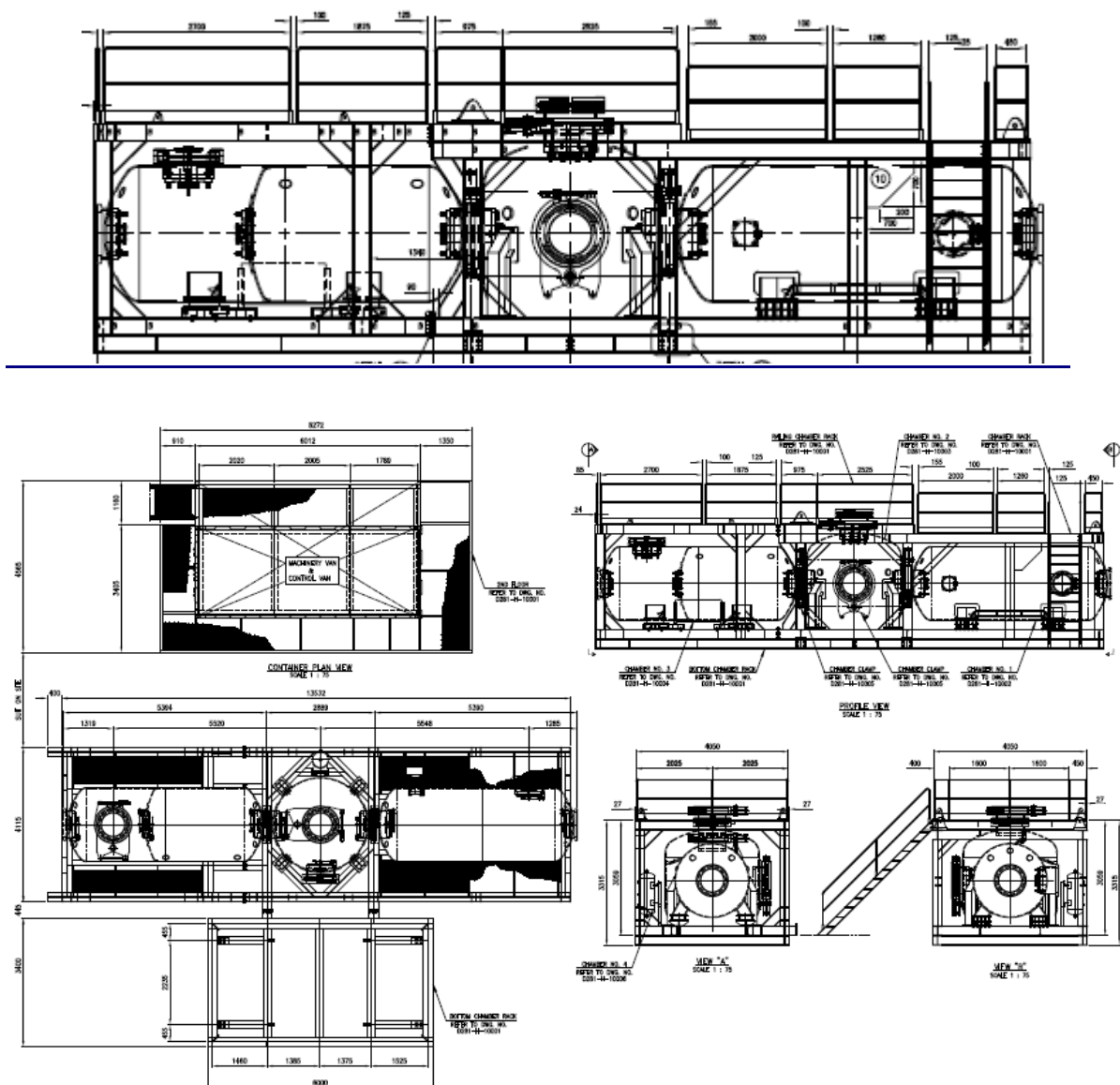


ST HRF 01

TECHNICAL SPECIFICATIONS

HRF 1 HPERBARIC RESCUE FACILITY



HRF 01 TECHNICAL SPECIFICATIONS

General Technical data.

