

Automated blood bank refrigerators/Hemosafe®



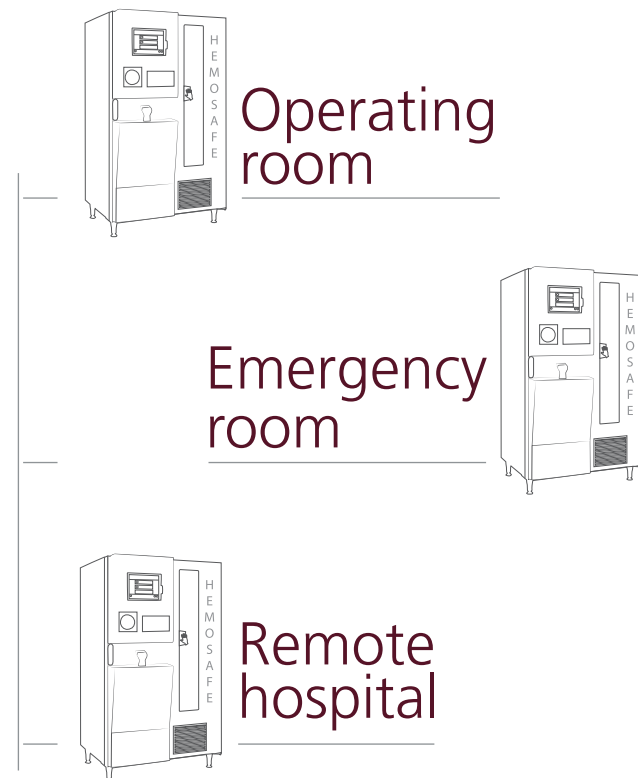
Hemosafe® Safety is in our blood.

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 Transfusion Service.

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



Laboratory automation and biomedical equipment for storage at low temperatures (+4°C/-180°C) and chambers for stability tests.

Refrigerating systems for industrial processes.

Project design and implementation of controlled contamination environments (clean rooms).

Laminar flow equipment for laboratory and non contamination industrial equipment.

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Angelantoni Life Science

Automated blood bank refrigerators
Hemosafe®



Automated blood bank refrigerators /Hemosafe® Series



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 compatibility, expiration date and other parameters chosen by the managers of the transfusion service.

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, 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 transfusion center.

Cost reduction for the blood transfusion service.

The hospital transfusion service 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 Center, 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.

The allocation request is generated by identifying the patient at the same blood bank refrigerator. The entire procedure, from inquiry to delivery, takes less than 60 seconds.

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 transfusion center, avoiding unnecessary exposure to the risk of deterioration.

Full traceability

Hemosafe® ensures complete traceability of transport time from Transfusion Center to Point of Care, 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).

Hemosafe® is a certified Medical Device according to EEC 93/42 and subsequent amendments.

| Model | Hemosafe® |
|----------------------------------|-----------------------------------|
| Bags capacity (n°) | 120/150 (450ml) |
| Internal shelves (n°) | 10 |
| Number of compartments per shelf | 12/15 |
| Working temperature (°C) | +4°C |
| Supply voltage (V) | 230V / 50Hz (230/115 V - 50/60Hz) |
| Maximum absorbed current (A) | 6 |
| Cooling gas | R134A |
| External dimensions (mm) (W,D,H) | 1045 x 890 x 1845 |
| Net weight (KG) | 340 |
| Noise level (dba) | 64 |

→ Hemosafe® offers storage and controlled access up to 150 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 and for immediate updating of stocks.

