

Dewars



DEWARs

HVM is leader in the construction, maintenance and periodical inspections of transportable cryogenic tanks.

Designs and manufactures cryogenic gasifier for industrial, scientific and medical use thanks to its twenty-year experience. Over twenty years of experience enabled them to achieve ambitious targets including the marketing of the new line Oxy-Blu and Oxy-Light, units base and portable for home oxygen therapy.

Main market sectors:

- Hospital
- Research Centres
- Home oxygen therapy
- Chemical laboratories
- Pharmaceutical Industry
- Metal Industry
- Cooling
- Pest Control
- Fish farming

HVM - an Italian company with headquarters in the city of Livorno, within more than 20 years develops and manufactures a wide range of cryogenic Dewar vessels (cryogenic gasifier) with different operating pressure, different systems of drainage of gases and liquids, vertical and horizontal palletized management, etc. Products are used for storage and transport of gases at low temperatures.

WestMedGroup is the official supplier of HVM cryogenic vessels to the Russian and abroad medical market.

Cryogenic storage dewars, or cryogenic gasifier, are specialised types of vacuum flask used for storing cryogens (such as liquid nitrogen or liquid helium), whose boiling points are much lower than room temperature. Cryogenic storage dewars may take several different forms including open buckets, flasks with loose-fitting stoppers and self-pressurising tanks. All dewars have walls constructed from two or more layers, with a high vacuum maintained between the layers.

Cryogenic gasifier - a vessel intended for long-term storage of substances at elevated or lowered temperature. Constant temperature is maintained passive methods, due to good thermal insulation and / or processes in the stored substances (eg boiling). This is the main difference from the dewar thermostats, cryostats.

The first container for storing liquid gases was developed in 1881 by the German physicist Veynhold.

Scottish physicist Sir James Dewar in 1892 improved this glass box, turning it into a double-walled flask with a narrow neck to reduce the evaporation of the liquid. All this fragile structure of Dewar suspended on springs in a metal casing. Due to its design the first Dewar was able to get and keep the liquid (1898), and even a solid (1899) hydrogen.



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First cryogenic gasifier for commercial use were made in 1904 by the German company Thermos GmbH for the production of vacuum flasks. In laboratories and in industry Dewar is used for storing of cryogenic fluid, usually liquid nitrogen.