



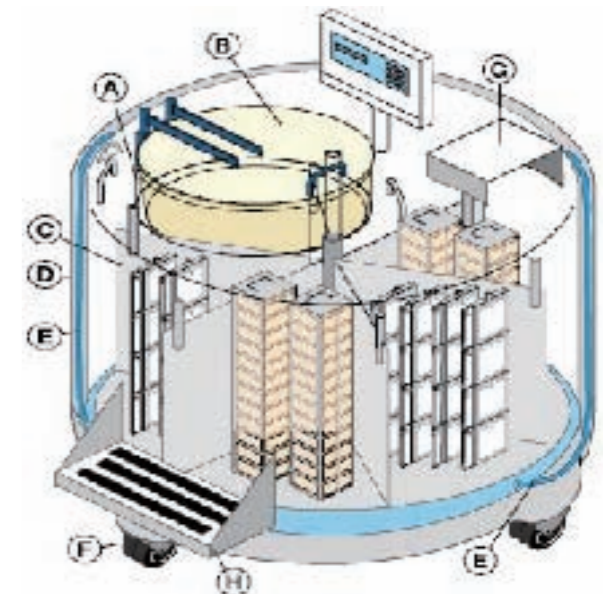
Biobank series

Introduction

Biobank -190°C stainless steel freezer provides the user with a fully automatic, safe and reliable cryogenic liquid nitrogen storage system. Compared with other brands, Biobank large capacity LN2 freezer can store Max. 125,800 1.2ml /2ml vials, 9,000 25ml blood bags, 5,440 50ml blood bags or 2,694 250ml blood bags with the same foot print, surpassing 40% more capacity. With similar price, We save 40% cost as well as 40% space, so as to reduce the overall operating cost for customers.

Large capacity vapor phase LN2 container

- A** The neck design makes sure that the under lid temperature is lower than -180°C in vapor phase as well as reduces consumption of LN2
- B** Optimized lid design extends the using time to the maximum extend.
- C** Interior turntable design make it easy to fetch samples. The spindle is gyroscope, avoiding spindle damage.
- D** All stainless steel construction, longer using time
- E** Annular LN2 filling lines to reduce frost and ice formation
- F** Tough, durable casters
- H** One-piece foldable stepsflat top design, convenient working surface



Key Features

- 1** Patented flat top design, convenient working surface-easy to place samples.
- 2** Patented insulation connection between internal and external layers, avoiding misplace of internal cavity caused by long-term uneven placed samples. Meanwhile, insulation connection can avoid heat conduction, reduce the evaporation rate to the minimum extent.
- 3** High efficient sample storage design-utilizing the maximum space to store maximum vials and blood bags.
- 4** High density foam material plug with seal coating- never peeling or cracking.
- 5** Ultra-low jacket vacuum, maintain superb heat insulation, minimize loss of LN2, ensuring temperature in tank lower than -186 °C and absolute safety of samples.
- 6** Turntable shaft is strong to make the inner cavity easy to rotate; shaft not easy to get frozen.
- 7** Aluminum turntable reduces overall weight
- 8** Equipped with hot gas bypass to keep warm nitrogen gas from impacting samples during fill cycle

Ergonomic Experience

- Top of freezer has rotating handle to rotate the sections of the internal cavity to make target samples available to the opening to fetch samples. The handle can avoid the suffering of turning 500-900KG samples and meanwhile avoid cryogenic burns.



- One-piece foldable single-layer step or one-piece foldable double-layer stainless steel steps
- Forklift can be used to load and unload, convenient to move the freezer.



- Back up battery is available for auto-fill control and alarm system, ensuring safety of the system.
- Motor-driven sample withdrawal device is available for automatic withdrawal of cryogenic racks, convenient to operate, avoid frostbite or cryogenic burns.



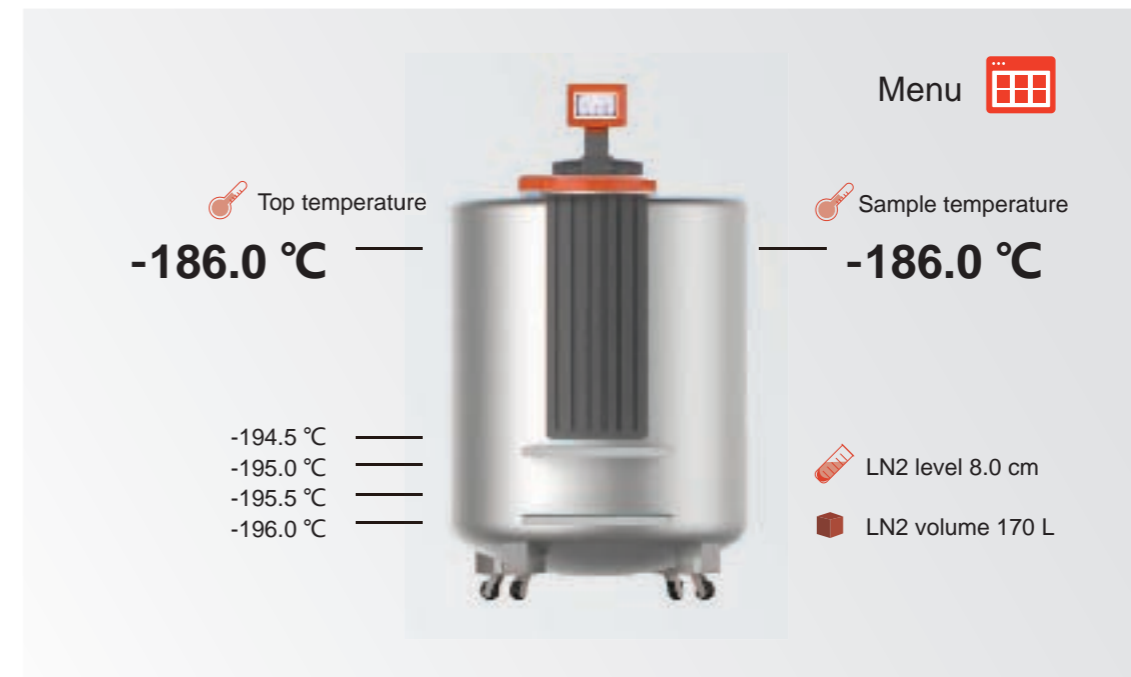
- The hinge designed lid is equipped with sealing coating and safety lock, better convenience and safety.



Intelligent Monitor & Control System

Control system consists of build-in computer and 10 inches touch screen

“i time” interface :



Control:

- Four variable level can be set to enhance control ability to alarm system and liquid filling.
- Automatic defrosting system—defrosting time is shortened for faster sample observation.
- Controller with frozen guard sensor can actively control and prevent LN2 overflow.
- Quick chilling function can make it recover to set temperature after lid closure.
- Operator can control and manage LN2 by setting regular filling

