





**APPARECCHI
SCIENTIFICI**

Technologies for life sciences



Our history is a path of ambitious growth and constant evolution that allows us to compete worldwide and face new challenges every day.

Ing. Stefano Fabiani
CEO

mission

The Company aims at a continuous improvement of products and process performances to offer the best technological solutions to the medical field, technical-scientific research and industry sectors.

KW has been at the service of scientific research since 1953

A specialized Italian company that stands out in the global market. Based in Tuscany, KW Apparecchi Scientifici has been run from the Fabiani family since 1995. Thanks to its experience KW today is a dynamic company and one of the leading companies on the Italian and international market in the design and construction of systems, installations and services for the cold chain and thermo-stating in the medical and industrial fields.

History of the KW brand

1953

Dino Fabiani founded **KW Officine Meccaniche S.r.l.** based on the know-how gained in large industrial companies.

First **thermostatic chambers** for the pharmaceutical sector.

1961

First **-85°C freezer** to support mass vaccination against poliomyelitis.

1970

First vertical **-85°C freezer** in two stages and with expansion by means of evaporative plates.

1985

Foundation of **KW Apparecchi Scientifici S.r.l.**

1990

First **Biological Bank -85°C** with two independent systems for safest conservation.



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KW is the first European company to use an innovative **HFC refrigerant** for a reduced environmental impact.

1996

Launch of a new **Medical Project**[®] brand line dedicated to the medical and pharmaceutical fields.

2001

Start of **export** activities.

