smeg
INSTRUMENTS



HEALTHCARE

Blood bank refrigerators and plasma-freezers

MADE IN ITALY
TAILOR-MADE SOLUTIONS FOR HOSPITALS

Thanks to its long and consolidated experience in the in-house production of technologies for the treatment of medical instruments, Smeg is able to guarantee its customers high standard refrigeration performances.
The range of refrigeration devices include professional refrigerators, plasma freezers and blood banks.



RESPONSIBLE PRODUCTION

Smeg is committed to producing appliances in a responsible manner, complying with international standards and ensuring performance that meets the expectations of operators in the sector. Specific programmes are designed to facilitate responsible product use and avoid wasting energy.

Safe storage of blood bags

In the realm of healthcare, the safe storage of blood and plasma is critical to ensuring the efficacy and safety of transfusions. Smeg Instruments is dedicated to providing state-of-the-art solutions for blood banks, plasma-freezers, and related facilities.

Refrigeration technology

The advanced refrigeration and freezing technology is specifically designed to maintain optimal conditions for the preservation of blood components.

Focus on control

By combining precision temperature control with robust safety features, Smeg Instruments ensures that every unit is equipped to handle the delicate nature of these vital materials.

Applications

From hospitals and blood treatment centers to research institutions, our products offer unmatched reliability and performance, reflecting the corporate commitment to supporting the global healthcare community in its mission to save lives.

traceability safety stability efficiency

UNMATCHED TECHNOLOGY

Smeg models are engineered to deliver exceptional performance in temperature control and energy efficiency. They feature specialized storage solutions designed specifically for blood/plasma bags and samples.
Each model comes equipped with a state-of-the-art remote monitoring system and a sophisticated alarm feature, ensuring optimal preservation of the contents within the chamber.

CERTIFICATION AND COMPLIANCE

Smeg's DM equipment, including Plasma Freezers and Blood Banks, is officially listed in the Italian National Register of Medical Devices and is certified in accordance with the 2017/745 Medical Device Regulation (MDR), Class IIa.



INNOVATIVE SOLUTIONS FOR MAXIMUM SECURITY IN BAGS STORAGE

TEMPERATURE STABILITY AND UNIFORMITY

Smeg equipment is engineered with advanced refrigeration systems to rapidly achieve and maintain the target temperature with remarkable stability and uniformity. The microprocessor-controlled systems allow precise customization of set points with a resolution of ±0.1°C.

MAXIMUM SAFETY

Constructed with hot-dip galvanized steel and anti-corrosion treated PVC film, the external structures ensure durability. Internally, the Scotch-Brite stainless steel provides a hygienic and resilient environment. Eco-friendly, CFC-free polyurethane insulation enhances preservation and energy efficiency.

SECURITY AND IMMEDIATE TRACEABILITY

Smeg blood management solutions are equipped with both visual and audible alarms to notify of any issues, including temperature deviations, communication failures, door openings, and power interruptions. A backup battery maintains temperature and alarm records even during power outages, ensuring continuous monitoring.

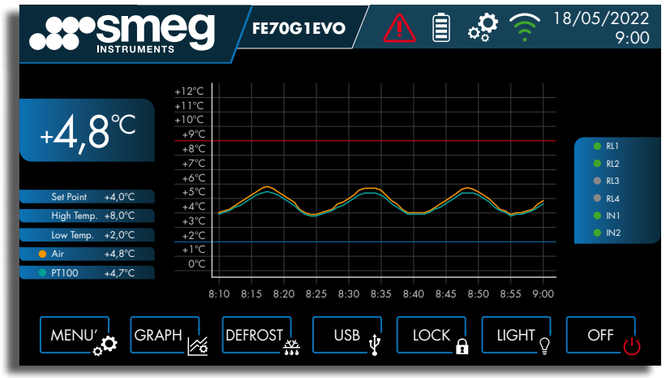
OPTIMIZATION OF INTERNAL SPACES

Models feature Scotch-Brite stainless steel drawers with telescopic ball-bearing slides and plexiglass fronts, maximizing storage efficiency and accessibility.



EVOLUTION LINE

Smeg Instruments continually innovates to deliver exceptional performance. The Evolution models feature a 7-inch touchscreen display with an enhanced graphical interface. This user-friendly system includes a range of programs and intuitive functions for professional operation.



