

# Hycomp Goes to Great Depths With LexMar



We are proud to announce DNV approval of Hycomp Oil Free Gas Compressors for applications in the Commercial Saturation Diving and Hyperbaric Industry.

DNV (Det Norske Veritas) is a Norwegian based risk management foundation that certifies compliance to International Standards and Regulations.

Hycomp teamed with LexMar Engineering to design and manufacture a total of five compressors for Heliox gas reclamation in Lexmar's LESGAZ Diver Gas Reclaim System. Heliox is a deep sea breathable gas composed of a mixture of helium (He) and oxygen (O<sub>2</sub>).



Hycomp Heliox compressors being tested within the LexMar's LESGAZ Diver Gas Reclaim System at their Singapore location.

The LesGaz system is designed to recover gas exhaled by divers, process the gas back into a breathable mixture, and then deliver the gas back to the diver. LexMar is a Singapore based global provider of technical services in support of the Hyperbaric/Commercial Saturation Diving Industry.

Maritime contractors and other offshore service providers like LexMar, have a need to do subsea dive work at depths up to 300 meters (985 feet).

Due to the critical safety requirements at these depths and the very real life-threatening nature of this kind of work, LexMar was

required to have Third Party safety and quality certification of their diver breathing gas reclamation equipment. To our knowledge, this is the first DNV approved compressor for this application.

Graham Winters, LexMar Dive Engineer was very pleased with the five Heliox compressors Hycomp provided, "After a long and arduous road, LexMar Engineering has proved to DNV the outstanding capabilities of the 'LESGAZ Diver Gas Reclaim' with the strong and reliable Hycomp Oil Free Compressors, chosen for their impressive track record in helium compression and transfer."

 **hycomp**

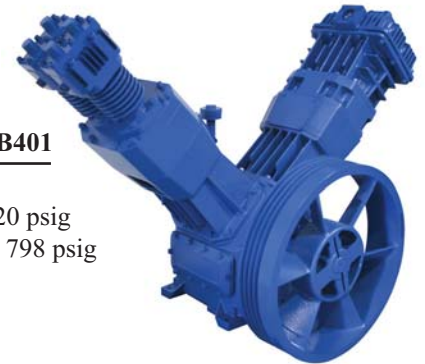
**Model: 3AN35V1-B401**

Gas: Heliox

Suction Pressure: 220 psig


Discharge Pressure: 798 psig

Flow: 197 scfm



One of the five Hycomp Heliox gas compressors manufactured for LexMar.

The compressor needed to be flexible enough to provide compression for the full 300 meter depth or only a fraction of it. "Working with our engineering staff, a flexible displacement design was developed that accommodated the peculiar set of conditions," said Reid Andrews, Hycomp Sales Engineer, "Once that hurdle was overcome, we knew we had a solution that would provide LexMar with a compressor they could develop their diver gas reclaim system around."

Hycomp Oil Free Gas Compressors are one of the key technologies in the LESGAZ Diver Gas Reclaim System that result in significant cost saving opportunities for commercial diving and offshore service providers. 

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