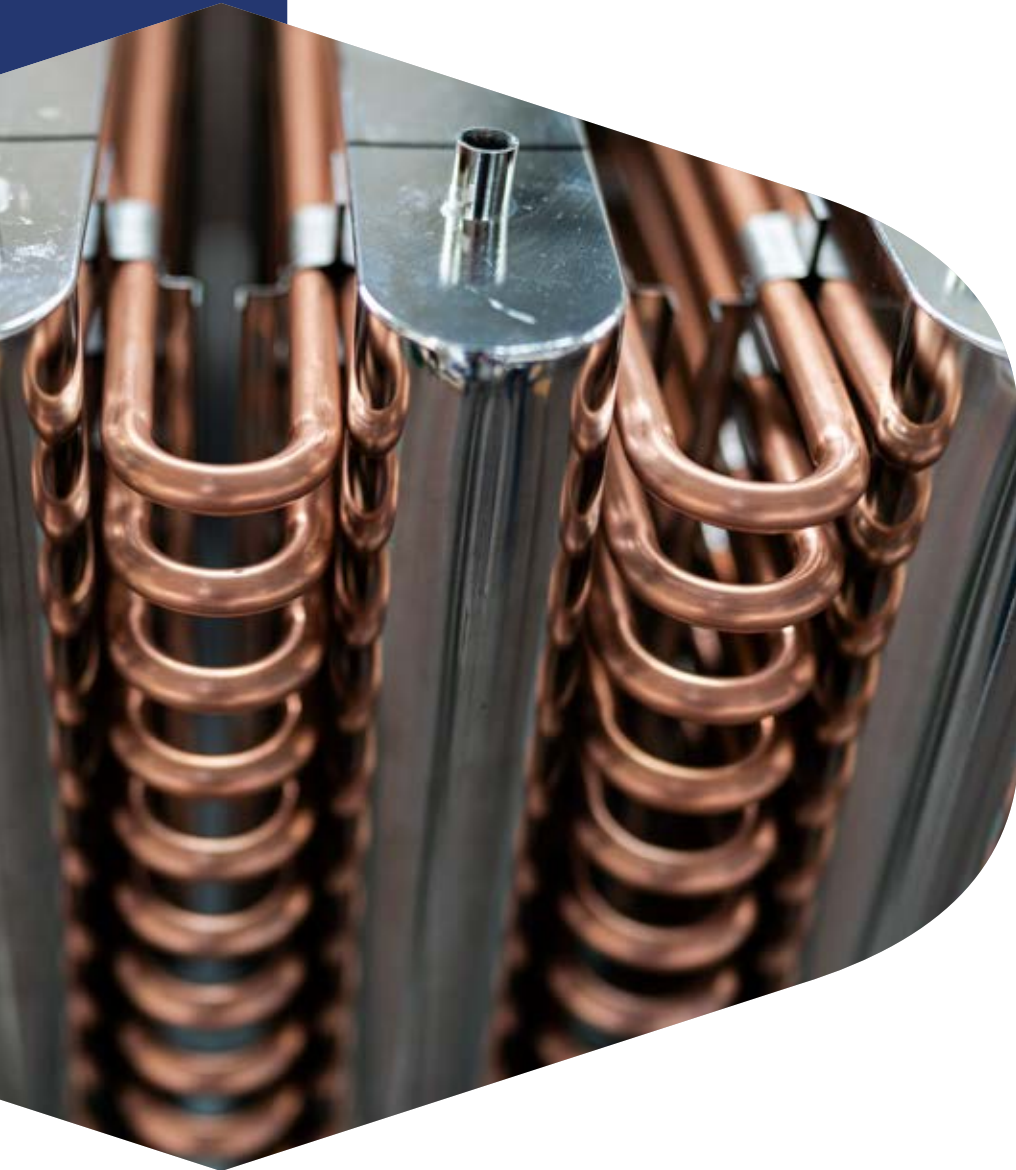
2010

2020

Evolution of production from an artisanal reality to a semi-industrial reality with high technological content, following **Industry 4.0** guidelines.

KW is the first supplier of cold chain devices for the Italian National Healthcare System.





the Company

KW is one of the most dynamic and innovative companies, leader in the design and production of controlled temperature devices down to -90°C , which stands out for its high reliability, wide range and customization capabilities. The company has a strong experience in the scientific equipment segment, also with "medical devices" certification, and a large network of sales and after-sales service centers. Thanks to the continuous investments in organization and technologies, KW has achieved a significant improvement in positioning as a leader in the sector.

Cold chambers, low and ultra-low temperature refrigerators and freezers for the storage of perishable products, reagents, biological materials, drugs and vaccines.

BLUE line

-90°C
+4°C

Incubators and climatic chambers for biological, medical, clinical and veterinary laboratories, agro-food, pharmaceutical and biotechnology tests.

GREEN line

+5°C
+70°C

Devices for heating, drying, sterilization and thermal tests, also available with forced air convection.

RED line

+30°C
+300°C

Cold chambers, freezers, blood bank refrigerators, incubators, agitators and thawers for the storage of blood and its derivatives. Medical grade certification.

BLOOD line

-86°C
+37°C

product
lines



MEDICAL[®] PROJECT

The Medical Project[®] series includes products dedicated to biomedical and scientific research laboratories and hospital research, hospitalization and diagnostic units, as well as for the storage of drugs, both in hospital units and in pharmacies. It is characterized by instrumental equipment and a variety of technical solutions, which make it a line of absolute specificity and safety for the product, the operator and the environment.



main features



1 A tropicalized refrigeration system able to work in critical environmental conditions with internal ventilated refrigeration according to GMP.

2 A specific digital electronic control with touchscreen display for refrigeration in the bio-medical and pharmaceutical fields.

3 Many accessories such as data loggers, recorders, wireless alarms, drawers and containers for specific storing needs.

4 Operating temperature from 0°C to +15°C.

1

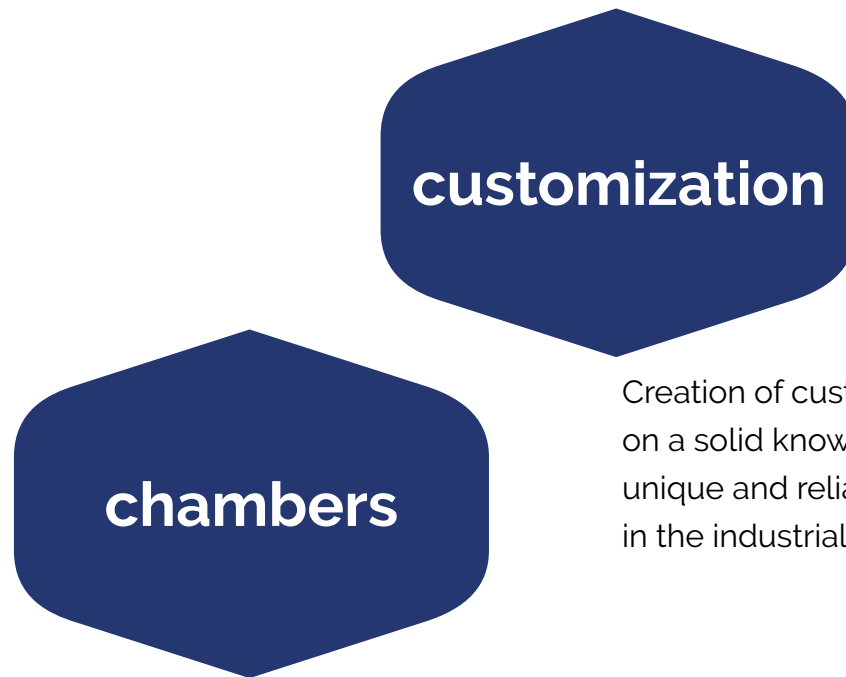
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3