KEY FEATURES

WI-FI CONNECTIVITY

STANDARD ON EVOLUTION MODELS, WI-FI CONNECTIVITY ENABLES REAL-TIME COMMUNICATION WITH THE CLOUD FOR REMOTE MONITORING (WHERE AVAILABLE), DATA EXPORT, AND RECORD-KEEPING. THIS FEATURE PROVIDES IMMEDIATE VISIBILITY OF APPLIANCE OPERATIONS AND ALLOWS FOR PROMPT, REMOTE CUSTOMER SUPPORT AND ISSUE RESOLUTION.

ENERGY EFFICIENCY

SMEG LATEST RANGE, EQUIPPED WITH ADVANCED DISPLAYS, ENSURES OPTIMAL PERFORMANCE WHILE MINIMIZING ENERGY CONSUMPTION. THE INTERFACE ALLOWS FOR PRECISE TEMPERATURE ADJUSTMENTS, VISUAL AND ACOUSTIC ALARM DISPLAYS, AND EFFICIENT TRACKING OF APPLIANCE SETTINGS.

ELECTRONIC MANAGEMENT

- REAL-TIME TEMPERATURE GRAPH
- OPERATING SET POINTS
- HIGH AND LOW TEMPERATURE LIMITS
- TEMPERATURE PROBES (COMPARTMENT, EVAPORATOR, CONDENSER, CONTROL)
- ON/OFF STATUS AND BATTERY MONITORING
- VOLTAGE AND LIGHT STATUS
- VISUAL AND AUDIBLE ALARMS (TEMPERATURE, BLACKOUT, COMPRESSOR USE)
- REFRIGERATION STATUS (PAUSE, COOLING, DEFROST)

BLOOD BANK REFRIGERATORS

EVOLUTION LINE



- temperature range from +2 °C to +6 °C - factory preset to +4 °C
- internal volume from 100 to 1400 litres
- n. 1 self-closing insulated double glass door (n. 2 for 1400 litres version)
- hinges for door opening on right side (possibility to indicate left side when ordering)
- safety door lock with key
- microprocessor electronic control
- real-time temperature graph that can be customized and always visible on the display
- full Led technology with variable intensity
- n. 4 selectable languages (Italian, English, French and Spanish)
- audible and visual alarms
- n.11 alarms: high and low temperature, open door, condenser cleaning, probes defective, power/backup battery failure, gas charge needed, etc
- precision datalogger with temperature data measurement and alarms up to 10 years, data sampling with frequency up to 30"
- ability to recall historical data and view them on the display in graphical form
- USB port for downloading temperature and alarm data
- n. 4 temperature probes: no. 3 NTC for the temperature of cabinet, evaporator and condenser and 1 PT100 for controlling and alarms
- defrosting with automatic evaporation of condensate water (programmable cycles)
- evaporator ventilated with forced air
- scotch-brite stainless steel drawers with telescopic ball-bearing slides and Plexiglas frontal side
- n. 4 wheels (6 for 1400 litres version) + n. 2 front mounting adjustable feet
- ecological polyurethane insulation 60 mm thick
- CFC-free R452a refrigerant gas. CFC/HCFC-free R290 refrigerant gas for European countries
- electrical connection: 1/N/PE 230 V - 50 Hz - 245 W
- detachable power cord with Schuko plug
- medical device according to (EU) Regulation 2017/745 (Annex IX) class IIa

	FE10G1EVO	FE15G1EVO	FE20G1EVO	FE25G1EVO	FE30G1EVO	FE45G1EVO	FE52G1EVO	FE70G1EVO	FE140G2EVO
Internal volume (L)	100	150	200	250	300	450	520	700	1400
N° of bags	64	96	128	160	192	275	330	385	770
Display	7" True Color touch screen	7" True Color touch screen	7" True Color touch screen	7" True Color touch screen	7" True Color touch screen	7" True Color touch screen	7" True Color touch screen	7" True Color touch screen	7" True Color touch screen
External dimensions LxPxH (cm)	60x60x86	60x60x136	60x60x156	60x60x176	60x60x196	70x80x184	70x80x204	70x80x199	140x80x199
Standard drawers	2	3	4	5	6	5	6	7	14

