

CryoBlaster Series

Cryogenic Blast Freezer

By using a blast freezer, the temperature of the foods can be rapidly reduced. The blast freezing cycle transforms the liquid present in the foods into microcrystals (tiny crystals) which do not damage the tissue structure of the product and ensures the food does not lose its consistency and integrity. Blast freezing can also be applied for raw materials and semi-manufactured products.

CryoBlaster 4800 is a large capacity cryogenic blast freezer with smart control system, humanized design and robust construction, meeting the highest requirement for food treatment.



Performance

- Temperature range -100°C ~ room temperature (temperature controllable)
- Temperature control accuracy $\pm 2^{\circ}\text{C}$
- Temperature Uniformity $\pm 3^{\circ}\text{C}$
- Cooling rate $1 \sim 20^{\circ}\text{C}/\text{min}$, temperature controllable

Constructions

- Opening method of the box door: adopt horizontal upper opening cover, and use gas spring to assist opening and closing the door.
- Door seal: special low-temperature resistant sealing device to ensure that the door can be opened freely under ultra-low temperature
- Freezing medium: liquid nitrogen (user-provided, non-recyclable)
- Exhaust system: when the pressure in the box is slightly positive, it will be automatically discharged

Controller

The touch screen provides programmable control & makes the operation and input more convenient. It adopts human-machine interface, programmed intelligent control, and has PID automatic adjustment function. It can set multi-stage cooling and heating programs. After all programs are completed, it will automatically alarm and power off.

The system also has its own process curve saving function, and the process curve can be downloaded via USB-disk.

Safety

- Electrical interlock.
- With phase sequence protection function.
- With over-temperature protection function.
- With process curve setting function.
- With timing function.
- Equipped with equipment grounding protection function.
- With safety pressure relief function.
- Equipped with equipment caster movement and braking functions.

Specification

Model	CryoBlaster 400	CryoBlaster 2700	CryoBlaster 4000	CryoBlaster 4800
Volume Inside[L]	400	2700	4000	4650
Inner Dimension(WxDxH)[mm]	700×820×700	1150×1150×2050	1260×1550×2050	1460×1550×2055
Dimensions(WxDxH)[mm]	1280×1120×914	1730×1450×2050	1840×1850×2265	2040×1850×2265
Door Opening Size(WxH)[mm]	550×700	900×2000	1050×2000	1250×2000
Weight[kg]	400	770	900	1000
Rated Power(380V/50Hz,3-phase)[W]	3000	6500	6500	6500
Trolley Maximum Size (WxDxH)[mm]	540×800×680	870×1150×1980	1020×1550×1980	1220×1550×1980
	(Not for trolley, Trays only)			
Liquid Nitrogen Supply [kg/h]	380kg/h	1750kg/h	1750kg/h	1750kg/h

