











IMCA STANDARD STAND ALONE 60" DIVING DECOMPRESSION CHAMBER



Sr.	Description	Qty
1	Diving Decompression Chamber 60"/1500mm diameter, Twin Lock	1
	(Entry/main Lock, automatic medical lock), gloss paint finish, fire retardent	
2	Chamber control panel	1
3	Self operational stand alone unit, fully functional to IMCA standards	















CHAMBER ENTRY LOCK WITH ALL FITOUT AS BELOW





Sr.	Part Number	Description	Qty
1	SY-SP-V	Viewport	1
2	SY-350M-01	Amron avox hyperbaric bibs, dual hose ,350 msw rated	2
3	SY-7140-01	Amron led hyperbaric light unit	1
4	SY-3114	Amron internal talk back speaker	1
5	SY-CG-230	Internal caisson gauge, 0-230 fsw	1
6	SY-SPT-550RC	Sound powered phone	1
7		Stainless Steel foldable seats	2
8		Aluminum checkered floor plate	1
9		Drain valve connected with flexible hoses for flushing	1
10		All valves and fittings as required	















CHAMBER MAIN LOCK WITH ALL FITOUT AS BELOW























CHAMBER MAIN LOCK WITH ALL FITOUT AS BELOW



Sr.	Part Number	Description	Qty
1	SY-SP-V	Viewport	2
2	SY-SP-VSY-240-FE	Amron Hyperbaric fire extinguisher	1
3	SY-CO2-SCR	Synergy Co2 scrubber unit, 12v, stainless steel	1
4	SY-350M-01	Amron avox hyperbaric bibs, dual hose , 350 msw rated	4
5	SY-7140-01	Amron led hyperbaric light unit	2
6	SY-3114	Amron talk back speaker	1
7	SY-CG-230	Internal caisson gauge, 0-230 fsw	1
8	SY-SPT-550RC	Dynalec sound powered phone	1
9	SY-UWC-325/P/E	Internal hyperbaric camera with view of main lock connected to monitor on chamber panel	1
10	SY-EP-4C	Electrical penetrator for camera, lights, scrubber and speaker	2
11	SY-HYG	Hygrometer	1
12	SY-FRM	Hyperbaric fire retardant mattress (one for each bed)	2
13	SY-FRP	Fire retardant pillows (one for each bed)	2
14		Stainless Steel foldable beds	2
15		Aluminium checkered floor plate	1
16		Drain valve connected with flexible hoses for flushing	1
17		All valves and fittings as required	
18		Air – all tubing will be stainless steel with brass fittings	
19		Oxygen- all tubing will be tungum with brass fittings and O2 approved Teflon tape	















CHAMBER MEDICAL LOCK - STAINLESS STEEL WITH AUTOMATIC INTERLOCK







Sr.	Description	Qty
1	External Medical lock, stainless steel with easy to use handle (for open/ close)	1
2	Internal medical lock door, stainless steel	1
3	Automatic interlock (will lock external door under pressure) (door cannot be opened when interlock is	1
	engaged)	
4	Equilization valve	1
5	Pressure gauge with valve (to show pressure inside medical lock)	1
6	Silencer	1



