cubic feet                                                                                                                                                                         |
| Net volume                       | 432 litres/15.3 cubic feet                                                                                                                                                                         |
| Modules for shelves and drawers  | 24 (see page 68)                                                                                                                                                                                   |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                                           |
| K-Value                          | Solid door 0.31 W/m²K; glass door 0.49 W/m²K                                                                                                                                                       |
| Refrigerant                      | R290                                                                                                                                                                                               |
| CO <sub>2</sub> e                | -                                                                                                                                                                                                  |
| Refrigeration capacity at -10 °C | R290 389 watt                                                                                                                                                                                      |
| Energy consumption               | 1.35 kWh/24h (see page 64)                                                                                                                                                                         |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                                       |
| Sound level                      | 44.8 dB(A)                                                                                                                                                                                         |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                                    |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                                   |

Price (white)  
€ 5,890

Price (stainless steel)  
€ 6,140

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer with length and cross dividers | € 185 |
| R     | BioLine stainless steel drawer 30 kg                    | € 185 |
| S     | BioLine stainless steel drawer 40 kg                    | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set)    | € 70  |
| P     | BioLine perforated shelf in stainless steel             | € 90  |
| T     | BioLine wire shelf in stainless steel                   | € 65  |
| N     | BioLine wire shelf with plastic coating                 | € 45  |
| 11    | Glass door                                              | € 290 |
| 70    | Draught shields (set of 3 inner doors)*                 | € 435 |
| 50    | Chart recorder                                          | € 735 |
| 81    | Low-temperature protection                              | € 150 |
| 69    | DIN kit 13277                                           | € 185 |
| V     | Reference container                                     | € 35  |
|       | Legs, wheels or for mounting on a plinth**              | € 0   |
| 31    | Castors, 360° swivel                                    | € 50  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 80    | Dual refrigeration circuit                              | € 735 |
| 98    | 9 Point temperature mapping                             | € 430 |

Option codes

\* Cannot be combined with BioLine wire shelf with plastic coating or aluminium drawers

\*\* See page 72



# BioPlus RF600W

❄️ -25 °C



II 3G Ex nA nC nL IIB T2 Gc



## Technical specifications

|                                  |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+43 °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               | Stainless steel                                                                                                                                                                 |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 815 x 756 x 1875/2125                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 146 kg                                                                                                                         |
| Gross volume                     | 600 litres/21.2 cubic feet                                                                                                                                                      |
| Net volume                       | 432 litres/15.3 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 24 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R290 512 watt                                                                                                                                                                   |
| Energy consumption               | 4.07 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 45.8 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)  
€ 6,460

Price (stainless steel)  
€ 6,710

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| R     | BioLine stainless steel drawer 30 kg                 | € 185 |
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| T     | BioLine wire shelf in stainless steel                | € 65  |
| N     | BioLine wire shelf with plastic coating              | € 45  |
| 70    | Draught shields (set of 3 inner doors)*              | € 435 |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
|       | Legs, wheels or for mounting on a plinth**           | € 0   |
| 31    | Castors, 360° swivel                                 | € 50  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
| 80    | Dual refrigeration circuit                           | € 735 |
| 98    | 9 Point temperature mapping                          | € 430 |

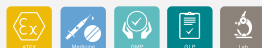
Option codes

\* Cannot be combined with Bioline wire shelf with plastic coating

\*\* See page 72



# BioPlus ER660D



II 3G Ex nA nC nL IIB T2 Gc



| Technical specifications         |                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -2/+20 °C                                                                                                                                                                                          |
| Ambient temperature range        | Solid door +10/+43 °C; glass door +10/+38 °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, dry cool function and offset function |
| Material: Interior               | Stainless steel                                                                                                                                                                                    |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                                           |
| Ext. dimensions mm (W x D x H)   | 695 x 876 x 2025/2275                                                                                                                                                                              |
| Net weight                       | Unpackaged net weight without optional fittings: 152 kg                                                                                                                                            |
| Gross volume                     | 660 litres/23.3 cubic feet                                                                                                                                                                         |
| Net volume                       | 484 litres/17.0 cubic feet                                                                                                                                                                         |
| Modules for shelves and drawers  | 27 (see page 68)                                                                                                                                                                                   |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                                           |
| K-Value                          | Solid door 0.31 W/m²K; glass door 0.45 W/m²K                                                                                                                                                       |
| Refrigerant                      | R290                                                                                                                                                                                               |
| CO <sub>2</sub> e                | -                                                                                                                                                                                                  |
| Refrigeration capacity at -10 °C | R290 389 watt                                                                                                                                                                                      |
| Energy consumption               | 1.18 kWh/24h (see page 64)                                                                                                                                                                         |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                                       |
| Sound level                      | 45.9 dB(A)                                                                                                                                                                                         |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                                    |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                                   |

Price (white)

€ 6,040

Price (stainless steel)

€ 6,290

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer with length and cross dividers | € 185 |
| R     | BioLine stainless steel drawer 30 kg                    | € 185 |
| S     | BioLine stainless steel drawer 40 kg                    | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set)    | € 70  |
| P     | BioLine perforated shelf in stainless steel             | € 90  |
| T     | BioLine wire shelf in stainless steel                   | € 65  |
| N     | BioLine wire shelf with plastic coating                 | € 45  |
| 11    | Glass door                                              | € 290 |
| 70    | Draught shields (set of 3 inner doors)*                 | € 435 |
| 50    | Chart recorder                                          | € 735 |
| 81    | Low-temperature protection                              | € 150 |
| 69    | DIN kit 13277                                           | € 185 |
| V     | Reference container                                     | € 35  |
|       | Legs, wheels or for mounting on a plinth**              | € 0   |
| 31    | Castors, 360° swivel                                    | € 50  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 98    | 9 Point temperature mapping                             | € 430 |

Option codes

\* Cannot be combined with BioLine wire shelf with plastic coating or aluminium drawers

\*\* See page 71





# BioPlus RF660D

❄️ -25 °C



II 3G Ex nA nC nL IIB T2 Gc



## Technical specifications

|                                  |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+43 °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               | Stainless steel                                                                                                                                                                 |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 695 x 876 x 2025/2275                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 152 kg                                                                                                                         |
| Gross volume                     | 660 litres/23.3 cubic feet                                                                                                                                                      |
| Net volume                       | 484 litres/17.0 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 27 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                |                                                                                                                                                                                 |
| Refrigeration capacity at -25 °C | R290 512 watt                                                                                                                                                                   |
| Energy consumption               | 4.23 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 45.6 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 6,610

Price (stainless steel)

€ 6,860

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| R     | BioLine stainless steel drawer 30 kg                 | € 185 |
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| T     | BioLine wire shelf in stainless steel                | € 65  |
| N     | BioLine wire shelf with plastic coating              | € 45  |
| 70    | Draught shields (set of 3 inner doors)*              | € 435 |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
|       | Legs, wheels or for mounting on a plinth**           | € 0   |
| 31    | Castors, 360° swivel                                 | € 50  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* Cannot be combined with BioLine wire shelf with plastic coating

\*\* See page 71



# BioPlus ER660W



II 3G Ex nA nC nL IIB T2 Gc



| Technical specifications         |                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -2/+20 °C                                                                                                                                                                                          |
| Ambient temperature range        | Solid door +10/+43 °C; glass door +10/+38 °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, dry cool function and offset function |
| Material: Interior<br>Exterior   | Stainless steel<br>White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 815 x 756 x 2025/2275                                                                                                                                                                              |
| Net weight                       | Unpackaged net weight without optional fittings: 152 kg                                                                                                                                            |
| Gross volume                     | 660 litres/23.3 cubic feet                                                                                                                                                                         |
| Net volume                       | 484 litres/17.0 cubic feet                                                                                                                                                                         |
| Modules for shelves and drawers  | 27 (see page 68)                                                                                                                                                                                   |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                                           |
| K-Value                          | Solid door 0.31 W/m²K; glass door 0.49 W/m²K                                                                                                                                                       |
| Refrigerant                      | R290                                                                                                                                                                                               |
| CO <sub>2</sub> e                | -                                                                                                                                                                                                  |
| Refrigeration capacity at -10 °C | R290 389 watt                                                                                                                                                                                      |
| Energy consumption               | 1.28 kWh/24h (see page 64)                                                                                                                                                                         |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                                       |
| Sound level                      | 44.8 dB(A)                                                                                                                                                                                         |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                                    |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                                   |

Price (white)  
€ 6,040

Price (stainless steel)  
€ 6,290

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer with length and cross dividers | € 185 |
| R     | BioLine stainless steel drawer 30 kg                    | € 185 |
| S     | BioLine stainless steel drawer 40 kg                    | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set)    | € 70  |
| P     | BioLine perforated shelf in stainless steel             | € 90  |
| T     | BioLine wire shelf in stainless steel                   | € 65  |
| N     | BioLine wire shelf with plastic coating                 | € 45  |
| 11    | Glass door                                              | € 290 |
| 70    | Draught shields (set of 3 inner doors)*                 | € 435 |
| 50    | Chart recorder                                          | € 735 |
| 81    | Low-temperature protection                              | € 150 |
| 69    | DIN kit 13277                                           | € 185 |
| V     | Reference container                                     | € 35  |
|       | Legs, wheels or for mounting on a plinth**              | € 0   |
| 31    | Castors, 360° swivel                                    | € 50  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 80    | Dual refrigeration circuit                              | € 735 |
| 98    | 9 Point temperature mapping                             | € 430 |

Option codes

\* Cannot be combined with BioLine wire shelf with plastic coating or aluminium drawers

\*\* See page 72



# BioPlus RF660W

❄️ -25 °C



II 3G Ex nA nC nL IIB T2 Gc



## Technical specifications

|                                  |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+43 °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               | Stainless steel                                                                                                                                                                 |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 815 x 756 x 2025/2275                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 152 kg                                                                                                                         |
| Gross volume                     | 660 litres/23.3 cubic feet                                                                                                                                                      |
| Net volume                       | 484 litres/17.0 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 27 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R290 512 watt                                                                                                                                                                   |
| Energy consumption               | 4.46 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 49.3 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 6,610

Price (stainless steel)

€ 6,860

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| R     | BioLine stainless steel drawer 30 kg                 | € 185 |
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| T     | BioLine wire shelf in stainless steel                | € 65  |
| N     | BioLine wire shelf with plastic coating              | € 45  |
| 70    | Draught shields (set of 3 inner doors)*              | € 435 |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
|       | Legs, wheels or for mounting on a plinth**           | € 0   |
| 31    | Castors, 360° swivel                                 | € 50  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
| 80    | Dual refrigeration circuit                           | € 735 |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* Cannot be combined with BioLine wire shelf with plastic coating

\*\* See page 72



# BioPlus ER930



II 3G Ex nA nC nL IIB T2 Gc



## Technical specifications

|                                  |                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -2/+20 °C                                                                                                                                                                                          |
| Ambient temperature range        | Solid door +10/+43 °C; glass door +10/+38 °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, dry cool function and offset function |
| Material: Interior<br>Exterior   | Stainless steel<br>White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 780 x 1045 x 2025/2275                                                                                                                                                                             |
| Net weight                       | Unpackaged net weight without optional fittings: 165 kg                                                                                                                                            |
| Gross volume                     | 930 litres/32.8 cubic feet                                                                                                                                                                         |
| Net volume                       | 702 litres/24.8 cubic feet                                                                                                                                                                         |
| Modules for shelves and drawers  | 52 (see page 68)                                                                                                                                                                                   |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                                           |
| K-Value                          | Solid door 0.31 W/m²K; glass door 0.45 W/m²K                                                                                                                                                       |
| Refrigerant                      | R290                                                                                                                                                                                               |
| CO <sub>2</sub> e                | -                                                                                                                                                                                                  |
| Refrigeration capacity at -10 °C | R290 627 watt                                                                                                                                                                                      |
| Energy consumption               | 2.10 kWh/24h (see page 64)                                                                                                                                                                         |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                                       |
| Sound level                      | 48.5 dB(A)                                                                                                                                                                                         |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                                    |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                                   |

Price (white)  
€ 6,515

Price (stainless steel)  
€ 6,765

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| T     | BioLine wire shelf in stainless steel                | € 65  |
| 11    | Glass door                                           | € 290 |
| 50    | Chart recorder                                       | € 735 |
| 69    | DIN kit 13277                                        | € 185 |
| 81    | Low-temperature protection                           | € 150 |
| V     | Reference container                                  | € 35  |
|       | Legs, wheels or for mounting on a plinth*            | € 0   |
| 31    | Castors, 360° swivel                                 | € 50  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* See page 72



# BioPlus RF930 <sup>❄</sup> -25 °C



II 3G Ex nA nC nL IIB T2 Gc



## Technical specifications

|                                  |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+43 °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               | Stainless steel                                                                                                                                                                 |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 780 x 1045 x 2025/2275                                                                                                                                                          |
| Net weight                       | Unpackaged net weight without optional fittings: 165 kg                                                                                                                         |
| Gross volume                     | 930 litres/32.8 cubic feet                                                                                                                                                      |
| Net volume                       | 702 litres/24.8 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 52 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R290 931 watt                                                                                                                                                                   |
| Energy consumption               | 6.12 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 49.5 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)  
€ 7,085

Price (stainless steel)  
€ 7,335

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| T     | BioLine wire shelf in stainless steel                | € 65  |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
|       | Legs, wheels or for mounting on a plinth*            | € 0   |
| 31    | Castors, 360° swivel                                 | € 50  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* See page 72



# BioPlus ER1270



II 3G Ex nA nC nL IIB T3 Gc

| Technical specifications         |                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -2/+20 °C                                                                                                                                                                                          |
| Ambient temperature range        | Solid door +10/+43 °C; glass door +10/+38 °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, dry cool function and offset function |
| Material: Interior<br>Exterior   | Stainless steel<br>White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 1390 x 876 x 1875/2125                                                                                                                                                                             |
| Net weight                       | Unpackaged net weight without optional fittings: 271 kg                                                                                                                                            |
| Gross volume                     | 1270 litres/44.8 cubic feet                                                                                                                                                                        |
| Net volume                       | 864 litres/30.6 cubic feet                                                                                                                                                                         |
| Modules for shelves and drawers  | 48 (see page 68)                                                                                                                                                                                   |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                                           |
| K-Value                          | Solid door 0.31 W/m²K; glass door 0.50 W/m²K                                                                                                                                                       |
| Refrigerant                      | R290                                                                                                                                                                                               |
| CO <sub>2</sub> e                | -                                                                                                                                                                                                  |
| Refrigeration capacity at -10 °C | R290 946 watt                                                                                                                                                                                      |
| Energy consumption               | 2.50 kWh/24h (see page 64)                                                                                                                                                                         |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                                       |
| Sound level                      | 48.3 dB(A)                                                                                                                                                                                         |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                                    |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                                   |

Price (white)

€ 8,015

Price (stainless steel)

€ 8,465

## Optional fittings and equipment – product configuration guide on page 4

|    |                                                         |       |
|----|---------------------------------------------------------|-------|
| A  | BioLine aluminium drawer with length and cross dividers | € 185 |
| R  | BioLine stainless steel drawer 30 kg                    | € 185 |
| S  | BioLine stainless steel drawer 40 kg                    | € 250 |
| C  | BioLine dividers for stainless steel drawers (1 set)    | € 70  |
| P  | BioLine perforated shelf in stainless steel             | € 90  |
| T  | BioLine wire shelf in stainless steel                   | € 65  |
| N  | BioLine wire shelf with plastic coating                 | € 45  |
| 11 | Glass door                                              | € 580 |
| 70 | Draught shields (set of 6 inner doors)*                 | € 870 |
| 50 | Chart recorder                                          | € 735 |
| 81 | Low-temperature protection                              | € 150 |
| 69 | DIN kit 13277                                           | € 185 |
| V  | Reference container                                     | € 35  |
|    | Legs, wheels or for mounting on a plinth**              | € 0   |
| 31 | Castors, 360° swivel                                    | € 0   |
| 80 | Dual refrigeration circuit                              | € 735 |
| 98 | 9 Point temperature mapping                             | € 430 |

Option codes

\* Cannot be combined with BioLine wire shelf with plastic coating or aluminium drawers

\*\* See page 73







II 3G Ex nA nC nL IIB T3 Gc

| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+43 °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               | Stainless steel                                                                                                                                                                 |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 1390 x 876 x 1875/2125                                                                                                                                                          |
| Net weight                       | Unpackaged net weight without optional fittings: 271 kg                                                                                                                         |
| Gross volume                     | 1270 litres/44.8 cubic feet                                                                                                                                                     |
| Net volume                       | 864 litres/30.6 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 48 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R290 950 watt                                                                                                                                                                   |
| Energy consumption               | 7.97 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 51 dB(A)                                                                                                                                                                        |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 8,585

Price (stainless steel)

€ 9,035

## Optional fittings and equipment – product configuration guide on page 4

|    |                                                      |       |
|----|------------------------------------------------------|-------|
| R  | BioLine stainless steel drawer 30 kg                 | € 185 |
| S  | BioLine stainless steel drawer 40 kg                 | € 250 |
| C  | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P  | BioLine perforated shelf in stainless steel          | € 90  |
| T  | BioLine wire shelf in stainless steel                | € 65  |
| N  | BioLine wire shelf with plastic coating              | € 45  |
| 70 | Draught shields (set of 6 inner doors)*              | € 870 |
| 50 | Chart recorder                                       | € 735 |
| V  | Reference container                                  | € 35  |
|    | Legs, wheels or for mounting on a plinth**           | € 0   |
| 31 | Castors, 360° swivel                                 | € 0   |
| 80 | Dual refrigeration circuit                           | € 735 |
| 98 | 9 Point temperature mapping                          | € 430 |

