



DS.GR.003

FD-30 Diving Equipment

Divers Gas Reclaim System

Description

The Drass Divers Gas Reclaim System allows the reclaim of gas mix breathed by 2 divers up to 300 msw at a flow rate of 35 l/min per diver:

The Reclaim System controls the correct level of pressure in the various lines with a redundant check of O₂ and CO₂ level, before the last downstream check on the Bell Control Console.

It is possible to adjust the different pipelines to the correct level of pressure in order to set up the system at various depths.

The Recompressing Unit, Gas Compressor or Gas Booster can be used in order to optimize the system and use the equipment already present on board at the maximum rate, for example the Gas Compressor for Gas Mix Transfer:

The Divers Reclaim System is equipped with all the safety devices that exceed the necessary requirements.

The Divers Reclaim System can work with all the Underwater Breathing Apparatus (UBA), compliant with EN, DNV, Norsok Standards.

The whole system is modular and available for partial delivery or integration in already existing systems.



Picture 1. Divers Gas Reclaim Units

The system is composed of:

- Bell Equipment
- Reclaim Control Panel
- Regeneration Unit
- Recompression Unit
- Volume Tank

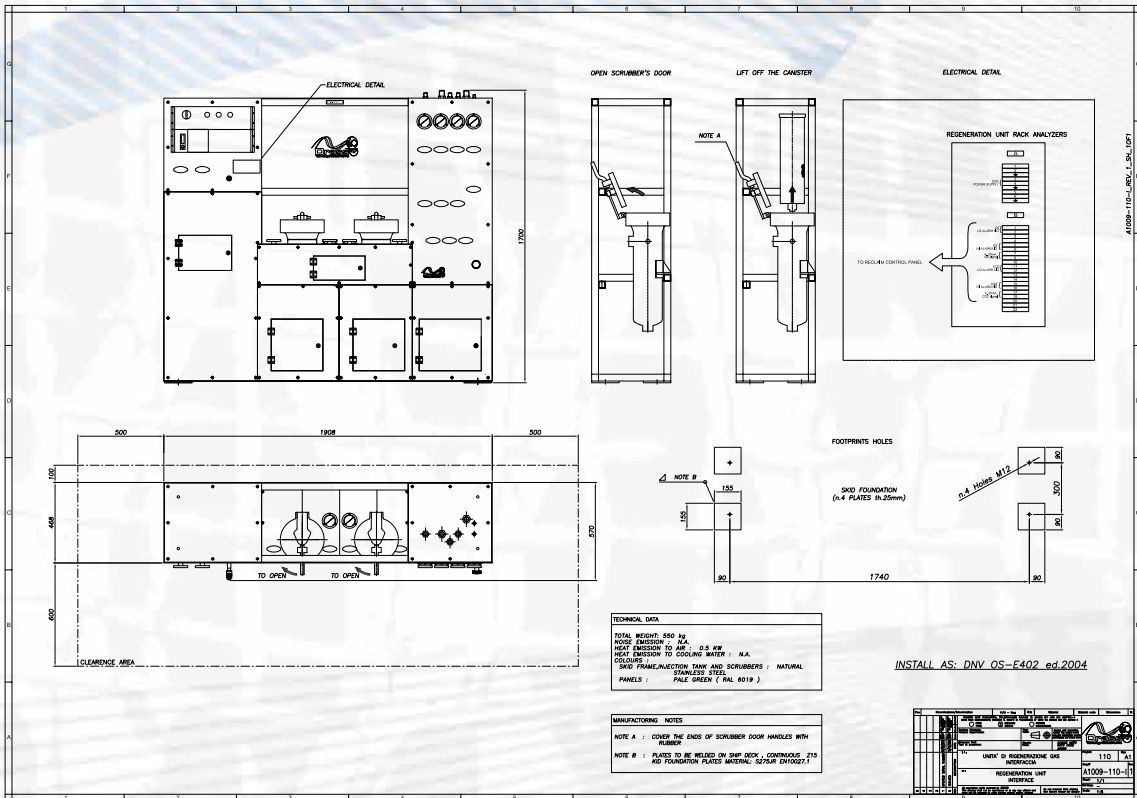
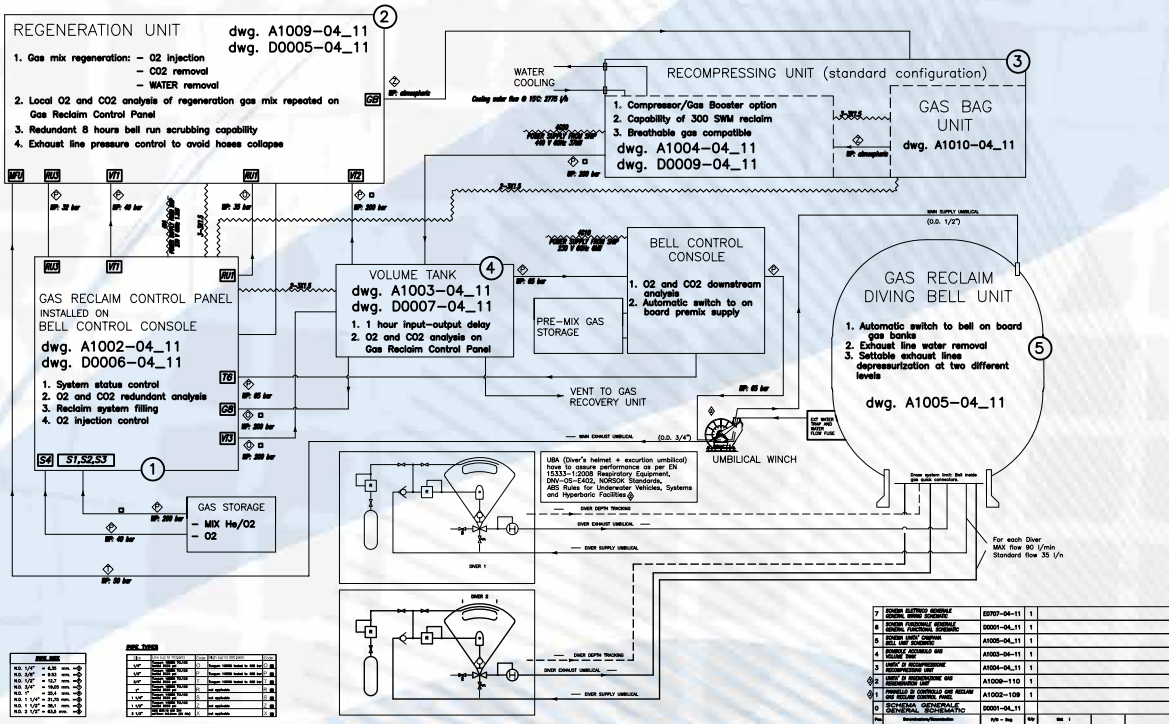
The Divers Reclaim System is a DNV- Drass joint programme system.



