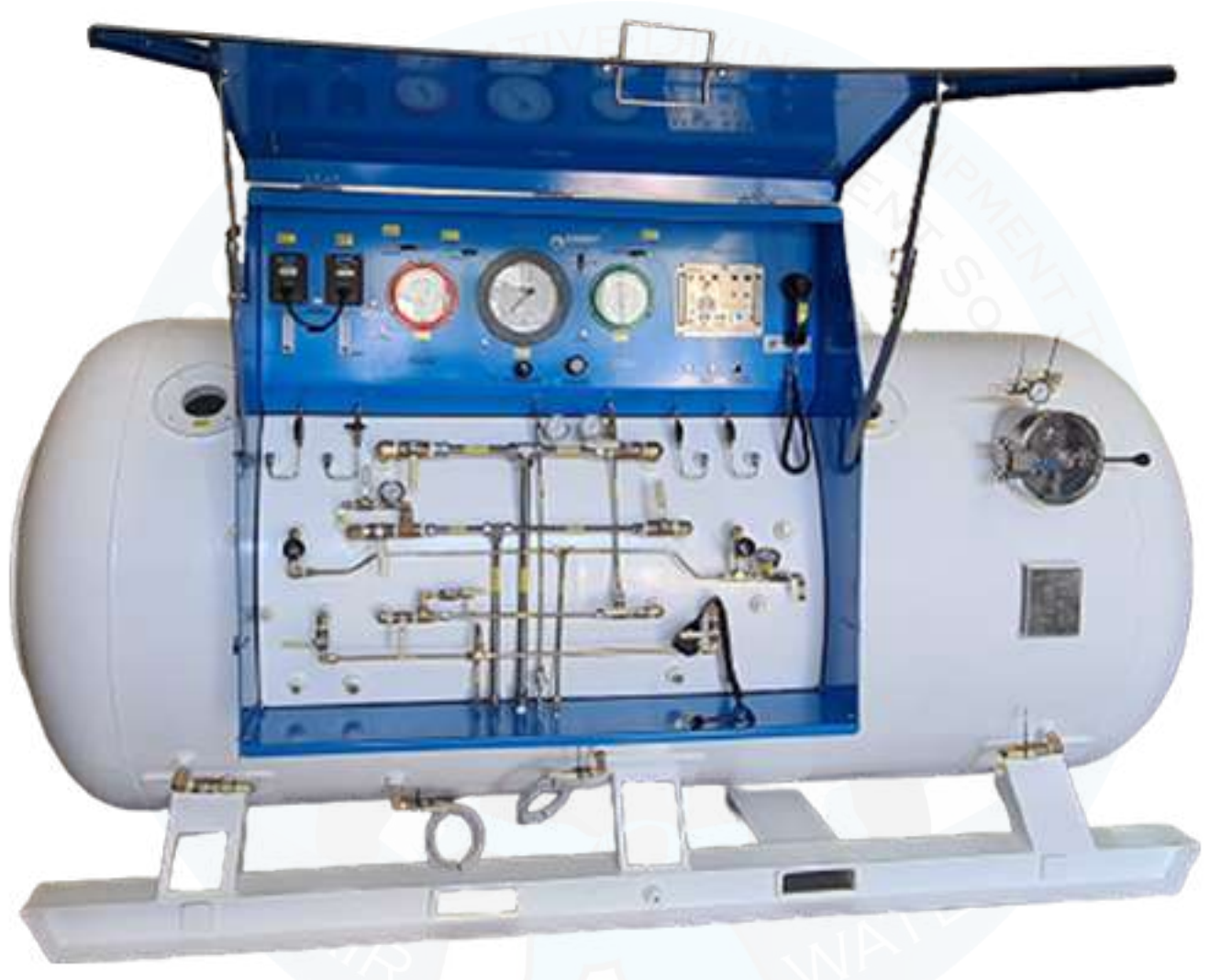


IMCA STANDARD STAND ALONE 60" DIVING DECOMPRESSION CHAMBER



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

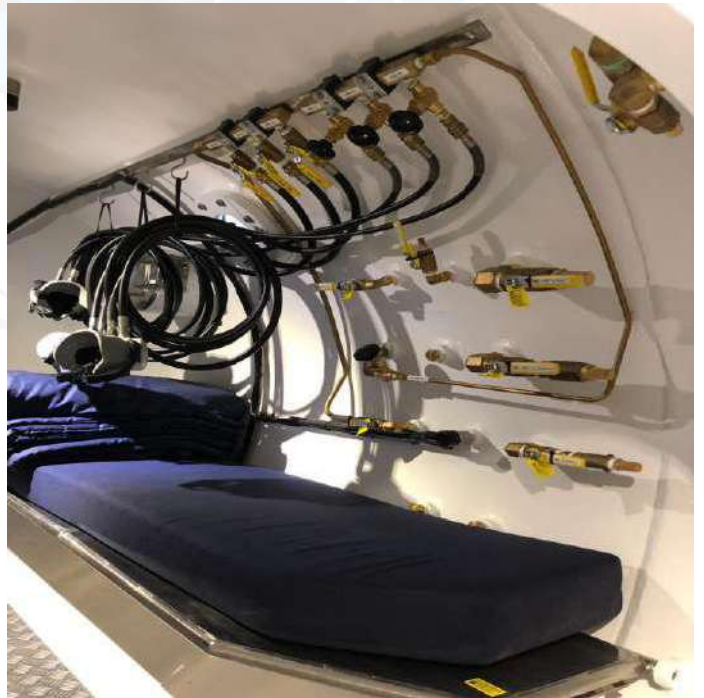


CHAMBER ENTRY LOCK WITH ALL FITOUT AS BELOW



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 engaged)	1
4	Equilization valve	1
5	Pressure gauge with valve (to show pressure inside medical lock)	1
6	Silencer	1