Option codes

\* Cannot be combined with Bioline wire shelf with plastic coating

\*\* See page 73



# BioPlus ER1400



II 3G Ex nA nC nL IIB T3 Gc

| Technical specifications         |                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -2/+20 °C                                                                                                                                                                                          |
| Ambient temperature range        | Solid door +10/+43 °C; glass door +10/+38 °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, dry cool function and offset function |
| Material: Interior<br>Exterior   | Stainless steel<br>White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 1390 x 876 x 2025/2275                                                                                                                                                                             |
| Net weight                       | Unpackaged net weight without optional fittings: 283 kg                                                                                                                                            |
| Gross volume                     | 1400 litres/49.4 cubic feet                                                                                                                                                                        |
| Net volume                       | 968 litres/34.0 cubic feet                                                                                                                                                                         |
| Modules for shelves and drawers  | 54 (see page 68)                                                                                                                                                                                   |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                                           |
| K-Value                          | Solid door 0.31 W/m²K; glass door 0.50 W/m²K                                                                                                                                                       |
| Refrigerant                      | R290                                                                                                                                                                                               |
| CO <sub>2</sub> e                | -                                                                                                                                                                                                  |
| Refrigeration capacity at -10 °C | R290 946 watt                                                                                                                                                                                      |
| Energy consumption               | 2.56 kWh/24h (see page 64)                                                                                                                                                                         |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                                       |
| Sound level                      | 47.5 dB(A)                                                                                                                                                                                         |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                                    |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                                   |

Price (white)  
€ 8,215

Price (stainless steel)  
€ 8,665

## Optional fittings and equipment – product configuration guide on page 4

|    |                                                         |       |
|----|---------------------------------------------------------|-------|
| A  | BioLine aluminium drawer with length and cross dividers | € 185 |
| R  | BioLine stainless steel drawer 30 kg                    | € 185 |
| S  | BioLine stainless steel drawer 40 kg                    | € 250 |
| C  | BioLine dividers for stainless steel drawers (1 set)    | € 70  |
| P  | BioLine perforated shelf in stainless steel             | € 90  |
| T  | BioLine wire shelf in stainless steel                   | € 65  |
| N  | BioLine wire shelf with plastic coating                 | € 45  |
| 11 | Glass door                                              | € 580 |
| 70 | Draught shields (set of 6 inner doors)*                 | € 870 |
| 50 | Chart recorder                                          | € 735 |
| 81 | Low-temperature protection                              | € 150 |
| 69 | DIN kit 13277                                           | € 185 |
| V  | Reference container                                     | € 35  |
|    | Legs, wheels or for mounting on a plinth**              | € 0   |
| 31 | Castors, 360° swivel                                    | € 0   |
| 80 | Dual refrigeration circuit                              | € 735 |
| 98 | 9 Point temperature mapping                             | € 430 |

Option codes

\* Cannot be combined with BioLine wire shelf with plastic coating or aluminium drawers

\*\* See page 73





II 3G Ex nA nC nL IIB T3 Gc

| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+43 °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               | Stainless steel                                                                                                                                                                 |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 1390 x 876 x 2025/2275                                                                                                                                                          |
| Net weight                       | Unpackaged net weight without optional fittings: 283 kg                                                                                                                         |
| Gross volume                     | 1400 litres/49.4 cubic feet                                                                                                                                                     |
| Net volume                       | 968 litres/34.0 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 54 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R290 950 watt                                                                                                                                                                   |
| Energy consumption               | 8.39 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 46.6 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)  
€ 8,785

Price (stainless steel)  
€ 9,235

## Optional fittings and equipment – product configuration guide on page 4

|    |                                                      |       |
|----|------------------------------------------------------|-------|
| R  | BioLine stainless steel drawer 30 kg                 | € 185 |
| S  | BioLine stainless steel drawer 40 kg                 | € 250 |
| C  | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P  | BioLine perforated shelf in stainless steel          | € 90  |
| T  | BioLine wire shelf in stainless steel                | € 65  |
| N  | BioLine wire shelf with plastic coating              | € 45  |
| 70 | Draught shields (set of 6 inner doors)*              | € 870 |
| 50 | Chart recorder                                       | € 735 |
| V  | Reference container                                  | € 35  |
|    | Legs, wheels or for mounting on a plinth**           | € 0   |
| 31 | Castors, 360° swivel                                 | € 0   |
| 80 | Dual refrigeration circuit                           | € 735 |
| 98 | 9 Point temperature mapping                          | € 430 |

Option codes

\* Cannot be combined with Bioline wire shelf with plastic coating

\*\* See page 73





II 3G Ex nA nC nL IIB T2 Gc



## Technical specifications

|                                  |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -35/-5 °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<br>Exterior   | Stainless steel and inner doors in PMMA<br>White lacquered steel or stainless steel                                                                                             |
| Ext. dimensions mm (W x D x H)   | 837 x 756 x 1875/2125                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 146 kg                                                                                                                         |
| Gross volume                     | 600 litres/21.2 cubic feet                                                                                                                                                      |
| Net volume                       | 432 litres/15.3 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 24 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -40 °C | R290 244 watt                                                                                                                                                                   |
| Energy consumption               | 8.86 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 55.3 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)  
€ 7,210

Price (stainless steel)  
€ 7,460

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| R     | BioLine stainless steel drawer 30 kg                 | € 185 |
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| TTT   | BioLine wire shelf in stainless steel                | € 65  |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
|       | Legs, wheels or for mounting on a plinth*            | € 0   |
| 31    | Castors, 360° swivel                                 | € 50  |
| 80    | Dual refrigeration circuit                           | € 735 |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* See page 72





II 3G Ex nA nC nL IIB T2 Gc



## Technical specifications

|                                  |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -35/-5 °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<br>Exterior   | Stainless steel and inner doors in PMMA<br>White lacquered steel or stainless steel                                                                                             |
| Ext. dimensions mm (W x D x H)   | 837 x 756 x 2025/2275                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 152 kg                                                                                                                         |
| Gross volume                     | 660 litres/23.3 cubic feet                                                                                                                                                      |
| Net volume                       | 484 litres/17.0 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 27 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -40 °C | R290 244 watt                                                                                                                                                                   |
| Energy consumption               | 9.02 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 55.3 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 7,360

Price (stainless steel)

€ 7,610

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| R     | BioLine stainless steel drawer 30 kg                 | € 185 |
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| TTT   | BioLine wire shelf in stainless steel                | € 65  |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
|       | Legs, wheels or for mounting on a plinth*            | € 0   |
| 31    | Castors, 360° swivel                                 | € 50  |
| 80    | Dual refrigeration circuit                           | € 735 |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* See page 72



## Introducing **BioMidi**



The BioMidi cabinet is designed to meet the majority of biomaterial refrigeration and freezer requirements, with very few limitations. The specifications include the major features from our top-of-the-range BioPlus model, making it the ideal choice when the ability to maintain stable temperatures is decisive in a purchasing decision.

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

Available with capacities of 425 or 625 litres and in two different sizes, with white or stainless steel finish.

### BioMidi refrigerators

|    |                       |           |
|----|-----------------------|-----------|
| RR | Regular refrigeration | +2/+20 °C |
|----|-----------------------|-----------|

### BioMidi freezers

|    |                  |           |
|----|------------------|-----------|
| RF | Regular freezer  | -25/-5 °C |
| EF | Extended freezer | -40/-5 °C |



The user interface consists of large, easy to use buttons and an easy-to-read LED display. This helps make sure that adjusting cabinet settings is always a rapid, straightforward procedure.



Draught shield that minimizes cold loss when the outer door is opened is standard on the EF425 and optional extras to the other BioMidi variants.



Mounting the compressor in the base of the cabinet puts the interior space at an ideal working height, ensuring users better ergonomic positions and comfortable working heights.



# BioMidi



## Acoustic and visual alarm

- provides clear notification if either maximum or minimum permitted temperature is reached.
- A door alarm is also fitted. All alarm parameters are set separately.

## Alarm recording

- and Hi/Low temperature read out.

## Voltage-free contact

- for IT networks, monitoring systems and/or remote alarms.

## Smart defrost

- smart automatic defrosting system with re-evaporation of the defrost water.

## Extra Sensor

- "E-sensor" for temperature reference in the storage compartment. The E-sensor can be combined with a reference container.

## Interior fittings

- a wide range of versatile interior fittings and layouts are available. The operating specifications and the interior layout can both be customised.

## Exterior finish

- made of white lacquered steel or stainless steel.

## Interior finish

- made of aluminium/stainless steel or stainless steel.

## Gram BioLine ventilated air circulation system

- featuring a special distributor plate that ensures consistent temperatures everywhere in the cabinet.

## Self-closing

- solid door as standard or well-insulated glass door as an optional extra for refrigerators (RR models).

## ATEX

- the Gram BioLine range of biostorage cabinets provides you with full ATEX compliance – both internal and external.

## Access port

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

## Door lock

- for avoiding unintended entry.

## High-capacity refrigeration unit

- makes sure the interior quickly returns to the specified temperature after the door has been opened.

## The base

- is fitted with lockable recessed wheels.

# BioMidi RR425



II 3G Ex nA nC nL IIB T5 Gc



| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | +2/+20 °C                                                                                                                                                                       |
| Ambient temperature range        | Solid door +10/+43 °C; glass door +10/+38 °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*              | Aluminium/stainless steel or stainless steel                                                                                                                                    |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 600 x 731 x 1980/2000                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 112 kg                                                                                                                         |
| Gross volume                     | 425 litres/15.0 cubic feet                                                                                                                                                      |
| Net volume                       | 303 litres/10.7 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 25 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K; glass door 0.47 W/m²K                                                                                                                                    |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -10 °C | R290 389 watt                                                                                                                                                                   |
| Energy consumption               | 1.27 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 47.2 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 4,110

Price (stainless steel)

€ 4,610

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer with length and cross dividers | € 185 |
| R     | BioLine stainless steel drawer 30 kg                    | € 185 |
| S     | BioLine stainless steel drawer 40 kg                    | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set)    | € 70  |
| P     | BioLine perforated shelf in stainless steel             | € 90  |
| T     | BioLine wire shelf in stainless steel                   | € 65  |
| N     | BioLine wire shelf with plastic coating                 | € 45  |
| 11    | Glass door                                              | € 290 |
| 70    | Draught shields (set of 3 inner doors)**                | € 435 |
| 50    | Chart recorder                                          | € 735 |
| 81    | Low-temperature protection                              | € 150 |
| 69    | DIN kit 13277                                           | € 185 |
| V     | Reference container                                     | € 35  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 84    | Sound reduction kit                                     | € 185 |
| 98    | 9 Point temperature mapping                             | € 430 |

Option codes

\* White version comes with internal sides in aluminium and bottom and backside of door in stainless steel.  
Stainless versions comes as all stainless

\*\* Cannot be combined with BioLine wire shelf with plastic coating or aluminium drawers



# BioMidi RF425 <sup>❄</sup> -25 °C



II 3G Ex nA nC nL IIB T3 Gc



| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+43 °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*              | Aluminium/stainless steel or stainless steel                                                                                                                                    |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 600 x 731 x 1980/2000                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 112 kg                                                                                                                         |
| Gross volume                     | 425 litres/15.0 cubic feet                                                                                                                                                      |
| Net volume                       | 303 litres/10.7 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 25 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R290 374 watt                                                                                                                                                                   |
| Energy consumption               | 3.61 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 46.3 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)  
€ 4,710

Price (stainless steel)  
€ 5,210

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| R     | BioLine stainless steel drawer 30 kg                 | € 185 |
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| T     | BioLine wire shelf in stainless steel                | € 65  |
| N     | BioLine wire shelf with plastic coating              | € 45  |
| 70    | Draught shields (set of 3 inner doors)**             | € 435 |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
| 84    | Sound reduction kit                                  | € 185 |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* White version comes with internal sides in aluminium and bottom and backside of door in stainless steel. Stainless versions comes as all stainless

\*\* Cannot be combined with Bioline wire shelf with plastic coating



# BioMidi RR625



II 3G Ex nA nC nL IIB T5 Gc



## Technical specifications

|                                  |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | +2/+20 °C                                                                                                                                                                       |
| Ambient temperature range        | Solid door +10/+43 °C; glass door +10/+38 °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*              | Aluminium/stainless steel or stainless steel                                                                                                                                    |
| Exterior                         | White lacquered steel or stainless steel                                                                                                                                        |
| Ext. dimensions mm (W x D x H)   | 815 x 731 x 1980/2000                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 152 kg                                                                                                                         |
| Gross volume                     | 625 litres/22.1 cubic feet                                                                                                                                                      |
| Net volume                       | 451 litres/15.9 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 25 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K; glass door 0.49 W/m²K                                                                                                                                    |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -10 °C | R290 389 watt                                                                                                                                                                   |
| Energy consumption               | 1.30 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 46.6 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 4,580

Price (stainless steel)

€ 5,080

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer with length and cross dividers | € 185 |
| R     | BioLine stainless steel drawer 30 kg                    | € 185 |
| S     | BioLine stainless steel drawer 40 kg                    | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set)    | € 70  |
| P     | BioLine perforated shelf in stainless steel             | € 90  |
| T     | BioLine wire shelf in stainless steel                   | € 65  |
| N     | BioLine wire shelf with plastic coating                 | € 45  |
| 11    | Glass door                                              | € 290 |
| 70    | Draught shields (set of 3 inner doors)**                | € 435 |
| 50    | Chart recorder                                          | € 735 |
| 81    | Low-temperature protection                              | € 150 |
| 69    | DIN kit 13277                                           | € 185 |
| V     | Reference container                                     | € 35  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 84    | Sound reduction kit                                     | € 185 |
| 98    | 9 Point temperature mapping                             | € 430 |

Option codes

\* White version comes with internal sides in aluminium and bottom and backside of door in stainless steel.  
Stainless versions comes as all stainless.

\*\* Cannot be combined with BioLine wire shelf with plastic coating or aluminium drawers



# BioMidi RF625 <sup>❄</sup> -25 °C



II 3G Ex nA nC nL IIB T2 Gc

| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+43 °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*<br>Exterior  | Aluminium/stainless steel or stainless steel<br>White lacquered steel or stainless steel                                                                                        |
| Ext. dimensions mm (W x D x H)   | 815 x 731 x 1980/2000                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 152 kg                                                                                                                         |
| Gross volume                     | 625 litres/22.1 cubic feet                                                                                                                                                      |
| Net volume                       | 451 litres/15.9 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 25 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R290 512 watt                                                                                                                                                                   |
| Energy consumption               | 4.03 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 48.4 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)  
€ 5,180

Price (stainless steel)  
€ 5,680

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| R     | BioLine stainless steel drawer 30 kg                 | € 185 |
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| T     | BioLine wire shelf in stainless steel                | € 65  |
| N     | BioLine wire shelf with plastic coating              | € 45  |
| 70    | Draught shields (set of 3 inner doors)**             | € 435 |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
| 84    | Sound reduction kit                                  | € 185 |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* White version comes with internal sides in aluminium and bottom and backside of door in stainless steel.  
Stainless versions comes as all stainless

\*\* Cannot be combined with Bioline wire shelf with plastic coating



# BioMidi EF425 <sup>\*</sup> -40 °C



II 3G Ex nA nC nL IIB T3 Gc



| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -40/-5 °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*<br>Exterior  | Aluminium/stainless steel or stainless steel and inner doors in PMMA<br>White lacquered steel or stainless steel                                                                |
| Ext. dimensions mm (W x D x H)   | 622 x 731 x 1980/2000                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 112 kg                                                                                                                         |
| Gross volume                     | 425 litres/15.0 cubic feet                                                                                                                                                      |
| Net volume                       | 303 litres/10.7 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 25 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -40 °C | R290 396 watt                                                                                                                                                                   |
| Energy consumption               | 8.93 kWh/24h (see page 65)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 57.8 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 5,485

Price (stainless steel)

€ 5,985

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| R     | BioLine stainless steel drawer 30 kg                 | € 185 |
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| TTT   | BioLine wire shelf in stainless steel                | € 65  |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
| 84    | Sound reduction kit                                  | € 185 |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* White version comes with internal sides in aluminium and bottom and backside of door in stainless steel. Stainless versions comes as all stainless.







## Introducing BioCompact II



Available with capacities of 125, 218, 346 and 583 litres with either white or stainless steel finish.

This is a compact refrigerator or freezer cabinet for a wide range of biostorage purposes where the prime focus is on dependability. The BioCompact II provides you with significantly better performance than any other cabinets in this segment for storing ordinary biomaterial under stable conditions.

If you need to store different biomaterials at different times, this design gives 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.

### BioCompact II refrigerators

|    |                       |           |
|----|-----------------------|-----------|
| RR | Regular refrigeration | +2/+20 °C |
|----|-----------------------|-----------|

### BioCompact II freezers

|    |                 |           |
|----|-----------------|-----------|
| RF | Regular freezer | -25/-5 °C |
|----|-----------------|-----------|



Gram MPC 4.6 control unit with temperature and door alarms and voltage-free contact.



Extra sensor for providing a temperature reference within the storage is standard on all BioCompact II variants.



The refrigeration system based on a finned tube evaporator provides even better temperature stability and results in a storage place with no cold walls that can damage any delicate items stored in the cabinet.

# BioCompact II



## Alarm recording

– and Hi/Low temperature read out.

## Acoustic and visual alarm

– provides clear notification if either maximum or minimum permitted temperature is reached. A door alarm is also fitted. All alarm parameters are set separately.

## Voltage-free contact

– for IT networks, monitoring systems and/or remote alarms.

## Smart defrost

– smart automatic defrosting system with re-evaporation of the defrost water.

## Extra Sensor

– "E-sensor" for temperature reference in the storage compartment. The E-sensor can be combined with a reference container.

## High-capacity refrigeration unit

– makes sure the interior quickly returns to the specified temperature after the door has been opened.

## Exterior finish

– made of white lacquered steel or stainless steel finish.

## Interior finish

– made of a durable one-piece moulded Polystyrene inner lining with U-shaped rails in the walls for mounting of shelves and drawers.

## Door lock

– for avoiding unintended entry.

## Gram BioLine ventilated air circulation system

– featuring a special distributor plate that ensures consistent temperatures everywhere in the cabinet.

## Self-closing

– solid door as standard or well-insulated glass door with LED light as an optional extra for refrigerators (RR models).

## ATEX

– the Gram BioLine range of biostorage cabinets provides you with full ATEX compliance – both internal and external.

## Access port

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

## Interior fittings

– a wide range of versatile interior fittings and layouts are available. The operating specifications and the interior layout can both be customised.

## The base

– can be fitted with castors or feet, or for mounting on a plinth.



## Optional extra

Practical pedal door opener.



