





Design and Functionality

The Quasi-Continuous Freeze Dryer (QCF) is designed for the efficient production of freeze-dried products in the food and pharmaceutical industries. Uniformly filled product trays are rapidly loaded into the dryer by trolleys suspended from a top-rail system. The QCF drying process is specifically designed to dry each product as gently and efficiently as possible to achieve maximum product quality in a cost effective manner. Our combination of contact (bottom) and radiant heating (top) allows higher throughputs per square metre than traditional freeze drying. End product quality is maintained by constantly measuring and limiting the critical product temperature and properly controlling the drying profile, resulting in shorter drying times.

QCF vacuum and heating/cooling systems are specifically designed to utilise preferred energy sources and provide the optimum balance between short batch times and energy savings.

Optional features such as weighing of product during drying, camera for continuous drying observation, emergency cooling, automatic trolley loading/unloading, cleaning concept and turnkey concepts in combination with upstream and downstream processes are available on request.

Application

- Coffee/Tea
- Fruits and vegetables in pieces
- Meat or sea food in pieces
- Pharmaceuticals
- Probiotics and enzymes
- Infant nutrition

Technical data

Vacuum	from 0.5 to 5 mbar abs.
Temperature	from max. 150 °C
Capacity	from 200 to 3'000 kg/batch
Heating-cooling plate surface	from 16 to 256 m²

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Products and Services

Process technology for fruit and vegetable processing to juices, concentrates and puree production, for brewing solutions, for filtration, for milk powder production, for the vacuum drying of liquid and solid products, for freeze drying of coffee, tea, fruits, vegetable, etc. Technology for municipal and industrial sludge dewatering and drinking water filtration

Products

Fruit reception lines, mills, mash heaters, hydraulic presses, membrane filtration equipment, cold block equipment, adsorber, ion exchanger, evaporators and aroma plants, pasteurizers, CIP systems, vacuum and freeze drying cabinets and belt dryer, zeolite adsorber, complete processing lines

Services

Process development and project engineering; assembly and commissioning; technical support; original spare parts; inspection; service contracts; retrofits; training; service and maintenance; NetService