



SYNERGY

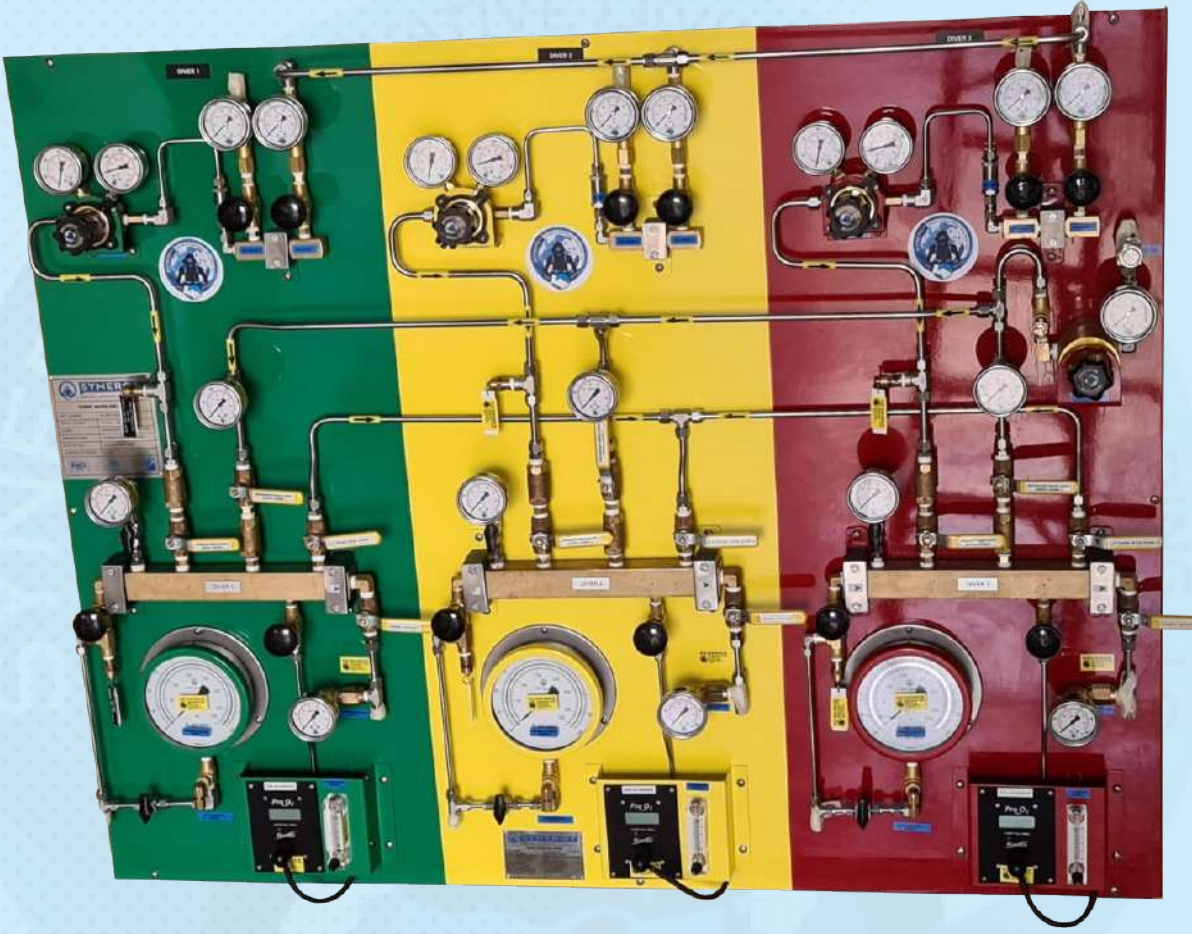
INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE • UK • INDIA • AZERBAIJAN