See page 7

# BioCompact II RR210



II 3G Ex ec nC ic IIB T6 Gc

DTI 22ATEX0251X



| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | +2/+20 °C                                                                                                                                                                       |
| Ambient temperature range        | Solid door +10/+35 °C; glass door +10/+32 °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               | PS lining                                                                                                                                                                       |
| Exterior                         | White lacquered steel or stainless steel finish                                                                                                                                 |
| Ext. dimensions mm (W x D x H)   | 595 x 640 x 801/1001                                                                                                                                                            |
| Net weight                       | Unpackaged net weight without optional fittings: 46 kg                                                                                                                          |
| Gross volume                     | 125 litres/4.4 cubic feet                                                                                                                                                       |
| Net volume                       | 104 litres/3.7 cubic feet                                                                                                                                                       |
| Modules for shelves and drawers  | 4 x 430 mm + 3 x 300 mm (see page 68)                                                                                                                                           |
| Insulation                       | 50 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.35 W/m²K; glass door 0.51 W/m²K                                                                                                                                    |
| Refrigerant                      | R600a                                                                                                                                                                           |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -10 °C | R600a 154 watt                                                                                                                                                                  |
| Energy consumption               | 0.43 kWh/24h (see page 66)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 33.3 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 2,205

Price (stainless steel)

€ 2,315

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer (length/cross dividers) 420 mm | € 185 |
| AA    | BioLine aluminium drawer (length/cross dividers) 300 mm | € 175 |
| E     | BioLine ABS drawer (length/cross dividers) 420 mm       | € 95  |
| P     | BioLine perforated shelf in stainless steel 430 mm      | € 80  |
| PP    | BioLine perforated shelf in stainless steel 300 mm      | € 75  |
| T     | BioLine wire shelf in stainless steel 430 mm            | € 60  |
| TT    | BioLine wire shelf in stainless steel 300 mm            | € 55  |
| W     | BioLine wire shelf with plastic coating 430 mm          | € 30  |
| WW    | BioLine wire shelf with plastic coating 300 mm          | € 25  |
| M     | BioLine wire basket with plastic coating 430 mm         | € 55  |
| MM    | BioLine wire basket with plastic coating 300 mm         | € 50  |
| 11    | Glass door with LED light                               | € 210 |
| 81    | Low-temperature protection                              | € 150 |
| 69    | DIN kit 13277                                           | € 185 |
| V     | Reference container                                     | € 35  |
|       | Legs, wheels*                                           | € 100 |
| 31    | Castors, 360° swivel                                    | € 150 |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 91    | Wall mounting                                           | € 200 |
| 50    | Chart recorder                                          | € 735 |
|       | Combination kit for 210/310                             | € 125 |
| 98    | 9 Point temperature mapping                             | € 430 |

Option codes

\* See page 74



# BioCompact II RF210

 -25 °C



II 3G Ex ec nC ic IIB T3 Gc

DTI 22ATEX0251X



## Technical specifications

|                                  |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+35 °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<br>Exterior   | PS lining<br>White lacquered steel or stainless steel finish                                                                                                                    |
| Ext. dimensions mm (W x D x H)   | 595 x 640 x 801/1001                                                                                                                                                            |
| Net weight                       | Unpackaged net weight without optional fittings: 46 kg                                                                                                                          |
| Gross volume                     | 125 litres/4.4 cubic feet                                                                                                                                                       |
| Net volume                       | 104 litres/3.7 cubic feet                                                                                                                                                       |
| Modules for shelves and drawers  | 4 x 430 mm + 3 x 300 mm (see page 68)                                                                                                                                           |
| Insulation                       | 50 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.35 W/m²K                                                                                                                                                           |
| Refrigerant                      | R600a                                                                                                                                                                           |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R600a 156 watt                                                                                                                                                                  |
| Energy consumption               | 1.47 kWh/24h (see page 66)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 37.7 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 2,320

Price (stainless steel)

€ 2,430

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer (length/cross dividers) 420 mm | € 185 |
| AA    | BioLine aluminium drawer (length/cross dividers) 300 mm | € 175 |
| E     | BioLine ABS drawer (length/cross dividers) 420 mm       | € 95  |
| P     | BioLine perforated shelf in stainless steel 430 mm      | € 80  |
| PP    | BioLine perforated shelf in stainless steel 300 mm      | € 75  |
| T     | BioLine wire shelf in stainless steel 430 mm            | € 60  |
| TT    | BioLine wire shelf in stainless steel 300 mm            | € 55  |
| W     | BioLine wire shelf with plastic coating 430 mm          | € 30  |
| WW    | BioLine wire shelf with plastic coating 300 mm          | € 25  |
| M     | BioLine wire basket with plastic coating 430 mm         | € 55  |
| MM    | BioLine wire basket with plastic coating 300 mm         | € 50  |
| V     | Reference container                                     | € 35  |
|       | Legs, wheels*                                           | € 100 |
| 31    | Castors, 360° swivel                                    | € 150 |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 91    | Wall mounting                                           | € 200 |
| 50    | Chart recorder                                          | € 735 |
|       | Combination kit for 210/310                             | € 125 |
| 98    | 9 Point temperature mapping                             | € 430 |

 Option codes

\* See page 74



*The BioCompact II provides you with significantly better performance than any other cabinets in this segment for storing ordinary biomaterial under stable conditions*



# BioCompact II RR310



II 3G Ex ec nC ic IIB T6 Gc

DTI 22ATEX0251X



| Technical specifications         |                                                                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | +2/+20 °C                                                                                                                                                                                        |
| Ambient temperature range        | Solid door +10/+35 °C; glass door +10/+32 °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 hi/low function, and offset function |
| Material: Interior<br>Exterior   | PS lining<br>White lacquered steel or stainless steel finish                                                                                                                                     |
| Ext. dimensions mm (W x D x H)   | 595 x 640 x 1190/1390                                                                                                                                                                            |
| Net weight                       | Unpackaged net weight without optional fittings: 55 kg                                                                                                                                           |
| Gross volume                     | 218 litres/7.8 cubic feet                                                                                                                                                                        |
| Net volume                       | 189 litres/6.7 cubic feet                                                                                                                                                                        |
| Modules for shelves and drawers  | 11 x 430 mm + 3 x 300 mm (see page 68)                                                                                                                                                           |
| Insulation                       | 50 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                                         |
| K-Value                          | Solid door 0.35 W/m²K; glass door 0.50 W/m²K                                                                                                                                                     |
| Refrigerant                      | R600a                                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                                                |
| Refrigeration capacity at -10 °C | R600a 154 watt                                                                                                                                                                                   |
| Energy consumption               | 0.51 kWh/24h (see page 66)                                                                                                                                                                       |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                                     |
| Sound level                      | 34.1 dB(A)                                                                                                                                                                                       |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                                  |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                                 |

Price (white)

€ 2,370

Price (stainless steel)

€ 2,480

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer (length/cross dividers) 420 mm | € 185 |
| AA    | BioLine aluminium drawer (length/cross dividers) 300 mm | € 175 |
| E     | BioLine ABS drawer (length/cross dividers) 420 mm       | € 95  |
| P     | BioLine perforated shelf in stainless steel 430 mm      | € 80  |
| PP    | BioLine perforated shelf in stainless steel 300 mm      | € 75  |
| T     | BioLine wire shelf in stainless steel 430 mm            | € 60  |
| TT    | BioLine wire shelf in stainless steel 300 mm            | € 55  |
| W     | BioLine wire shelf with plastic coating 430 mm          | € 30  |
| WW    | BioLine wire shelf with plastic coating 300 mm          | € 25  |
| M     | BioLine wire basket with plastic coating 430 mm         | € 55  |
| MM    | BioLine wire basket with plastic coating 300 mm         | € 50  |
| 11    | Glass door with LED light                               | € 210 |
| 81    | Low-temperature protection                              | € 150 |
| 69    | DIN kit 13277                                           | € 185 |
| V     | Reference container                                     | € 35  |
|       | Legs, wheels*                                           | € 100 |
| 31    | Castors, 360° swivel                                    | € 150 |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 91    | Wall mounting                                           | € 200 |
| 50    | Chart recorder                                          | € 735 |
|       | Combination kit for 210/310                             | € 125 |
| 98    | 9 Point temperature mapping                             | € 430 |

Option codes

\* See page 74



# BioCompact II RF310

 -25 °C



II 3G Ex ec nC ic IIB T3 Gc

DTI 22ATEX0251X



| Technical specifications         |                                                                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                                        |
| Ambient temperature range        | +10/+35 °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 hi/low function, and offset function |
| Material: Interior               | PS lining                                                                                                                                                                                        |
| Exterior                         | White lacquered steel or stainless steel finish                                                                                                                                                  |
| Ext. dimensions mm (W x D x H)   | 595 x 640 x 1190/1390                                                                                                                                                                            |
| Net weight                       | Unpackaged net weight without optional fittings: 55 kg                                                                                                                                           |
| Gross volume                     | 218 litres/7.8 cubic feet                                                                                                                                                                        |
| Net volume                       | 189 litres/6.7 cubic feet                                                                                                                                                                        |
| Modules for shelves and drawers  | 11 x 430 mm + 3 x 300 mm (see page 68)                                                                                                                                                           |
| Insulation                       | 50 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                                         |
| K-Value                          | Solid door 0.35 W/m²K                                                                                                                                                                            |
| Refrigerant                      | R600a                                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                                                |
| Refrigeration capacity at -25 °C | R600a 204 watt                                                                                                                                                                                   |
| Energy consumption               | 1.56 kWh/24h (see page 66)                                                                                                                                                                       |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                                     |
| Sound level                      | 37.8 dB(A)                                                                                                                                                                                       |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                                  |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                                 |

Price (white)

€ 2,485

Price (stainless steel)

€ 2,595

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer (length/cross dividers) 420 mm | € 185 |
| AA    | BioLine aluminium drawer (length/cross dividers) 300 mm | € 175 |
| E     | BioLine ABS drawer (length/cross dividers) 420 mm       | € 95  |
| P     | BioLine perforated shelf in stainless steel 430 mm      | € 80  |
| PP    | BioLine perforated shelf in stainless steel 300 mm      | € 75  |
| T     | BioLine wire shelf in stainless steel 430 mm            | € 60  |
| TT    | BioLine wire shelf in stainless steel 300 mm            | € 55  |
| W     | BioLine wire shelf with plastic coating 430 mm          | € 30  |
| WW    | BioLine wire shelf with plastic coating 300 mm          | € 25  |
| M     | BioLine wire basket with plastic coating 430 mm         | € 55  |
| MM    | BioLine wire basket with plastic coating 300 mm         | € 50  |
| V     | Reference container                                     | € 35  |
|       | Legs, wheels*                                           | € 100 |
| 31    | Castors, 360° swivel                                    | € 150 |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 91    | Wall mounting                                           | € 200 |
| 50    | Chart recorder                                          | € 735 |
|       | Combination kit for 210/310                             | € 125 |
| 98    | 9 Point temperature mapping                             | € 430 |

 Option codes

\* See page 74





# BioCompact II RR410



II 3G Ex ec nC ic IIB T6 Gc

DTI 22ATEX0251X



| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | +2/+20 °C                                                                                                                                                                       |
| Ambient temperature range        | Solid door +10/+35 °C; glass door +10/+32 °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<br>Exterior   | PS lining<br>White lacquered steel or stainless steel finish                                                                                                                    |
| Ext. dimensions mm (W x D x H)   | 595 x 640 x 1776/1976                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 78 kg                                                                                                                          |
| Gross volume                     | 346 litres/12.3 cubic feet                                                                                                                                                      |
| Net volume                       | 312 litres/11.1 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 22 x 430 mm + 3 x 300 mm (see page 68)                                                                                                                                          |
| Insulation                       | 50 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.35 W/m²K; glass door 0.53 W/m²K                                                                                                                                    |
| Refrigerant                      | R600a                                                                                                                                                                           |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -10 °C | R600a 207 watt                                                                                                                                                                  |
| Energy consumption               | 0.59 kWh/24h (see page 66)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 33.2 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 2,535

Price (stainless steel)

€ 2,645

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer (length/cross dividers) 420 mm | € 185 |
| AA    | BioLine aluminium drawer (length/cross dividers) 300 mm | € 175 |
| E     | BioLine ABS drawer (length/cross dividers) 420 mm       | € 95  |
| P     | BioLine perforated shelf in stainless steel 430 mm      | € 80  |
| PP    | BioLine perforated shelf in stainless steel 300 mm      | € 75  |
| T     | BioLine wire shelf in stainless steel 430 mm            | € 60  |
| TT    | BioLine wire shelf in stainless steel 300 mm            | € 55  |
| W     | BioLine wire shelf with plastic coating 430 mm          | € 30  |
| WW    | BioLine wire shelf with plastic coating 300 mm          | € 25  |
| M     | BioLine wire basket with plastic coating 430 mm         | € 55  |
| MM    | BioLine wire basket with plastic coating 300 mm         | € 50  |
| 11    | Glass door with LED light                               | € 210 |
| 81    | Low-temperature protection                              | € 150 |
| 69    | DIN kit 13277                                           | € 185 |
| V     | Reference container                                     | € 35  |
|       | Legs, wheels*                                           | € 0   |
| 31    | Castors, 360° swivel                                    | € 50  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 91    | Wall mounting                                           | € 200 |
| 50    | Chart recorder                                          | € 735 |
|       | Pedal door opener                                       | € 120 |
| 98    | 9 Point temperature mapping                             | € 430 |

Option codes

\* See page 76



# BioCompact II RF410

 -25 °C



II 3G Ex ec nC ic IIB T3 Gc

DTI 22ATEX0251X



| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+35 °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               | PS lining                                                                                                                                                                       |
| Exterior                         | White lacquered steel or stainless steel finish                                                                                                                                 |
| Ext. dimensions mm (W x D x H)   | 595 x 640 x 1776/1976                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 78 kg                                                                                                                          |
| Gross volume                     | 346 litres/12.3 cubic feet                                                                                                                                                      |
| Net volume                       | 312 litres/11.1 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 22 x 430 mm + 3 x 300 mm (see page 68)                                                                                                                                          |
| Insulation                       | 50 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.35 W/m²K                                                                                                                                                           |
| Refrigerant                      | R600a                                                                                                                                                                           |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R600a 204 watt                                                                                                                                                                  |
| Energy consumption               | 2.06 kWh/24h (see page 66)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 36.6 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 2,650

Price (stainless steel)

€ 2,760

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer (length/cross dividers) 420 mm | € 185 |
| AA    | BioLine aluminium drawer (length/cross dividers) 300 mm | € 175 |
| E     | BioLine ABS drawer (length/cross dividers) 420 mm       | € 95  |
| P     | BioLine perforated shelf in stainless steel 430 mm      | € 80  |
| PP    | BioLine perforated shelf in stainless steel 300 mm      | € 75  |
| T     | BioLine wire shelf in stainless steel 430 mm            | € 60  |
| TT    | BioLine wire shelf in stainless steel 300 mm            | € 55  |
| W     | BioLine wire shelf with plastic coating 430 mm          | € 30  |
| WW    | BioLine wire shelf with plastic coating 300 mm          | € 25  |
| M     | BioLine wire basket with plastic coating 430 mm         | € 55  |
| MM    | BioLine wire basket with plastic coating 300 mm         | € 50  |
| V     | Reference container                                     | € 35  |
|       | Legs, wheels*                                           | € 0   |
| 31    | Castors, 360° swivel                                    | € 50  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 91    | Wall mounting                                           | € 200 |
| 50    | Chart recorder                                          | € 735 |
|       | Pedal door opener                                       | € 120 |
| 98    | 9 Point temperature mapping                             | € 430 |

 Option codes

\* See page 76



# BioCompact II RR610



II 3G Ex nA nC nL IIB T6 Gc



| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | +2/+20 °C                                                                                                                                                                       |
| Ambient temperature range        | Solid door +10/+43 °C; Glass door +10/+38 °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<br>Exterior   | PS lining with wall rails in stainless steel<br>White lacquered steel or stainless steel finish                                                                                 |
| Ext. dimensions mm (W x D x H)   | 695 x 875 x 1874/2075                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 114 kg                                                                                                                         |
| Gross volume                     | 583 litres/20.6 cubic feet                                                                                                                                                      |
| Net volume                       | 513 litres/16.7 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 24 (see page 68)                                                                                                                                                                |
| Insulation (mm)                  | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K; glass door 0.48 W/m²K                                                                                                                                    |
| Refrigerant                      | R600a                                                                                                                                                                           |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -10 °C | R600a 354 watt                                                                                                                                                                  |
| Energy consumption               | 1.15 kWh/24h (see page 66)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 44,2 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 3,355

Price (stainless steel)

€ 3,455

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer with length and cross dividers | € 185 |
| R     | BioLine stainless steel drawer 30 kg                    | € 185 |
| S     | BioLine stainless steel drawer 40 kg                    | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set)    | € 70  |
| P     | BioLine perforated shelf in stainless steel             | € 90  |
| T     | BioLine wire shelf in stainless steel                   | € 65  |
| N     | BioLine wire shelf with plastic coating                 | € 45  |
| 50    | Chart recorder                                          | € 735 |
| 81    | Low-temperature protection                              | € 150 |
| V     | Reference container                                     | € 35  |
| 69    | DIN kit 13277                                           | € 185 |
|       | Legs, wheels*                                           | € 0   |
| 31    | Castors, 360° swivel                                    | € 50  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 11    | Glass door with LED light                               | € 290 |
|       | Pedal door opener                                       | € 120 |
| 98    | 9 Point temperature mapping                             | € 430 |

Option codes

\* See page 76



# BioCompact II RF610

❄️ -25 °C



II 3G Ex nA nC nL IIB T2 Gc



## Technical specifications

|                                  |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | -25/-5 °C                                                                                                                                                                       |
| Ambient temperature range        | +10/+43 °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<br>Exterior   | PS lining with wall rails in stainless steel<br>White lacquered steel or stainless steel finish                                                                                 |
| Ext. dimensions mm (W x D x H)   | 695 x 875 x 1874/2075                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 114 kg                                                                                                                         |
| Gross volume                     | 583 litres/20.6 cubic feet                                                                                                                                                      |
| Net volume                       | 513 litres/16.7 cubic feet                                                                                                                                                      |
| Modules for shelves and drawers  | 24 (see page 68)                                                                                                                                                                |
| Insulation                       | 60 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.31 W/m²K                                                                                                                                                           |
| Refrigerant                      | R290                                                                                                                                                                            |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -25 °C | R290 512 watt                                                                                                                                                                   |
| Energy consumption               | 4,05 kWh/24h (see page 66)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 48.6 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 3,660

Price (stainless steel)