BLOOD BANK REFRIGERATORS

BASIC LINE



- temperature range from +2 °C to +6 °C - factory preset to +4 °C
- internal volume from 100 to 1400 litres
- n. 1 self-closing insulated double glass door (n. 2 for 1400 litres version)
- hinges for door opening on right side (possibility to indicate left side when ordering)
- safety door lock with key
- microprocessor electronic control
- n. 4 languages available (Italian, English, French, Spanish)
- memory capacity of 4 MB - 46000 data record, last 20 alarms available on display
- audible and visual alarms
- n. 7 different alarms: high temperature (adjustable threshold), low temperature (adjustable threshold), open door, condenser cleaning, probes defective, power failure, backup battery failure
- temperature chart recorder (optional)
- USB port for data downloading
- GSM module (optional)
- ethernet port for LAN connection (optional)
- defrosting with automatic evaporation of condensate water (programmable cycles)
- evaporator ventilated with forced air
- scotch-brite stainless steel drawers with telescopic ball-bearing slides and Plexiglas frontal side
- n. 4 wheels (6 for 1400 litres version) + n. 2 front mounting adjustable feet
- ecological polyurethane insulation 60 mm thick
- CFC-free R452a refrigerant gas. CFC/HCFC-free R290 refrigerant gas for European countries.
- electrical connection: 1/N/PE 230 V - 50 Hz - 245 W
- detachable power cord with Schuko plug
- medical device according to (EU) Regulation 2017/745 (Annex IX) class IIa

	FE10G1A	FE15G1A	FE20G1A	FE25G1A	FE30G1A	FE45G1A	FE52G1A	FE70G1A	FE140G2A
Internal volume (L)	100	150	200	250	300	450	520	700	1400
N° of bags	64	96	128	160	192	275	330	385	770
Display	Soft touch LCD display	Soft touch LCD display	Soft touch LCD display	Soft touch LCD display	Soft touch LCD display	Soft touch LCD display	Soft touch LCD display	Soft touch LCD display	Soft touch LCD display
External dimensions LxPxH (cm)	60x60x86	60x60x136	60x60x156	60x60x176	60x60x196	70x80x184	70x80x204	70x80x199	140x80x199
Standard drawers	2	3	4	5	6	5	6	7	14

PLASMA FREEZER

EVOLUTION LINE

high resolution 7 "True Color full touch screen graphic display

backup battery for temperature visualization and alarms acquisition up to 48h without power connection

standard Wi-Fi connectivity for remote data control and access (optional, where available) to a personal portal for data storage and monitoring, alarm notification in the cloud

internal structure made of Scotch-Brite stainless steel



- temperature range from -32 °C to -25 °C – (from -42°C to -30°C for 600 and 700 litres versions)
- internal volume from 160 to 700 litres
- n. 1 blind self-closing door, hinges for door opening on right side (possibility to indicate left side when ordering)
- safety door lock with key
- microprocessor electronic control
- real-time temperature graph that can be customized and always visible on the display
- full Led technology with variable intensity
- n. 4 selectable languages (Italian, English, French and Spanish)
- audible and visual alarms
- n.11 alarms: high and low temperature, open door, condenser cleaning, probes defective, power/backup battery failure, gas charge needed, etc
- precision datalogger with temperature data measurement and alarms up to 10 years, data sampling with frequency up to 30"
- USB port for downloading temperature and alarm data
- n. 4 temperature probes: no. 3 NTC for the temperature of cabinet, evaporator and condenser and 1 PT100 for controlling and alarms
- ability to recall historical data and view them on the display in graphical form
- evaporator static type
- manual defrosting
- scotch-brite stainless steel drawers adjustable in height with telescopic ball-bearing slides and Plexiglas frontal side. Optional Plexiglas internal dividers.
- n. 4 wheels + n. 2 front mounting adjustable feet
- ecological polyurethane insulation 80 mm thick
- CFC-free R452a refrigerant gas. CFC/HCFC-free R290 refrigerant gas for European countries.
- electrical connection: 1/N/PE 230 V - 50 Hz - 450 W
- detachable power cord with Schuko plug
- Medical device certification according to (EU) Regulation 2017/745 (Annex IX) class IIa

	CP30S16C1EVO	CP30S22C1EVO	CP30S25C1EVO	CP30S32C1EVO	CP40S60C1EVO	CP40S70C1EVO
Internal volume (L)	160	220	250	320	600	700
N° of bags	96	128	160	192	300	330
Temperature range (°C)	-32 / -25	-32 / -25	-32 / -25	-32 / -25	-42 / -30	-42 / -30
Display	7" True Color touch screen	7" True Color touch screen	7" True Color touch screen	7" True Color touch screen	7" True Color touch screen	7" True Color touch screen
External dimensions LxPxH (cm)	64x62x140	64x62x160	64x62x180	64x62x200	78x84x193	88x90x203
Standard drawers	3	4	5	6	6	6

