

BioBlood 500



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BioBlood BR500.
Drawers and chart recorder are optional extras.

The **BioBlood 500** design is customised to meet the special requirements associated with the controlled storage of blood, plasma and blood-related products.

These advanced cabinets have been developed exclusively for blood storage in order to help ensure high, consistent quality at every stage from donor to transfusion. This means uniquely stringent specifications of all the components.

BioBlood cabinets also provide users with an excellent view of the contents. A glass door lets you see at a glance what is inside the cabinet, making checking and access both quicker and easier.

The **BioBlood 500** utilises environmentally responsible HFC-free foam propellants and is available with HFC-free refrigerants.



The BioBlood 500 is available as a refrigerator or freezer in either white or stainless steel finish. All BioBlood models come with selfclosing door. Glassdoor is available for refrigerator.

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BioBlood 500



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Top panel with BioBlood control unit

The MPC unit is specially developed for users of storage cabinets in the BioBlood range. Among its many features are acoustic temperature and door alarms, and a voltage-free contact (NO/NC) for remote alarms. The display can be locked.



Access port

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



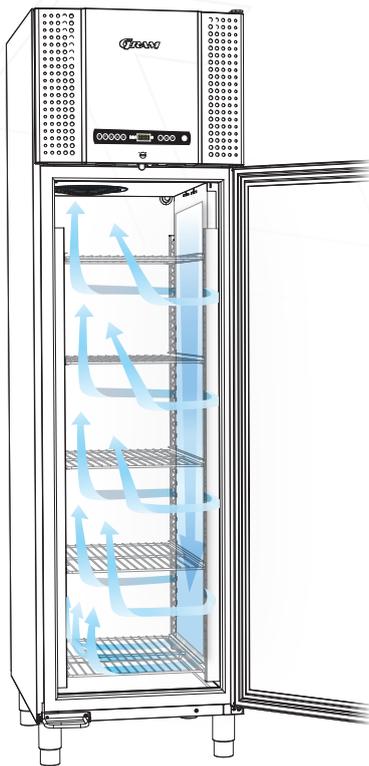
E-sensor

Extra sensor and reference container 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.



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.

Castors and legs

Can be fitted with castors or feet, or mounted on a plinth.



Stainless steel interior

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

Technical Specifications	BioBlood BR500	BioBlood BF500
Temperature range	+6/+2 °C	-5/-25 °C
Ambient temperature range	Solid door 10/43 °C - Glass door 10/38 °C	
Control Unit	Gram Control Unit with internal Gram Monitor, voltage-free contact, E-sensor, acoustic and visual door and temperature alarms that can be programmed individually, alarm recording and calibration function	
Material interior	Stainless steel	
Material exterior	White lacquered steel or stainless steel	
Dimensions mm (W x D x H)	600 x 806 x 2025/2275	
Gross volume	500 litres/17.7 cubic feet	
Net volume	365 litres/12.9 cubic feet	
Net weight	Unpackaged net weight without optional fittings: 130 kg	
Modules for shelves and drawers*	Shelves 52 - Drawers 13	
Insulation	60 mm polyurethane with HFC-free cyclopentane propellant	
Refrigerant	R290 / R134a	R290 / R404A
Refrigeration capacity at -10 °C	R290 389 Watt / R134a 314 Watt	-
Refrigeration capacity at -25 °C	-	R290 475 Watt / R404a 568 Watt
Energy consumption	1.26 kWh/24h	3.83 kWh/24h
Co ₂ e	R134a: 372	R404A: 981
Sound level	48,7 dB(A)	51,2 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	

BioBlood 600/660D



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BioBlood BR660D.
Drawers and chart recorder are optional extras.

The **BioBlood 600/660** design is customised to meet the special requirements associated with the controlled storage of blood, plasma and blood-related products.

These advanced cabinets have been developed exclusively for blood storage in order to help ensure high, consistent quality at every stage from donor to transfusion. This means uniquely stringent specifications of all the components.

BioBlood cabinets also provide users with an excellent view of the contents. A glass door lets you see at a glance what is inside the cabinet, making checking and access both quicker and easier.

The **BioBlood 600/600D** cabinet utilises environmentally responsible HFC-free foam propellants and is available with HFC-free refrigerants.



The BioBlood 600/660D is available as a refrigerator or freezer in either white or stainless steel finish. All BioBlood models come with selfclosing door. Glassdoor is available for refrigerator.

