

Liquid Nitrogen Supply Cylinders

Reliable LN₂ supply for cryogenic storage systems

The vacuum-insulated supply cylinders of the AC PB Series ensure a safe, efficient, and reliable supply of LN₂. Four models with net capacities ranging from 70 to 240 liters enable on-demand storage, safe transport, and continuous supply of liquid nitrogen – ideal for laboratories, clinics, IVF centers, and biobanks.

If the cylinder pressure drops, the automatic pressure-build-up system activates and restores the normal operating pressure. This keeps the supply pressure required for the reliable filling of cryogenic storage systems constant – an important prerequisite for a continuous LN₂ supply and the safe storage of valuable samples.

Inner and outer cylinder made of high-quality stainless steel ensure robustness and durability. The multi-layer superinsulation and GOLD Standard vacuum technology from Auguste Cryogenics reduce heat ingress and evaporation losses – ensuring a cost-effective LN₂ supply in daily use.



Product Features

- ✓ Safe storage, transport, and dispensing of liquid nitrogen
- ✓ Capacities ranging from 70 to 240 liters with a tank diameter of just 660 mm
- ✓ Designed for transport while filled and compliant with TPED 2010/35/EU
- ✓ Automatic pressure build-up for safe LN₂ filling of cryogenic storage units
- ✓ High withdrawal rate of up to 20 liters of LN₂ per minute
- ✓ Excellent value for money

Your benefits with CryoSolutions AG

- ✓ Everything from a single source: consulting, sales, service
- ✓ Many years of experience and a high level of specialization
- ✓ Fast and competent on-site service
- ✓ Backup units of various sizes available
- ✓ Complete spare parts inventory and service center in Switzerland

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Features

Fast liquid withdrawal

Liquid nitrogen can be withdrawn in a controlled manner via the combined fill and withdrawal valve. With a flow rate of 20 l/min, the AC 240 PB model offers a particularly high withdrawal capacity – ideal for larger cryogenic storage units and high LN₂ demand.

Automatic pressure build-up

If the vessel pressure drops below 1 bar, the regulator automatically activates the pressure build-up circuit and restores the normal operating pressure of 1.5 bar. This ensures that the supply pressure of over 1 bar required for the reliable LN₂ filling of cryogenic storage units is always available.

Efficient thermal insulation

The inner and outer containers, made of high-quality stainless steel, the multi-layer super insulation, and the GOLD Standard vacuum technology reduce heat ingress and evaporation losses.

Comprehensive safety features

Pressure gauges, pressure relief valves, and rupture discs for the inner and outer tanks provide reliable overpressure protection. The vent valve allows for controlled pressure relief, while the upper frame protects the valves, connections, and gauges. Two brakes securely hold the tanks in place at the point of use.

Robust and mobile

The AC-PB containers are designed for transport while full and comply with ADR and TPED 2010/35/EU. Depending on the model, four or five swivel casters allow for convenient and safe maneuvering. Despite their slim design, the central center of gravity ensures high stability when stationary and in motion.

Options



LN₂ Transfer Hose



Cryogenic Lance



Digital Level Indicator



Heavy-Duty Rubber Casters



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Specifications



Models

AC 70 PB

AC 120 PB

AC 180 26" PB

AC 240 PB

AC 240 PBW

Technical Specifications

Gross LN ₂ capacity	73 L	126 L	190 L	252 L	252 L
Net LN ₂ capacity	70 L	120 L	180 L	240 L	240 L
Empty weight	73 kg	105 kg	122 kg	146 kg	146 kg
Weight when filled with LN ₂	129 kg	202 kg	267 kg	340 kg	340 kg
Height	1,080 mm	1,430 mm	1,350 mm	1,535 mm	1,535 mm
Diameter	508 mm	508 mm	660 mm	660 mm	820 mm
Evaporation rate	3.5 LN ₂ /%/day	2.4 LN ₂ /%/day	1.3 LN ₂ /%/day	1.4 LN ₂ /%/day	1.4 LN ₂ /%/day
Liquid withdrawal rate	6 L/min.	6 L/min.	15 L/min.	20 L/min.	20 L/min.
Operating pressure	1.5 bar	1.5 bar	1.5 bar	1.5 bar	1.5 bar
Automatic pressure build-up starting at	1.0 bar	1.0 bar	1.0 bar	1.0 bar	1.0 bar
Maximum allowable pressure	10 bar	10 bar	10 bar	10 bar	10 bar
Number of casters	4	5	5	5	5
Connection for withdrawal/filling	CGA 295	CGA 295	CGA 295	CGA 295	CGA 295
Material of the inner and outer containers	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Approval	ADR, TPED 2010/35/EU	ADR, TPED 2010/35/EU	ADR, TPED 2010/35/EU	ADR, TPED 2010/35/EU	ADR, TPED 2010/35/EU



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