€ 3,760

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                      |       |
|-------|------------------------------------------------------|-------|
| R     | BioLine stainless steel drawer 30 kg                 | € 185 |
| S     | BioLine stainless steel drawer 40 kg                 | € 250 |
| C     | BioLine dividers for stainless steel drawers (1 set) | € 70  |
| P     | BioLine perforated shelf in stainless steel          | € 90  |
| T     | BioLine wire shelf in stainless steel                | € 65  |
| N     | BioLine wire shelf with plastic coating              | € 45  |
| 50    | Chart recorder                                       | € 735 |
| V     | Reference container                                  | € 35  |
|       | Legs, wheels*                                        | € 0   |
| 31    | Castors, 360° swivel                                 | € 50  |
| 20/21 | Door hinge – on right or left side                   | € 0   |
|       | Pedal door opener                                    | € 120 |
| 98    | 9 Point temperature mapping                          | € 430 |

Option codes

\* See page 76



# BioCompact II RR210/RF210



II 3G Ex ec nC ic IIB T3 Gc

DTI 22ATEX0251X



| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | +2/+20 °C and -25/-5 °C                                                                                                                                                         |
| Ambient temperature range        | Solid door +10/+35 °C; glass door +10/+32 °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               | PS lining                                                                                                                                                                       |
| Exterior                         | White lacquered steel or stainless steel finish                                                                                                                                 |
| Ext. dimensions mm (W x D x H)   | 595 x 640 x 1602/1802                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 92 kg                                                                                                                          |
| Gross volume                     | 125 litres/4.4 cubic feet and 125 litres/4.4 cubic feet                                                                                                                         |
| Net volume                       | 104 litres/3.7 cubic feet and 104 litres/3.7 cubic feet                                                                                                                         |
| Modules for shelves and drawers  | 4 x 430 mm + 3 x 300 mm and 4 x 430 mm + 3 x 300 mm (see page 68)                                                                                                               |
| Insulation                       | 50 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | Solid door 0.35 W/m²K; glass door 0.51 W/m²K                                                                                                                                    |
| Refrigerant                      | R600a                                                                                                                                                                           |
| CO <sub>2</sub> e                | -                                                                                                                                                                               |
| Refrigeration capacity at -10 °C | RR: R600a 154 watt                                                                                                                                                              |
| Refrigeration capacity at -25 °C | RF: R600a 159 watt                                                                                                                                                              |
| Energy consumption               | 1.91 kWh/24h (see page 66)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 36,1 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 4,675

Price (stainless steel)

€ 4,895

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer (length/cross dividers) 420 mm | € 185 |
| AA    | BioLine aluminium drawer (length/cross dividers) 300 mm | € 175 |
| E     | BioLine ABS drawer (length/cross dividers) 420 mm       | € 95  |
| E     | BioLine ABS drawer (length dividers) 420 mm             | € 95  |
| P     | BioLine perforated shelf in stainless steel 430 mm      | € 80  |
| PP    | BioLine perforated shelf in stainless steel 300 mm      | € 75  |
| T     | BioLine wire shelf in stainless steel 430 mm            | € 60  |
| TT    | BioLine wire shelf in stainless steel 300 mm            | € 55  |
| W     | BioLine wire shelf with plastic coating 430 mm          | € 30  |
| WW    | BioLine wire shelf with plastic coating 300 mm          | € 25  |
| M     | BioLine wire basket with plastic coating 430 mm         | € 55  |
| MM    | BioLine wire basket with plastic coating 300 mm         | € 50  |
| 11    | Glass door with LED light (RR only)                     | € 210 |
| 81    | Low-temperature protection                              | € 150 |
| 69    | DIN kit 13277 (RR only)                                 | € 185 |
| V     | Reference container (per unit)                          | € 35  |
|       | Legs, wheels* * See page 75                             | € 0   |
| 31    | Castors, 360° swivel                                    | € 50  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 91    | Wall mounting                                           | € 200 |
| 50    | Chart recorder (per unit)                               | € 735 |
| 98    | 9 Point temperature mapping                             | € 860 |
|       |                                                         |       |
|       |                                                         |       |



# BioCompact II RR310/RF210\*



II 3G Ex ec nC ic IIB T3 Gc

DTI 22ATEX0251X



| Technical specifications         |                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                | +2/+20 °C and -25/-5 °C                                                                                                                                                         |
| Ambient temperature range        | Solid door +10/+35 °C; glass door +10/+32 °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<br>Exterior   | PS lining<br>White lacquered steel or stainless steel finish                                                                                                                    |
| Dimensions mm (W x D x H)        | 595 x 640 x 1991/2191                                                                                                                                                           |
| Net weight                       | Unpackaged net weight without optional fittings: 101 kg                                                                                                                         |
| Gross volume                     | 218 litres/7.8 cubic feet and 125 litres/4.4 cubic feet                                                                                                                         |
| Net volume                       | 189 litres/6.7 cubic feet and 104 litres/3.7 cubic feet                                                                                                                         |
| Modules for shelves and drawers  | 11 x 430 mm + 3 x 300 mm and 4 x 430 mm + 3 x 300 mm (see page 68)                                                                                                              |
| Insulation                       | 50 mm polyurethane with HFC-free cyclopentane propellant                                                                                                                        |
| K-Value                          | RR310: Solid door 0.35 W/m²K; glass door 0.50 W/m²K<br>RF210: Solid door 0.35 W/m²K                                                                                             |
| Refrigerant                      | R600a                                                                                                                                                                           |
| CO2e                             | -                                                                                                                                                                               |
| Refrigeration capacity at -10 °C | R600a 154 watt; R134a 173 watt                                                                                                                                                  |
| Refrigeration capacity at -25 °C | R600a 156 watt; R134a 149 watt                                                                                                                                                  |
| Energy consumption               | 1,99 kWh/24h (see page 66)                                                                                                                                                      |
| Connection                       | 230 V, 50 Hz                                                                                                                                                                    |
| Sound level                      | 39.3 dB(A)                                                                                                                                                                      |
| Air system                       | Gram BioLine ventilated air distribution system                                                                                                                                 |
| Defrost system                   | Automatic smart defrost with re-evaporation of the defrost water                                                                                                                |

Price (white)

€ 4,840

Price (stainless steel)

€ 5,060

## Optional fittings and equipment – product configuration guide on page 4

|       |                                                         |       |
|-------|---------------------------------------------------------|-------|
| A     | BioLine aluminium drawer (length/cross dividers) 420 mm | € 185 |
| AA    | BioLine aluminium drawer (length/cross dividers) 300 mm | € 175 |
| E     | BioLine ABS drawer (length/cross dividers) 420 mm       | € 95  |
| E     | BioLine ABS drawer (length dividers) 420 mm             | € 95  |
| P     | BioLine perforated shelf in stainless steel 430 mm      | € 80  |
| PP    | BioLine perforated shelf in stainless steel 300 mm      | € 75  |
| T     | BioLine wire shelf in stainless steel 430 mm            | € 60  |
| TT    | BioLine wire shelf in stainless steel 300 mm            | € 55  |
| W     | BioLine wire shelf with plastic coating 430 mm          | € 30  |
| WW    | BioLine wire shelf with plastic coating 300 mm          | € 25  |
| M     | BioLine wire basket with plastic coating 430 mm         | € 55  |
| MM    | BioLine wire basket with plastic coating 300 mm         | € 50  |
| 11    | Glass door with LED light (RR only)                     | € 210 |
| 81    | Low-temperature protection                              | € 150 |
| 69    | DIN kit 13277 (RR only)                                 | € 185 |
| V     | Reference container (per unit)                          | € 35  |
|       | Legs, wheels** ** See page 75                           | € 0   |
| 31    | Castors, 360° swivel                                    | € 50  |
| 20/21 | Door hinge – on right or left side                      | € 0   |
| 91    | Wall mounting                                           | € 200 |
| 50    | Chart recorder (per unit)                               | € 735 |
| 98    | 9 Point temperature mapping                             | € 860 |
|       |                                                         |       |
|       |                                                         |       |

Option codes

\*Comes in two boxes and must be assembled before use





# Models and options

|                                                                  | ExGuard | BioUltra | BioPlus         | BioMidi   | BioCompact II |
|------------------------------------------------------------------|---------|----------|-----------------|-----------|---------------|
| <b>Temperature range</b>                                         |         |          |                 |           |               |
| Refrigerators +2/+20 °C                                          |         |          |                 | •         | •             |
| Refrigerators -2/+20 °C                                          | •       |          | •               |           |               |
| Freezers -25/-5 °C                                               |         |          | •               | •         | •             |
| Freezers -35/-5 °C                                               |         |          | •               |           |               |
| Freezers -40/-5 °C                                               |         |          |                 | •         |               |
| Freezers -86/-60 °C                                              |         | •        |                 |           |               |
| <b>Materials exterior/interior</b>                               |         |          |                 |           |               |
| White/stainless                                                  | •       |          | •               |           |               |
| White/white, stainless                                           |         | •        |                 |           |               |
| Stainless/stainless                                              | •       | •        | •               | •         |               |
| White/aluminium, stainless                                       |         |          |                 | •         |               |
| White/PS                                                         |         |          |                 |           | •             |
| Stainless/PS                                                     |         |          |                 |           | •             |
| <b>Technical specifications</b>                                  |         |          |                 |           |               |
| Gram BioLine ventilated air distribution system                  | •       |          | •               | •         | •             |
| Dry cooling                                                      | •       |          | • (ER)          |           |               |
| Smart Defrost                                                    | •       |          | •               | •         | •             |
| Defrost shield                                                   |         |          | • (RF/EF)       | • (RF/EF) |               |
| Automatic re-evaporation of defrost water                        | •       |          | •               | •         | •             |
| Defrost interval, adjustable                                     | •       |          | •               | •         | •             |
| Dual refrigeration circuit                                       |         |          | ○ (W/1270/1400) |           |               |
| Voltage-free contact                                             | •       | •        | •               | •         | •             |
| Low-temperature protection                                       |         |          | ○ (ER)          | ○ (RR)    | ○ (RR)        |
| E-sensor                                                         | •       | •        | •               | •         | •             |
| Chart recorder                                                   |         | ○        | ○               | ○         | ○             |
| Acoustic and visual alarm for upper and lower temperature limits | •       | •        | •               | •         | •             |
| Acoustic and visual alarm for open door                          | •       |          | •               | •         | •             |
| Separate setting of all alarm parameters                         | •       | •        | •               | •         | •             |
| Alarm recording                                                  | •       | •        | •               | •         | •             |
| High/low temperature read-out                                    | •       | •        | •               | •         | •             |
| Offset of temperature sensor(s)                                  | •       | •        | •               | •         | •             |
| Water cooled condensor – Hybrid                                  |         | ○        |                 |           |               |

• Included      ○ Available options

# Standard and options

|                                              | ExGuard | BioUltra              | BioPlus                   | BioMidi               | BioCompact II       |
|----------------------------------------------|---------|-----------------------|---------------------------|-----------------------|---------------------|
| <b>Technical specifications continued</b>    |         |                       |                           |                       |                     |
| Key pad lock                                 | •       | •                     | •                         | •                     | •                   |
| Service program                              | •       | •                     | •                         | •                     | •                   |
| Temperature scale in Celsius and Fahrenheit  | •       | •                     | •                         | •                     | •                   |
| 230V, 50Hz                                   | •       | •                     | •                         | •                     | •                   |
| <b>Exterior equipment</b>                    |         |                       |                           |                       |                     |
| Solid door                                   | •       | •                     | •                         | •                     | •                   |
| Glass door                                   | ○ (ER)  |                       | ○ (ER)                    | ○ (RR)                |                     |
| Glass door with LED light                    |         |                       |                           |                       | ○ (RR)              |
| Pedal door opener                            |         |                       | • (not EF)                |                       | ○                   |
| Self closing door                            | •       |                       | •                         | •                     | •                   |
| Legs/castors/plinth                          | •       |                       | •                         | • (Recessed wheels)   | • /○ (210/310)      |
| Castors, 360° swivel                         | ○       | • (levelling castors) | ○/• (1270/1400)           |                       | ○                   |
| Wall mounting                                |         |                       |                           |                       | ○ (210/310/410)     |
| Door lock                                    | •       | •                     | •                         | •                     | •                   |
| LED display                                  | •       | •                     | •                         | •                     | •                   |
| Visual indicator for alarm                   | •       | • (no door alarm)     | •                         | •                     | •                   |
| Halogen lights                               | •       |                       | •                         | •                     |                     |
| <b>Interior equipment</b>                    |         |                       |                           |                       |                     |
| Wire shelf, plastic coated                   |         |                       | ○ (not EF, 930 or opt.70) | ○ (not EF or opt. 70) | ○                   |
| Wire shelf, stainless steel                  | ○       |                       | ○                         | ○                     | ○                   |
| Perforated shelf, stainless steel            | ○       | •                     | ○                         | ○                     | ○                   |
| Wire basket                                  |         |                       |                           |                       | ○ (210/310/410)     |
| Aluminium drawer with length/cross dividers  |         |                       | ○ (ER, not 930)           | ○ (RR)                | ○ (RR)              |
| Aluminium drawer with length dividers        |         |                       |                           |                       | ○ (RF210/310/410)   |
| ABS drawer with length/cross dividers        |         |                       |                           |                       | ○ (RR210, 310, 410) |
| ABS drawer with length dividers              |         |                       |                           |                       | ○ (RF210/310/410)   |
| Stainless steel drawer, 30 kg                |         |                       | ○ (not 930)               | ○                     | ○ (610)             |
| Stainless steel drawer, 40 kg                | ○       |                       | ○                         | ○                     | ○ (610)             |
| BioLine dividers for stainless steel drawers | ○       |                       | ○                         | ○                     | ○ (610)             |
| Draught shields                              |         | •                     | ○ (not 930)/• (EF)        | ○ /• (EF)             |                     |
| Reference container                          | ○       |                       | ○                         | ○                     | ○                   |
| DIN kit                                      |         |                       | ○ (ER)                    | ○ (RR)                | ○ (RR)              |
| Sound reduction kit                          |         |                       |                           | ○                     |                     |

• Included

○ Available options

# Products and Prices • ExGuard

## ExGuard – Refrigerators

|                                |         |
|--------------------------------|---------|
| ER600W (white) .....           | € 8,190 |
| ER600W (stainless steel) ..... | € 8,440 |

## Additional equipment and fittings

Factory-fitted

Supplied separately

|                                                           |             |       |
|-----------------------------------------------------------|-------------|-------|
| BioLine stainless steel drawer 40 kg .....                | € 250 ..... | € 280 |
| BioLine dividers for stainless steel drawers (1 set)..... | € 70 .....  | € 100 |
| BioLine perforated shelf in stainless steel.....          | € 90 .....  | € 110 |
| BioLine wire shelf in stainless steel.....                | € 65 .....  | € 85  |
| Door hinge – on right or left side.....                   | € 0 .....   | N/A   |
| Legs, castors/wheels or for mounting on a plinth .....    | € 0 .....   | € 140 |
| Castors, 360° swivel .....                                | € 50 .....  | € 160 |
| Glass door, single door (only ER) .....                   | € 290.....  | N/A   |
| Reference container .....                                 | € 35.....   | € 55  |
| Shelf supporters (additional).....                        | N/A.....    | € 35  |
| 9 Point temperature mapping.....                          | € 430.....  | N/A   |

Prices exclude freight and import duties

# Products and Prices • BioUltra/BioPlus

## BioUltra – Freezer

|                               |          |
|-------------------------------|----------|
| UL570 (white) .....           | € 11,700 |
| UL570 (stainless steel) ..... | € 12,150 |

## Additional equipment and fittings

Factory-fitted

Supplied separately

|                                                  |              |       |
|--------------------------------------------------|--------------|-------|
| BioLine perforated shelf in stainless steel..... | N/A.....     | € 120 |
| Chart recorder.....                              | € 735.....   | N/A   |
| Chart recorder, paper – 100 pcs.....             | N/A.....     | € 125 |
| Chart recorder, pens .....                       | N/A.....     | € 55  |
| Door hinge – on right or left side.....          | € 0.....     | N/A   |
| Water cooled – hybrid .....                      | € 2,290..... | N/A   |
| 9 Point temperature mapping.....                 | € 430.....   | N/A   |

Racks/boxes – See page 15

## BioPlus – Refrigerators

|                                |         |
|--------------------------------|---------|
| ER500 (white).....             | € 5,740 |
| ER500 (stainless steel) .....  | € 5,990 |
| ER600D (white) .....           | € 5,890 |
| ER600D (stainless steel) ..... | € 6,140 |
| ER600W (white) .....           | € 5,890 |
| ER600W (stainless steel).....  | € 6,140 |
| ER660D (white) .....           | € 6,040 |
| ER660D (stainless steel) ..... | € 6,290 |
| ER660W (white) .....           | € 6,040 |
| ER660W (stainless steel).....  | € 6,290 |
| ER930 (white).....             | € 6,515 |
| ER930 (stainless steel) .....  | € 6,765 |
| ER1270 (white).....            | € 8,015 |
| ER1270 (stainless steel).....  | € 8,465 |
| ER1400 (white).....            | € 8,215 |
| ER1400 (stainless steel).....  | € 8,665 |

## Additional equipment and fittings

Factory-fitted

Supplied separately

|                                                                               |            |         |
|-------------------------------------------------------------------------------|------------|---------|
| BioLine aluminium drawer with length<br>and cross dividers .....              | € 185..... | € 215   |
| BioLine stainless steel drawer 30 kg .....                                    | € 185..... | € 215   |
| BioLine stainless steel drawer 40 kg .....                                    | € 250..... | € 280   |
| BioLine dividers for stainless steel drawers (1 set) .....                    | € 70.....  | € 100   |
| BioLine perforated shelf in stainless steel.....                              | € 90.....  | € 110   |
| BioLine wire shelf in stainless steel.....                                    | € 65.....  | € 85    |
| BioLine wire shelf with plastic coating .....                                 | € 45.....  | € 65    |
| Door hinge – on right or left side.....                                       | € 0.....   | N/A     |
| Legs, castors/wheels or for mounting on a plinth .....                        | € 0.....   | € 140   |
| Castors, 360° swivel .....                                                    | € 50.....  | € 160   |
| Chart recorder.....                                                           | € 735..... | N/A     |
| Chart recorder, paper – 100 pcs.....                                          | N/A.....   | € 125   |
| Chart recorder, pen – 1 pcs .....                                             | N/A.....   | € 55    |
| Dual refrigeration circuit (only W, 1270, 1400) .....                         | € 735..... | N/A     |
| Glass door, single door (only ER) .....                                       | € 290..... | N/A     |
| Glass doors, double door (only ER, 1270 or 1400) .....                        | € 580..... | N/A     |
| Draught shields (500, 600 or 660) .....                                       | € 435..... | € 535   |
| Draught shields (1270 or 1400) .....                                          | € 870..... | € 1,070 |
| Low-temperature protection (only ER).....                                     | € 150..... | € 180   |
| Reference container .....                                                     | € 35.....  | € 55    |
| BioLine divider kit for aluminium drawer<br>(length and cross dividers) ..... | N/A.....   | € 50    |
| Shelf supporters (additional).....                                            | N/A.....   | € 35    |
| DIN-Kit 13277 .....                                                           | € 185..... | N/A     |
| 9 Point temperature mapping.....                                              | € 430..... | N/A     |

