

Automated blood bank refrigerators/Hemosafe®



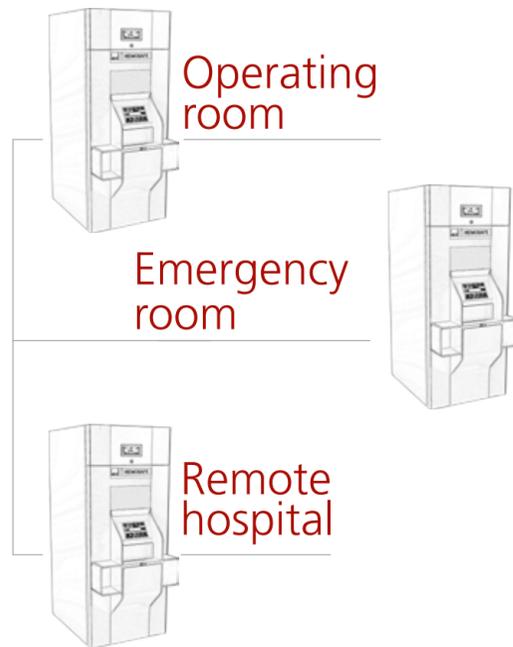
# Hemosafe® Safety is in our blood.

The right blood to the right patient at the right time.  
The world's most advanced blood bank refrigerator.

Hemosafe® is the automated and computerized blood bank refrigerator that allows you to allocate and pick the right bag for the right patient at the point of care and at the time of actual need.

The small remote hospitals will benefit from a virtual extension of the Centralized Blood Bank.

- ✓ Increased patient safety
- ✓ Increased efficiency for the Blood Bank
- ✓ Reduction of transport costs
- ✓ Reduced wastage of blood
- ✓ Reduced delivery time
- ✓ Complete traceability until delivery to the point of care



Angelantoni Life Science (ALS), a sub-holding fully owned by Angelantoni Industrie, is one of the leading international companies in the supply of refrigerating equipment and the design of technological solutions in the biomedical industry, with a constant commitment to biological and environmental innovation and safety.

Research centers, hospitals, laboratories, universities and industrial companies in the pharmaceutical and chemical industry are the recipients of ALS production, which covers all the needs for refrigeration, infection control and microbiological safety with a wide range of standard and special products. With its agents and distributors in over 40 countries, Angelantoni Life Science is the ideal partner in the healthcare sector and scientific research.

Our strength comes from the skills of our engineers and the experience they have gained in design, from the professionalism of our technicians in production and service and the coordination of experienced managers supporting our staff.

Each team member contributes their enthusiasm and scientific and industrial knowledge to a work environment that stimulates innovation and development. Angelantoni Life Science invests more than 10% of its turnover in Research and Development, involving a multidisciplinary team of technicians and researchers.

Founded in 1932, Angelantoni Industrie is an industrial group with 4 plants and over 500 employees. It is one of the world's leading companies in the production of environmental and space simulation chambers (ATT Angelantoni Test Technologies), cold technology applications in pharmaceutical and hospital research (ALS Angelantoni Life Science), Energy Efficiency (Turboalgor) and Solar Thermodynamic Energy (Archimede Solar Energy receiver tubes).



Angelantoni Plants



**Angelantoni Life Science S.r.l.**  
**MASSA MARTANA HEADQUARTERS**  
Località Cimacolle, 464 - 06056 Massa Martana (PG)  
tel. (+39) 075.89551 - fax (+39) 075.8955312  
**MILANO HEADQUARTERS**  
viale Monza, 291 - 20126 Milano (MI)  
tel. (+39) 02.939701.1



biomedical@angelantoni.it

www.angelantonilifescience.it



Copyright © Angelantoni Life Science S.r.l. - Illustration, description and technical data may be changed without notice.



Automated blood bank refrigerators  
Hemosafe®



## Automated blood bank refrigerators /Hemosafe® Series



Notified body No. :  
2460



Hemosafe® offers storage and controlled access up to 92 units of blood.

The operator identifies the patient with the integrated scanner and Hemosafe® automatically delivers the most suitable bag for transfusion, selected in real time based on the compatibility criteria of the Blood Bank Information System, connected by network.

Each bag is checked in and out for validity inside of equipment for immediate updating of stocks.

### Safe and prompt delivery. No human error.

Thanks to the network connection to the Blood Bank Information System, Hemosafe® always selects the most suitable bag for each patient, according to ABO / Rh / Kell /Phonotype compatibility, expiration date and other parameters chosen by the managers of the Blood Bank.

The selected unit of blood is automatically delivered in the operator's hands in less than 60 seconds and controlled by the reading of bar codes and/or RFID to ensure maximum safety.

The operators access to units of blood is controlled by means of a username and password and is limited to units of blood compatible with the selected patient.

### Blood safety everywhere, everytime.

Hemosafe® increases the security levels of the Blood Bank and extends them to small and remote peripheral hospitals, ensuring the immediate availability of blood at the point of care 24/7, reducing the activities of specialized staff and the number of travels between hospitals and Blood Bank.

### Cost reduction for the Blood Bank.

The hospital Blood Bank devotes much time to analyze, check and prepare extra blood, requested by wards and remote hospitals "just in case", which is not transfused. The excess blood is returned to the Blood Bank, inspected, made available and re-issued for a new patient, resulting in unnecessary work and transport back and forth with the risk of deterioration of blood components.

Thanks to the implementation of the electronic crossmatch, Hemosafe® allows to reduce the number of compatibility test and the number of allocated and not transfused blood units: Hemosafe® can maintain a supply of blood units available for more patients to be electronically allocated in a few seconds, only in case of an actual need of transfusion.

Hemosafe allows the remote and real time blood assignment to the patient.

The allocation request is generated by identifying the patient at the same blood bank refrigerator. The entire procedure, from inquiry to delivery, takes few time.

Hemosafe® allows you to reduce the costs associated with transportation, unnecessary tests and redundant activities up to 70%.



### Stock monitoring and blood wastage reduction

Hemosafe® provides an optimal management and continuous monitoring of stocks. The electronic selection automatically favors the use of bags before the expiration date (First In, First Out), preventing the wastage.

The implementation of procedures for Type and Screen and Electronic Crossmatch allows to drastically reduce the number of unused bags and unnecessary transport between operating rooms and Blood Bank, avoiding unnecessary exposure to the risk of deterioration.

### Full traceability

Hemosafe® ensures complete traceability of transport time from Blood Bank to Peripheral hospitals, storage conditions of blood components, in-out movements of blood units, loading and delivery operations.

### Quality and international standards

HEMOSAFE® follows the guidelines, best practices and standards of the major international organizations for the implementation of its functionalities (SIMTI, ISBT, AABB).

Model	Hemosafe®
Bags capacity (n°)	92
Working temperature (°C)	+4°C
Supply voltage (V)	230V / 50Hz - 115V / 60Hz - 230 / 60Hz
Cooling gas	R452A