

LESS WATER. MORE VALUE

A hi-tech company providing the most advanced preservation method: lyophiliosis, widely known as freeze-drying.





Would you buy a 10-year old salmon filet? Never, and I'd never eat it... unless, of course, it's been freeze-dried!

What is probably edible -though questionably nutritious- after 5 years in a tin can, if freeze-dried, it can still be confidently consumed with its protein, vitamins, carbs and other nutrients unaltered even 20 years later!

Impressive, isn't it?

LYOPHILIZATION MADE SIMPLE

FOR PHARMACEUTICALS FOOD NUTRACEUTICALS R&D

AND A LOT OF OTHER APPLICATIONS IN EVERY INDUSTRY

LESS	BEST
MOISTURE	QUALITY
LESS	LONGEST
BACTERIA	SHELF LIFE
LESS	OPTIMUM
DEGRADATION	LOGISTICAL COST

PROVEN BY SCIENCE OFFERED TO THE PRODUCER

Unlike scientists, manufacturers and product developers are not familiar with Lyophiliosis -freeze-drying, in layman's terms. Like most innovative technologies, freeze drying has been adopted by large-scale producers, but for the majority it is still uncharted waters.

Nevertheless, the time has now come to literally take the water away from the foods and help you chart a course for your next leap forward in the business world by increasing the variety of products you can offer!

No pinch of salt needed!



WHY GELLERT ENGINEERING?



We have been born into a family of suppliers of high-tech equipment for academia and business. When we first came across the freeze-drying methods in the late OO's, we could straightforward see the pro's and con's of the then available technology and set out to develop even better solutions.

Try the freeze-drying technology yourself, make your own experiments and calculations and see the benefits for yourself; enjoy the experience at your convenience on your own premises.

OUR MISSION IS TO PROVIDE THIS SUPERIOR TECHNIQUE TO EVERY PRODUCER, ON EVERY SCALE, WITH EXPERT ADVICE AND THE BEST EQUIPMENT MONEY CAN BUY.

Scale it up at your own pace!

FORLONG

HIGH QUALITY, FULL TASTE, GREAT VALUE FOR HOW LONG?



Forlong[™] is an advanced technology setup for food industries. An ever growing number of manufacturers, R&D scientists, and product developers endorse the Forlong[™] lyophilisation technology and equipment to improve the quality and longevity of their produce.

THE LONGEST EVER SHELF-LIFE

THE PRODUCT IN PERFECT SHAPE AND QUALITY

10 TIMES THE AROMA AND FLAVOURS OF THE ORIGINAL

OPTIMUM ROI





BEFORE

AFTER

PRESERVATION, A LEVEL UP

ON THE CLOCK FOR GENERATIONS

To a growing global demand for better nutrition, health and environmental protection, advanced technology offers yet another convincing answer: lyophiliosis, in other words, freeze drying. It is simply the best and all-natural way to preserve natural ingredients for food, beverages, pharmaceuticals, and biotech, among other industries.

We offer this superior preservation method to producers no matter the quantity!

Our Neanderthal ancestors enjoyed the benefits of meat fermentation for millennia; gazelle ribs and tenderloins were smoked and dried 19 thousand years ago in present-day Jordan. Neolithic hunter-gatherers cooked and preserved vegetables in clay pots in what is now known as the Sahara Desert and Scots and Irishmen buried butter in peat bogs from the Bronze Age throughout the 18th century. Salt has been widely used as a food preservative from antiquity to this day. The perennial struggle against food spoilage continues.



GELLERT Engineering

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LABORATORY / HORECA [5kg]

C R Y O 5™

Ice condenser	- 1
capacity:	5kg
lce condenser	
performance:	5kg/24hr
lce condenser	
temperature:	-50 °C
Chamber volume:	65 L
Shelf dimensions:	535x165 mm (B x T)
Number of shelves:	6 + 1
Shelf area:	0,529 m²
Shelf spacing:	10 mm - 215 mm
Shelf temperature:	up to +50 °C
Material	
(Chamber & condenser):	st. steel 304 or 316
Accessories:	
 Electromagnetic pressure control 	
and stop valve	
 Manifold horizontal with rubber valves 	

for connection of 4 round flasks

PILOT [20kg]

CRYO 20™

lce condenser capacity:	20kg	
lce condenser performance:	18kg/24hr	
lce condenser temperature:	-50 °C	
Chamber volume:	300 L	
Shelf dimensions:	500x700 mm (B x T)	
Number of shelves:	6 + 1	
Shelf area:	1,95 m²	
Shelf spacing:	40 mm	
Shelf temperature:	-35°C to +50°C	
Shelf temperature accuracy:	max. ±1 °C	
Ice condenser cooling system: Air cooled		
Shelf cooling system: (see ice condenser cooling system)		
Unit dimensions: 1878 x 1082 x 1062 mm (H x W x D)		

COMMERCIAL [300kg]

CRYO 300™

lce condenser	
capacity:	300kg
lce condenser	
performance:	300kg/24hr
lce condenser	
temperature:	-65 °C
Chamber volume:	15000 L
Shelf dimensions:	1200x2000 mm (B x T)
Number of shelves:	12 + 1
Shelf area:	25 m²
Shelf spacing:	40 mm
Shelf temperature:	-35°C to +50°C
for	ice condenser at -50 °C
Shelf temperature	
accuracy:	max. ±1 °C
Ice condenser cooling system:	
Air cooled (optionally hybrid)	
Shelf cooling system:	
(see ice condenser cooling system)	
Chamber dimension	าร:

2000x3000 mm (diam x D)

CRYO 5™

CRYO 10™