Sr. Description





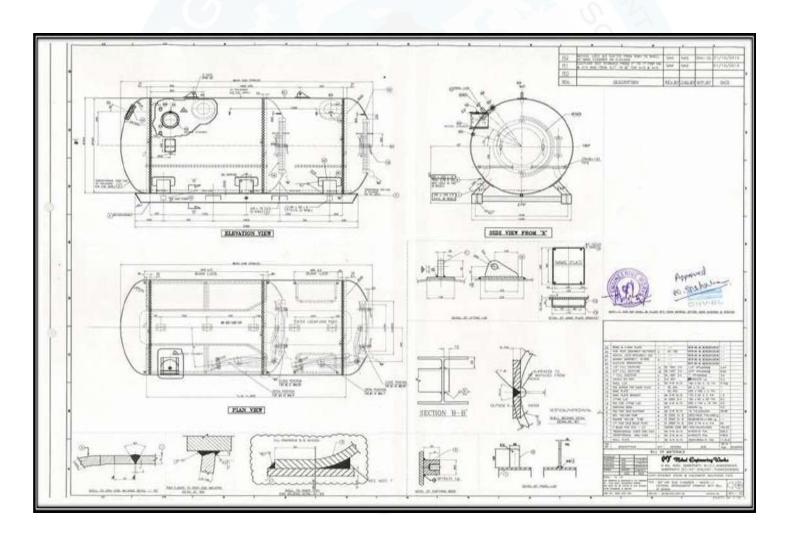






CHAMBER SHELL - DESIGN & AS BUILT STANDARDS

1	Dnv approved as built drawings
2	Pneumatic test witnessed / stamped by Dnv
3	Hydrostatic test witnessed / stamped by Dnv
4	Design code ASME SEC VIII DIV 1 - PVHO
5	Data plate stamped by Dnv / stamp on chamber lip along with serial number for identification
6	Dimensions of the DDC: (LXWXH) – 3796mm X 1500mm X 1687mm
7	Overall height including lifting eyes - 1798mm
8	Overall width including control panel – 1500mm
9	Material boiler steel working pressure – Shell – SA 516 GR.70 / Skid IS2062 GR.B
10	Test pressure – Hydro – 14.25 KGF / Pneumo – 10.25 KGF
11	Design Pressure – Internal – 9.5 KGF
12	Design Code – ASME SEC. VIII DIV-1, 2007 ADD 08 + ASME PVHO-1,2002



















CHAMBER CONTROL PANEL - INCLUDING HP MANAGEMENT PANEL



















CHAMBER CONTROL PANEL - INCLUDING HP MANAGEMENT PANEL

0-230 fsw/70 msw Depth gauge, 6", 0.25 % accuracy, mirror scale, with calibration point, Entry lock, Color coded

1 x 0-230 fsw/70 msw Depth gauge, 6", 0.25 % accuracy, mirror scale, with calibration point, Main lock, Color coded

1 x 0-70 fsw/21 msw Depth gauge, 8.5", 0.25 % accuracy, mirror scale, with calibration point, Therapeutic, Color coded Black 🕝

Sr.	Part Number	Description	Qty
1	SY-PRO-O2	Oxygen analyzer (O2) with high low alarm connected with a Dwyer VFA 23 BV flow meter to	1
		chamber (can read from both entry and main lock by opening valve as required)	
2	SY-PRO-CO2	Carbon dioxide analyzer (CO2) with high alarm connected with a Dwyer VFA 23 BV flow	1
		meter to chamber (can read from both entry and main lock by opening valve as required)	
3	SY-PRO-O2	Ambient atmosphere oxygen analyzer (for reading ambient container atmosphere oxygen	1
		level)	
4	SY-PG-O2-2.5-500	Gauge for oxygen supply to chamber (oxygen approved gauge)	1
5	SY-PG-A-2.5-500	Gauge for low Pressure air supply to chamber	1
6	SY-2820A-02	Chamber communicator, Amron (with push to talk microphone)	1
7	SY-873-400	Option 1 Aqua environment high pressure regulator w/gauges	1
8	SY-44-1315-2081-0	ጋ ወ ፮tion 2 tescom high pressure regulator	1
9	SY-SPT-550RC	Dynalec sound powered phone (connected to entrance/main lock spt)	1
10	SY-MON-15.5-TFT	15.5" waterproof TFT monitor (connected to main lock hyperbaric camera)	1
11	SY-MIDV-32GB	Mini DVR recorder unit with 32GB SD card and card reader/usb adapter	1
12	SY-DIVMKII-COM	Interspiro Full face breathing air mask, communications, 10 mtr of communication cable	1
		with end fitting (one end to BA comms/other to chamber comms)	
13	SYTRAN220/24/12	Transformer (2 x 24v, 2 x 12v, switch for emergency battery power)	1











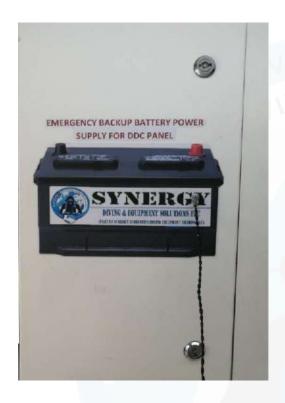






EMERGENCY BACK UP POWER FOR RUNNING CHAMBER COMMS, LIGHTS, ANALYSERS, SCRUBBERS

Sr.	Description	Qty
1	Enclosed rubber lined box for maintenance free battery (12 v, 80 amps)	1
2	Battery charger for emergency battery	2
3	12v, 75 ah, maintenance free car battery (emergency power)	1























BUREAU VERITAS CLASS CERTIFICATE PROVIDED WITH EACH DDC



Industry & Facilities Division Third Party Inspection Report

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INSPECTION REPORT: 007		Revision Nr -
☐ Initial ☐ Interim ☑ Final ☐ Resident		
Inspection requested by Synergy Diving Equipment Solutions	FZC	1,5
	Yes	⊠ No
BV Job Nr DBA.4.18.906		
Project: Third Party Inspection Service	IPO Ref (if applicable):Na (BV internal Pio)	Ĭ.
BV Client: Synergy Diving Equipment Solutions FZC	Pionr: Na (chent to BV)	
Manufacturer/Vendor: Mukai Engineering Werks	Pio nr: Na (client to Manufacturer)	
Sub-Vendor (If applicable):		
Inspection Location: Synergy Diving Equipment Solutions. FZC(location – Dubai warehouse)	Previous Inspection . 25	01.2018
Inspection performed on: 04.10.2018 (Dato(s))	Next Inspection (# applic	sble): Tb a.

