

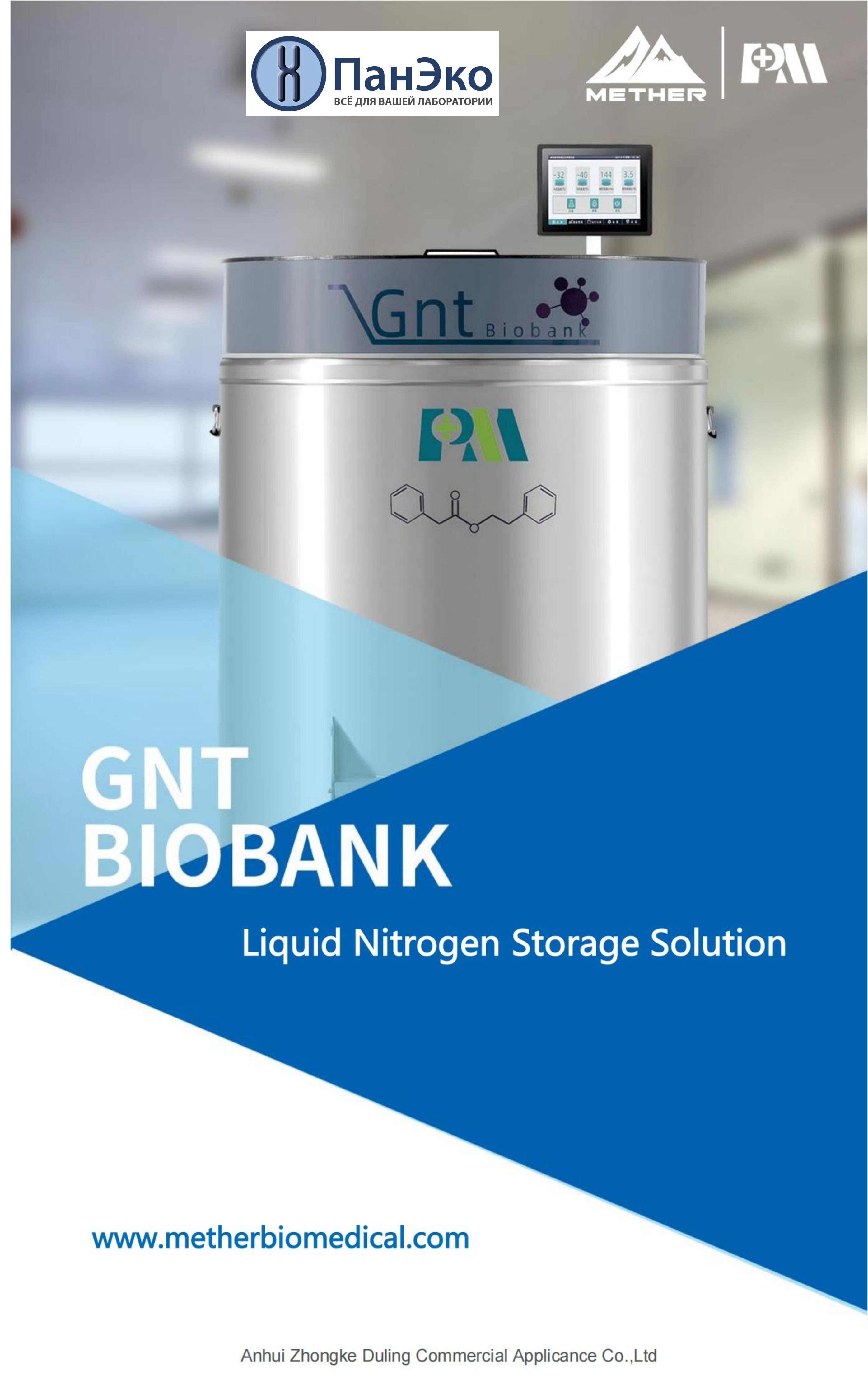
* All specifications, dimensions and construction shown in this catalogue are subject to change without prior notice.

