

BEREVA

Research and equipment

INNOVATION

- Research dedicated to the development of innovative products, solutions and services in cooperation with our client partners

ANALYSIS & DEVELOPMENT

- Study, analysis and development of new technologies and frameworks

TESTING & TRAINING

- Testing of components and of refrigeration circuit control technologies
- Development and optimization of technological packages and of single components validated by laboratory tests
- Testing and performance measurement of components or systems
- Training and refresher courses for technicians and specialists.



A new generation of smart valves that improve the productivity, safety, energy consumption and duration of refrigeration machines.

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xBALL
Electronic Expansion Valve System

BEREVALAB
Advanced Research Laboratory

An advanced research laboratory that supports our client partners in the development of innovative solutions based on the integration of smart valves.

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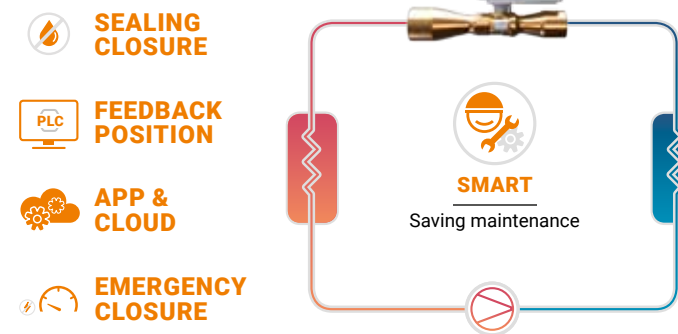
Manufacturing the new generation of smart valves for refrigeration

Bereva is a Belimo Group company dedicated to the innovation of HVAC components. Our mission is to **produce the next generation of smart valves** that improve the productivity, safety, energy consumption and duration of refrigerating systems.

This is the vision behind **xBALL, the system that transforms expansion valves into innovative components capable of regulating loads and of assuring perfect sealing when closed.**

At Bereva we firmly believe in innovation as a result of cooperating with our customers and of listening to their needs. This is why we created **BEREVALAB, the advanced laboratory** that facilitates producers' research and the integration of the new xBALL smart technology into their system.

Thanks to our continuous investment in research and development we have become an excellence in manufacturing unique and dedicated solutions for the refrigeration market with the intention of meeting three fundamental needs: automation, connectivity and sustainability.



BEREVALAB Advanced Research Laboratory

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BEREVALAB

The advanced research laboratory dedicated to refrigeration innovation

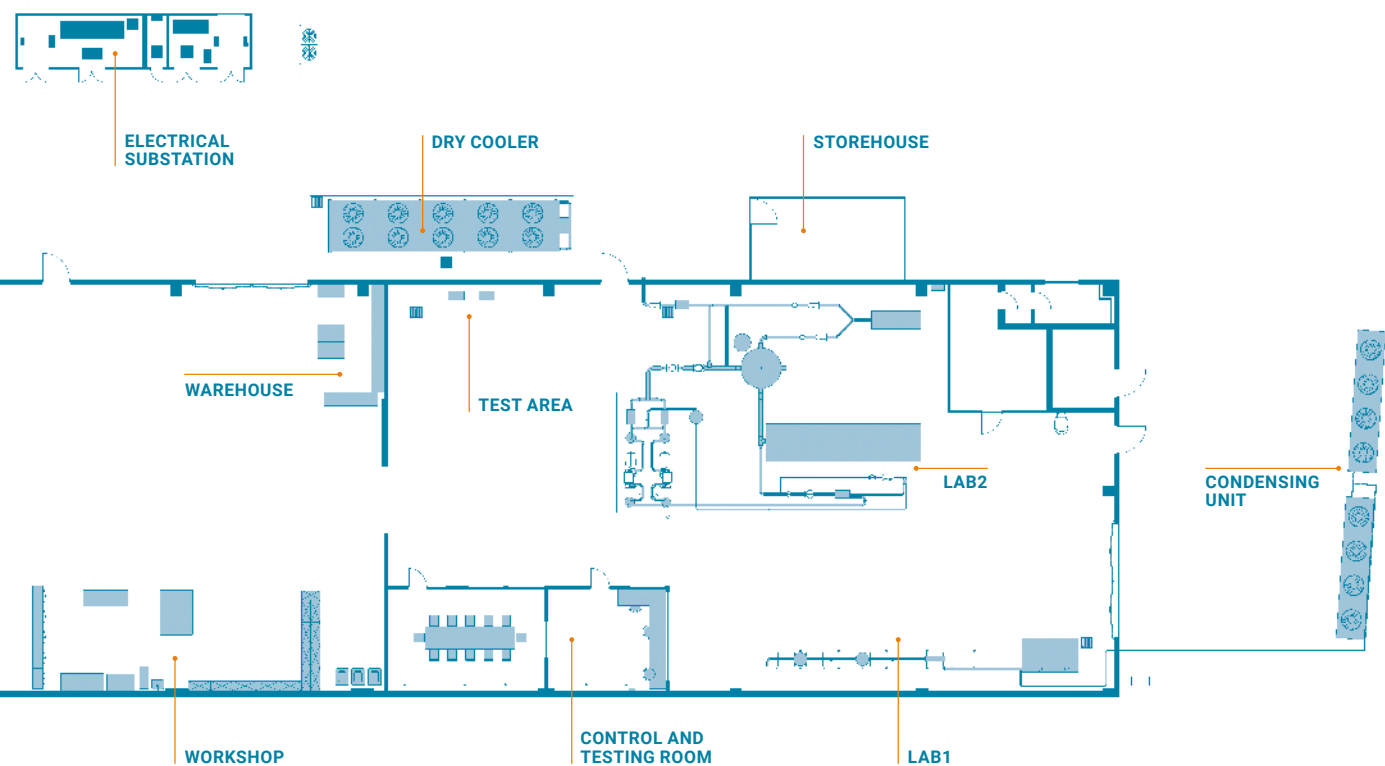
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BEREVALAB

BEREVA LAB is a laboratory specifically created to design, develop, test and monitor components or systems in a technologically advanced environment capable of replicating the actual operating conditions of cooling systems. Suitable to be operated with different HFC/HFO refrigerants.



Our advanced applied research laboratory

COMPRESSORS

Inverter-driven screw compressors, up to 350 kW of cooling capacity each for a total of 700 kW, BLDC motors, managed by dedicated programmable controllers.

FLOW METER

Coriolis mass flow meters, medium & high mass flow, less than 0.2% accuracy, integrated into plant control systems.

TEST BENCH

LAB1 test benches: line 1 up to 400 kW of cooling capacity and line 2 up to 700 kW. Each with different testing lines in parallel and a by-pass line for low mass flow performance testing. Equipped with mass flow meter, temperature and pressure sensors for data monitoring and measuring.

DATA ACQUISITION SYSTEM

Real-time data acquisition system:

- 40 4-20mA ch
- 10 0-10V ch
- 30 PT100 Temperature sensors ch
- RS485 port for Modbus com devices
- Expandible.

CONTROL ROOM

Monitoring and controlling of LAB1 and LAB2 systems and face-to-face training lessons area.

ELECTRICAL SUBSTATION

New dedicated electrical substation for high voltage power supply, equipped with a power transformer up to 400 kVA.