## BioPlus – Freezers

|                                    |         |
|------------------------------------|---------|
| RF500 (white).....                 | € 6,310 |
| RF500 (stainless steel) .....      | € 6,560 |
| RF600D (white) .....               | € 6,460 |
| RF600D (stainless steel) .....     | € 6,710 |
| RF600W (white) .....               | € 6,460 |
| RF600W (stainless steel).....      | € 6,710 |
| RF660D (white) .....               | € 6,610 |
| RF660D (stainless steel) .....     | € 6,860 |
| RF660W (white) .....               | € 6,610 |
| RF660W (stainless steel).....      | € 6,860 |
| RF930 (white).....                 | € 7,085 |
| RF930 (stainless steel).....       | € 7,335 |
| RF1270 (white).....                | € 8,585 |
| RF1270 (stainless steel).....      | € 9,035 |
| RF1400 (white).....                | € 8,785 |
| RF1400 (stainless steel).....      | € 9,235 |
| EF600W -35°C (white).....          | € 7,210 |
| EF600W -35°C (stainless steel).... | € 7,460 |
| EF660W -35°C (white).....          | € 7,360 |
| EF660W -35°C (stainless steel).... | € 7,610 |

Prices exclude freight and import duties

# Products and Prices • BioMidi

## BioMidi – Refrigerators

|                              |         |
|------------------------------|---------|
| RR425 (white).....           | € 4,110 |
| RR425 (stainless steel)..... | € 4,610 |
| RR625 (white).....           | € 4,580 |
| RR625 (stainless steel)..... | € 5,080 |

## BioMidi – Freezer

|                                     |         |
|-------------------------------------|---------|
| RF425 (white).....                  | € 4,710 |
| RF425 (stainless steel).....        | € 5,210 |
| RF625 (white).....                  | € 5,180 |
| RF625 (stainless steel).....        | € 5,680 |
| EF425 -40 °C (white).....           | € 5,485 |
| EF425 -40 °C (stainless steel)..... | € 5,985 |

## Additional equipment and fittings

Factory-fitted

Supplied separately

|                                                                            |       |       |
|----------------------------------------------------------------------------|-------|-------|
| BioLine aluminium drawer with length and cross dividers .....              | € 185 | € 215 |
| BioLine stainless steel drawer 30 kg .....                                 | € 185 | € 215 |
| BioLine stainless steel drawer 40 kg .....                                 | € 250 | € 280 |
| BioLine dividers for stainless steel drawers (1 set).....                  | € 70  | € 100 |
| BioLine perforated shelf in stainless steel.....                           | € 90  | € 110 |
| BioLine wire shelf in stainless steel.....                                 | € 65  | € 85  |
| BioLine wire shelf with plastic coating .....                              | € 45  | € 65  |
| Door hinge – on right or left side.....                                    | € 0   | N/A   |
| Chart recorder .....                                                       | € 735 | N/A   |
| Chart recorder, paper – 100 pcs.....                                       | N/A   | € 125 |
| Chart recorder, pen – 1 pcs. ....                                          | N/A   | € 55  |
| Glass door, single door (only RR) .....                                    | € 290 | N/A   |
| Draught shields .....                                                      | € 435 | € 535 |
| Low-temperature protection (only RR).....                                  | € 150 | € 180 |
| Reference container .....                                                  | € 35  | € 55  |
| BioLine divider kit for aluminium drawer (length and cross dividers) ..... | N/A   | € 50  |
| Shelf supporters (additional).....                                         | N/A   | € 35  |
| DIN-Kit 13277 .....                                                        | € 185 | N/A   |
| Sound reduction kit .....                                                  | € 185 | N/A   |
| 9 Point temperature mapping.....                                           | € 430 | N/A   |

Prices exclude freight and import duties

# Products and Prices • BioCompact II

## BioCompact II – Refrigerators

|                        |         |
|------------------------|---------|
| RR210 (white).....     | € 2,205 |
| RR210 (stainless)..... | € 2,315 |
| RR310 (white).....     | € 2,370 |
| RR310 (stainless)..... | € 2,480 |
| RR410 (white).....     | € 2,535 |
| RR410 (stainless)..... | € 2,645 |
| RR610 (white).....     | € 3,355 |
| RR610 (stainless)..... | € 3,455 |

## BioCompact II – Freezers

|                        |         |
|------------------------|---------|
| RF210 (white).....     | € 2,320 |
| RF210 (stainless)..... | € 2,430 |
| RF310 (white).....     | € 2,485 |
| RF310 (stainless)..... | € 2,595 |
| RF410 (white).....     | € 2,650 |
| RF410 (stainless)..... | € 2,760 |
| RF610 (white).....     | € 3,660 |
| RF610 (stainless)..... | € 3,760 |

## BioCompact II – Combi

|                              |         |
|------------------------------|---------|
| RR210/RF210 (white).....     | € 4,675 |
| RR210/RF210 (stainless)..... | € 4,895 |
| RR310/RF210 (white).....     | € 4,840 |
| RR310/RF210 (stainless)..... | € 5,060 |

## Additional equipment and fittings

Factory-fitted

Supplied separately

|                                                                                   |       |       |
|-----------------------------------------------------------------------------------|-------|-------|
| BioLine aluminium drawer<br>(length/cross dividers) (610 RR).....                 | € 185 | € 215 |
| BioLine aluminium drawer<br>(length/cross dividers) (420 mm) .....                | € 185 | € 215 |
| BioLine aluminium drawer<br>(length/cross dividers) (300 mm) .....                | € 175 | € 205 |
| BioLine ABS drawer<br>(length/cross dividers) (420 mm) .....                      | € 95  | € 115 |
| BioLine stainless steel drawer 30 kg (610) .....                                  | € 185 | € 215 |
| BioLine stainless steel drawer 40 kg (610) .....                                  | € 250 | € 280 |
| BioLine dividers for stainless steel drawers (1 set) .....                        | € 70  | € 100 |
| BioLine wire basket with plastic coating (430 mm) .....                           | € 55  | € 75  |
| BioLine wire basket with plastic coating (300 mm) .....                           | € 50  | € 70  |
| BioLine perforated shelf in stainless steel (610) .....                           | € 90  | € 110 |
| BioLine perforated shelf in stainless steel (430 mm) ...                          | € 80  | € 100 |
| BioLine perforated shelf in stainless steel (300 mm) ...                          | € 75  | € 95  |
| BioLine wire shelf in stainless steel (610) .....                                 | € 65  | € 85  |
| BioLine wire shelf in stainless steel (430 mm).....                               | € 60  | € 80  |
| BioLine wire shelf in stainless steel (300 mm).....                               | € 55  | € 75  |
| BioLine wire shelf with plastic coating (610).....                                | € 45  | € 65  |
| BioLine wire shelf with plastic coating (430 mm).....                             | € 30  | € 50  |
| BioLine wire shelf with plastic coating (300 mm).....                             | € 25  | € 45  |
| Door hinge – on right or left side.....                                           | € 0   | N/A   |
| Chart recorder .....                                                              | € 735 | N/A   |
| Chart recorder, paper – 100 pcs.....                                              | N/A   | € 125 |
| Chart recorder, pen – 1 pcs. ....                                                 | N/A   | € 55  |
| Legs or castors/wheels (only Combi/410/610) .....                                 | € 0   | € 140 |
| Legs or castors/wheels (only 210/310) .....                                       | € 100 | € 140 |
| Castors, 360° swivel (only Combi/410/610) .....                                   | € 50  | € 160 |
| Castors, 360° swivel (only 210/310).....                                          | € 150 | € 160 |
| Wall mounting (Combi/210/310/410) .....                                           | € 200 | € 230 |
| Combination kit (only 210/310).....                                               | € 125 | € 175 |
| Glass door (Combi/210/310/410) (only RR).....                                     | € 210 | N/A   |
| Glass door (610) (only RR) .....                                                  | € 290 | N/A   |
| Low-temperature protection (only RR) .....                                        | € 150 | € 180 |
| Reference container .....                                                         | € 35  | € 55  |
| Pedal door opener (410/610) .....                                                 | € 120 | € 160 |
| BioLine divider kit for aluminium drawer<br>(length and cross dividers) .....     | N/A   | € 50  |
| Shelf supporters (additional) (610) .....                                         | N/A   | € 35  |
| DIN-Kit (13277) .....                                                             | € 185 | N/A   |
| 9 Point temperature mapping.....                                                  | € 430 | N/A   |
| 9 Point temperature mapping of<br>BioCompact II RR210/RF210 and RR310/RF210 ..... | € 860 | N/A   |

Prices exclude freight and import duties

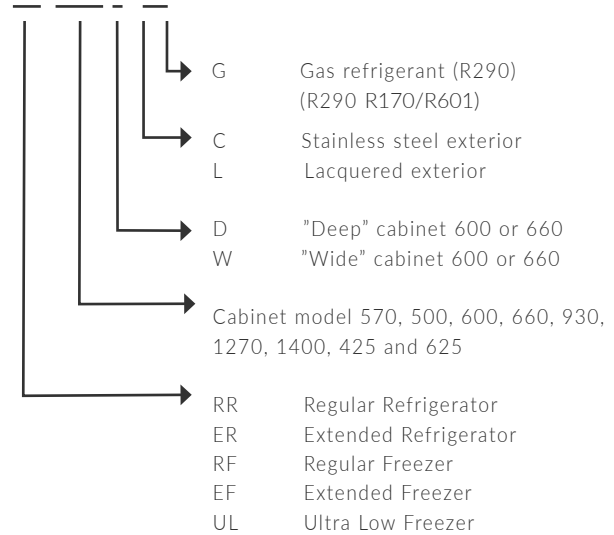


# Codes ExGuard/BioUltra/BioPlus/BioMidi

## Option codes

- 10 Solid door
- 11 Glass door
  
- 20 Right hinged
- 21 Left hinged
  
- 29 Levelling castor (BioUltra)
  
- 30 Wheels/castors 125 mm
- 31 Castors – 360° castors, 2 w/brakes
- 32 Recessed wheels (BioMidi)
- 33 Wheels/castors 109 mm
- 35 Legs H=100/135 mm
- 36 Legs H=135/200 mm
- 37 Legs H=185/250 mm
- 38 Prepared for mounting on a plinth
  
- 41 E-sensor
- 50 Chart recorder
- 69 DIN kit (only ER/RR)
- 70 Draught shield, hinged
- 79 Water cooled condenser – Hybrid (Only BioUltra)
- 80 Dual refrigeration (Only W/1270/1400)
- 81 Low-temperature protection
- 84 Sound reduction kit (only 425, 625 units)
- 98 9 Point temperature mapping

## ER 600 D CG



## Option codes

- ..A # of aluminium drawers
- ..R # of stainless steel drawer 30 kg
- ..S # of stainless steel drawer 40 kg
- ..C # of divider set in stainless steel
- ..P # of perforated shelf in stainless steel
- ..T # of wire shelf in stainless steel
- ..TTT # of wire shelf in stainless steel, draught shield
- ..N # of wire shelf with plastic coating
- ..V # of liquid containers incl. holder

| Item number | Description           |
|-------------|-----------------------|
| 98-630-     | ExGuard ER            |
| 98-631-     | ExGuard ER Glass door |
| 88-570-     | BioUltra UL570        |
| 88-425-     | BioMidi 425           |
| 88-426-     | BioMidi EF425         |
| 88-625-     | BioMidi 625           |

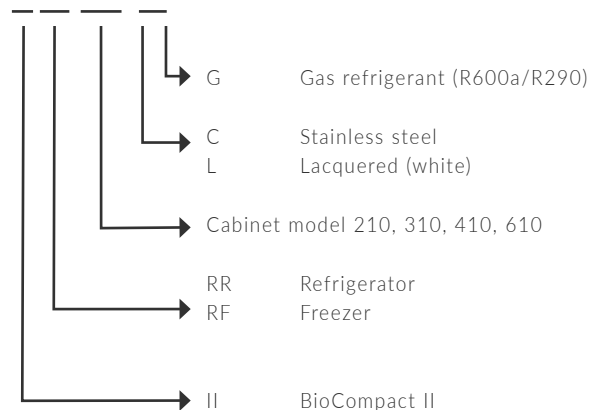
| Item number | Description    |
|-------------|----------------|
| 88-500-     | BioPlus 500    |
| 88-600-     | BioPlus 600D   |
| 88-601-     | BioPlus 600W   |
| 88-604-     | BioPlus EF600W |
| 88-660-     | BioPlus 660D   |
| 88-661-     | BioPlus 660W   |
| 88-662-     | BioPlus EF660W |
| 88-930-     | BioPlus 930    |
| 88-270-     | BioPlus 1270   |
| 88-400-     | BioPlus 1400   |

# Codes for BioCompact II

## Option codes

- 10 Solid door
- 11 Glass door
  
- 20 Right hinged, self-closing
- 21 Left hinged, self-closing
  
- 30 Wheels/castors 125mm, 2 w/brakes
- 31 Castors – 360° castors, 2 w/brakes
- 33 Wheels/castors 109mm
- 34 Wheels/skids (only 210/310 units)
- 35 Legs H=100/135 mm
- 36 Legs H=135/200 mm
- 38 Prepared for mounting on a plinth
- 39 Skids (only 210/310 units)
  
- 41 E-sensor
- 50 Chart recorder
- 69 DIN kit (only BioCompact II RR)
- 81 Low-temperature protection
- 90 Combination kit
- 91 Wall mounting
- 98 9 Point temperature mapping

## II RR 210 LG



## Option codes

- ..A # of aluminium drawers
- ..AA # of aluminium drawers 300 mm
- ..E # of ABS drawer 420 mm
- ..R # of stainless steel drawer 30 kg (610)
- ..S # of stainless steel drawer 40 kg (610)
- ..C # of divider set in stainless steel
- ..M # of wire baskets in white plastic coating 430 mm
- ..MM # of wire baskets in white plastic coating 300 mm
- ..P # of perforated shelf in stainless steel
- ..PP # of perforated shelf in stainless steel 300 mm
- ..T # of wire shelf in stainless steel
- ..TT # of wire shelf in stainless steel 300 mm
- ..W # of wire shelves in white plastic coating 430 mm
- ..WW # of wire shelves in white plastic coating 300 mm
- ..N # of wire shelves in grey plastic coating
- ..V # of liquid containers incl. holder

| Item number | Discription         |
|-------------|---------------------|
| 88-250-     | II RR210            |
| 88-251-     | II RR210 glass door |
| 88-252-     | II RF210            |
| 88-350-     | II RR310            |
| 88-351-     | II RR310 glass door |
| 88-352-     | II RF310            |
| 88-450-     | II RR410            |
| 88-451-     | II RR410 glass door |
| 88-452-     | II RF410            |

| Item number | Discription         |
|-------------|---------------------|
| 88-260-     | II RR210/II RF210   |
| 88-260-     | II RR210/II RR210   |
| 88-262-     | II RR310/II RF210   |
| 88-611-     | II RR610            |
| 88-613-     | II RR610 glass door |
| 88-612-     | II RF610            |

# Power consumption (kWh/24h)

| BioUltra -86 |            | R290 - R170/R601 |
|--------------|------------|------------------|
| UL570        | Solid door | 10.5             |

| ExGuard – ER |            | R290 |
|--------------|------------|------|
| ER600 W      | Solid door | 1.62 |
|              | Glass door | 2.08 |

| BioPlus – ER |                            | R290 |
|--------------|----------------------------|------|
| ER500        | Solid door                 | 1.26 |
|              | Glass door                 | 1.67 |
| ER600D       | Solid door                 | 1.26 |
|              | Glass door                 | 1.71 |
| ER660D       | Solid door                 | 1.18 |
|              | Glass door                 | 1.69 |
| ER600W       | Solid door                 | 1.35 |
|              | Glass door                 | 1.65 |
|              | Dual compressor solid door | -    |
|              | Dual compressor glass door | -    |
| ER660W       | Solid door                 | 1.28 |
|              | Glass door                 | 1.78 |
|              | Dual compressor solid door | 2.20 |
|              | Dual compressor glass door | -    |
| ER930        | Solid door                 | 2.10 |
|              | Glass door                 | 2.81 |
| ER1270       | Solid door                 | 2.50 |
|              | Glass door                 | 3.48 |
|              | Dual compressor solid door | 2.57 |
|              | Dual compressor glass door | -    |
| ER1400       | Solid door                 | 2.56 |
|              | Glass door                 | 3.72 |
|              | Dual compressor solid door | -    |
|              | Dual compressor glass door | 4.47 |

# Power consumption (kWh/24h)

| BioPlus – RF/EF |                            | R290  |
|-----------------|----------------------------|-------|
| <b>RF500</b>    | Solid door                 | 3.83  |
| <b>RF600D</b>   | Solid door                 | 4.03  |
| <b>RF660D</b>   | Solid door                 | 4.23  |
| <b>RF600W</b>   | Solid door                 | 4.07  |
|                 | Dual compressor solid door | 5.67  |
| <b>RF660W</b>   | Solid door                 | 4.46  |
|                 | Dual compressor solid door | 6.02  |
| <b>RF930</b>    | Solid door                 | 6.12  |
| <b>RF1270</b>   | Solid door                 | 7.97  |
|                 | Dual compressor solid door | 7.97  |
| <b>RF1400</b>   | Solid door                 | 8.39  |
|                 | Dual compressor solid door | 8.39  |
| <b>EF600W</b>   | Solid door                 | 8.86  |
|                 | Water cooling solid door   | -     |
|                 | Dual compressor solid door | 12.21 |
| <b>EF660W</b>   | Solid door                 | 9.02  |
|                 | Dual compressor solid door | 12.87 |

| BioMidi – RR |            | R290 |
|--------------|------------|------|
| <b>RR425</b> | Solid door | 1.27 |
|              | Glass door | 1.63 |
| <b>RR625</b> | Solid door | 1.30 |
|              | Glass door | 1.64 |

| BioMidi – RF/EF |            | R290 |
|-----------------|------------|------|
| <b>RF425</b>    | Solid door | 3.61 |
| <b>RF625</b>    | Solid door | 4.03 |
| <b>EF425</b>    | Solid door | 8.93 |

