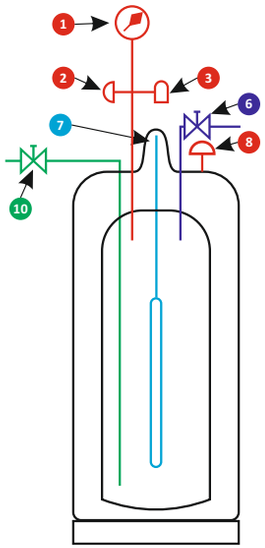
# Auguste Cryogenics Liquid Cylinders

79 196,9665
Au
Auguste Cryo

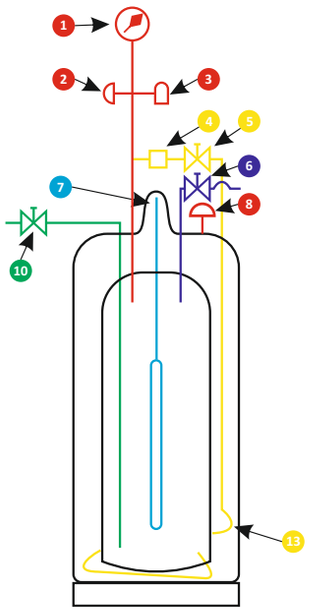
**Auguste Cryogenics**

# AC line Liquid Cylinders



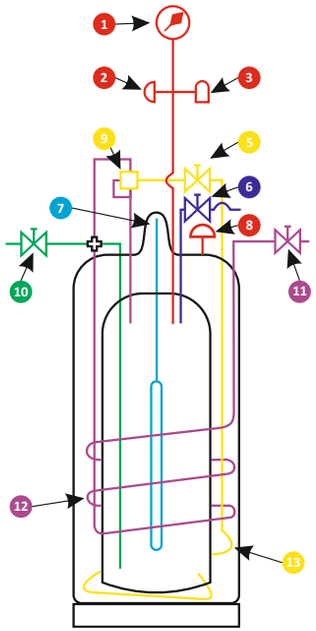
AC 120
AC 160
AC 180
AC 180 26"
AC 240

without pressure-building system



AC 70 PB
AC 120 PB
AC 180 26" PB
AC 240 PB

with pressure-building system



AC 170 MP
AC 180 MP
AC 200 MP
AC 170 HP
AC 180 HP
AC 200 HP
AC 240 HP

with pressure-building and economizer system

- Savety
- Venting
- Liquid withdrawal
- Liquid level
- Pressure building
- Vaporizer and gas withdrawal

1. Pressure gauge
2. Inner bursting disk
3. Pressure relief valve
4. Pressure building regulator
5. Pressure building valve
6. Vent valve
7. Liquid level gauge
8. Outer bursting disk
9. Dual regulator
10. Fill and withdrawal valve
11. Gas withdrawal valve
12. Vaporizer
13. Pressure building coil

Our AC line of liquid cylinders for the storage and transport of liquefied gas represent important components of the Auguste Cryogenics product portfolio. These transportable pressure vessels are manufactured to the a highly critical design and specification developed by Auguste Cryogenics. The trusted products have been successfully operating throughout Europe and all over the world for decades. The inner and outer vessel are constructed of top grade stainless steel with super insulation and protected by high integrity vacuum. All cylinders comply with the European Directive 2010/35/EU for transportable pressure equipment (TPED).

## Low pressure liquid cylinders

These cylinders are transportable units, designed and built to rugged construction standards that are intended to be carried full of product. These vessels are available with or without a built-in pressure building coil . All units feature quick and easy liquid withdrawal.

## Medium and high pressure liquid cylinders

Each vessel in this series of road-transportable cylinders features a pressure-building circuit. There is also an integrated economizer circuit that helps reduce and control overflow gas consumption. The optimized design helps to conserve boil off gas during low demand periods and build up pressure quickly for peak demand.

**The Auguste Cryogenic AC line represents the GOLD standard for industrial gas liquid cylinder performance.**

| | |
|---|---|
| Inner and outer vessel | Stainless steel |
| Insulation | Multilayer super insulation and high quality vaccuum |
| Approval | TPED 2010/35/EU |
| Safety valve set to \| Max. allowed working pressure (MAWP) | 1.5 \| 10 bar for **$N_2$**, $O_2$, Ar<br>15.9 \| 15.9 bar for **$N_2$**, **$O_2$**, Ar<br>24 \| 24 bar for **$N_2$**, **$O_2$**, Ar, $CO_2$ and $N_2O$ |
| End fittings | CGA 295 for $N_2$, Ar, $CO_2$ and $N_2O$ \| CGA 540 for $O_2$ |

79 196,9665 Au Auguste Cryo

Auguste Cryogenics

*Building the GOLD standard of service and quality in cryogenic storage equipment.*