THREE DIVER D023 AIR PANEL, OPEN PLUMBING AND CONTROLS, FRAME MOUNTED SY-3DAPD023-F



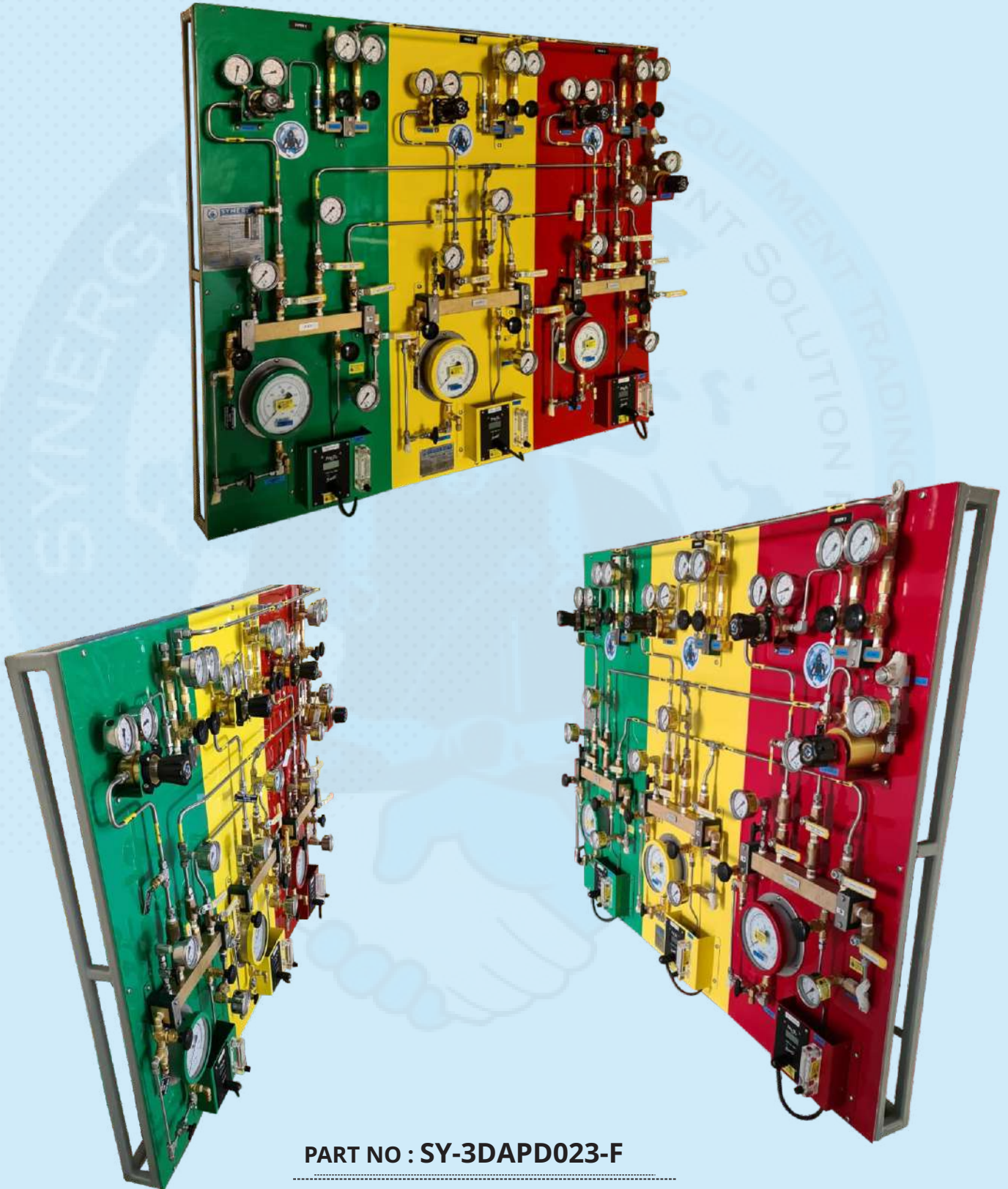
PART NO : SY-3DAPD023-F



IMCA D023	DESIGN for Surface Oriented (Air) Diving Systems
IMCA D018	Code of Practice for The Initial and Periodic Examination, Testing and Certification of Diving Plant and Equipment



THREE DIVER D023 AIR PANEL, OPEN PLUMBING AND CONTROLS, FRAME MOUNTED SY-3DAPD023-F



PART NO : SY-3DAPD023-F

THREE DIVER D023 AIR PANEL, OPEN PLUMBING AND CONTROLS, FRAME MOUNTED SY-3DAPD023-F

Sr.	Description
1	Diver 1 Green / Diver 2 Yellow / Diver 3 Red powder coated marine grade aluminum non rust fascia
2	All lines with each valve/fitting/regulator clearly marked
3	DP alarm to connect to bridge with mute button (optional)

Design criteria for dive panel

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



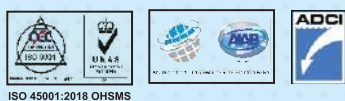
1 x 0-230 fsw/70 msw Depth gauge, 6", 0.25 % accuracy, mirror scale, with calibration point , Diver 2, Color coded **Yellow**



1 x 0-230 fsw/70 msw Depth gauge, 6", 0.25 % accuracy, mirror scale, with calibration point , Diver 3, Color coded **Red**



