

Auguste Cryogenics Medical Family – Aluminum Dewars

The image shows a standard periodic table of elements. The element Gold (Au) is highlighted in yellow. The atomic number 79 and atomic weight 196.9665 are visible above the element symbol.

Auguste Cryogenics
Medical Family
Aluminum Dewars
for liquid nitrogen storage



79 196.9665
Au
Auguste Cryo

Auguste Cryogenics



AC Medical Family – Aluminum Dewars



Continuity. Reliability. Quality. We are **Auguste Cryogenics**.

Auguste Cryogenics presents their AC Medical Family product line of double-walled, insulated aluminum dewars.

The vessels in the AC Medical Family Aluminum Dewars product line have been engineered for maximum holding times and low nitrogen consumption.

Static holding times range from 3 weeks to greater than 12 weeks depending on the design specifics. These light weight dewars are protected with the Auguste Cryogenics GOLD standard vacuum integrity and multilayer Super Insulation technology.

Auguste Cryogenics offers a complete system for your cryo-preservation requirements. Best in class microbulk and liquid cylinder storage solutions can be integrated into a complete nitrogen supply network.

Depending on the application and temperature requirements the biological material can be stored in the liquid phase or in the vapour phase of the vessel's reservoir.

The products in the Auguste Cryogenics Medical Family are particularly characterized by:

- High portability thanks to their low weight and compact dimensions.
- Long holding times, resulting in high economic efficiency.
- Large capacity of samples in straws, vials and/or freezer bags.
- Design and quality according to Auguste Cryogenics' standards.

The vacuum-insulated, double-walled aluminum containers of the Medical Family are therefore ideally suited for use in medical institutes, biological laboratories, institutes for artificial insemination and pharmaceutical facilities as well as various industrial applications such as food processing or cryo-tempering.

The "T" designation denotes special ruggedized version of the dewars. While all vessels in the AC Medical Family Aluminum Dewars product line are movable, only the dewars below 20 l capacity and the T-labeled versions of 20 liters and more capacity are reinforced to withstand regular transport. These dewars and of course all vessels in the Dry Shipper line are appropriately ADR labeled ex works.

Please note that generally, the transport of filled containers on public roads and railways is only permitted according to the requirements of the current GGVSEB/ADR/RID.

Most vessels of the Auguste Cryogenics Medical Family can be designated as Class IIa MDD medical products compliant with the European Unions Medical Device Directive 93/42/EEC Appendix IX.

Since the containers are open to the atmosphere, they are NOT pressure tanks according to the Pressure Equipment Directive 97/23 EG.

The AC Medical Family Aluminum Dewars are not intended for applications with patient contact and may only be operated and serviced by trained personnel.

Note: The values given in this document for evaporation rates and static holding times are nominal values, determined without a storage system and under exactly defined conditions. Depending on the operating conditions and the storage system used, the actual values may deviate in daily use.



AC Medical Family - Aluminum Dewars for LIN storage and distribution

Model	LN2 capacity (l)	Empty weight (kg)	Outer diameter (mm)	Overall height (mm)	Neck opening (mm)	Static evaporation rate (l/day)	Static holding time (days)
AC LIN3	3.0	3.1	223	435	50	0.12	26
AC LIN6	6.0	4.8	300	482	50	0.12	86
AC LIN10	10.0	6.1	300	545	50	0.12	86
AC LIN12	12.0	6.3	310	605	50	0.12	93
AC LIN13	13.0	6.3	310	627	50	0.12	109
AC LIN20	20.0	9.5	394	673	50	0.12	168
AC LIN20T	20.0	10.9	394	673	50	0.20	101
AC LIN25	25.0	10.7	394	705	50	0.14	175
AC LIN30	30.0	12.9	462	705	50	0.12	254
AC LIN30T	30.0	13.1	462	705	50	0.20	185
AC LIN35	35.0	14.2	462	749	50	0.12	286
AC LIN35T	35.0	14.2	462	749	50	0.20	210
AC LIN50T	50.0	17.2	462	810	50	0.22	213
AC LIN60T	60.0	20.0	462	950	50	0.24	225
AC LIN100T*	100.0	37.0	508	1025	50	0.35	232

* Despite reinforcement and „T“ designation, the LIN100T container cannot be recommended for regular transport, especially on/in vehicles. In particular the loads occurring in a filled container are considerable due to the substantial weight of the contents.

LIN series

for the storage and distribution of liquid nitrogen

The vessels of the LIN series from the Auguste Cryogenics Medical Family are special containers for the transport and distribution of liquid nitrogen.

The containers with volumes between 3 and 100 liters are transportable and easy to handle - for the convenient distribution of small amounts of cryogenic liquid nitrogen in laboratories and industry.



In the course of continuous product improvement and development, we reserve the right to change the specifications at any time without prior notice.

Optionally available:

The AC Liquid Withdrawal Device

The vessels of the Auguste Cryogenics Medical Family LIN Series can optionally be equipped with the **AC Liquid Withdrawal Device (LWD)**. The LWD allows for the easy withdrawal of liquid nitrogen under pressure from the AC Medical Family LIN containers. The device is attached directly to the dewar flange.

Flow rates of up to 4 liters per minute are possible at a working pressure of up to 0.5 bar. The liquid can be withdrawn directly from LWD spout assembly or with a standard cryogenic hose that is connected to the liquid valve.

The dewar can be filled while the LWD is installed. With this filling method, the liquid is filled into the dewar by means of a slight overpressure through the LWD, whereby the pressure in the dewar can be kept sufficient for subsequent liquid withdrawal by choking at the vent valve.

For more information on the AC Liquid Withdrawal Device please contact us.



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AC Medical Family – Aluminum Dewars

The AC Medical Family Aluminum Dewars line of products is an integral part of the Auguste Cryogenics product portfolio.

Auguste Cryogenics is an internationally renowned manufacturer of tanks and containers for cryogenic, liquefied gases. We have over 50 years of experience designing and manufacturing these products. With our manufacturing facility in Košice, Slovakia and sales and distribution center in Husum, Germany, Auguste Cryogenics has continuously shaped the European cryogenics industry for decades and continues the tradition of practices and intellectual property with which the company was built. At the same time, we take pride in investing in our employees and in innovative solutions for tomorrow.

Auguste Cryogenics products are characterized by their high technical standard and their reliability. Our portfolio includes:

- Vertical and horizontal bulk tanks from 2,000 to 250,000 liters capacity for use in industry (LIN, LOX, LAR, LCO₂, LN₂O) and in the energy sector (LNG, LH₂).
- Stationary and transportable microbulk tanks from 750 to 5,000 liters capacity.
- Liquid cylinders with capacities from 70 to 240 liters in low, mid and high pressure variants.
- Stainless steel freezers for the safe and economical long-term storage of large sample quantities.
- Aluminum Dewars from 2 to 175 liters capacity for storage and safe transport of sample material in liquid nitrogen.
- Specially engineered vessels for a large variety of purposes, designed and built to the needs and demands of our clients.

We can provide you with a solution for every aspect of your cryogenic liquefied gas storage application - please do not hesitate to contact the specialists in our sales teams.



Auguste Cryogenics Slovakia s.r.o.

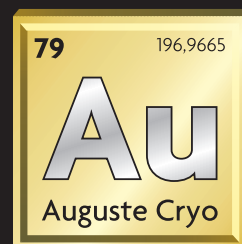
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