

# The HELIOS<sup>®</sup> Series



Efficiency  
coupled  
with  
minimum  
evaporation  
rates

The vacuum super-insulated vessels of the HELIOS<sup>®</sup> Series are used for the storage of cryogenic, liquefied helium. Thanks to their robust design, first-class material selection and perfect manufacture, the HELIOS<sup>®</sup> vessels ensure the lowest evaporation rate currently available on the market.

The welded construction made of non-magnetic, highly corrosion-resistant stainless steel/aluminium is one of the quality features of these cryogenic systems that are subject to continuous quality controls in all manufacturing stages.

# HELIOS<sup>®</sup> containers

| Technical data                 |                         |                          |                         |
|--------------------------------|-------------------------|--------------------------|-------------------------|
|                                | HELIOS <sup>®</sup> 50A | HELIOS <sup>®</sup> 100A | HELIOS <sup>®</sup> 100 |
| Vessel material                | Aluminium               | Aluminium                | Stainless Steel         |
| Approval mark                  | CE                      | CE                       | CE                      |
| Geometric capacity [l]         | 52                      | 103                      | 103                     |
| Operating gauge pressure [bar] | 1.0                     | 1.0                      | 1.0                     |
| Weight empty [kg]              | 46                      | 74                       | 125                     |
| Weight full [kg]               | 52                      | 86                       | 137                     |
| Static evaporation rate [%/d]  | 1.3                     | 0.9                      | 0.9                     |
| Total height [mm]              | 1,150                   | 1,210                    | 1,325                   |
| Total width [mm]               | 550                     | 700                      | 700                     |
| Diameter of castors [mm]       | 100                     | 125                      | 125                     |
| Neck diameter [mm]             | 32                      | 32                       | 32                      |
| Decanting head connection      | KF 32                   | KF 32                    | KF 32                   |
| Article number                 | 0791183                 | 0791185                  | 0791184                 |

| Heads  |          |
|--|----------|
| Item   | Item No. |
| Safety head HESA DN 32 with O-ring-fitting Ø 12<br><br><ul style="list-style-type: none"> <li>Exhaust ball valve with joint KF 25</li> <li>Safety neck tube</li> <li>KF 32 centering ring and clamp</li> <li>Safety valve 1 bar, type-approved down to -269° C</li> </ul>  | 79245234 |
| Safety head HESA DN 32 with O-ring-fitting KF 25<br><br><ul style="list-style-type: none"> <li>Exhaust ball valve with joint KF 25</li> <li>Safety neck tube</li> <li>KF 32 centering ring and clamp</li> <li>Safety valve 1 bar, type-approved down to -269 °C</li> </ul> | 78200727 |

| Accessory                                    |          |
|--|----------|
| Item   | Item No. |
| O-ring-fitting 9,6 mm / KF 25*               | 78400730 |
| O-ring-fitting 10,0 mm / KF 25*              | 78204513 |
| O-ring-fitting 12,0 mm / KF 25*              | 79251340 |
| O-ring-fitting 12,7 mm / KF 25*              | 79243594 |
| O-ring-fitting 16,0 mm / KF 25*              | 79402556 |
| Clamp KF 25                                  | 79405158 |
| Centering ring with o-ring (KF 25)           | 0647981  |
| Hose nozzle with KF 25 for pressure build-up | 79243595 |
| PVC hose for pressure build-up               | 0121055  |
| Hose clamp                                   | 0121054  |
| Level probe, rod 12 mm                       | 78200943 |
| Level probe KF 32 intermediate piece         | 79248661 |
| Digital level meter                          | 78200194 |

\* only in conjunction with safety bonnet 78200727

We gladly manufacture your container with tailor-made dimensions to your specific requirements up to a volume of 10,000 litres. Please do not hesitate to contact us.

## Contact

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