# BioPlus 600/660W



The **BioPlus 600/660W** 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 ER cabinets 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. The BioPlus utilises environmentally responsible HFC-free foam propellants and is available with HFC-free refrigerants.

BioPlus 600/660W. Drawers and glass door are optional extras. (Glass door for ER only).



The BioPlus 600/660W is available as a refrigerator or freezer in either white or stainless steel finish. All BioPlus models come with self-closing door. Glass door is available for refrigerators.

Version 04. Valid from 21.04.22



(Ex) II 3G Ex nA nC nL IIB T2 Gc

# Biostorage you can depend on

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A wide range of versatile interior fittings

specifications and the interior layout can

and layouts is available. The operating

Shelves and drawers

both be customised.

ATEX

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





## AIR DISTRIBUTION

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



### Access port

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



## Stainless steel interior

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

E-sensor

Extra sensor

for providing a

compartment.

temperature reference

within the storage

#### ATEX

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





Technical specifications	BioPlus ER600/660W	BioPlus RF 600/660W
Temperature range	+20/-2 °C	-5/-25 °C
Ambient temperature range	Solid door 10/43 °C; glass door (ER) 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 Material exterior	Stainless steel White lacquered steel or stainless steel	
Dimensions mm (W x D x H)	600 W: 815 x 756 x 1875/2125 / 660W: 815 x 756 x 2025/2275	
Gross volume	600 W: 600 litres/21.2 cubic feet / 660W: 660 litres/23.3 cubic feet	
Net volume	600 W: 432 litres/15.3 cubic feet / 660W: 484 litres/17.0 cubic feet	
Net weight	Unpacked net weight without optional fittings: 600: 146 kg / 660: 152 kg	
Modules for shelves and drawers	600 W: Shelves 24 - Drawers 12 / 660W: Shelves 27 - Drawers 13	
Insulation	60 mm polyrethane with HFC-free cyclopentane propellent	
K-value	Glass door 0.49/ 0.49 W/m2K	Solid door 0.31/0.31 W/m2K
Refrigerant	R290/R134a*	R290/R404A*
Co <sub>2</sub> e	R134a: 329/R134a (Dual regrigeration circuit): 615	R404A: 902/R404A (Dual regrigeration circuit): 1545
Refrigeration capacity at -10 °C	R290 389 Watt R134a 314 Watt	
Refrigeration capacity at -25 °C		R290 512 Watt R404A 16 Watt
Energy consumption	1.35 kWh/24h/1.28 kWh/24h	4.07 kWh/24h/4.46 kWh/24h
Sound level	44.8 dB(A)/48.5 dB(A)	45.8 dB(A)/49.3 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 or for mounting on a plinth at no extra charge

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