PLASMA FREEZER

BASIC LINE

soft touch user interface with LCD display

backup battery for temperature visualization and alarms acquisition up to 48h without power connection

internal structure made of Scotch-Brite stainless steel



- temperature range from -32 °C to -25 °C - (from -42°C to -30°C for 600 and 700 litres versions)
- internal volume from 160 to 700 litres
- n. 1 blind self-closing door
- hinges for door opening on right side (possibility to indicate left side when ordering)
- n. 1 safety door lock with key
- microprocessor electronic control
- n. 4 languages available (Italian, English, French, Spanish)
- memory capacity of 4 MB - 46000 data record, last 20 alarms available on display
- audible and visual alarms
- n. 7 different alarms: high temperature (adjustable threshold), low temperature (adjustable threshold), open door, condenser cleaning, probes defective, power failure, backup battery failure
- USB port for data downloading
- GSM module (optional)
- Ethernet port for LAN connection (optional)
- Weekly temperature chart recorder (optional)
- evaporator static type
- manual defrosting
- scotch-brite stainless steel drawers adjustable in height with telescopic ball-bearing slides and Plexiglas frontal side. Optional Plexiglas internal dividers.
- n. 4 wheels + n. 2 front mounting adjustable feet
- ecological polyurethane insulation 80 mm thick
- electrical connection: 1/N/PE 230 V - 50 Hz - 450 W
- detachable power cord with Schuko plug
- Medical device certification according to (EU) Regulation 2017/745 (Annex IX) class IIa

	CP30S16C1A	CP30S22C1A	CP30S25C1A	CP30S32C1A	CP40S60C1A	CP40S70C1A
Internal volume (L)	160	220	250	320	600	700
N° of bags	96	128	160	192	300	330
Temperature range (°C)	-32 / -25	-32 / -25	-32 / -25	-32 / -25	-42 / -30	-42 / -30
Display	Soft touch LCD display	Soft touch LCD display	Soft touch LCD display	Soft touch LCD display	Soft touch LCD display	Soft touch LCD display
External dimensions LxPxH (cm)	64x62x140	64x62x160	64x62x180	64x62x200	78x84x193	88x90x203
Standard drawers	3	4	5	6	6	6

BLOOD BANKS AND PLASMA FREEZERS

The Smeg range of blood bank refrigerators and plasmafreezers responds to different storage needs for sensitive materials. With capacities ranging from 100 to 1400 litres, the devices are designed to adapt to any space, from small hospital units to large research departments. This flexibility allows space optimisation and guarantees maximum safety and quality in bag storage.

BLOOD BANK REFRIGERATORS



	FE10G1EVO	FE30G1EVO	FE70G1EVO	FE140G2EVO
	100l	300l	700l	1400l
	64	192	385	770

Available with 150, 200, 250, 450, 520 l capacity

PLASMA FREEZERS



	CP30S16C1EVO	CP30S25C1EVO	CP30S32C1EVO	CP40S60C1EVO
	160l	250l	320l	600l
	96	160	192	300

Available with 220 and 700 l capacity

SMEG PROFESSIONAL REFRIGERATION

In a sector where efficiency and quality are essential for the outcome of daily activities, Smeg Instruments, an Italian player recognised for its historical know-how in the medical sector, presents its range of products dedicated to professional refrigeration.

With an unwavering commitment to innovation and quality, Smeg offers products designed to meet the specific needs of healthcare facilities while ensuring maximum safety and reliability.

Smeg refrigeration units are designed to preserve the integrity of drugs, vaccines and biological samples, which are essential for the health and well-being of patients.

Each model in the range is equipped with advanced technologies that ensure precise and consistent temperature control, minimising the risks associated with storage while ensuring a pleasant user experience.



POSITIVE TEMPERATURE PROFESSIONAL REFRIGERATORS

DUAL-TEMPERATURE REFRIGERATORS

PROFESSIONAL FREEZERS

For further information on Smeg professional refrigeration: instruments@smeg.it

Founded in 1948, SMEG, whose name stands for 'Smalterie Metallurgiche Emiliane Guastalla', is a proudly Italian company renowned for the responsible production of creations that combine Made in Italy technology and design. Having consolidated its position in the household appliances sector, Smeg has expanded its business with two professional divisions.
The Instruments division, dedicated to professionals in the medical, pharmaceutical, laboratory and care sectors, offers technologically advanced solutions for refrigeration, washing and disinfection. The Professional division, dedicated to professionals in the Ho.Re.Ca. sector, offers a wide range of high performance washing, cooking and refrigeration solutions. The SMEG S.p.A. Group is today recognized internationally as a point of excellence of Made in Italy.

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INSTRUMENTS

Smeg S.p.A. si riserva di apportare senza preavviso tutte le modifiche che riterra utili al miglioramento dei propri prodotti.

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