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BioBlood 600/660D



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Top panel with BioBlood control unit

The MPC unit is specially developed for users of storage cabinets in the BioBlood range. Among its many features are acoustic temperature and door alarms, and a voltage-free contact (NO/NC) for remote alarms. The display can be locked.



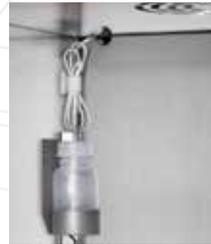
Access port

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



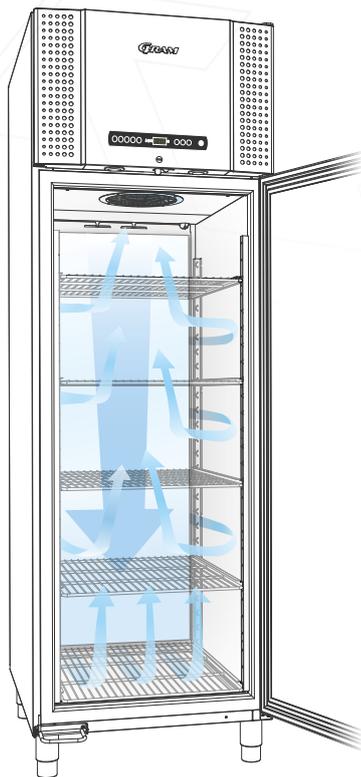
E-sensor

Extra sensor and reference container 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.



AIR DISTRIBUTION

The unique Gram BioLine air adistribution 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

Can be fitted with castors or feet, or mounted on a plinth. The internal sides and bottom as well as shelf and drawer brackets and support rails are made of stainless steel.



Technical specifications	BioBlood BR600/660D	BioBlood BF600/660D
Temperature range	+6/+2 °C	-5/-25 °C
Ambient temperature range	Solid door 10/43 °C; glass door (BF) 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	
Material exterior	White lacquered steel or stainless steel	
Dimensions mm (W x D x H)	600D: 695 x 876 x 1875/2125 / 660D: 695 x 876 x 2025/2275	
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	
Net weight	Unpackaged net weight without optional fittings: 600D: 146 kg / 660: 152 kg	
Modules for shelves and drawers	600D: Shelves 24 - Drawers 12 / 660D: Shelves 27 - Drawers 13	
Insulation	60 mm polyurethane with HFC-free cyclopentane propellant	
Refrigerant	R290 / R134a	R290 / R404A
Refrigeration capacity at -10 °C	R290 389 Watt / R134a 314 Watt	-
Refrigeration capacity at -25 °C	-	R290 475 Watt / R404a 568 Watt
Energy consumption	600D: 1.26 kWh/24h / 660D: 1.18 kWh/24h	600D: 4.03 kWh/24h / 660D: 4.32 kWh/24h
CO ₂ e	R134a: 329	R404A: 902
Sound level	48.5 dB(A)	49.8 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	

BioBlood 600/660W



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BioBlood BR660W
Drawers and chart recorder are optional extras.

The **BioBlood 600/660W** design is customised to meet the special requirements associated with the controlled storage of blood, plasma and blood-related products.

These advanced cabinets have been developed exclusively for blood storage in order to help ensure high, consistent quality at every stage from donor to transfusion. This means uniquely stringent specifications of all the components.

BioBlood cabinets also provide users with an excellent view of the contents. A glass door lets you see at a glance what is inside the cabinet, making checking and access both quicker and easier.

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



The BioBlood 600/660W is available as a refrigerator or freezer in either white or stainless steel finish. All BioBlood models come with selfclosing door. Glassdoor is available for refrigerator.

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BioBlood 600/660W



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Top panel with BioBlood control unit

The MPC unit is specially developed for users of storage cabinets in the BioBlood range. Among its many features are acoustic temperature and door alarms, and a voltage-free contact (NO/NC) for remote alarms. The display can be locked.



