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Saturation Dive Spread - SHEPL (SAT-01)

Designed and built by Hallin Marine, the 12- man Saturation Diving Systems are certified and operated in accordance with International Maritime Contractors Association guidelines and codes of practice for offshore diving operations.

The compact system consists of dive and saturation control, diver's hot water unit, diver gas reclaim, ECU, potable water unit, 9 man deck decompression chamber, 12man hyperbaric rescue chamber and a 3-man diving bell.

SAT-01 Specifications

MAIN PARTICULARS

Builder	Hallin Marine
Classification standard	IMCA
Design Standard	IMCA D018/D024
Depth Rang	21 bar 200 MSW

DIVE AND SATURATION CONTROL UNIT

Dive/Bell Control panels comprising:

Diver gas reclaim control panel.

Electrics, communications and analyzers, hot water temp monitoring, carbon dioxide and oxygen analysis of divers gases

Through water emergency communications diver colour hat camera and video monitoring and controls

Bell internal video monitoring and controls.

Chamber life support control panels (DDC, TUP, HRC) comprising:

Unscrambler communications sets,

Chamber depth and atmosphere monitoring and analysis

Chamber CCTV video monitoring and gas distribution panel.

HYPERBARIC RESCUE CHAMBER 12-MAN

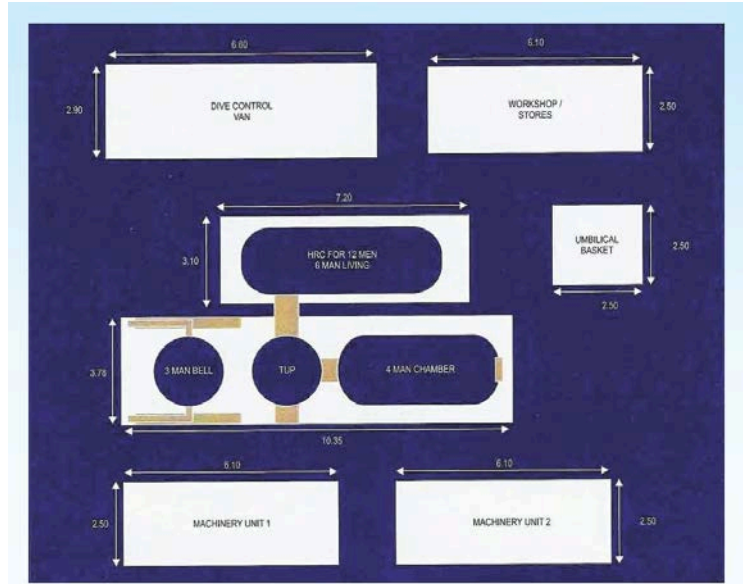
Onboard emergency gas and battery for 72 hours

12-man HRC c/w 12 x full seat harness and approved safety helmets, 1 x toilet, shower & wash basin.

4 x HCU, 13 x BIBS complete with dump, 6 x carbon dioxide scrubbers.

Medical lock, communications, 6 x bunk beds.

Dedicated HRC launching winch (hydraulic 10T man riding)



SHEPL-SAT-01 Saturation Diving System 200m - 9 Man System / 3 Man Bell

Equipment Description	Length (m)	Width (m)	Height (m)	Weight (kgs)
• Main chamber with TUP, Bell and Winch deck	10.35	3.78	5.50	50,000
• Hyperbaric Rescue Chamber with Base	7.20	3.10	3.20	18,560
• Umbilical Basket	2.50	2.50	1.50	2,000
• Dive Control Van	6.60	2.90	2.70	16,000
• Machinery Unit 1	6.00	2.50	2.60	8,000
• Machinery Unit 2	6.10	2.50	2.60	8,000
• Workshop Unit	6.10	2.50	2.60	8,000
• HRC Control Van	2.50	2.50	2.60	2,500



DIVING BELL 3-MAN

- 3 x Diver Excursion Umbilical's complete with reclaim hose
- 2 x Diver Helmet mounted colour cameras and lights
- 2 x Bell Carbon Dioxide Scrubber
- 2 x Bell Heater (hot water unit)
- 2 Divers gas reclaim panel
- Bell/Diver Communication Systems
- Onboard emergency gas cylinders and battery
- Through Water Communications
- Telescopic stand-off frame
- Hydraulic Top & Boom Door System
- Internal and External Lights

DDC

- 9-Man Chamber
- 10 x BIBS complete with dump
- 2 x CCU, 6 X Carbon dioxide scrubbers
- Primary and Secondary Communications
- CCTV Camera
- Medical Lock

TUP

- 4 x BIBS complete with dump
- Carbon Dioxide scrubbers and communications
- CCTV Camera
- 1 x toilet, shower, wash basin, 1 x CCU

LIFE SUPPORT MACHINERY

- 3 x ECU Units (100% Redundancy)
- 2 x Divers Hot Water Units (100% Redundancy)
- 1 x potable water unit
- Haskel AG30 Gas Booster for Bailout and OBG Charging
- Air Driven Diver Gas Reclaim Unit
- Main / Emergency Switchboard

HRC EMERGENCY CONTROL UNIT

- Chamber control panel & ECU
- Chamber depth atmosphere
- Monitoring and analysis
- Chamber CCTV video monitoring and gas distribution panel

CHAMBER VOLUMES

Main DDC	21.40m ³
TUP	6.0m ³
HRC	19.26m ³
Bell	5.00m

MAIN SKID

- A' Frame and Bell Trolley
- CEC for DDC / TUP / HRC
- HRC launch remote control panel/joystick
- HRC Launch Hyd Accumulators, HRC Launch Push Rams

WINCH SKID

- Main Bell winch (hydraulic 10T man riding)
- Clump Weight Winch (hydraulic 6T man riding)
- Umbilical Sheave (hydraulic)
- Hydraulic Power pack and tanks with 100% redundancy

POWER REQUIREMENTS

Main Power:	440V, 60Hz/ 400Kva
Emergency Power:	440V, 60Hz/ 350Kva

SERVICES

Compressed Air:	400 cfm @ 90 psi
Seawater:	25 gpm @ 2-4 bar
Freshwater:	5 gpm @ 2-3 bar

MAIN SKID (incl. Bell and Chamber)

Length	12800mm
Width	3700mm
Height	6500mm
Weight	76000kg