Sr.	Part Number	Description	Qty
1	SY-PRO O2	Oxygen analyzers with high low alarm (one per diver)	3
2	SY-VFA-BV-23	Flowmeters (per analyzer)	3
3	SY-873-400	Option 1 Aqua Environment high pressure Regulator w/gauges	4
4	SY-44-1315-2081-005	Option 2 Tescom high pressure regulator	4
5	SY-FLR-DS	Flow Restrictor (one per diver)	3
6	SY-DIVMKII-COM (Optional)	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
7	SY-UPS-DP (Optional)	Emergency power back – UPS for video systems	1
8	SY-PG-A-2.5-5000	High pressure gauges (incoming air supply) 0-5000 psi (Hp1)	3
9	SY-PG-A-2.5-5000	High pressure gauges (incoming air supply) 0-5000 psi (Hp2)	3
10	SY-PG-A-2.5-500	Low pressure gauge (regulated air supply) 0-500 psi	3
11	SY-PG-A-2.5-500	Low pressure gauge (common low pressure supply) 0-500 psi	3
12	SY-PG-A-2.5-500	Low pressure gauge (downstream for umbilical supply pressure)	3



THREE DIVER D023 AIR PANEL, OPEN PLUMBING AND CONTROLS, FRAME MOUNTED SY-3DAPD023-F

13	All air supply lines (inlet and outlet) are color coded per diver
14	Pressure gauges
15	Diver 1 - Independent high pressure line Diver 2 - Independent high pressure line Diver 3 - Independent high pressure line
16	Diver 1 - Common high pressure line Diver 2 - Common high pressure line Diver 3 - Common high pressure line
17	Diver 1 - Common low pressure line Diver 2 - Common low pressure line Diver 3 - Common low pressure line
18	All tubing used will be stainless steel high pressure
19	All valves for incoming air supplies will be brass , high pressure
20	All valves for regulated supplies will be brass, high pressure

DIVE PANEL COMMUNICATION (Sold Separately)

Sr.	Part Number	Description	Qty
1	2830A-11	Amron 3 diver radio with ac/dc power	2
2	2405-28	Push to talk microphone	2

DIVE PANEL DIVER CCTV SYSTEMS (Sold Separately)

Sr.	Part Number	Description	Qty
1	SY-DIVERVISION SERIES	Diver 1/Diver 2 / Diver 3 , surface control unit, Synergy/Outland Technology	3
2	SY-MON-15.5-TFT	Diver 1/Diver 2 / Diver 3 , 15.5"waterproof TFT monitor	1
3	SY-DVR-1TB-HD	Primary Recorder, 1 TB hard drive (simultaneous recording of all diver)	1
4	SY-DVR-1TB-HD	Backup recorder (black box) 1 TB hard drive (simultaneous recording of all dives) , USB out for recording to USB sticks, HDMI out for mirror image to be displayed remotely via HDMI cables	1

AMRON INTERNATIONAL - MASTER DISTRIBUTOR

SY-2830A-11 AMCOM III Three-Diver Rechargeable Portable Communicator with Outdoor AC Power Module and International Locking Power Cord



NEWLY DESIGNED ENHANCEMENTS:

High Audio Fidelity

Ultra-low noise circuit combined with noise suppression circuitry produces crystal clear speech. Automatic gain adjustment will guard audio signal from distortion, enhance speaker protection and audio quality. Increases band width 47%.

Extended Battery Operation Time

Audio amplifier card deploys the state-of-the-art Class-D digital audio power amplifier. Has very low power dissipation, produces less heat, and extends battery life up to 32%.

Flexible Gain Settings

The audio amplifier card has adjustable gain settings to accommodate different communication applications and environments.

Ultra-Low Electromagnetic Interference (EMI)

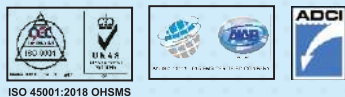
EMI is achieved through spread-spectrum and de-phase control techniques providing for optimum integration with diving systems.

Outdoor Rated AC Power Module

Weather resistant, IP65 rated AC power entry module accommodates country specific AC power cords.

Country Specific V-Lock AC Power Cord

At time of order, simply choose the IP54 rated Locking AC power cord you need.



AMRON INTERNATIONAL - MASTER DISTRIBUTOR

FEATURES:

- Separate channels and volume controls for each diver and tender to accommodate individual earphone and microphone adjustments, equipment variations and individual comfort levels.
- Divers' umbilicals can be set to 4-wire mode (full duplex) or 2-wire mode (push-to-talk) or any combination of the two modes for any diver.
- Ability to use both dynamic and pre-amplified diver microphones with a unique circuit that detects microphone type and automatically adjusts volume levels.
- Weatherproof push-to-talk microphone for better voice intelligibility topside. For optimum clarity, see Tech Note (below) for other recommended equipment.
- Internal charger allows for simultaneous charging and operation of the unit while protecting the rechargeable battery from being over-charged. Automatically supplies power to the audio amplifier when AC power is disconnected to allow for continued operation.

