

Saturation Diving System

Owner	Dulam International Ltd.
Manufactured by	Veolia Environmental Services
Year of manufacture	2009
Classification Society	ASME Section 8 Div 1 Pressure vessel code & PVHO-1 2007 edition code. All frames which support the chambers, control vans and LARS have been fabricated in accordance with ABS rules.
Certification	ABS / IMCA D024
Depth Rating	1000 foot Saturation Diving System

All vessels have a design pressure rating of 450 PSI Gauge between 0° & 125°F

Dive & Sat Control Van

Includes full panel instrumentation and controls for both LST and Supervisor

- Dimensions 25'1 x 10'w x 8'4"h
- Divex gas reclaim control panel
- Bell Services Controls: Electrics, Unscrambled communications
- Hot water, temperature monitoring, carbon dioxide and oxygen analysis of diver gas

- Through water comms, diver's colour hat camera and video recording systems controls
- Bell internal video monitoring and controls

Launch & Recovery System (LARS)

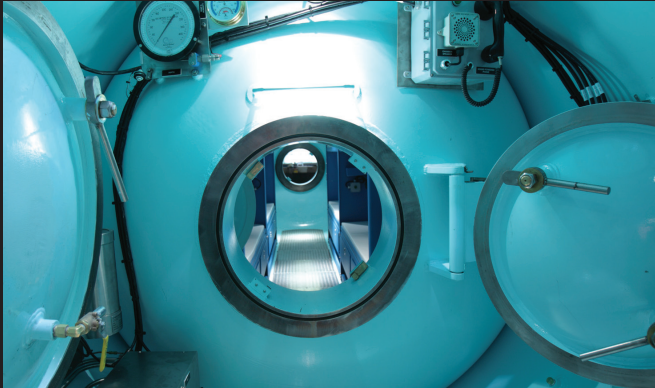
- Main bell winch
- Bell weight counter winch, which is rated to enable secondary recovery of the bell
- Umbilical winch, has a slip ring termination for gas and electronics
- The winches are electro-hydraulic with a control station on the LARS frame

Sat Control Panel

- Chamber Life support control panels for the six-man Main Chamber, TUP with shower and W/C and the 12 man HRC with shower and W/C facilities.
- Unscrambled communications, chamber depth and atmosphere monitoring and analysis, with automatic O₂ injection. Chamber CCTV video monitoring and gas distribution panel.

Chambers

- Three-man Diving Bell, bottom mount / side mount bell 66" I/D by 90" tall, with 3 x 150' excursion umbilicals hooked up to the gas reclaim panel.



- Six-man twin lock Main Chamber, 90" Diameter x 30' overall length.
- The transfer lock 90" x 8' has a hydraulic top door to the bell, W/C and shower.
- 12-man single lock Hyperbaric Rescue Chamber (HRC) 84" Diameter x 22' overall length with shower & W/C, this chamber has 6 bunks, and 12-man emergency seat belt and shoulder harnesses.
- The HRC has a towing bridle permanently rigged to the HRC frame to enable the HRC to be towed for connection to the evacuation "Flyaway" control container. The flyaway container has all necessary control and analysis equipment fitted to control decompression of the HRC.
- A 50 metre long umbilical to connect the Flyaway to the HRC.
- A separate umbilical connects the shack to all necessary gas supplies for life support and decompression.
- Environmental Conditioning Unit (ECU) has a Lexmar HECU-05 designed to maintain the chamber's internal environment with a temperature of between 75°F – 95°F and humidity from 50 – 70%. The system can also remove CO₂ produced by 6 people.



- Electric Diver Hot Water Units are also located in the ECU van, Lexmar model LME-HWE-01 and are good for 3 divers simultaneously using the system at 300m and are IMCA compliant at 14 GPM.
- Chamber Conditioning Unit is a Lexmar LME-CCU-03 located in the Main chamber and the HRC.
- Hyperbaric Carbon Dioxide Scrubber, uses a Lexmar model LME-CS-01
- Hyperbaric toilet, is a stainless steel unit with safety interlock
- Internal Gas Distribution panel is mounted in the HRC for worst case decompression emergencies.
- Electric Compressor Gas Reclaim System is a complete Divex reclaim system.
- Hyperbaric combined heater / scrubber Lexmar model LME CHS 02 the internal chamber system is fitted with 6 kg Carbon Dioxide canisters.
- The main Umbilical length is 1,250 feet.



Specifications subject to change at owner's discretion