Visual, Dimension, Marking; MATERIAL / SUBJECT OF INSPECTION Refer to attachment section J Instead (Instead of separate material for is provided in attachment)	ITEM / TAG Nr	QTY As par P/O	Officed for inspection
Witness Preumatic over pressure Test of 80°Diving Decompression Chamber to 149.34 ps	Serial No- MEW/407/ADC		۵f

Satisfactory (Without comments)	Satisfactory with comments (Any of trailing Punch or Non Conformity items is still open)	Not Satisfactory (NCR raised during the inspection)
Inspection Surr		
V/electios.com	Chamber as per Anexicare 1 & found	satisfactory
Open Non Conformities:	Chamber as per Anexicure 1 & found	satisfactory

GM-S1-101 IVSP002-En Version 5.0

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INSPECTION REPORT Nr:006 Revision Nr-0



4-54-fot MSP002-Er. Version 5.0.

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Title	Reference n*	Rev.	Approval status	Approved by	Date
Diving Equipment System Inspection Guidence	IMCA D023	9		Synorgy	January 2014
Preumatic Procedure	SSEL/QMS/M-01	12		Synergy	03.05.2016

Name	Position	Representing	
Mr. Rolly Legsspi	Technical Manager	Synergy	
Mr. Raymond	QC.	Synergy	
Mr. Sudishta Kumar YADAV	Surveyor	Bureau Veritas	

Equipment Type	Equipment Identity n°	Last Calibration Date	Expiry Date
Pressure Gauge	AC 3534704	08.01.2018	07.01.2019
Digital Pressure Indicator	044463	16,08,2018	15:08.2019
Description of the inspectio			

Details of inspection activities carried out with reference to ITP (Each activity slaborate

Visual Inspection of piping on Diving Decompression Chamber and found Satisfactory.

Verify senal No. MEW4407ADC of Diving Decompression Chamber.

Witness Phelimetic over pressure test of Diving Decompression Chamber as per Anexitire-1.6

found satisfactory

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INSPECTION REPORT Nr:006 Revision Nr-0

ASME Sec VIII DIV-1 PVHO India Mutw Engineering Works MEW/407/ADC 155-12 ps / 55 highling amig) 149:34 cet 10.5 kg/ling amig) 449:34 cet 10.5 kg/ling amig) 4.10.2018 500°C Design Code
Country of Origin
Manufacturer
Manufacture Serial
Design Pressure
Prosumatic over pressur
Profumett Test Date
Max Temperature
Radiography
Contained Serial No
Viewport Serial No

Pneumatic Test.

- Procumptic overpressure test of Drving Decompression Chamber(Serial No-MEW/407/ADC) has been witness as per the approved standard, and found the following

- Test pressure gange collitation certificate was review, and found satisfactory.
 The chamber was pressure tested to 149.57 pai 10.33 kgf/sq emg.) for 30 minutes and found as softactory.
 Stops solution leak test was performed on chamber piping, fittings and viewports, no leak found, result entiticatory.

BUREAU VERITAS S.A. DUBAI BRANCH, a legal entity organized and existing under the laws of the United Arab Emirates under Covernment of Dubai Professional License no. 102356; with its registered office at The Diser Genier, Robon 211, 2nd of December 52, Salwe, P.O. Sox 9110. Dubai UAE (incrementer referred to as "BV DXB"), represented by Nicolas Milane, in his capacity as Country Child Executive.















ORDERING INFORMATION

Sr.	Part Number	Description
1	SY-DDC-D023	STAND ALONG DIVING DECOMPRESSION CHAMBER, FULLY PLUMBED
		INCLUDING PIPING AND ELECTRICALS, READY FOR INSTALLATION ON BOARD
		VESSELS, CONTAINERS OR PURPOSE MADE HOUSINGS

BESPOKE DESIGNS - ANY CONFIGURATION AS PER CLIENT REQUIREMENT

















IMCA STANDARD STAND ALONE 60" DIVING DECOMPRESSION CHAMBER

Contact us

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