

SAT-14 Saturation Diving System

SPECIFICATIONS

► CLASSIFICATION

Builder	Hallin Marine
Classification Standard	ABS A1 Diving System
Design Standard	IMCA D018/D024
Depth rating	21 bar 200 msw

► MEASUREMENT

Length	41.2 ft
Width	12.1 ft
Height	21.3 ft
Weight	167,551.3 lbs

► POWER REQUIREMENTS

Power Requirements	440V, 60Hz/400Kva
Emergency Generator	440V, 60Hz/350Kva

► DIVE & SATURATION CONTROL UNIT

Dive/Bell control panels	Diver gas reclaim control panel
Bell services controls	Electrics, communications and analyzers, hot water temp monitoring, carbon dioxide and oxygen analysis of diver's gases Through water emergency communications, diver color hat camera and video monitoring and controls Bell internal video monitoring and controls
Chamber life support control panels DDC, TUP, HRC	Primary and secondary communications Chamber depth and atmosphere monitoring and analysis Chamber CCTV video monitoring and gas distribution panel

► HYPERBARIC RESCUE CHAMBER 12-MAN

Onboard emergency gas and 2 x batteries for 72 hours
12-man HRC c/w 12 x full seat harness and approved safety helmets
1 toilet, shower and wash basin
3 x CCUs, 13 x BIBS complete with dump, 4 x carbon dioxide scrubbers
Medical lock and communications, 6 x bunk beds (1 x medical bunk)
Protection bump frame and rigging, towing bridle
HRC launch remote control panel/joystick
Dedicated HRC launching winch (hydraulic 12T man riding)

► DIVING BELL 3-MAN

3 diver excursion umbilical complete with reclaim hose
2 standby diver's umbilicals
2 diver helmet mounted color cameras and lights
2 bell carbon dioxide scrubber
2 bell heater (hot water unit)
Bell/Diver communication systems
Onboard emergency gas cylinders and battery
Through water communications
Telescopic stand-off frame
Hydraulic bottom and top door system
Internal and external lights

► DDC

9-man chamber
10 x BIBS complete with dump
2 CCUs, 4 Carbon dioxide scrubbers
Primary and secondary communications
CCTV camera
Medical lock

► TUP

4 BIBS complete with dump
1 toilet, shower, wash basin, 1 CCU
Carbon dioxide scrubbers and communications

► HRC EMERGENCY FLY AWAY VAN CONTROL UNIT

HRC chamber life support control panel
Unscrambler comms set
Chamber depth atmosphere monitoring and analysis
Chamber CCTV video monitoring and gas distribution panel
ECU unit and umbilical for HRC

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► CHAMBER VOLUMES

Main DDC	755.73 ft ³
TUP	211.88 ft ³
HRC	680.16 ft ³
Bell	16.40 ft

► MACHINERY VAN

20' long machinery container
3 x ECU units (100% Redundancy)
2 x divers hot water units (100% Redundancy)
1 x potable water hot/cold fresh water unit
1 x Haskel AG30 gas booster for bailout and OBG charging 300 Bar
Air driven diver's gas reclaim units
Main/Emergency switchboard and change over switch with interlock

► 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 12Ton man riding)
Guide wire winch (hydraulic double sheaved man riding) 8 Ton
Umbilical sheave (hydraulic)
Hydraulic power pack and tanks with 100% redundancy

► SERVICES

Compressed Air	400 cfm @ 90 to 150 psi
Seawater	14 M3 @ 3-5 bar
Freshwater	5 gpm @ 2-3 bar

► ABOUT HYDRA

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