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Saturation Dive Spread - SHEPL (SAT-06)

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-06 Specifications

MAIN PARTICULARS

Builder	Hallin Marine
Classification standard	ABS A1
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.
 Bell services controls:
 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, 5 x carbon dioxide scrubbers.

HYPERBARIC RESCUE CHAMBER 12-MAN

Medical lock, communications, 6 x bunk beds.
 Dedicated HRC launching winch (hydraulic 10T man riding)
 Lifting frame and rigging. Towing bridle

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
 ROV Intervention Panel

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