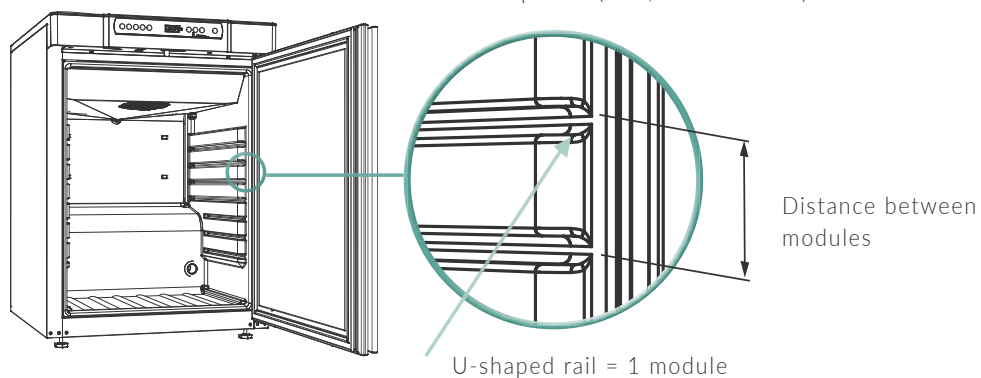
# Power consumption (kWh/24h)

| BioCompact II – RR |            | R600a |
|--------------------|------------|-------|
| RR210              | Solid door | 0.43  |
|                    | Glass door | 0.79  |
| RR310              | Solid door | 0.51  |
|                    | Glass door | 0.90  |
| RR410              | Solid door | 0.59  |
|                    | Glass door | 1.31  |
| RR610              | Solid door | 1.15  |
|                    | Glass door | 1.9   |
| RR310/RF210 combi  | Solid door | 1.91  |
| RR210/RF210 combi  | Solid door | 1.98  |

| BioCompact II – RF |            | R600a | R290 |
|--------------------|------------|-------|------|
| RF210              | Solid door | 1.47  | -    |
| RF310              | Solid door | 1.56  | -    |
| RF410              | Solid door | 2.06  | -    |
| RF610              | Solid door | -     | 4.05 |
| RR210/RF210 combi  | Solid door | 1.91  | -    |
| RR310/RF210 combi  | Solid door | 1,98  | - -  |

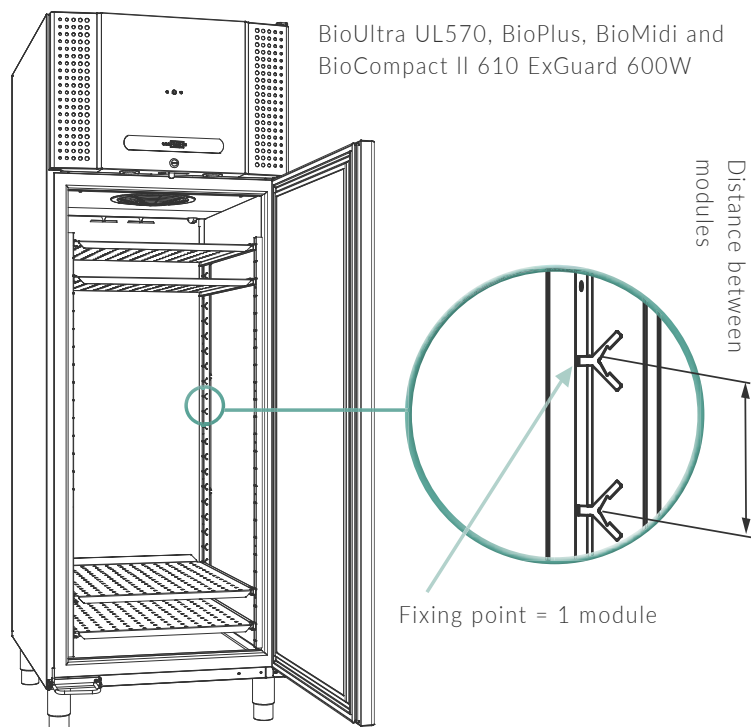
# Module definition

BioCompact II (210, 310 and 410)

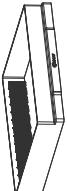


| Model                 | No. of modules           | Distances between modules mm |
|-----------------------|--------------------------|------------------------------|
| BioUltra UL570        | -                        | 12,5                         |
| ExGuard 600W          | 48                       | 25                           |
| BioPlus 500*          | 52                       | 25                           |
| BioPlus 600D*         | 24                       | 50                           |
| BioPlus 660D*         | 27                       | 50                           |
| BioPlus 600W*         | 24                       | 50                           |
| BioPlus 660W*         | 27                       | 50                           |
| Bioplus 930*          | 52                       | 25                           |
| BioPlus 1270*         | 2 x 24                   | 50                           |
| BioPlus 1400*         | 2 x 27                   | 50                           |
| BioMidi 425*          | 25                       | 50                           |
| BioMidi 625*          | 25                       | 50                           |
| BioCompact II 210     | 4 x 430 mm + 3 x 300 mm  | 50                           |
| BioCompact II 210/210 | 8 x 430 mm + 6 x 300 mm  | 50                           |
| BioCompact II 310     | 11 x 430 mm + 3 x 300 mm | 50                           |
| BioCompact II 310/210 | 15 x 430 mm + 6 x 300 mm | 50                           |
| BioCompact II 410     | 22 x 430 mm + 3 x 300 mm | 50                           |
| BioCompact II 610*    | 24                       | 50                           |

\*Note that reference container when selected) takes up space corresponding to 2 modules.



# Dimensions, drawers and shelves

| Type                                                                                | ABS drawer                                                                          | Aluminium drawer                                                                    | Stainless steel drawer 30 kg                                                        | Stainless steel drawer 40 kg                                                       | Wire basket**                                                                     | Wire shelf                                                                        | Perforated shelf                                                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |
| Module size                                                                         | 2                                                                                   | 2                                                                                   | 2                                                                                   | 2                                                                                  | 3                                                                                 | 1                                                                                 | 1                                                                                 |
| ExGuard 600W                                                                        | -                                                                                   | -                                                                                   | -                                                                                   | 492/625/60 [12]                                                                    | -                                                                                 | 650/530 [48]                                                                      | 647/500 [48]                                                                      |
| 570                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                  | -                                                                                 | -                                                                                 | 619/574 [-]                                                                       |
| 210/310/410 ***                                                                     | 429/395/68 [2/5/11]                                                                 | 396/419/60 [2/5/11]                                                                 | -                                                                                   | -                                                                                  | 426/386/139 [1/3/7]                                                               | 486/433 [4/11/22]                                                                 | 483/433 [4/11/22]                                                                 |
| 210/310/410 ****                                                                    | -                                                                                   | 396/296/60 [2/2/2]                                                                  | -                                                                                   | -                                                                                  | 442/260/209 [1/1/1]                                                               | 486/300 [3/3/3]                                                                   | 483/302 [3/3/3]                                                                   |
| 610                                                                                 | -                                                                                   | 504/626/60 [12]                                                                     | 505/625/60 [12]                                                                     | 492/625/60 [12]                                                                    | -                                                                                 | 530/650 [24]                                                                      | 528/630 [24]                                                                      |
| 425                                                                                 | -                                                                                   | 409/508/60 [12]                                                                     | 410/505/60 [12]                                                                     | 397/505/60 [12]                                                                    | -                                                                                 | 435/530 or 433/501* [25]                                                          | 435/510 [25]                                                                      |
| 625                                                                                 | -                                                                                   | 624/496/60 [12]                                                                     | 626/505/60 [12]                                                                     | 612/505/60 [12]                                                                    | -                                                                                 | 650/530 or 650/500* [25]                                                          | 650/500 [25]                                                                      |
| 500                                                                                 | -                                                                                   | 376/576/60 [13]                                                                     | 379/575/60 [13]                                                                     | 364/575/60 [13]                                                                    | -                                                                                 | 400/600 or 400/570* [52]                                                          | 399/580 [52]                                                                      |
| 600D/660D/1270/1400                                                                 | -                                                                                   | 504/626/60 [12/13/24/26]                                                            | 505/625/60 [11/13/22/26]                                                            | 492/625/60 [12/13/24/26]                                                           | -                                                                                 | 530/650 or 529/621* [24/27/48/54]                                                 | 528/630 [24/27/48/54]                                                             |
| 930                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   | 595/748/60 [13]                                                                    | -                                                                                 | 602/785 [52]                                                                      | 600/784 [52]                                                                      |
| 600/660W                                                                            | -                                                                                   | 624/496/60 [12/13]                                                                  | 626/501/60 [11/13]                                                                  | 612/505/60 [12/13]                                                                 | -                                                                                 | 650/530 or 650/500* [24/27]                                                       | 647/500 [24/27]                                                                   |

[ ]: maximum numbers that can be fitted into the cabinet.

Dimensions: W x D x H mm

\*\*\* Drawer 420 mm

\*\*\*\* 300 mm

\* Shelf dimension when combined with draught shield (option code 70).

\*\* 120° door opening required

Note that reference container (when selected) takes up space corresponding to 2 modules. (BioMidi, BioPlus, BioCompact II 610)

Note that reference container (when selected) takes up space corresponding to 4 modules. (ExGuard, BioPlus 500, BioPlus 930)



# Loading heights

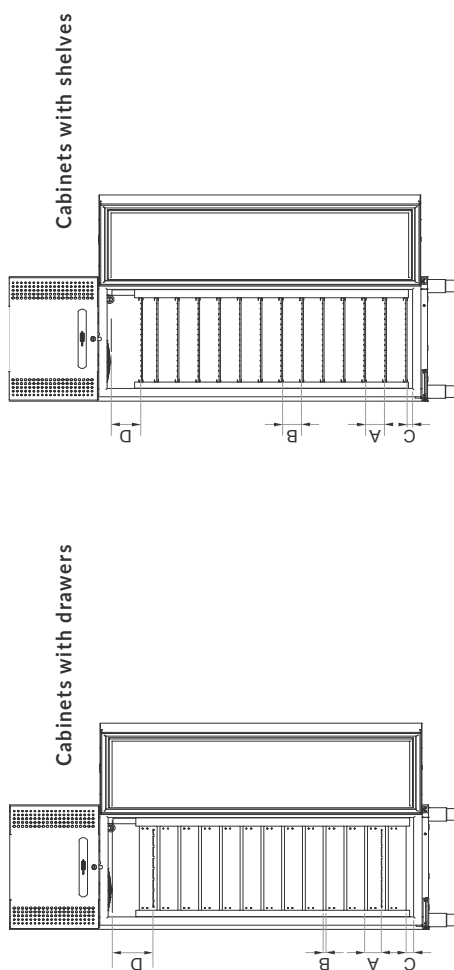
A = Loading height in drawer/loading height between shelves

B = Gap between drawers/shelves

C = Distance to cabinet bottom from cabinet with drawer/shelf in lowest position

D = Loading height in top drawer/shelf (to load line)

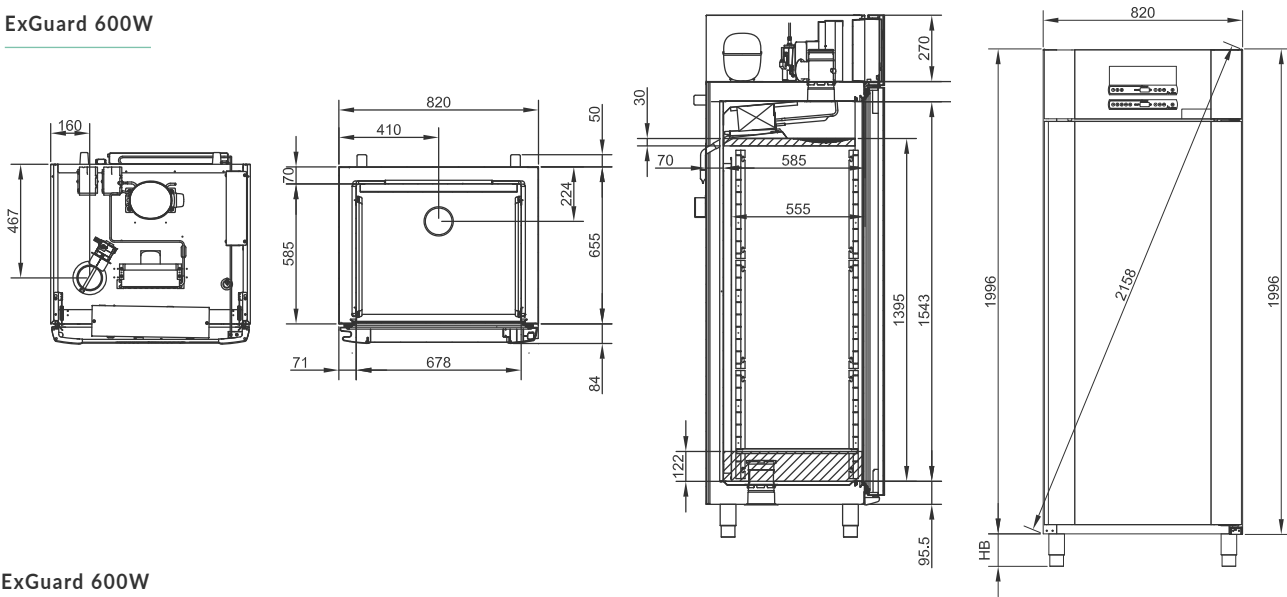
Given as: A\B\C\D mm – interior is placed with minimum distance between each drawer/shelf. See page 67 for distance between modules.



| Model        | Aluminium drawer | Stainless steel drawer 30 kg | Stainless steel drawer 40 kg | Wire basket                          | Wire shelf    | Perforated shelf |
|--------------|------------------|------------------------------|------------------------------|--------------------------------------|---------------|------------------|
| 210          | 80/14/93/83      | -                            | -                            | 430mm: 145/8/-/207, 300mm: 271/8/8/- | 39/39/101/66  | 37/37/96/68      |
| 310          | 80/14/93/122     | -                            | -                            | 430mm: 145/8/-/246, 300mm: 271/8/8/- | 39/39/101/105 | 37/37/96/107     |
| 410          | 80/14/93/159     | -                            | -                            | 430mm: 145/8/-/283, 300mm: 271/8/8/- | 39/39/101/142 | 37/37/96/144     |
| 610          | 80/14/74/128     | 84/24/19/164                 | 84/24/50/132                 | -                                    | 39/39/34/98   | 30/30/38/94      |
| 425          | 80/14/37/164     | 84/24/55/201                 | 84/24/37/169                 | -                                    | 39/39/25/135  | 30/30/20/131     |
| 625          | 80/14/37/164     | 84/24/55/201                 | 84/24/37/167                 | -                                    | 39/39/25/135  | 30/30/20/131     |
| 500          | 80/14/37/192     | 84/24/31/203                 | 84/24/37/196                 | -                                    | 39/39/23/138  | 30/30/22/133     |
| 570          | -                | -                            | -                            | -                                    | -             | -                |
| ExGuard 600W | -                | -                            | 84/24/24/157                 | -                                    | 39/39/63/122  | 30/30/57/119     |
| 600/660D     | 80/14/23/154     | 84/24/42/188                 | 84/24/24/157                 | -                                    | 39/39/63/122  | 30/30/57/119     |
| 600/660W     | 80/14/23/154     | 84/24/42/188                 | 84/24/24/157                 | -                                    | 39/39/63/122  | 30/30/57/119     |
| 930          | -                | -                            | 84/24/37/166                 | -                                    | 39/39/23/123  | 30/30/22/119     |
| RF930        | -                | -                            | 84/24/37/152                 | -                                    | 39/39/23/109  | 39/39/23/105     |
| 1270         | 80/14/23/152     | 84/24/42/188                 | 84/24/24/156                 | -                                    | 39/39/63/122  | 30/30/57/119     |
| 1400         | 80/14/23/152     | 84/24/42/188                 | 84/24/24/156                 | -                                    | 39/39/63/122  | 30/30/57/119     |

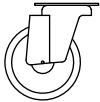
# Dimensions, cabinets

## ExGuard 600W

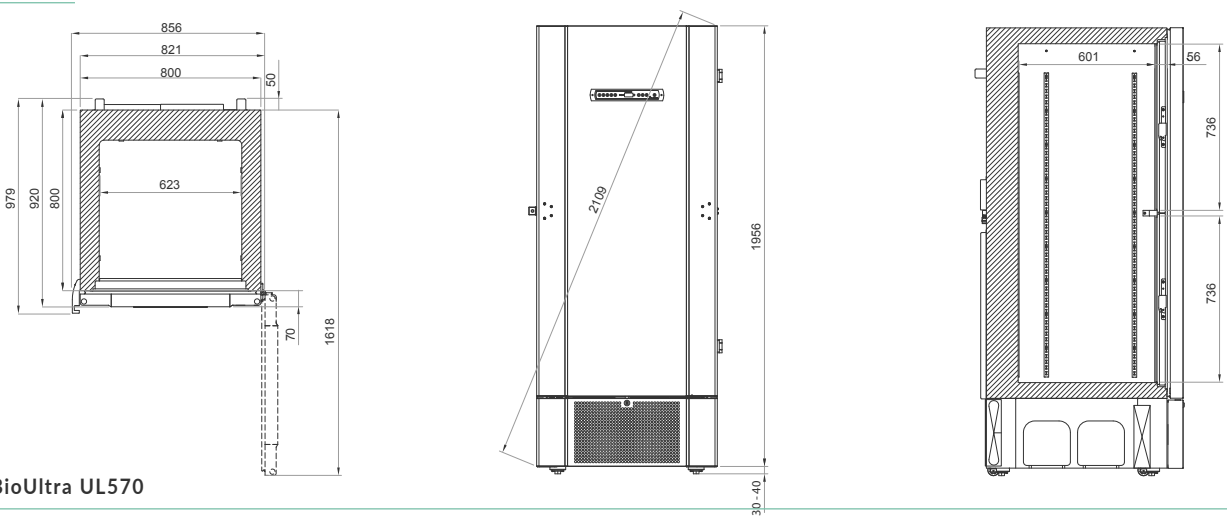


## ExGuard 600W

HB code: 30, 31, 33, 35, 36, 37

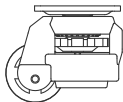
| Wheels/castors                                                                     |         | Legs                                                                               |           |
|------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------|-----------|
|  |         |  |           |
| Code                                                                               | HB (mm) | Code                                                                               | HB* (mm)  |
| 30                                                                                 | 125     | 35                                                                                 | 100 - 135 |
| 31                                                                                 | 125     | 36                                                                                 | 135 - 200 |
| 33                                                                                 | 109     | 37                                                                                 | 185 - 250 |