4

know-how

Design and production flexibility for a complete customization of products based on specific needs, either intended for other sectors.



Creation of customized solutions based on a solid know-how. The solutions are unique and reliable, even for applications in the industrial and agri-food sectors.

Design and construction of cold rooms and climatic chambers, offering highly reliable projects and "tailor-made" solutions.



The devices can control temperature, humidity and photoperiod and can be certified as “Medical Devices”.



We have always invested in the search for new technological solutions and in the development of innovative products, which allow us to compete on the main international markets.

KW is proud to contribute to scientific progress with the development of complex technologies, supporting worldwide leading operators in the medical-scientific field.

Quality

Constant increase in product and process quality in response to the most stringent international standards.

Technologies

Development of innovative technologies for high performing and reliable products.

research and development

Tests

Tests conducted in extreme real conditions guarantee maximum reliability during the entire life cycle of the products.

Customization

Use of simulation software for customized solutions.

Collaborations

Collaborations with universities, high schools and research centers for product optimization and for the development of innovative projects.

Highly competitive technical performance.



Connectivity from a 4.0 Industry perspective.



Reduced energy impact due to the use of very low GWP gases.



patents

Trademarks and patents with international registrations for the protection of products and customers.

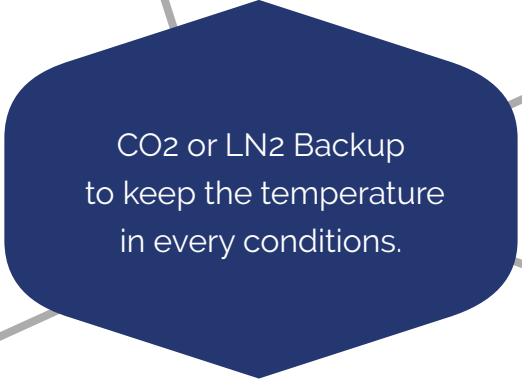


certifications

Trademarks and patents with international registrations for the protection of products and customers. Product and process certifications, also relating to medical devices, are the result of the commitment to satisfy even the most stringent international and local requirements. Particular attention is paid to the issue of energy consumption for which the products are undergoing progressive Energy Star certification.



innovations



CO₂ or LN₂ Backup
to keep the temperature
in every conditions.

The leading product is represented by the -80°C ULT freezer, also available in the Biological Bank version for an extremely safe storage.

Biological Bank

Two independent cascade systems that guarantee maximum safety of conservation in the event of a malfunction of one of the two systems.

Remote control and preventive maintenance with no device downtime (when possible).



Remote alarms for immediate assistance.

Booster mode

Temporary activation of both systems following openings or an increase in the thermal load.

**From + 15 ° C to -80 ° C
in less than 2 hours.**

KW and the environment

Particular attention is paid to reducing the environmental impact, a fundamental theme in the company mission. KW is progressively replacing greenhouse gases (HFCs) with the new hydrocarbons (HC), drastically reducing the contribution to global pollution.