| Model | AC 70 PB | AC 120 | AC 120 PB | AC 160 | AC 180 | AC 180 26" | AC 180 26" PB | AC 240 | AC 240 PB | AC 170 MP | AC 180 MP | AC 170 HP | AC 200 HP | AC 240 HP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gross capacity (l) | 73 | 126 | 126 | 168 | 186 | 190 | 190 | 252 | 252 | 179 | 189 | 179 | 211 | 253 |
| Net capacity (l) | 70 | 120 | 120 | 160 | 180 | 180 | 180 | 240 | 240 | 170 | 180 | 170 | 200 | 240 |
| Work. pressure std. \| max. (bar) | 1.5 \| 10 | 1.5 \| 10 | 1.5 \| 10 | 1.5 \|10 | 1.5 \| 10 | 1.5 \| 10 | 1.5 \| 10 | 1.5 \| 10 | 1.5 \| 10 | 15.9 \| 15.9 | 15.9 \| 15.9 | 24.0 \| 24.0 | 24.0 \| 24.0 | 24.0 \| 24.0 |
| Evaporation rate [1] ($N_2$/%/day) | 3.5 | 2.3 | 2.4 | 1.5 | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 1.2 | 1.1 | 1.4 | 1.2 | 1.5 |
| Liquid withdrawal rate (l/min) | 6 | 6 | 6 | 6 | 6 | 15 | 15 | 20 | 20 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 |
| Weight empty (kg) | 73 | 105 | 105 | 121 | 137 | 121 | 122 | 144 | 146 | 145 | 150 | 160 | 175 | 190 |
| Weight filled w. $N_2$ (kg) | 129 | 202 | 202 | 250 | 282 | 266 | 267 | 338 | 340 | 282 | 295 | 307 | 335 | 379 |
| Height (mm) | 1080 | 1430 | 1430 | 1640 | 1780 | 1350 | 1350 | 1535 | 1535 | 1720 | 1840 | 1720 | 1980 | 1545 |
| Diameter (mm) | 508 | 508 | 508 | 508 | 508 | 660 | 660 | 660 | 660 | 508 | 508 | 508 | 508 | 660 |
| Castors [2] | 4 | 5 | 5 | – | – | 5 | 5 | 5 | 5 | – | – | – | – | 5 |
| Auto. pressure building | set 1 bar | no | set 1 bar | no | no | no | set 1 bar | no | set 1 bar | set 8.6 bar | set 8.6 bar | set 20.0 bar | set 20.0 bar | set 20.0 bar |

[1] Vented NER, based on useable liquid capacity | [2] Non-magnetic casters for MRT applications available upon request
We can also deliver larger storage tanks for the supply of nitrogen to a multiple installation | We reserve the right to modify prices without prior notice

| Accessory \| Part Number |
|---|
| Trolley (for vessels without castors) |
| Transfer hose 1,2m for $N_2$ service \| 1700-9C65W |
| Transfer hose 1,8m for $N_2$ service \| 1600-9C66W |
| Phase separator \| 1193-8C80 |
| Square base (for vessels with castors) |

| C-Stic electronic liquid level gauges |
|---|
| C-Stic Classic |
| C-Stic SGB |
| C-Stic VGB |

| Packing options |
|---|
| Packing 1 (for vessels with castors)<br>(wooden pallet, cushioning ring, plastic foil wrapping and cardboard layer) |
| Packing 2 (for vessels without castors)<br>(pallet with strengthened cardboard box) |

# Auguste Cryogenics Liquid Cylinders

In 2016 **Auguste Cryogenics** acquired the European Operations of Taylor-Wharton International. Our production plant in Košice, Slovakia and the distribution center in Husum, Germany have influenced the European cryogenic industry continuously for more than 50 years. We carry the tradition of the people, practices and intellectual property for which the company has been built while investing in innovative solutions for tomorrow.

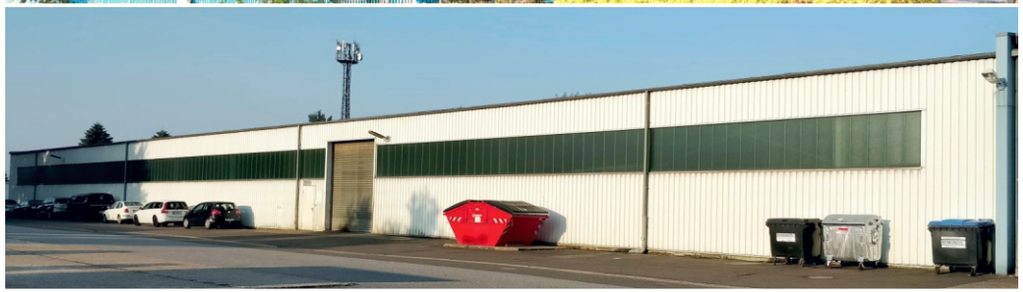
**Auguste Cryogenics** produces an extensive line of cryogenic storage equipment for mobile and stationary applications for the energy, medical and industrial markets. The energy portfolio ranges from LNG solutions to liquid hydrogen delivery systems. With our healthcare product line we can support the full range of applications from hospital oxygen supply to cryogenic tissue preservation. Auguste's industrial pressure vessels are used for every technical gas purpose imaginable. These vacuum insulated storage tanks are engineered to the limits of what is technically feasible.

GOLD standard vacuum technology is at the core of every vessel produced by **Auguste Cryogenics**. Our principle of complete thermal performance drives both inner and outer vessel design and material construction. You can't cheat the heat but we don't let it in.

See for yourself that we are building the GOLD standard in cryogenic storage equipment every day.

Visit our website at

**www.augustecryogenics.com**



**Auguste Cryogenics Slovakia s.r.o.**
Vstupný areál U. S. Steel | 044 54 Košice | Slovakia
Tel.: +421 55 7277124 | E-Mail: cs.eu@augustecryogenics.com

**Auguste Cryogenics Germany GmbH**
Mildstedter Landstraße 1 | 25866 Mildstedt | Germany
Tel.: +49 4841 985-120 | E-Mail: cs.de@augustecryogenics.com

79 196,9665
Au
Auguste Cryo

Auguste Cryogenics

AC 40000.04 | 20200612-01