## BioUltra



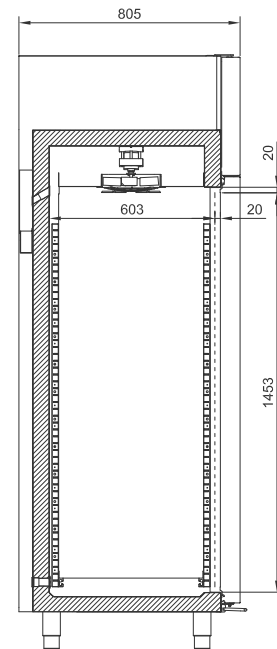
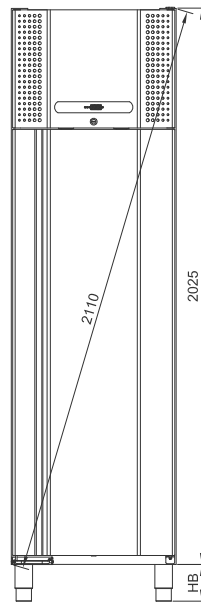
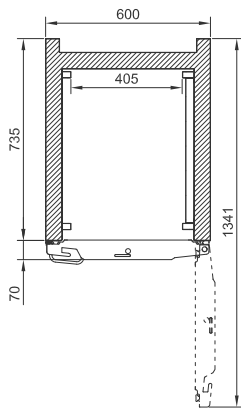
## BioUltra UL570

HB code: 29

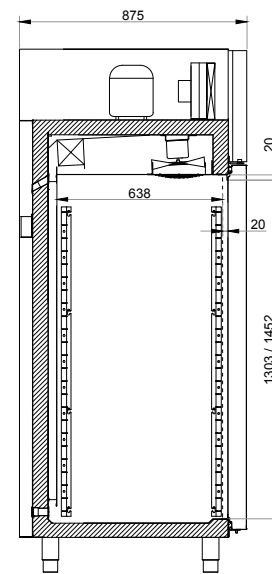
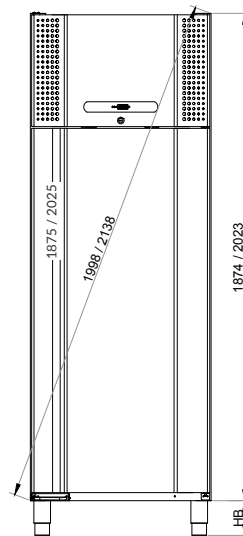
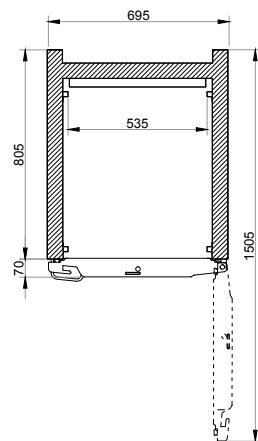
| Levelling castors                                                                   |         |
|-------------------------------------------------------------------------------------|---------|
|  |         |
| Code                                                                                | HB (mm) |
| 29                                                                                  | 30-40   |

# Dimensions, cabinets

## BioPlus 500



## BioPlus 600/660D



## BioPlus 500

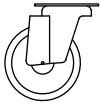
HB code: 30, 31, 33, 35, 36, 37 or 38

Note: 20 mm air passage is 25 mm when cabinet is equipped with draught shield (option 70)

## BioPlus 600/660D

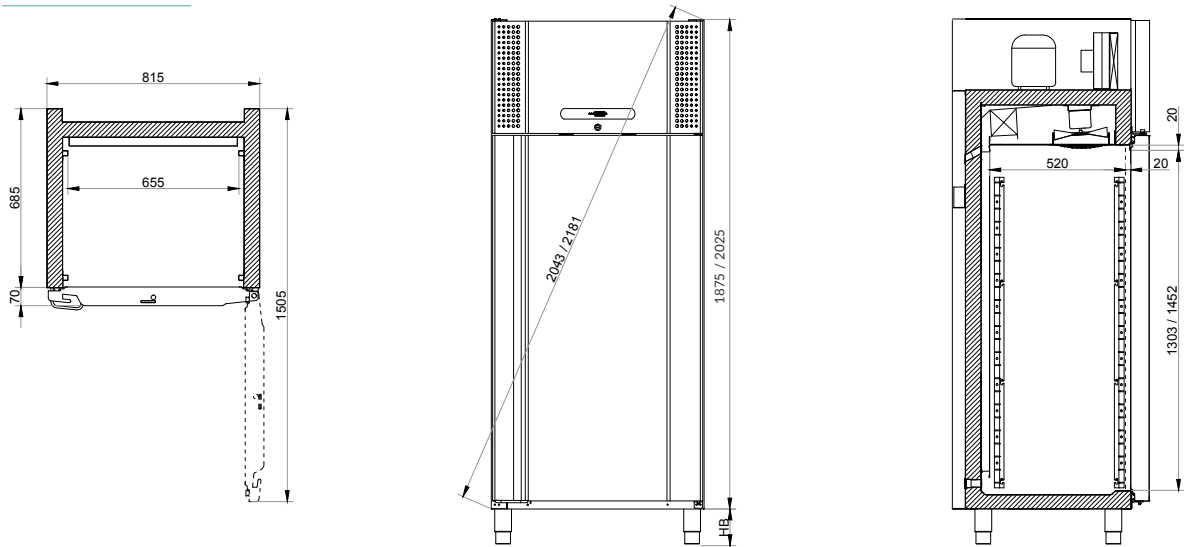
HB code: 30, 31, 33, 35, 36, 37 or 38

Note: 20 mm air passage is 25 mm when cabinet is equipped with draught shield (option 70)

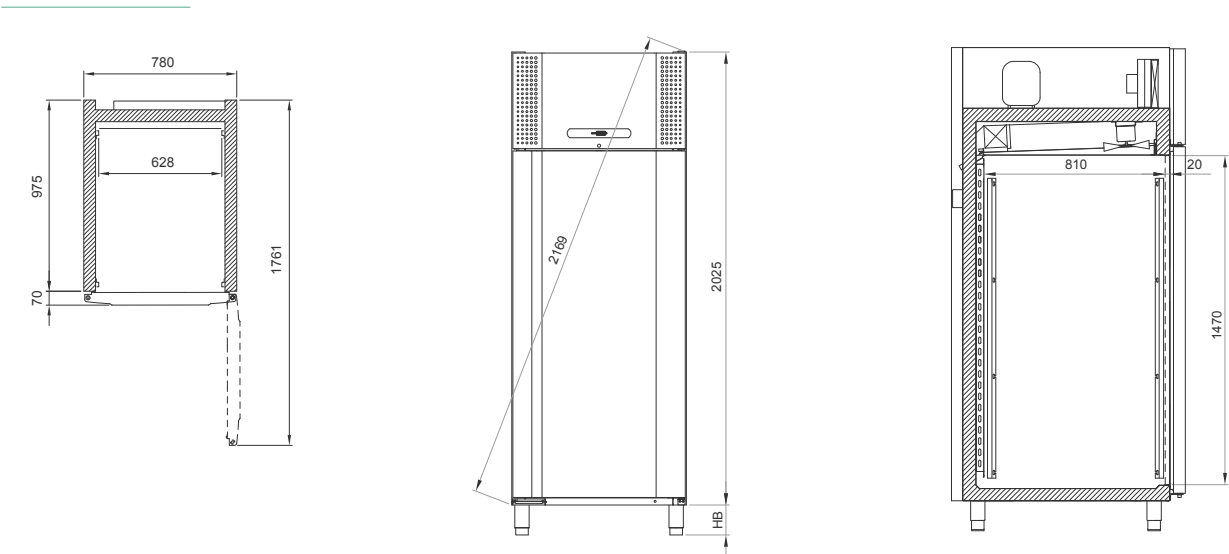
| Wheels/castors                                                                      |         | Legs                                                                                |           | Plinth mounting |         |
|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----------|-----------------|---------|
|  |         |  |           |                 |         |
| Code                                                                                | HB (mm) | Code                                                                                | HB (mm)   | Code            | HB (mm) |
| 30                                                                                  | 125     | 35                                                                                  | 100 - 135 | 38              | 0       |
| 31                                                                                  | 125     | 36                                                                                  | 135 - 200 |                 |         |
| 33                                                                                  | 109     | 37                                                                                  | 185 - 250 |                 |         |

# Dimensions, cabinets

## BioPlus 600/660W



## BioPlus 930

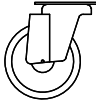


## BioPlus 600/660W

HB code: 30, 31, 33, 35, 36, 37 or 38  
 Note: 20 mm air passage is 25 mm when cabinet is equipped with draught shield (option 70)  
 Width on EF and PF models are 22 mm greater than given on the drawing due to the handle

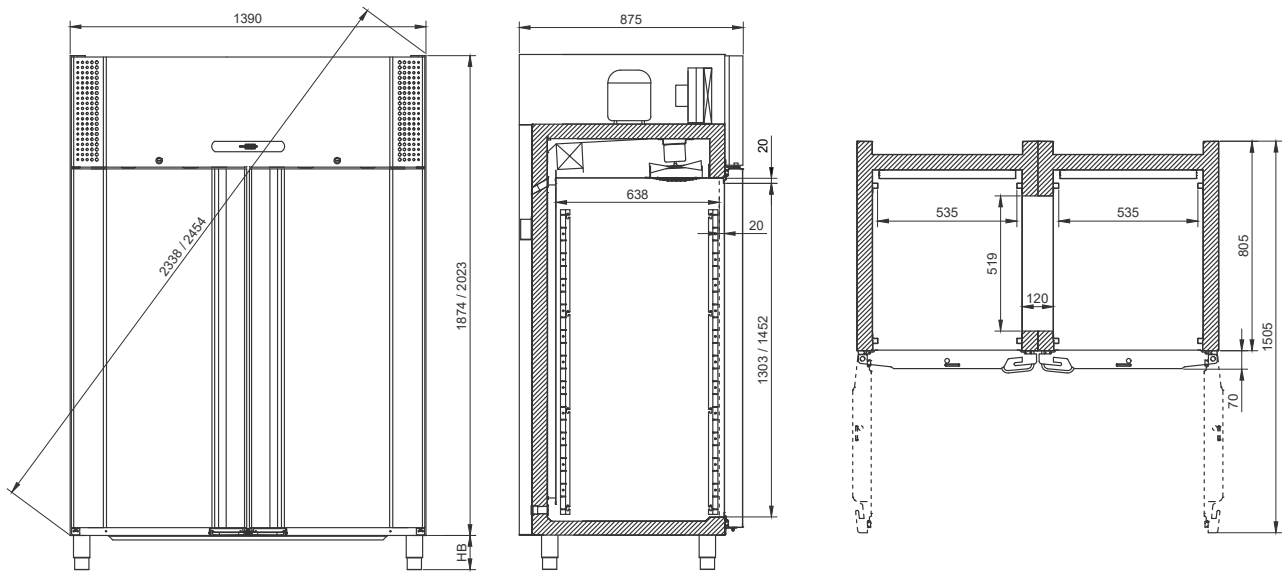
## BioPlus 930

HB code: 30, 31, 33, 35, 36, 37 og 38

| Wheels/castors                                                                      |         | Legs                                                                                |           | Plinth mounting |         |
|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----------|-----------------|---------|
|  |         |  |           |                 |         |
| Code                                                                                | HB (mm) | Code                                                                                | HB (mm)   | Code            | HB (mm) |
| 30                                                                                  | 125     | 35                                                                                  | 100 - 135 | 38              | 0       |
| 31                                                                                  | 125     | 36                                                                                  | 135 - 200 |                 |         |
| 33                                                                                  | 109     | 37                                                                                  | 185 - 250 |                 |         |

# Dimensions, cabinets

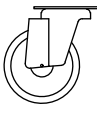
## BioPlus 1270/1400



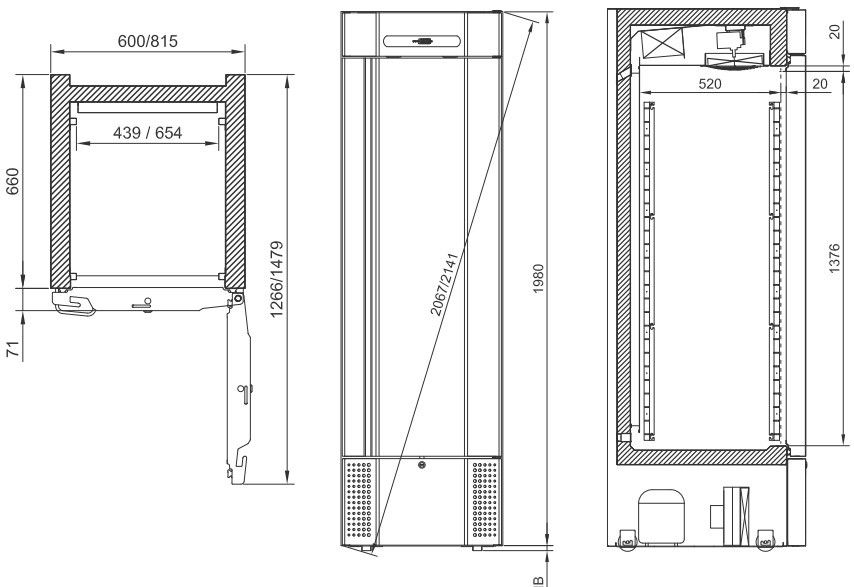
## BioPlus 1270/1400

HB code: 31, 33, 35, 36, 37 or 38

Note: 20 mm air passage is 25 mm when cabinet is equipped with draught shield (option 70)

| Wheels/castors                                                                      |         | Legs                                                                                |           | Plinth mounting |         |
|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----------|-----------------|---------|
|  |         |  |           |                 |         |
| Code                                                                                | HB (mm) | Code                                                                                | HB (mm)   | Code            | HB (mm) |
| 31                                                                                  | 125     | 35                                                                                  | 100 - 135 | 38              | 0       |
| 33                                                                                  | 109     | 36                                                                                  | 135 - 200 |                 |         |
|                                                                                     |         | 37                                                                                  | 185 - 250 |                 |         |

## BioMidi 425/625



## BioMidi 425/625

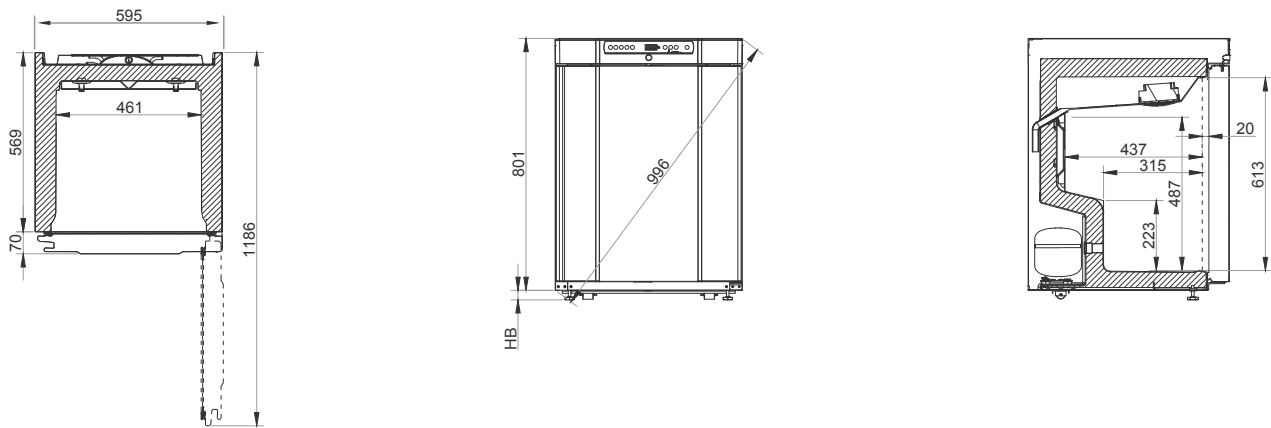
HB code: 32 or 38

Note: 20 mm air passage is 25 mm when cabinet is equipped with draught shield (option 70). Width on EF and PF models are 22 mm greater than given on the drawing due to the handle.

