

Cannon is a worldwide leading supplier of processing technologies and industrial dedicated solutions for the continuous and discontinuous production of commercial and domestic refrigeration and insulated sandwich panels.

Today, Cannon is a recognized technological partner in all key markets related with the Cold Chain, giving an unmatched additional value for its customers thanks to the innovative approach, products quality, after sales services and constant effort towards a continuous development of advanced R&D projects.

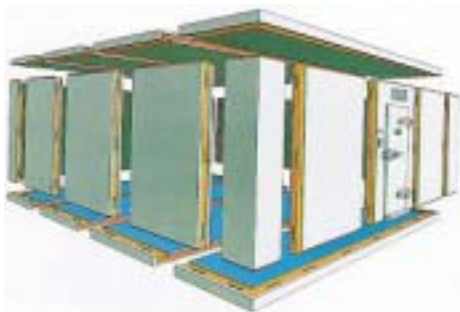
In the light of its innovative and patented concepts (i.e. the quick mould change Rotoplug system for cabinets, or the rotary drum system for doors), Cannon has definitely revolutionized the way to make refrigerators.

The availability of several proprietary technologies allows the Cannon Group to realize and offer complex plants with an high degree of synergic integration between foaming insulation processes and others such as thermoforming, injection moulding, aluminium die-casting, metal sheet trimming and profiling, automatic handling, painting, prototyping and tooling etc.

Cannon designed and fully manufactured in-house all its plants and machines for every level of investment. Those equipment are conceived to provide reliable, consistent production of industrial goods, with high degree of automation whenever this is feasible and with great attention to the ergonomic problems when manpower is involved.

The deep experience gained dealing with a huge variety of industrial applications in different sectors allows Cannon to claim the status of a market leader. Most of the solutions introduced by Cannon have significantly improved the manufacturing methods of automotive parts, furniture, and refrigerators.

The available range and the performances of their equipment, and a turnover of 340 million Euro in different market segments, allowed Cannon to be recognized as the World's Leader in the Polyurethane machinery fields, first in Italy in plastics machinery and in industrial boilers, among the top 5 Italian suppliers of industrial manufacturing systems.



Cannon

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The Competence of a Leader at Market's Disposal

THE COLD CHAIN

Dedicated Solutions for the Refrigeration and Insulation Industry



Cannon

One of the most widely used techniques for maintaining the quality of perishable goods and extending its storage life is refrigeration or freezing.

The increasing demand for fresh produce, processing in small portions places even more stringent requirements on the correct functioning of refrigeration equipment.

Just to give an idea, the whole of the refrigeration chain from when a fish is caught at sea to when it arrives on the kitchen bench demands that the temperature has to be kept constantly under control.

Consequently, there must be adequate refrigeration onboard the fishing vessel, in the fish processing plant, during transport, whilst in the shop and at home because the temperature affects the quality and the durability of food.

In other words this is what it is commonly called the Cold Chain.

It means an unbroken and safe link from the production till to the domestic storing in consumer's houses, coming along different stages: initial chilling/freezing within production sites, intermediate transports, whole dealer, supermarkets, retail sale.

In this way perishable goods and, more in general, temperature-sensitive products are kept at the proper temperature, conserving the better quality and their properties.

Rigid polyurethane foam has one of the lowest thermal conductivity ratings against any other insulating materials.

It allows efficient retention of heat or, alternatively, maintenance of a refrigerated or frozen environment.

It is also a versatile product characterized by a lightweight, which provides structural strength and gives the manufacturer design freedom.



The versatility of rigid polyurethane foam makes it suitable for an extensive range of thermal insulation applications: commercial and domestic refrigerators and freezers, vending machines, walk-in coolers, refrigerated transportations, insulated shipping containers etc.

From a manufacturing point of view, the production is similar for the various types of applications, such as their common objective is to keep the items they contain cold or frozen.

The Cannon Group can provide to the Refrigeration Industry Suppliers a wide range of proven and reliable technologically advanced solutions for the production of polyurethanes foamed insulated parts.

Key drivers in the polyurethane insulation market of the refrigeration industry are the Montreal and Kyoto protocols.

The Montreal Protocol, the main target of which is the protection of the ozone layer, is leading to the phase-out and, ultimately, to a ban on the use of CFC's and HCFC's

The strong international focus that has been placed on greenhouse gases and gases which are hostile to the ozone layer, has resulted in Cannon deep and strong effort in R&D projects for the development of efficient and environmentally friendly processes to insulate refrigerated systems.

Since the beginning of Nineties, Cannon started to evaluate the possibility to substitute those traditional blowing agents used to produce foams with alternative ones such as Pentanes and carbon dioxide.

Using these non-harmful chemicals in addition to the high pressure technology, Cannon has developed safer and environmental friendly processes where also solvents are banned.

Those solutions are today widely adopted by the market, improving the labour's working conditions and joining shared concepts towards a sustainable development and a lowest possible environment impact.