The equipment is built in accordance with the following standards:

- The Panel Frames are made of Stainless Steel square tubes.
- The Panel covers are built in painted aluminium of various colours as per standard available in Drass (other colours on demand).
- The mimic is engraved in the panel and painted in different colours according to the circuits. A palette of colours and styles for mimics is available.
- The Piping is DNV certified Tungum, the fittings are DNV approved.
- Needle valves are DNV certified for O₂ use.
- Redundant environmental condition analysers: O₂ & CO₂.
- Sampling and Calibration points available.
- Input and output ports of the piping are on top of the panel.

Divers Gas Reclaim System



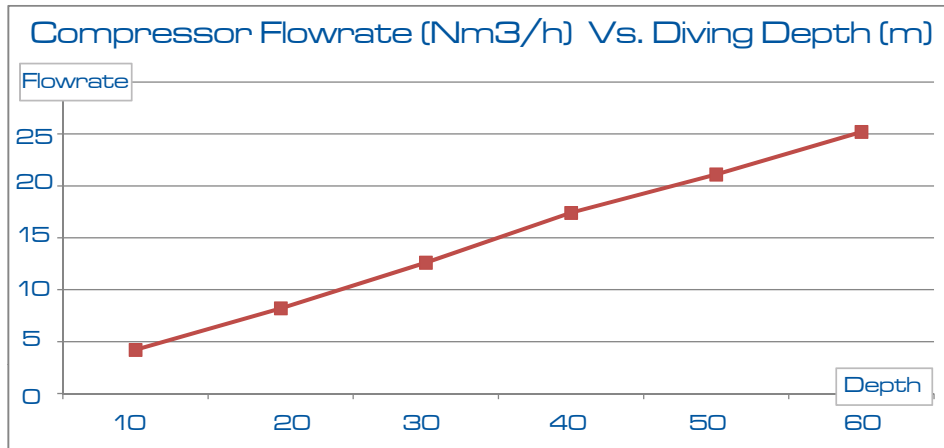
Picture2. Divers Gas Reclaim Drawing.



For information visit
www.drass.it



Drass Diver Gas Reclaim System can be used at different diving depths, still covered by the full certification, selecting the proper compressor. Customers can therefore select an available compressor, thus reducing the cost of the reclaim system. See below the requested flow rate to properly operate at various depths in accordance with the certification design.



MAIN FEATURES:

ISSUE	DRASS RECLAIM
Recompressing flexibility	Gas Compressor or Gas Booster in order to optimize the system and use the equipment already present on board at the maximum rate, e.g. Gas Compressor for Gas Mix Transfer
Recompressing Breathable Gas compatibility	Assured by filtration pack
Exhaust Line pressure fine tuning	Settable to a fine value and compatible with different diver depth tracking techniques
Gas Analysis	Redundant on line Gas Analysis after regeneration and before inlet of Volume Tank

Drass reserves the right to modify/improve the present specification without notice prior to the order issue.



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