Healthy World Healthy Future



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GNT BIOBANK

Liquid Nitrogen Storage Solution

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Anhui Zhongke Duling Commercial Appliance Co.,Ltd

06 LN₂ refill tanks

The self-pressurising series of liquid nitrogen replenishment tanks are used for transporting and storing low temperature liquid nitrogen, and are high performance storage containers for low temperature liquid nitrogen media, manufactured from high quality stainless steel. The self-pressurising series of liquid nitrogen tanks consist of a control structure and a tank body. The control components are mainly inlet (discharge) valves, emptying valves, pressurisation valves, safety valves, level gauges, pressure gauges and castors. All models in this series are equipped with four mobile universal castors to facilitate the use and movement of the containers in different places. They are currently widely used in industries and fields such as the mould industry, animal husbandry, pharmaceuticals, semiconductors, food, aerospace, military and cryogenic chemicals.

Features

- Unique neck design to reduce the evaporation rate of liquid nitrogen.
- Well-established safety structures
- Easy to move with universal castors
- Optional automatic refill system
- 5-year vacuum warranty
- Protective operating ring
- Unique polishing stainless steel tank polishing
- Low temperature pressure stabilisation valve
- Optional intelligent monitoring system for remote monitoring



Parameters

Model	Unit	YDZ-30	YDZ-50	YDZ-100	YDZ-200	YDZ-230	YDZ-300	YDZ-500
Capacity	L	32	55	110	220	250	330	530
Effective volume	L	30	50	100	200	230	300	500
Outer diameter	mm	404	455	556	656	656	806	958
Height	mm	850	960	1100	1300	1400	1410	1500
N.W.	kg	42	50	68	125	140	205	265
Calibre	mm	50	50	50	50	50	50	50
Static LN ₂ daily evaporation rate	%	3	2	1.2	1	1	0.8	0.8
Standard working pressure	Mpa	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Maximum working pressure	Mpa	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Volume of infusion	L/min	>5L/Min	>5L/Min	>5L/Min	>10 L/Min	>10L/Min	>15L/Min	>15L/Min
Primary safety valve opening pressure	Mpa	0.099	0.099	0.099	0.099	0.099	0.099	0.099
Secondary safety valve opening pressure	Mpa	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Pressure gauge indication range	Mpa	0~0.25	0~0.25	0~0.25	0~0.25	0~0.25	0.15	0~0.25

07 Controlled-rate Freezer

This series of programmable cryoboxes is a high performance, safe and reliable freezing system with adjustable temperature change rate, which is now widely used in various fields such as light industry, agriculture, medicine and basic biological research for freezing and storage of lymphocytes, tissue banks, bone marrow cells, tumour cells, animal and plant cells, cardiomyocytes, etc. The newly designed integrated Cryobox system uses the latest temperature control technology and liquid nitrogen dispersion technology to make the programmed cooling process homogeneous and stable, allowing IO/00 operation, effectively meeting the needs of GLP laboratories.?

Features

- Microprocessor controlled, high precision control
- Good thermal insulation performance.
- Dual probes for precise temperature control with simultaneous touch screen display.
- Curve display of cavity and sample temperature and other parameters.
- Automatic data saving and backup to ensure traceability.
- Powder coated chamber construction for durability.
- Stainless steel interior for silent operation and quiet operation
- Front opening door for easy access to samples.
- Uniform dispersion of liquid nitrogen to ensure temperature uniformity



Parameters

Models	CDG-17	CDG-34	CDG-51
Temp. Range	50°C to -190°C		
External dimensions (mm)	810*540*790	960*540*790	1110*540*790
Internal dimensions (mm)	180*305*330	330*305*330	485*305*330
Capacity (L)	17	34	51
N.W (kg)	73	86	97
Cooling rate	0.1-50°C/min		
Heating rate	0.1-10°C/min		
Temp. variation control method program control	<2°C (Temperature difference between two points in the chamber during cooling)		
Control mode	Microprocessor controlled		
Program control	Sample temperature/chamber temperature		
Display screens	10" Touch Screen		
Available programs	6 preset programs, 20 user set programs		