Access port

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



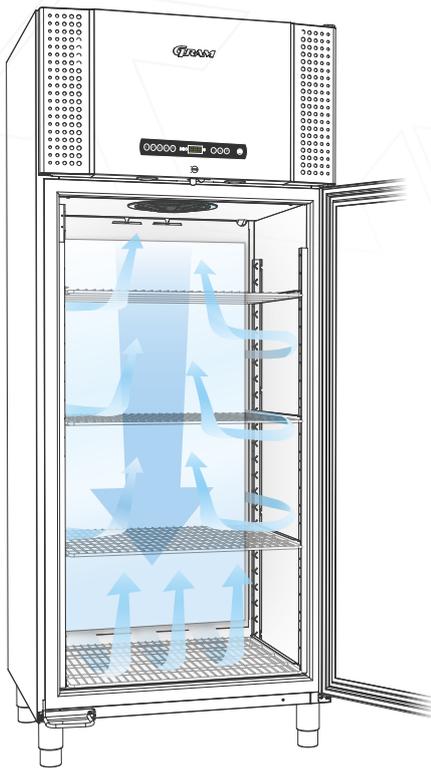
E-sensor

Extra sensor and reference container 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.



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.

Castors and legs

Castors, legs or plinth-mounting are available as optional extras.



Stainless steel interior

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

Technical specifications	BioBlood BR600/660W	BioBlood BF600/660W
Temperature range	+6/+2 °C	-5/-25 °C
Ambient temperature range	Solid door 10/43 °C; glass door (BF) 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	
Material exterior	White lacquered steel or stainless steel	
Dimensions mm (W x D x H)	600W: 815 x 756 x 1875/2125 / 660W: 815 x 756 x 2025/2275	
Gross volume	600W: 600 litres/21.2 cubic feet / 660W: 660 litres/23.3 cubic feet	
Net volume	600W: 432 litres/15.3 cubic feet / 660W: 484 litres/17.0 cubic feet	
Net weight	Unpackaged net weight without optional fittings: 600W: 146 kg, 660W: 152 kg	
Modules for shelves and drawers	600W: Shelves 24 - Drawers 12 / 660W: Shelves 27 - Drawers 13	
Insulation	60 mm polyurethane with HFC-free cyclopentane propellant	
Refrigerant	R290 / R134a	R290 / R404A
CO ₂ e	R134a: 329 / R134a: (dual comp.): 615	R404A: 902 / R404A: (dual comp.): 1545
Refrigeration capacity at -10 °C	R290 389 Watt / R134a 314 Watt	-
Refrigeration capacity at -25 °C	-	R290 475 Watt / R404a 568 Watt
Energy consumption	600W: 1.35 kWh/24h / 660W: 1.28 kWh/24h	600W: 4.07 kWh/24h / 660W: 4.46 kWh/24h
Sound level	47.3 / 48.5 dB(A)	48.3 / 49.5 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	

BioBlood 930



Biostorage you can depend on



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

The **BioBlood 930** design is customised to meet the special requirements associated with the controlled storage of blood, plasma and blood-related products.

These advanced cabinets have been developed exclusively for blood storage in order to help ensure high, consistent quality at every stage from donor to transfusion. This means uniquely stringent specifications of all the components.

BioBlood cabinets also provide users with an excellent view of the contents. A glass door lets you see at a glance what is inside the cabinet, making checking and access both quicker and easier.

The **BioBlood 930** utilises environmentally responsible HFC-free foam propellants and is available with HFC-free refrigerants.



The BioBlood 930 is available as a refrigerator or freezer in either white or stainless steel finish. All BioBlood models come with selfclosing door. Glassdoor is available for refrigerator.

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BioBlood 930



Biostorage you can depend on

Top panel with BioBlood control unit

The MPC unit is specially developed for users of storage cabinets in the BioBlood range. Among its many features are acoustic temperature and door alarms, and a voltage-free contact (NO/NC) for remote alarms. The display can be locked.



Access port

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



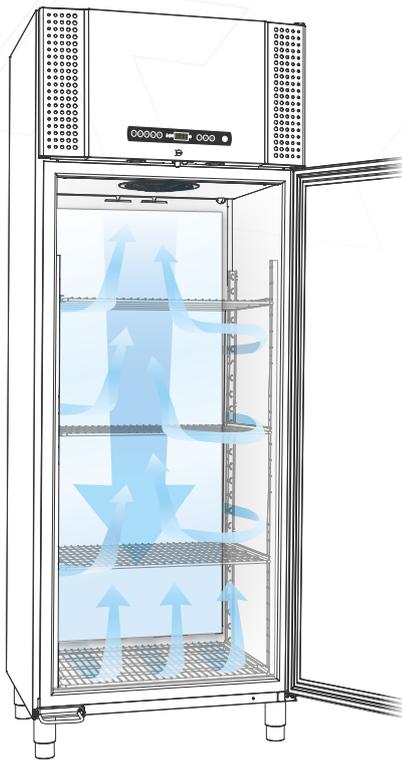
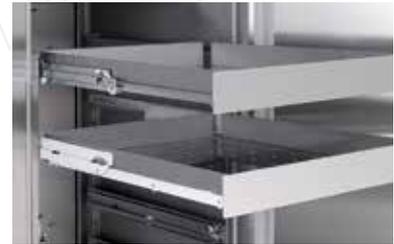
E-sensor

Extra sensor and reference container 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.