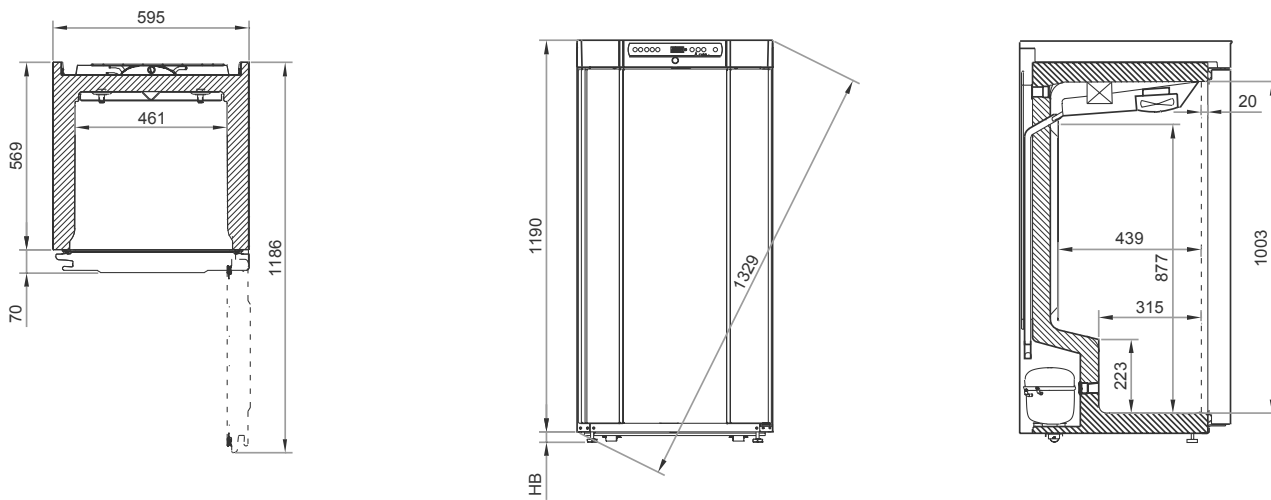
| Recessed wheels                                                                       |         | Plinth mounting |         |
|---------------------------------------------------------------------------------------|---------|-----------------|---------|
|  |         |                 |         |
| Code                                                                                  | HB (mm) | Code            | HB (mm) |
| 32                                                                                    | 20      | 38              | 0       |

# Dimensions, cabinets

## BioCompact II 210



## BioCompact II 310

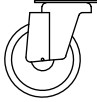


## BioCompact II 210

HB code: 30, 31, 33, 34, 35, 36, 38 or 39

## BioCompact II 310

HB code: 30, 31, 33, 34, 35, 36, 38 or 39

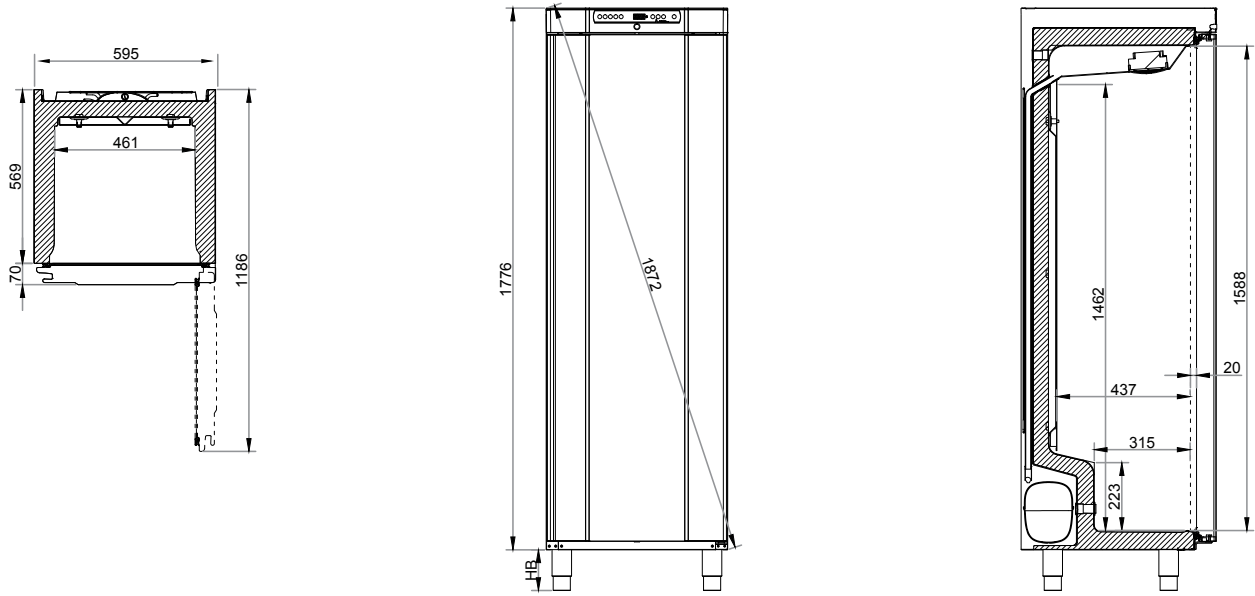
| Wheels/castors                                                                      |         | Wheels/skids                                                                        |         | Legs                                                                                |           | Plinth mounting |         | Skids                                                                                 |         |
|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----------|-----------------|---------|---------------------------------------------------------------------------------------|---------|
|  |         |  |         |  |           |                 |         |  |         |
| Code                                                                                | HB (mm) | Code                                                                                | HB (mm) | Code                                                                                | HB (mm)   | Code            | HB (mm) | Code                                                                                  | HB (mm) |
| 30                                                                                  | 125     | 34                                                                                  | 30      | 35                                                                                  | 100 - 135 | 38              | 0       | 39                                                                                    | 30      |
| 31                                                                                  | 125     |                                                                                     |         | 36                                                                                  | 135 - 200 |                 |         |                                                                                       |         |
| 33                                                                                  | 109     |                                                                                     |         |                                                                                     |           |                 |         |                                                                                       |         |



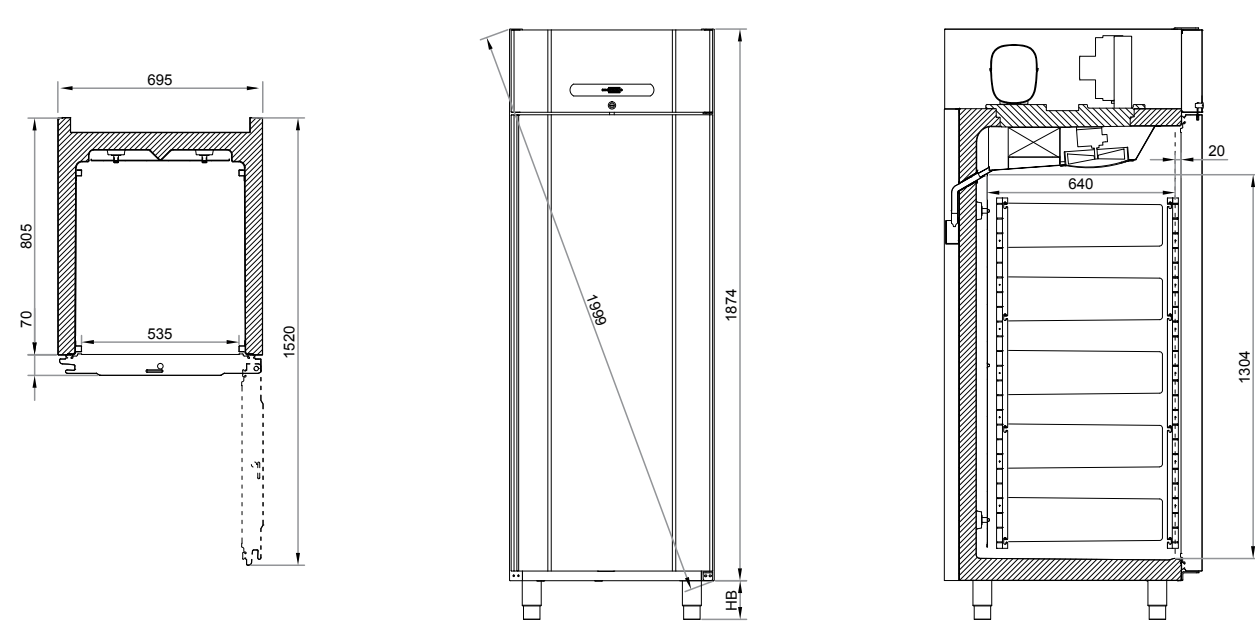


# Dimensions, cabinets

BioCompact II 410



BioCompact II 610

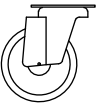


BioCompact II 410

HB code: 30, 31, 33, 35 36 or 38

BioCompact II 610

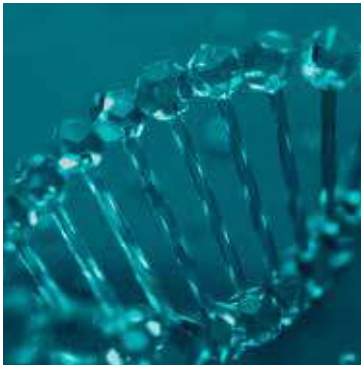
HB code: 30, 31, 33, 35, 36 or 38

| Wheels/castors                                                                      |         | Legs                                                                                |           | Plinth mounting |         |
|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----------|-----------------|---------|
|  |         |  |           |                 |         |
| Code                                                                                | HB (mm) | Code                                                                                | HB (mm)   | Code            | HB (mm) |
| 30                                                                                  | 125     | 35                                                                                  | 100 - 135 | 38              | 0       |
| 31                                                                                  | 125     | 36                                                                                  | 135 - 200 |                 |         |
| 33                                                                                  | 109     |                                                                                     |           |                 |         |

# BIOBASIC 210, 310, 410, 600



The BIOBASIC range offers cost-effective biostorage solutions for a host of applications



With temperature alarms, internal and external ATEX, no cold walls and a user-friendly interface, the BIOBASIC range provides an exceptional selection of features in a very small package.

With four sizes to choose from, the BIOBASIC range is well suited for use in confined spaces where performance, features and value are paramount.

- All available as refrigerators or freezers.



## Internal and external ATEX

The BIOBASIC range provides full ATEX compliance – both internal and external – at no extra charge.

BIOBASIC cabinets comply with EN/IEC 60079-15, electrical apparatus for use in Category 3, Zone 2 locations where explosive gas atmospheres may be present.

Enabling placement of cabinets within actual work zones, rather than at a remote location, as would be required with only internal ATEX compliance.

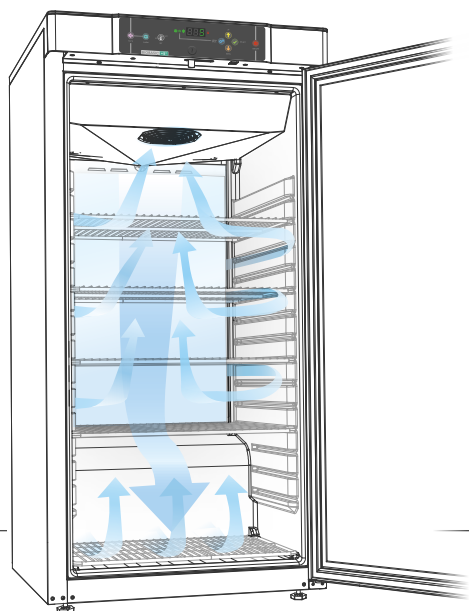


# BIOBASIC RR210, 310, 410, 600

## Refrigerators



| Technical specifications       | RR210                                                                                                                                        | RR310                                             | RR410                                             | RR600                                             |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Temperature range              | +2/+15 °C                                                                                                                                    |                                                   |                                                   |                                                   |
| Ambient temperature range      | Solid door +10/+35 °C / Glass door +10/+32 °C                                                                                                |                                                   |                                                   | Solid door +10/+43 °C                             |
| Control Unit                   | Bespoke user friendly BIOBASIC control unit featuring acoustic/visual temperature and door alarms, voltage free contact and offset function. |                                                   |                                                   |                                                   |
| Material: Interior<br>Exterior | PS lining<br>White lacquered steel                                                                                                           |                                                   |                                                   | Stainless steel<br>White lacquered steel          |
| Dimensions mm (W x D x H)      | 595 x 640 x 831                                                                                                                              | 595 x 640 x 1220                                  | 595 x 640 x 1876                                  | 700 x 895 x 2125                                  |
| Gross volume/<br>Net volume    | 125 litres<br>104 litres                                                                                                                     | 218 litres<br>189 litres                          | 346 litres<br>312 litres                          | 610 litres<br>536 litres                          |
| Plastic coated wire shelves    | 3 total number                                                                                                                               | 4 total number                                    | 6 total number                                    | 4 total number                                    |
| Refrigerant                    | R600a                                                                                                                                        |                                                   |                                                   | R290                                              |
| Energy consumption             | 0,43 kWh/24h                                                                                                                                 | 0.51 kWh/24h                                      | 0.59 kWh/24h                                      | 1.44 kWh/24h                                      |
| Energy consumption glass door  | 0.79 kWh/24h                                                                                                                                 | 0.90 kWh/24h                                      | 1.31 kWh/24h                                      |                                                   |
| Noise level                    | 33.3/33,6 dB(A)                                                                                                                              | 34.1/35.2 dB(A)                                   | 33.2/33.7 dB(A)                                   | 44.4/- dB(A)                                      |
| Base                           | Wheels/skids                                                                                                                                 | Wheels/skids                                      | Height-adjustable legs                            | Height-adjustable legs                            |
| Air system                     | Gram BioLine ventilated air distribution system                                                                                              |                                                   |                                                   |                                                   |
| Defrost system                 | Automatic smart defrost with re-evaporation of defrost water                                                                                 |                                                   |                                                   |                                                   |
| Solid door item number         | 782530001                                                                                                                                    | 783530001                                         | 784530001                                         | 786000001                                         |
| Glass door item number         | 782540001                                                                                                                                    | 783540001                                         | 784540001                                         | -                                                 |
| Connection                     | 230 V, 50 Hz                                                                                                                                 | 230 V, 50 Hz                                      | 230 V, 50 Hz                                      | 230 V, 50 Hz                                      |
| Access ports                   | 1                                                                                                                                            | 1                                                 | 1                                                 | 2                                                 |
| ATEX-marking                   | II 3G Ex ec ic IIB T6 Gc<br>ExVeritas 26ATEX2343X                                                                                            | II 3G Ex ec ic IIB T6 Gc<br>ExVeritas 26ATEX2343X | II 3G Ex ec ic IIB T6 Gc<br>ExVeritas 26ATEX2343X | II 3G Ex ec ic IIB T6 Gc<br>ExVeritas 26ATEX2342X |
| Price solid door               | € 1,665                                                                                                                                      | € 1,835                                           | € 1,995                                           | € 2,965                                           |
| Price glass door               | € 1,930                                                                                                                                      | € 2,100                                           | € 2,260                                           | -                                                 |



### AIR DISTRIBUTION

The unique forced air distribution system makes sure the temperature inside the cabinet remains stable and uniform. With the finned tube evaporator placed in the top, there are no cold walls in the cabinet.

# BIOBASIC RF210, 310, 410, 600

## Freezers



| Technical specifications       | RF210                                                                                                                                        | RF310                                             | RF410                                             | RF600                                             |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Temperature range              | -25/-5 °C                                                                                                                                    |                                                   |                                                   |                                                   |
| Ambient temperature range      | Solid door +10/+35 °C                                                                                                                        |                                                   |                                                   | Solid door +10/+43 °C                             |
| Control Unit                   | Bespoke user friendly BIOBASIC control unit featuring acoustic/visual temperature and door alarms, voltage free contact and offset function. |                                                   |                                                   |                                                   |
| Material: Interior<br>Exterior | PS lining<br>White lacquered steel                                                                                                           |                                                   |                                                   | Stainless steel<br>White lacquered steel          |
| Dimensions mm (W x D x H)      | 595 x 640 x 831                                                                                                                              | 595 x 640 x 1220                                  | 595 x 640 x 1876                                  | 700 x 895 x 2125                                  |
| Gross volume/<br>Net volume    | 125 litres<br>104 litres                                                                                                                     | 218 litres<br>189 litres                          | 346 litres<br>312 litres                          | 610 litres<br>536 litres                          |
| Plastic coated wire shelves    | 3 total number                                                                                                                               | 4 total number                                    | 6 total number                                    | 4 total number                                    |
| Refrigerant                    | R600a                                                                                                                                        |                                                   |                                                   | R290                                              |
| Energy consumption             | 1.47 kWh/24h                                                                                                                                 | 1.56 kWh/24h                                      | 2.06 kWh/24h                                      | 3.77 kWh/24h                                      |
| Noise level                    | 37.7 dB(A)                                                                                                                                   | 37.8 dB(A)                                        | 36.6 dB(A)                                        | 44.4 dB(A)                                        |
| Base                           | Wheels/skids                                                                                                                                 | Wheels/skids                                      | Height-adjustable legs                            | Height-adjustable legs                            |
| Air system                     | Gram BioLine ventilated air distribution system                                                                                              |                                                   |                                                   |                                                   |
| Defrost system                 | Automatic smart defrost with re-evaporation of defrost water                                                                                 |                                                   |                                                   |                                                   |
| Gram BIOBASIC Item number      | 782550001                                                                                                                                    | 783550001                                         | 784550001                                         | 786020001                                         |
| Connection                     | 230 V, 50 Hz                                                                                                                                 | 230 V, 50 Hz                                      | 230 V, 50 Hz                                      | 230 V, 50 Hz                                      |
| Access port                    | 1                                                                                                                                            | 1                                                 | 1                                                 | 2                                                 |
| ATEX-marking                   | II 3G Ex ec ic IIB T3 Gc<br>ExVeritas 26ATEX2343X                                                                                            | II 3G Ex ec ic IIB T3 Gc<br>ExVeritas 26ATEX2343X | II 3G Ex ec ic IIB T3 Gc<br>ExVeritas 26ATEX2343X | II 3G Ex ec ic IIB T2 Gc<br>ExVeritas 26ATEX2342X |
| Price                          | € 1,775                                                                                                                                      | € 1,945                                           | € 2,105                                           | € 3,165                                           |



### Top panel with BIOBASIC control unit

The BIOBASIC control unit is specifically developed for users of BIOBASIC. Among its many features are acoustic/ visual temperature and door alarms, voltage free contact (NO/NC) for remote temperature and power failure alarm, monitoring and read out of highest and lowest temperature, controller key pad lock, off set function.

Door lock comes as standard with two keys.



### Performance is key

With the finned tube evaporator placed in the top separated from the storage compartment there is no cold walls in the cabinet.

Utilizing clever design and quality components, the BIOBASIC range manages to offer cost-effective performance on a small footprint.



Biostorage you can depend on

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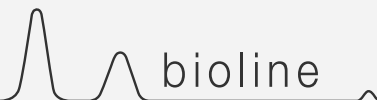


**Gram Scientific ApS** is one of the world's prime manufacturers of high-performance refrigeration and freezer equipment for discerning professional users.

We develop, manufacture and market this technology for customers in Europe, the Middle East and Asia, operating from our administration and manufacturing facilities in Denmark. This is all backed by branches in the UK, Germany, the Netherlands, Sweden and Norway and distributors throughout the world.

[www.gram-bioline.com](http://www.gram-bioline.com)

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