SEA HRF01 is a ABS classed 200 meter 12 man Hyperbaric Rescue Facility conforming to the Code of Federal Regulations (CFR) and the International Marine Contractors Association (IMCA).

SEA 02 comprises the following main components:

- a. 8 man Twin Lock Decompression Chamber – DDC #1 & TUP
- b. 4 man Single lock Decompression Chamber – DDC #2
- c. 1 man Entry lock Decompression Chamber – DDC #2
- d. HRC mating facility
- e. Life Support Machinery Container
- f. Dive Control Enclosure with split store
- g. Facility for SPHL

(a) DDC #1 Enclosure

Comprises a twin lock chamber – (8) man living and TUP. The living chamber has bunks and essential equipment for each occupant. The living chamber has a medical lock, communication system, environmental control, electrical distribution, gas management and firefighting. The TUP joins the chamber and provides ablution services as well as secured transfer to the HRC/ SPHL.

(b/c) DDC #2 Twin lock Enclosure

Comprises 1 x 4 man living chamber and 1 x man dedicated medical bunk. Life support services typical within the living chambers. The TUP joins the living chamber and provides sanitary services.

HRF 01 TECHNICAL SPECIFICATIONS

(c) Hyperbaric Rescue Chamber (HRC)

Hyperbaric Rescue is an IMCA compliant rescue chamber with a dedicated launch and recovery system and hydraulic support. The HRC is capable of supporting (13) men and has appropriate gas, communications and an environmental management system to support the occupants for a minimum of (72) hours. The HRC connects to the complex via a spool / clamp and interlock.

(d) Life Support Machinery Container

Machinery container contains the following life support equipment:

- a. 2 x Potable hot water units
- b. 2 x 4 ton ECU units each providing cooling & heating
- c. 1 x 2 ton ECU unit providing cooling for the TUP
- d. 2 Comanex regen systems controlling the cooling and CO2 scrubbing
- e. Primary and emergency electrical switchboard

(e) Saturation System Dive Control Enclosure

The enclosure is split into (2) compartments, (a) for LSS functions (b) Stores container

LSS Compartment – contains the incoming gas distribution panel supplying the gas management panels for each of the chamber compartments and interconnecting spools. Local electrical distribution boxes and back up 24 volt supplies. Analox chamber monitoring system with DDC communication. This compartment has normal and emergency lighting systems.

Dedicated Self Contained Breathing Apparatus are provided for the Life Support Technician and Diving Supervisor. The air is supplied from a 50 liter bottle stored outside the control van.

