

CryoBlaster 4800

Cryogenic Blaster 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 highest requirement for food treatment.

Performance

- Temperature range -190°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 programmable control method is adopted to make the operation and input more convenient. It can monitor the temperature change in the box in real time and observe the running curve state. The control system consists of button switches, relays, intelligent temperature controllers, temperature sensors, pneumatic switches, etc. Multiple process curves can be set, and the process can be set step by step for each curve, and the power will be automatically alarmed and powered off after all programs are completed.

It adopts human-machine interface (touch screen) input, programmed intelligent control, and has PID automatic adjustment function. It can set multi-stage cooling and heat preservation programs. After all programs are completed, it will automatically alarm and power off. The system has its own process curve saving function, and the process curve can be copied through the U disk, which is very convenient for use.

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 4800

| Features | |
|----------------------------------|-----------------|
| Inner dimension (W×D×H)[mm] | 1550×1520×2050 |
| Volume [L] | 4800 |
| Door opening size (W×H)[mm] | 1250×2050 |
| Dimensions (W×D×H)[mm] | 2195×1800×2300 |
| Trolley maximum size (W×D×H)[mm] | <1250×1320×2000 |
| Trolley recommended size [mm] | 1000×1000×1800 |
| Liquid nitrogen supply [kg/h] | 1800 |
| Exhaust pipe size [mm] | 300 |
| Power (380V/50Hz, 3-phase) [kW] | 6.6 |

Front View

