The 900 Series Modular Hyperbaric Rescue Facility is specially designed for easy transportation and immediate use on site. The HRF is available as a single module (MS.HRF.010) and as multi-module (MS.HRF.020). Both versions are available in 40-foot and 20-foot container modules, suitable for road, marine and air transportation.

The limited number of quick connections minimizes installation time. The 900 Series Hyperbaric Rescue Facility is designed to support the widest number of Hyperbaric Evacuation Systems (HES), with both side and bottom mating.

The modules can be connected to Hyperbaric Rescue Chambers (HRCs), to Hyperbaric Lifeboats (HLBs), Diving Bells, but also to the various Submarine Rescue Vehicles in service with NATO and other foreign navies.
System Description

The DDC saturation control module can also be equipped with an additional HES saturation control to avoid the necessity of a dedicated Fly Van. In this case the 40-foot stand alone module MS.HRF.010 can even replace the fly van on the Assistant Supply Vessel and perform the complete scope of the Hyperbaric Rescue Facility in the immediate proximity of the diving operation site.

The possibility of hosting a complete Hyperbaric Rescue Facility on board allows the Diving Contractor to retain full control of the hyperbaric rescue operations. This means that operations can be carried out without the complication of setting up a dedicated on-shore facility or getting custom clearance in a foreign country.

The occupancy of each MS.HRF.010 stand alone module is 12 persons. Additional modules can be installed while the original module is in operation, increasing the overall occupancy as needed.

Installation is limited to a few gas hoses and connectors. This allows an immediate start-up of the transfer operation without waiting for the complete interconnection of eventual additional modules to increase the system occupancy. During submarine rescue operations, where the rescue vehicle is carrying a limited number of persons for each submarine transfer, this feature is extremely useful. In fact the vehicle can deliver to the rescue facility the first team as soon as the first container is positioned on deck.

The modules can share the same gas storage reserve as a bridge connection is installed on each module.

This is also the case for the electrical and water connections.

Drass Hyperbaric Evacuation and Reception Facilities (MS.HRF) are ready for connection with the Global Service Program: Automatic Monitoring System of the Diving System, remote reporting for the management team ashore, graphs of performance and e-procurement of spares and components. For more information info@drass.it, Object: Global Service.

The Drass MS.HRF and Drass 100, 700 and 900 Series Saturation System are the only Diving Systems provided with a specialized technical software for a complete remote management of the Drass Diving Systems on the fleet. The software is available as optional and manages the configuration, maintenance, documentation, logistics and the training of the system.
To ensure the immediate operability of the HRF the mixed gas should also be immediately available and transportable. Indeed for long term storage of the gas the choice of renting quads could be more expensive than owning a gas storage module. Drass DS.GS.002 offers more than 1,000 Nm³ of gas available at 250 bar for each 10-foot stackable module. The 8-tube skid can be manifolded for the storage of different mixes, O₂, He and Air.

Cradle

Transfer Under pressure from HLBs, HRCs, DBs with different spooling is available by replacing the removable end of the interconnection spool. Thanks to the availability of top and side mating, all different HESs can be connected regardless of their mating configuration. The HRF is also designed to interconnect Drass SRV 450 and 650 Submarine Rescue Vehicles. With the addition of dedicated spool pieces it is possible to provide interconnection for different Submarine Rescue Vehicles such as LR5, LR6, NSRS and other designs.

10 Feet Gas Storage

To ensure the immediate operability of the HRF the mixed gas should also be immediately available and transportable. Indeed for long term storage of the gas the choice of renting quads could be more expensive than owning a gas storage module. Drass DS.GS.002 offers more than 1,000 Nm³ of gas available at 250 bar for each 10-foot stackable module. The 8-tube skid can be manifolded for the storage of different mixes, O₂, He and Air.
The 900 Series Modular Hyperbaric Rescue Facility is specially designed for easy transportation and immediate use on site. The HRF is available as a single module (MS.HRF.010). It is based on a 40-foot container, suitable for road, marine and air transportation.

The occupancy of each MS.HRF.010 stand alone module is 12 persons. Additional modules can be installed while the first module is in operation, increasing the overall occupancy as needed.

Both MS.HRF.010 and MS.HRF.020 are equipped with hyperbaric fire detection, fire fighting, deluge system, black box recording and communication for the inner and outer area. The redundant Life Support System is provided by Drass Environmental Control Units plus emergency heaters, chillers and scrubbers installed in the DDC.
Mainly designed for on shore location. Recommended for occupancies higher than 12 persons. Decompression chambers offer the highest level of comfort. Common saturation control module.
The facility is composed of road transportable modules and are installed quickly and easily.
MS.HRF Systems are provided with the standard interconnection to support Drass 100 and 900 Series Hyperbaric Evacuation Systems, including Hyperbaric Lifeboats, Hyperbaric Rescue Chambers and Diving Bells.

The equipment consists of the Saturation Control Panel, Gas Pressure Reduction Panel and O2 Deck Distribution Panel and the additional minor components needed to ensure a safe working environment. The unit also ensures hot and cold water supply for the environmental control of the HLB rescue chamber.

A Portable Life Support Unit is available to extend the endurance of the HES Life Support System during the transportation to the Hyperbaric Rescue Rescue Facility location.
Related Products

- Drass 100 Series Saturation Diving System

- Drass 700 Series Surface Diving System

- Drass 900 Series Modular Saturation System
The Management System of Drass Group of Companies and all Drass Systems, Equipment and Components are fully DNV-certified.

The 900 Series Saturation Diving System is fully pre-approved by the Class as a complete system.

ABS and LRS Certifications are available on demand.

Drass is active member of the International Maritime Contractor Association. Drass Systems, Equipment and Components are designed and built in compliance with the IMCA Recommendations.