Stainless steel interior

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

Castors and legs

Can be fitted with castors, legs or mounted on a plinth.



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.

Technical specifications	BioBlood BR930	BioBlood BF930
Temperature range	+6/+2 °C	-5/-25 °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	Stainless steel	
Material exterior	White lacquered steel or stainless steel	
Dimensions mm (W x D x H)	780 x 1045 x 2025/2275	
Gross volume	930 litres/32.8 cubic feet	
Net volume	702 litres/24.8 cubic feet	
Net weight	Unpackaged net weight without optional fittings: 165 kg	
Modules for shelves and drawers	Shelves 27 - Drawers 13	
Insulation	60 mm polyurethane with HFC-free cyclopentane propellant	
Refrigerant	R290 / R134a	R290 / R404A
Refrigeration capacity at -10 °C	R290 389 watt; R134a 314 watt	-
Refrigeration capacity at -25 °C	-	R290 475 watt; R404A 568 watt
CO ₂ e	R134a: 572	R404A: 1177
Energy consumption	2,10 kWh/24h	6,12 kWh/24h
Noise level	48,5 db(A)	49,5 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	

BioBlood 1270/1400



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BioBlood BR1400.
Drawers and chart recorder are optional extras.

The **BioBlood 1270/1400** design is customised to meet the special requirements associated with the controlled storage of blood, plasma and blood-related products.

These advanced cabinets have been developed exclusively for blood storage in order to help ensure high, consistent quality at every stage from donor to transfusion. This means uniquely stringent specifications of all the components.

BioBlood cabinets also provide users with an excellent view of the contents. A glass door lets you see at a glance what is inside the cabinet, making checking and access both quicker and easier.

The **BioBlood 1270/1400** utilises environmentally responsible HFC-free foam propellants and is available with HFC-free refrigerants.



The BioBlood 1270/1400 is available as a refrigerator or freezer in either white or stainless steel finish. All BioBlood models come with selfclosing door. Glassdoor is available for refrigerator.

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BioBlood 1270/1400



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Top panel with BioBlood control unit

The MPC unit is specially developed for users of storage cabinets in the BioBlood range. Among its many features are acoustic temperature and door alarms, and a voltage-free contact (NO/NC) for remote alarms. The display can be locked.



Access port

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



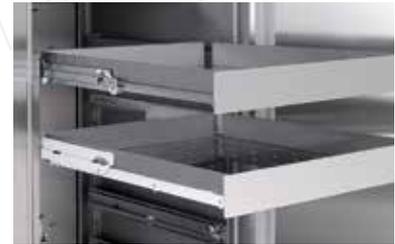
E-sensor

Extra sensor and reference container 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.



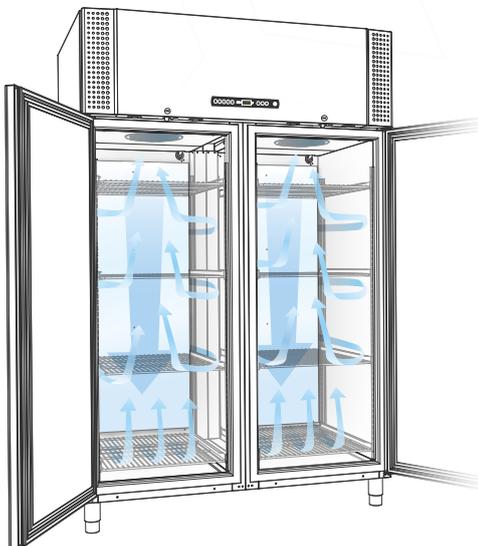
Castors and legs

Can be fitted with castors, legs or mounted on a plinth.



Stainless steel interior

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



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.

