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The BioPlus 600/660D is available as a refrigerator or freezer in either white or stainless steel finish. Choose between well-insulated glass or solid doors.

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GRAM
Biostorage you can depend on

BioPlus 600/660D

The **BioPlus 600/660D** 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 cabinets also enable you to reduce internal relative humidity, thus cutting down on any likelihood of undesirable contaminants getting near delicate biomaterials.

Available in either white or stainless steel finish, with well-insulated glass or solid doors.



BioPlus 660D.
Drawers and glass door are optional extras.



Biostorage you can depend on

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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 for monitoring systems and/or remote alarms. The display can be easily locked. An integrated Gram monitor, for providing documentation for the internal cabinet conditions is fitted on the control.



BioPlus 600/660D

Access port

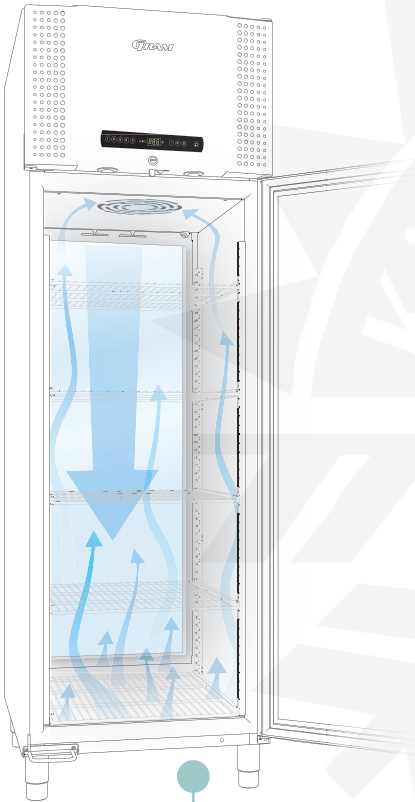
24.5 mm port for ease of access, e.g. sensors for external temperature surveillance.

E-sensor

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

Shelves and drawers

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



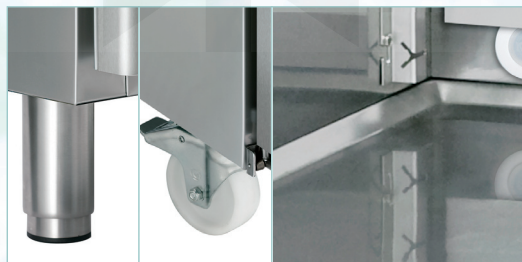
Technical specifications	BioPlus ER 600/660	BioPlus RF 600/660
Temperature range	2/15 °C	-5/-25 °C
Ambient temperature range	10/40 °C	
Control Unit	Gram BioLine MPC 4.6, voltage-free contact, E-sensor, acoustic door and temperature alarms that can be programmed individually, alarm recording, dry cool function (ER) and calibration function.	
Material interior	Stainless steel	
Material exterior	Lacquered steel or stainless steel	
Dimensions mm (W x D x H)	600D: 695 x 876 x 2010* / 660D: 695 x 876 x 2160	
Gross volume	600D: 600 litres/21.2 cubic feet / 660D: 660 litres/23.3 cubic feet	
Net volume	600D: 432 litres/15.3 cubic feet / 660D: 484 litres/17.0 cubic feet	
Modules for shelves and drawers	600D: Shelves 24 - Drawers 12 / 660D: Shelves 27 - Drawers 13	
Insulation (mm)	60 mm (cyclopentane)	
Refrigerant	R290 / R134a	R290 / R404A
Base	Legs**	
Connection	230 V, 50 Hz	
Noise level (DbA)	ER 600D: 46 / ER 660D: 45.9	RF 600D: 47.3 / RF 660D: 45.6
Refrigeration capacity at -10 °C	R290 389 Watt / R134a 314 Watt	
Refrigeration capacity at -25 °C	R290 475 Watt / R404a 568 Watt	
Air system	Ventilated Gram distribution system	
Defrost system	Smart defrost (fan and electric defrost element)	Smart defrost (electric defrost element)

* Available in height less than 2000 mm

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

Air distribution

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



Castors and legs Stainless steel interior

The internal sides and bottom are of stainless steel. Shelf and drawer brackets and support rails are also made of stainless steel.

bioline