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
Red 

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

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 chamber (can read from both entry and main lock by opening valve as required)	1
2	SY-PRO-CO2	Carbon dioxide analyzer (CO2) with high alarm connected with a Dwyer VFA 23 BV flow meter to chamber (can read from both entry and main lock by opening valve as required)	1
3	SY-PRO-O2	Ambient atmosphere oxygen analyzer (for reading ambient container atmosphere oxygen level)	1
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-44-1315-2081-005	Option 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 with end fitting (one end to BA comms/other to chamber comms)	1
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-0

Initial Inform Final Resident
Inspection requested by: Synergy Diving Equipment Solutions FZC
Inspection performed as Recognised Authority: Yes No
BV Job No: DBA.4.18.006

Project: Third Party Inspection Service
BV Client: Synergy Diving Equipment Solutions FZC
Manufacturer/Vendor: Mukal Engineering Works
Sub-Vendor (if applicable):
Inspection Location: Synergy Diving Equipment Solutions FZC (location - Dubai warehouse)
Inspection performed on: 04.10.2018
Next inspection (if applicable): Tba.

(Visual, Dimension, Marking) MATERIAL / SUBJECT OF INSPECTION	ITEM / TAG Nr	QTY As per P/O	QTY Offered for inspection
Witness Pneumatic over pressure Test of 50° Diving Decompression Chamber to 149.54 ps	Serial No- MEW407ADC		01

A - INSPECTION RESULT

Satisfactory (Without comments) Satisfactory with comments (Any of trailing Planch or Non Conformity items is still open) Not Satisfactory (NCR raised during the inspection)

Inspection Summary: 1. Witnessed Pneumatic over pressure test of Diving Decompression Chamber as per Annexure 1 & found satisfactory.

Open Non Conformities: Yes, details in section G No
Open Punch List items: Yes, details in section H No
Release Note issued: Yes, number(s): No

BV Stamping: Yes, No

Industry & Facilities Division
Third Party Inspection Report
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INSPECTION REPORT Nr:006
Revision Nr-0

On behalf of Bureau Veritas
BV Inspector: S.K. Yadav
(Name and Signature)
S.K. Yadav

On behalf of Bureau Veritas
BV Coordinator: (Name and Signature)
Imiyaz Patel

BV Office: Dubai
Inspection Report Date: 08.10.2018

Distribution: CLIENT BV MANUFACTURER OTHER: ...
Attachments Report: Yes, details in section J No

B - REFERENCE DOCUMENTATION: Refer to attachment section J instead (indicate if separate document list is provided in attachment)

Title	Reference n°	Rev.	Approval status	Approved by	Date
Diving Equipment System Inspection Guideline	IMCA D023	1		Synergy	January 2014
Pneumatic Procedure	SSELIQMSM401	2		Synergy	03.05.2016

C - ATTENDEES

Name	Position	Representing
Mr. Rohit Lodhgi	Technical Manager	Synergy
Mr. Raymond	QC	Synergy
Mr. Sudhika Kumar YADAV	Supervisor	Bureau Veritas

D - MEASURING & TESTING EQUIPMENT USED Refer to attachment section J instead (indicate if separate equipment list is provided in attachment)

Equipment Type	Equipment Identity n°	Last Calibration Date	Expiry Date
Pressure Gauge	AC 3334764	08.01.2018	01.01.2019
Digital Pressure Indicator	344663	18.08.2018	15.08.2019

E - INSPECTION DETAILS

Description of the inspections carried out:

- Manufacturing Progress Status: No
- Details of inspection activities carried out with reference to ITP (Each activity elaborated in detail):
 - Visual inspection of piping on Diving Decompression Chamber and found Satisfactory.
 - Verify serial No- MEW407ADC of Diving Decompression Chamber.
 - Witness Pneumatic over pressure test of Diving Decompression Chamber as per Annexure-1 & found satisfactory.

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I - DIGITAL PICTURES

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INSPECTION REPORT Nr:006
Revision Nr-0

Design Code: ASME Sec VIII Div-1 FM-10
Country of Origin: India
Manufacturer: Mukal Engineering Works
Manufacture Serial: MEW407ADC
Design Pressure: 135.12 psi (9.5 kgf/cm²)
Pneumatic over pressure Test: 149.54 psi (10.5 kgf/cm²)
Pneumatic Test Date: 04.10.2018
Max Temperature: +50° C
Radiography: +100%
Combiner Serial No: CSU0021730
Viewport Serial No: 33210,33211 & 33212

Pneumatic Test:

- Pneumatic overpressure test of Diving Decompression Chamber (Serial No-MEW407ADC) has been witness as per the approved standard, and found the following:
 - Test pressure gauge calibration certificate was review, and found satisfactory.
 - The chamber was pressure tested to 149.57 psi (10.21 kgf/cm²) for 30 minutes and found as satisfactory.
 - Soap solution leak test was performed on chamber piping, fittings and viewports, no leak found, result satisfactory.

END OF REPORT

BUREAU VERITAS S.A. DUBAI BRANCH, a legal entity organized and existing under the laws of the United Arab Emirates under Government of Dubai Professional License no. 322306, with its registered office at The Dune Centre, Room 211, 2nd of December St., Satwa, P.O. Box 9110, Dubai, UAE (hereinafter referred to as "BV DXB"), represented by Nicolas Milano, in his capacity as Country Chief 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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Al Qusais, Industrial Area – 1,
Dubai, United Arab Emirates

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-  Fax : 042516664 
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-  UK : 00447951966260 

-  Website : www.synergiequipment.com
-  Email : ram@synergiequipment.com
-  For Sale : info@synergiequipment.com

