

ULTRA LOW TEMPERATURE SOLUTIONS





LEAPING INTO TECHNOLOGY

As in the best Italian tradition, our products are synonymous with innovative designs, attention to detail and professionalism of customer service. The integration of electronic components in our products allows us to obtain energy saving solutions and flexibility to satisfy customer requests.

WHAT IS CONSIDERED AN ULTRA LOW TEMPERATURE?

The ultra low temperature range typically starts at a high of around -40°C and continues to descend from there. Ultra low temperature freezers and chillers can reach a wide variety of low temperatures, depending on the needs of the application.

WIDE RANGE



Castel proposes a wide range of products for ULTRA LOW TEMPERATURE systems

The Castel ULT Products are specifically designed to be suitable for systems with minimum working temperature down to -80°C .



ULTRA LOW WORKING TEMPERATURE DOWN TO -80°C



**FOR VACCINE, STORING FISH, RETROGRADATION
OF RICE, AUTOMOTIVE**



COMPATIBLE WITH REFRIGERANTS HFC, HFO AND HC



ULT products are **essential items** of equipment in many laboratories, especially those that require the safe and secure short-term or long-term frozen storage of materials such as **vaccines**, or **temperature-sensitive biological samples** including DNA, RNA, virus or proteins.



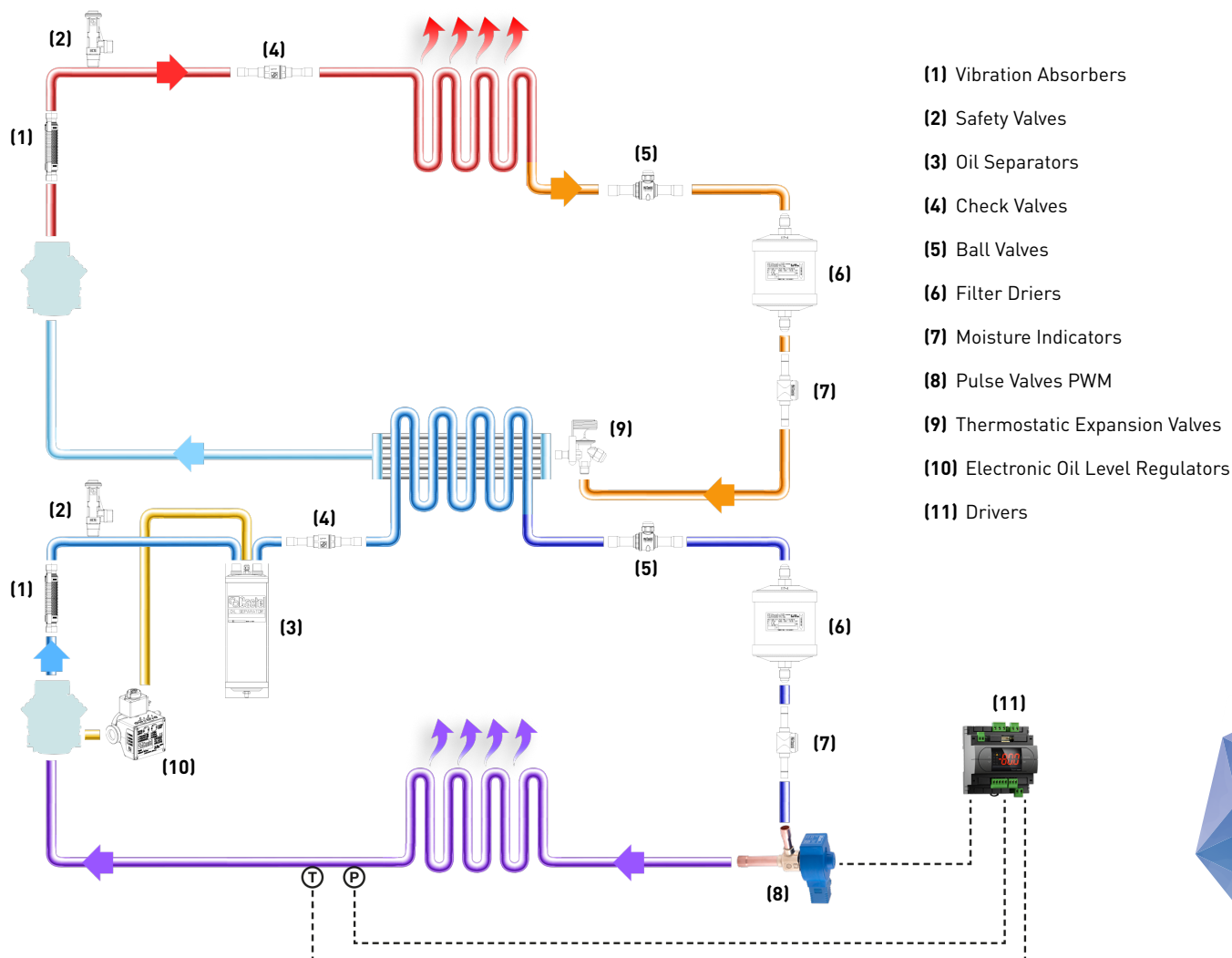
ULT application for **freezing** and **high-quality long-term storage of fish**. We can store fish in a ULT freezer between -40°C to -60°C . Freezing fish at this temperature helps to **preserve the organoleptic qualities** of the flesh. However, there is another advantage. By freezing at ultra-low temperatures, restaurateurs are able to store fish for much longer periods of time.



ULT application for **freezing on retrogradation** and textural properties of rice starch gel during storage. The ultralow temperature freezing -60°C combined with frozen storage -18°C can effectively retard rice starch retrogradation and **maintain the textural properties** of rice starch gel for at least 5 months, and this optimum method is very useful for food industry to produce high quality starchy foods.



ULT applications for **temperature control machines** in the area of the automotive industry. Typical areas of application are, for example, **environment simulations**, **materials testing** as well as **temperature-dependent stress** and loading tests for materials, gearboxes, bearings and engine parts. Further very frequent areas of use are research tasks, test series and quality controls on batteries, rechargeable batteries and electronic components.



LOOKING FOR MORE POLYHEDRA PRODUCTS?

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ISO 14001

Castel has always been aware of environmental sustainability issues and gives its contribution to a cleaner environment, supplying the refrigeration and air conditioning industry with state-of-the-art and environment-friendly technology. With its commitment and steady research in its laboratories, Castel has developed a whole range of products using natural refrigerants, which reduce emissions to the minimum. The large range of products belonging to the Castel "GoGreen" line has been developed to be used in CO₂ (R744) filled systems.

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