

ExGuard



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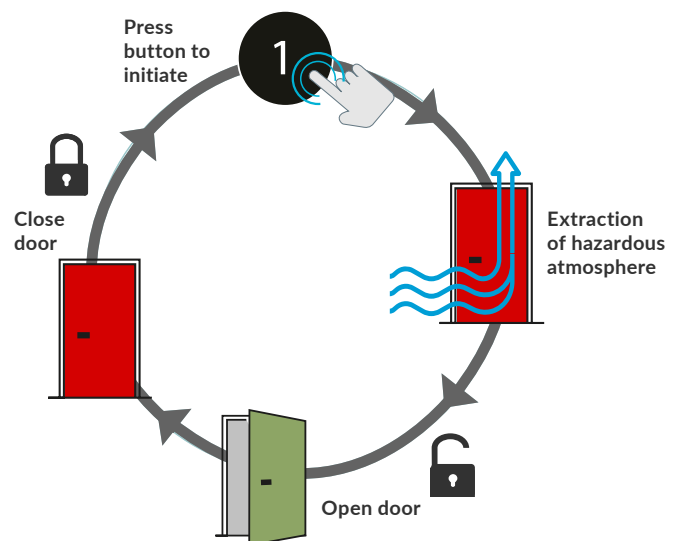
The ExGuard is designed for safe temperature controlled storage of items potentially emitting noxious, malodorous and/or explosive atmospheres. At the core, the ExGuard is envisioned to facilitate a safer work environment for users.

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 Category 3 Zone 2 compliance, thereby keeping the work environment safety as high as possible.

Easy to use

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



ExGuard ER600W

The ExGuard is currently available as a 614 litre refrigerator in stainless/stainless or white lacquered/stainless with glass or solid door. Drawers and shelves are optional extras.

Ex II 3G Ex ec nC ic IIB T1 Gc
DTI 19ATEX0113X



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Version 03. Valid from 19.04.22



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Extraction controller

– dedicated controller for access management and extraction of cabinet interior. Hazardous atmosphere extraction mechanism – allowing hazardous atmospheres to be replaced by ambient air before the door can be opened.



Access port

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



E-sensor

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



Shelves and drawers

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



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

Stainless steel interior

The internal sides and bottom as well as shelf and drawer brackets and support rails are made of stainless steel.



All ExGuard models comply with ATEX Category 3 Zone 2 requirements, both internally and externally, allowing for placement in locations where explosive atmospheres may be present.



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.

Technical specifications	ExGuard
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	Stainless steel
Material exterior	White lacquered steel or stainless steel
Dimensions mm (W x D x H)	820 x 789 x 1996/2246
Gross volume	614 litres
Net volume	486 litres
Net weight	Unpackaged net weight without optional fittings: 166 kg
Modules for shelves and drawers	Shelves 48 - Drawers 9
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
Refrigeration capacity at -10 °C	R290 389 watt
Co ₂ e	-
Energy consumption	1.62 kWh/24h
Sound level	46,3 db(A)
Base	Legs*
Connection	230 V, 50 Hz
Air system	Gram BioLine ventilated air distribution system
Defrost system	Automatic smart defrost with re-evaporation of defrost water

* The cabinets can also be delivered with castors at no extra charge