Technical specifications	BioBlood BR1270/1400	BioBlood BF1270/1400
Temperature range	+6/+2 °C	-5/-25 °C
Ambient temperature range	Solid door 10/43 °C; glass door (BR) 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	Stainless steel	
Material exterior	White lacquered steel or stainless steel	
Dimensions mm (W x D x H)	1270: 1390 x 876 x 1875/2125 / 1400: 1390 x 876 x 2025/2275	
Gross volume	1270: 1270 litres/44.8 cubic feet / 1400: 1400 litres/49.4 cubic feet	
Net volume	1270: 864 litres/30.6 cubic feet / 1400: 968 litres/34 cubic feet	
Net weight	Unpacked net weight without optional fittings: 271 kg / 283 kg	
Modules for shelves and drawers	1270: Shelves 48 - Drawers 24 / 1400: Shelves 52 - Drawers 26	
Insulation	60 mm polyurethane with HFC-free cyclopentane propellant	
Refrigerant	R290 / R134a	R290 / R404A
Refrigeration capacity at -10 °C	R290 946 Watt / R134a 703 Watt	-
Refrigeration capacity at -25 °C	-	R290 950 Watt / R404a 947 Watt
Energy consumption	1270: 2.5 kWh/24h 1400: 2.56 kWh/24h	1270: 7.97 kWh/24h 1400: 8.39 kWh/24h
CO ₂ e	R134a: 508 / R134a (dual comp.): 615	R404A: 1647 / R404A (dual comp.): 1726
Sound level	50.8 dB(A)	53.5 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	

BioBlood PF425



Biostorage you can depend on



BioBlood PF425.
Drawers are optional extras.

The **BioBlood PF425** cabinet is a low temperature plasma freezer that operates in the temperature range $-5/-40^{\circ}\text{C}$. It is a high-capacity ventilated refrigeration unit that makes sure the interior quickly returns to the specified temperature after the door has been opened.

The control unit is a special Gram Multi Purpose Controller with LED display. It features acoustic alarm that provides clear notification if either maximum or minimum permitted temperature is reached. An acoustic door alarm is also fitted. All alarm parameters are set separately. Another embedded feature in the control-unit is voltage-free contact for IT networks, monitoring systems and/or remote alarms. Add to this alarm recording and Hi/Low temperature read out. E-sensor for temperature reference in the storage compartment is standard.

The **BioBlood PF425** utilises environmentally responsible HFC-free foam propellants and is available with HFC-free refrigerants.

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



The BioBlood PF425 is available in either white or stainless steel finish. All models come with selfclosing door.

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BioBlood PF425



Biostorage you can depend on

Top panel with BioBlood control unit

The MPC unit is specially developed for users of storage cabinets in the BioBlood range. Among its many features are acoustic temperature and door alarms, and a voltage-free contact (NO/NC) for remote alarms. The display can be locked.



Access port

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



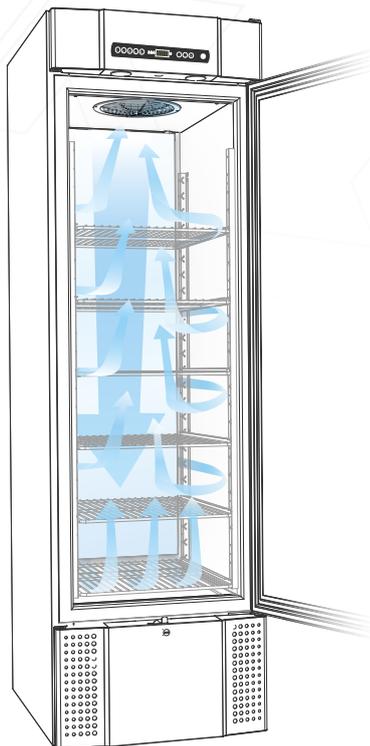
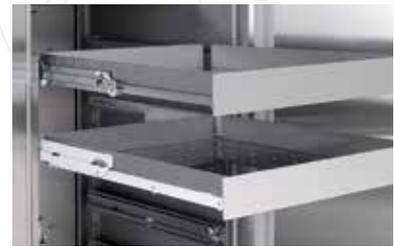
E-sensor

Extra sensor and reference container 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.



Aluminium/stainless steel interior

The interior base, including shelf or drawer brackets and support rails are made of stainless steel.



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.

