



COMPANY INTRODUCTION AND PROFILE

CRIOFARMA is an Italian company with 50 years of experience specialised in pharmaceuticals machine productions, particularly for freeze-drying equipments and sterile production machines.

CRIOFARMA is also rich in funds, experiences and comprehensive technology including vacuum, low temperature devices, electricity equipments and instrumentation as well as in the Freeze-Dryers manufacturing

CRIOFARMA start the production of freeze-dryers in 1962, in Turin plant, and during all these years had developed an advanced own technology to obtain the best performances as possible in this field.

Until 1990, **CRIOFARMA** had work particularly in the Italian market, even if some machines was sold outside Italy starting from 1980, through Italian companies working in joint cooperation with outside countries.

Starting from 1990, after finishing the development and testing of his technology and after the good results obtained in many Italian company, **CRIOFARMA** is now working at developing the outside countries market, exporting his machine, his experience and his advanced technology.

Until 1995 **CRIOFARMA** had already exported freeze-dryers machine in many countries, like Europe, India, Indonesia, Cuba, Spain, Greece, China, Turkey and many other countries.

CRIOFARMA philosophy is not only to sell machines, but also to study with the customers all the production's problems and to suggest the possible solutions for the best results.

CRIOFARMA can assist the customers in any step of the development of the technology related to the freeze-drying process.

For this reason all the **CRIOFARMA** machines, even if they have a basic standard configuration, are particularly studied to solve all the customers problems in order to guarantee the economy of the process, the safety for the production, the facility of control and the higher possible production for every machine and every product.

CRIOFARMA expertise, particularly in the person of Dr. **ROBERTO BRUTTINI**, Ph.D. at the University of Missouri Rolla, Missouri, USA, have the possibility to study and suggest the best cycle for each product, to obtain higher possible production and safe conditions during the freeze-drying process.

In Turin research plant **CRIOFARMA** can conduct pilot tests to confirm the theoretical studied conditions for each product and train customer technicians before the installation of the industrials plants.



Starting from 1996, CRIOFARMA can train customer's technicians in a new industrial pharmaceutical production plant in Italy, specialised for the production of sterile and oral freeze-dryer products, improving in this way the possibility to help customers in the starting of the plant.

CRIOFARMA experience in the field of vacuum and vacuum pumps for freeze-drying equipments is also authoritative. The rich and wide experiences in making low temperature factory equipments and freeze-drying equipments is the guarantee of our capability to perform different low temperature task.

In the practical applications, our freeze-dryers can make products with a different chemical and physical characteristic (in ampoules, vials, or trays) and freeze-dry all these products in short time.

On request, **CRIOFARMA** can provide the documentation to prepare the validation program to be submitted to **FDA** (Food and Drug Administration) for approval. **CRIOFARMA** can also provide documentation for European validation according **ISO** Standard.

The new **CRIOFARMA** branch in electronic instrumentation (actively developed since 1988) could also present double possibility to have instruments in the freeze-dryer and control process field and to produce electronic customised products at competitive prices.

CRIOFARMA has a deep and comprehensive understanding of the customers, therefore each design could guarantee the best service to meet different needs.

The most important thing is that equipment must guarantee the safety of the operators and production as well as long term of regular production.

In conclusion (without considering the technology of freeze-dryer factory), we believe it is difficult to find a freeze-dryer producer company which are so rich experience, technology and knowledge level, including vacuum systems, low temperature systems, instrumentation and electronic systems, production technology as well as the construction of the freeze-drying equipment.