KW's commitment to contain the carbon footprint is guaranteed by:

- Use of natural refrigerants with low GWP (Global Warming Potential) and absence of CFC and HCFC in polyurethane foams.
- Maintenance procedure performed according to the F-Gas directives.
- High COP (refrigeration efficiency parameter) of the systems used.



export

Exports in over 80
countries and looking
forward to new markets.

sectors

HOSPITALS

BLOOD
TRANSFUSION
CENTERS

PHARMACIES

RESEARCH
LABORATORIES

PHARMACEUTICAL
COMPANIES

INDUSTRIES

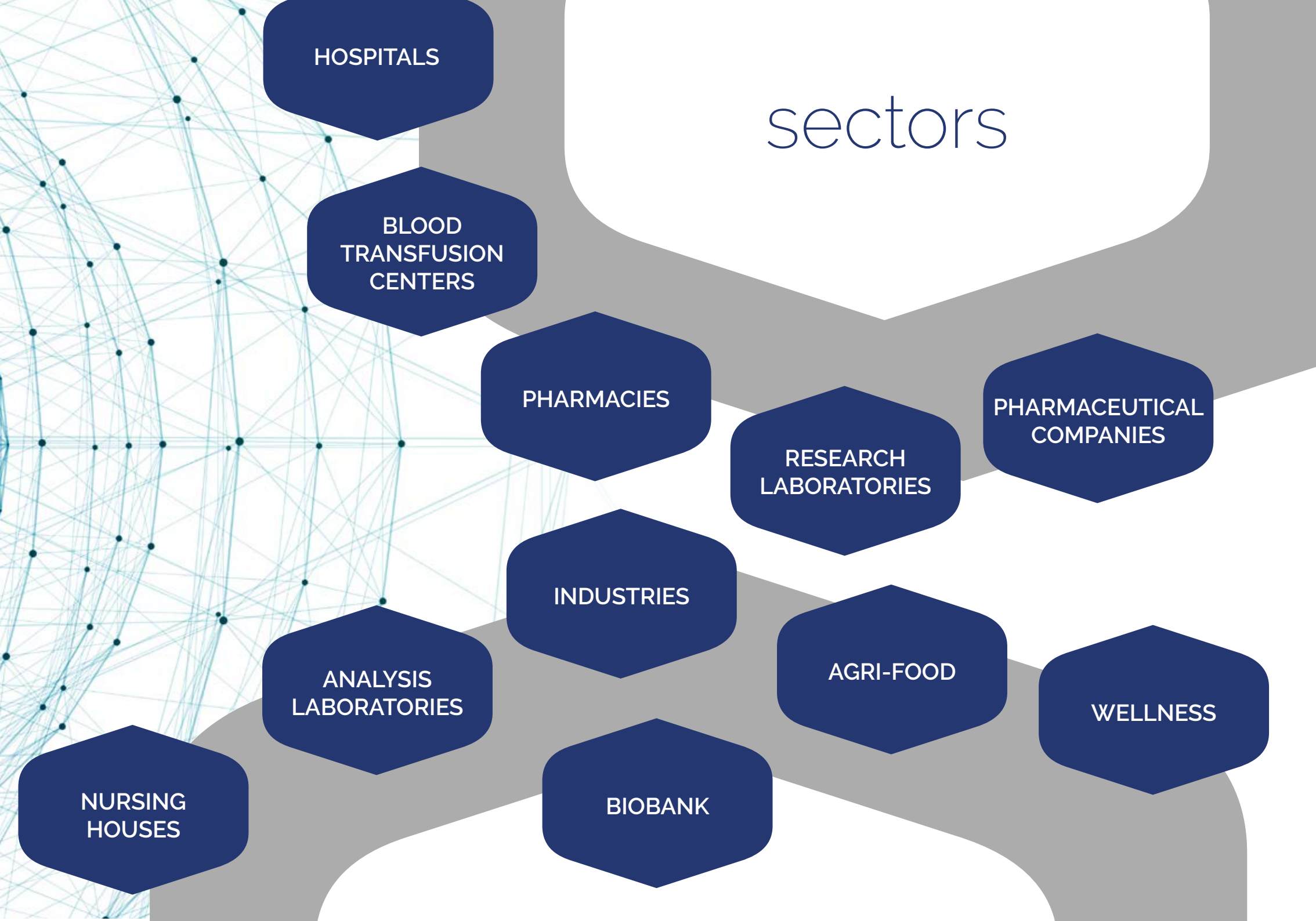
AGRI-FOOD

WELLNESS

ANALYSIS
LABORATORIES

BIOBANK

NURSING
HOUSES



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