Technical specifications	BioBlood PF425
Temperature range	-5/-40 °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	Stainless steel and inner doors in PMMA
Material exterior	White lacquered steel or stainless steel
Dimensions mm (W x D x H)	622 x 731 x 1979/2000
Gross volume	425 litres/15.0 cubic feet
Net volume	303 litres/10.7 cubic feet
Net weight	Unpackaged net weight without optional fittings: 112 kg
Modules for shelves and drawers	Shelves 25 - Drawers 12
Insulation	60 mm polyurethane with HFC-free cyclopentane propellant
Refrigerant	R290 / R404A
Refrigeration capacity at -40 °C	R290 396 Watt / R404A 378 Watt
CO ₂ e	R404A: 1059
Energy consumption	8.93 kWh/24h
Sound level	57,8 dB(A)
Base	Recessed wheels
Connection	230 V, 50 Hz
Air system	Gram BioLine ventilated air distribution system
Defrost system	Automatic smart defrost with re-evaporation of defrost water

BioBlood PF600/660W



Biostorage you can depend on



BioBlood PF660W

The BioBlood PF600/660W is available in either white or stainless steel finish. All BioBlood models come with selfclosing door.

The **BioBlood PF600/660W** cabinet is a low temperature plasma freezer that operates in the temperature range $-5/-35^{\circ}\text{C}$. It is a high-capacity ventilated refrigeration unit that makes sure the interior quickly returns to the specified temperature after the door has been opened.

The control unit is a special Gram Multi Purpose Controller with LED display. It features acoustic alarm that provides clear notification if either maximum or minimum permitted temperature is reached. An acoustic door alarm is also fitted. All alarm parameters are set separately. Another embedded feature in the control-unit is voltage-free contact for IT networks, monitoring systems and/or remote alarms. Add to this alarm recording and Hi/Low temperature read-out. E-sensor for temperature reference in the storage compartment is standard.

The **BioBlood PF600/660W** utilises environmentally responsible HFC-free foam propellants and is available with HFC-free refrigerants.

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

Exclusively for markets outside the european union.

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BioBlood PF600/660W



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Top panel with BioBlood control unit

The MPC unit is specially developed for users of storage cabinets in the BioBlood range. Among its many features are acoustic temperature and door alarms, and a voltage-free contact (NO/NC) for remote alarms. The display can be locked.



Access port

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



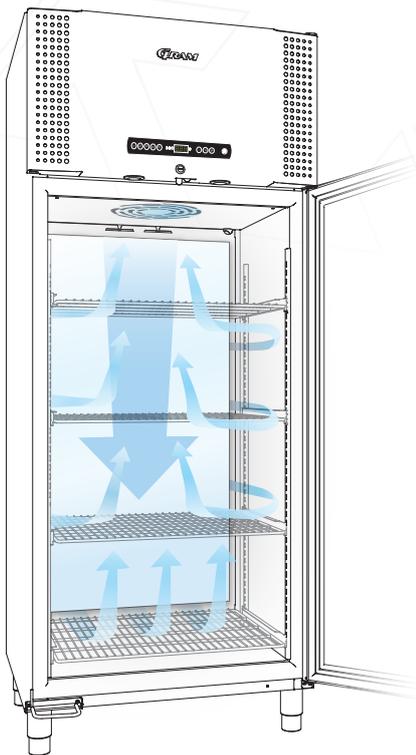
E-sensor

Extra sensor and reference container 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.



Castors and legs

Castors, legs or plinth-mounting are available as optional extras.

Stainless steel interior

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



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.

Technical specifications	BioBlood PF600/660W
Temperature range	-5/-35 °C
Ambient temperature range	10/30 °C
Control Unit	Gram Control Unit 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 and inner doors in PMMA
Material exterior	White lacquered steel or stainless steel
Dimensions mm (W x D x H)	837 x 756 x 1875/2125/ 660W: 837 x 756 x 2025/2275
Gross volume	600W: 600 litres/21.2 cubic feet / 660W: 660 litres/23.3 cubic feet
Net volume	600W: 432 litres/15.3 cubic feet / 660W: 484 litres/17.0 cubic feet
Net weight	Unpackaged net weight without optional fittings: 600W 146 kg 660W: 152 kg
Modules for shelves and drawers	600W: Shelves 24 - Drawers 12 / 660W: Shelves 27 - Drawers 13
Insulation	60 mm polyurethane with HFC-free cyclopentane propellant
Refrigerant	R290 / R404A
Refrigeration capacity at -40 °C	R290 244 watt; R404A 313 watt
CO ₂ e	R404A: 1412 / R404A (dual comp.): 1545
Energy consumption	600W: 8.86 kWh/24h / 660W: 9.02 kWh/24h
Sound level	55,3 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