HRF 01 TECHNICAL SPECIFICATIONS

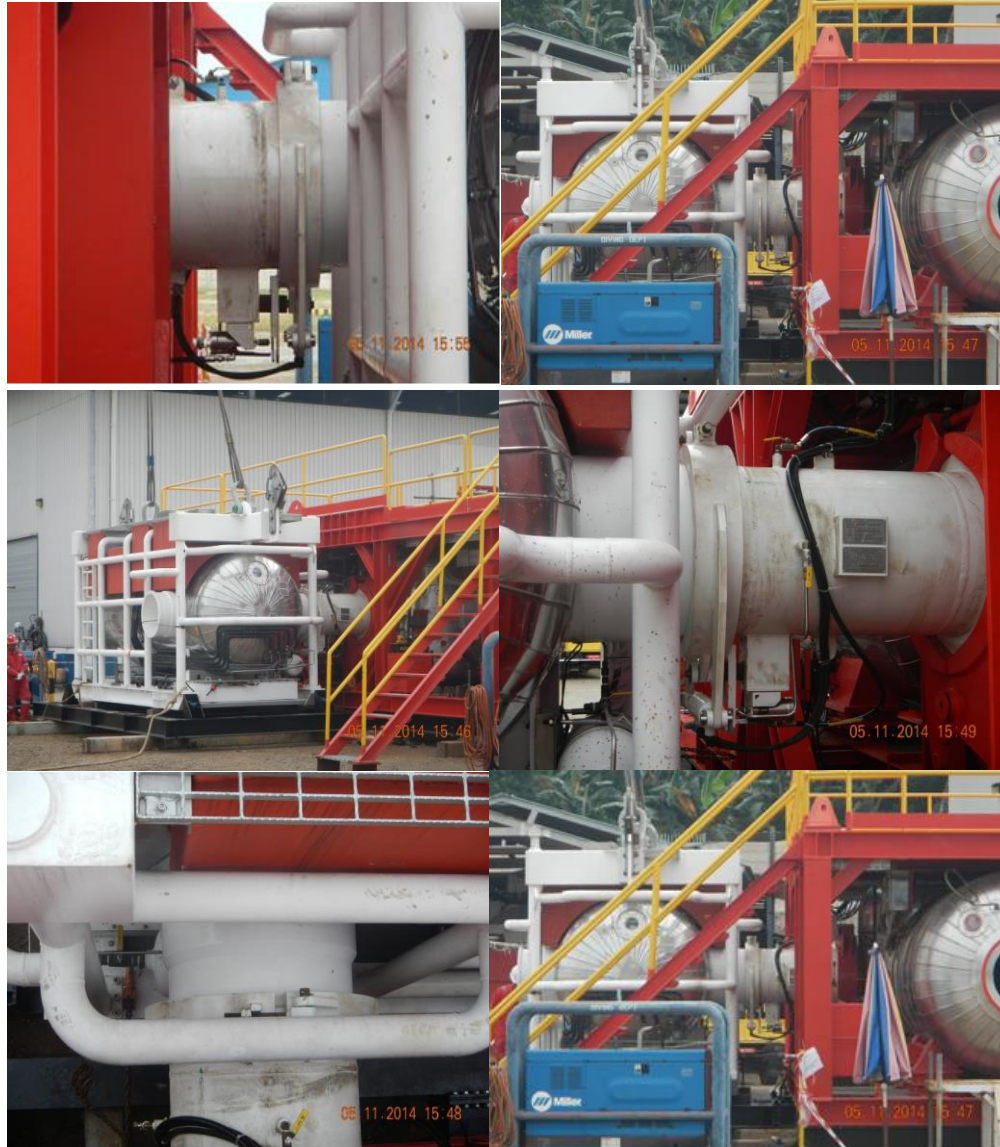
Supplies / Interfaces

Main Power	400 KVA	440 V – 50 / 60 Hz
Emergency Power	250 KVA	440 V – 50 / 60 Hz
Salt water - cooling	20 m ³ / hr	5 Bar delivery pressure
Potable water	2 m ³ / hr	4 Bar delivery pressure
Gas supplies	O2 & HEO2	Per IMCA
Communications	VHF	Crane, deck, vessel
CCTV	Coax cable	Med Lock ,Deck and HRC Mating
Alarms	Hard wire	General

Component Weights and Dimensions

Item	Weight (kg)	Dimensions (m) (L x W x H).
DDC 1/ TUP Enclosure	42, 000	14 m x 3.5 m x 3.5 m
DDC 2 / EL Enclosure	20, 000	11 m x 3.5 m x 3.5 m
HRC skid	2, 000	3.4 m x 6 m x 5 m
Dive control enclosure	8,000	6 m x 2.4 m x 2.4 m
Machinery enclosure	18, 000	6 m x 2.4 m x 3.5 m
Total	90, 000	

HRF 01 TECHNICAL SPECIFICATIONS



HRC Mating Trials and pressure testing to HRF 01

HRF 01 TECHNICAL SPECIFICATIONS