SPECIFICATIONS:

- Input Impedance (Each Input): 250 Ohms
- Frequency Response: 300 - 10000 Hz
- Common Mode Rejection: 40 dB Minimum
- Current Drain Maximum Full Volume: 3 Amps
- Minimum Quiescent: 0.190 Amps
- Output Impedance: 4 Ohm
- Power Supply Voltage: 12 VDC Nominal (9 Volts Minimum - 16 Volts Maximum)
- AC Power Operating Range: 90-264 VAC, 50-60 Hz
- Sensitivity (Input): 5 mV
- Output Power (RMS @ 4 Ohm Load, 12 VDC): 10 Watts Audio
- Battery Life: 41 hours
- Dimensions: 10 in. H x 9 in. W x 14.5 in. L (25.4 cm x 22.9 cm x 36.8 cm)
- Weight: 17.05 Lbs. (7.73 Kg)

INCLUDED WITH COMMUNICATOR:

AMCOM™ III 2830A-11 Three-Diver Portable Communicator with AC Power, Internal Charger and Rechargeable

Battery includes:

- (1) SY-2405-28 Amron Hand-Held Push-to-Talk Microphone
- (1) SY-2890-05 Amron 12 VDC Sealed Lead Acid Gel-Cell Rechargeable Battery with Slide terminals
- (1) SY-283XA-UM Amron Three-Diver Portable Communicator User Manual

AVAILABLE OPTIONS:

- SY-2460SM-28 Amron Single Muff Operator Headset with Boom Mic and Dual Banana Plugs
- SY-2401-28 Amron Deluxe Headset with Boom Mic
- SY-2822-28 Amron Remote Walk-and-Talk (4-wire mode)
- SY-2821-28 Amron Remote Walk-and-Talk (2-wire mode)

POWER CORD 6.5 FT. OPTIONS:

TECH NOTE:

All communicators will inherently transfer topside noise to the divers when the tender speaks directly into the communicator's panel speaker. To eliminate background noise at the surface, use the 2405-28 Push-to-Talk Microphone, included with this model. For optimum communications, we recommend purchasing the 2401-28 Deluxe Headset with Boom Mic, topside. For tender mobility, use the 2401-28 Deluxe Headset with Boom Mic along with the 2822-28 Remote Walk-and-Talk (4-wire mode) or the 2821-28 Remote Walk-and-Talk (2-wire mode). For wireless tender communications, order the 2830A-03 Three-Diver Deluxe Portable Communicator with Wireless Tender.

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DIVER-VISION 1D



DIVER-VISION 1D-R



DIVER-VISION 2D



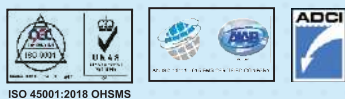
DIVER-VISION 2D-R



DIVER-VISION 3D



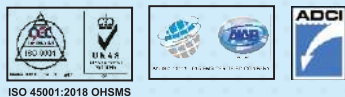
DIVER-VISION 3D-R



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SPECIFICATIONS	DIVER-VISION	DIVER-VISION	DIVER-VISION	DIVER-VISION	DIVER-VISION	DIVER-VISION
	1D	1D-R	2D	2D-R	3D	3D-R
Surface control unit for video and light	1	1	2	2	3	3
Monitor	1	1	1	1	1	1
Remote	1	1	1	1	1	1
Splitter	-	-	4WAY	4 WAY	4 WAY	4 WAY
1 TB primary recorder	1	1	1	1	1	1
1 tb backup recorder	1	1	1	1	1	1
Amron radio	-	2 DIVER 2820A-11	-	2 DIVER 2820A-11	-	3 DIVER 2830A-11
Flexible keyboard	1	1	2	2	3	3
Uwc-325/p/e camera	1	1	2	2	3	3
Uwl-401 led light	1	1	2	2	3	3
Video cable with end fittings for camera/light	100 MTR/ OR 150 MTR	100 MTR OR 150 MTR	100 MTR OR 150 MTR PER DIVER	100 MTR OR 150 MTR PER DIVER	100 MTR OR 150 MTR PER DIVER	100 MTR OR 150 MTR PER DIVER
Usb out port	1	1	2	2	3	3
Hdmi out port	1	1	2	2	3	3
Pelican box	1550	1600	1550	1600	1600	1600
Maximum Weight	10kg	14kg	14kg	18kg	30kg	34kg



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CERTIFICATES PROVIDED WITH EACH THREE DIVER AIR PANEL

Diving panel	Bureau Veritas
Imca	D018 / D023
Class	Bureau Veritas pressure test witness for entire system
Fmea	As built by Synergy
Fmea stamped by class	As built by Synergy and reviewed by Class (optional)
Warranty	One year synergy manufacturing warranty

Industry & Facilities Division
Third Party Inspection Report
Page 1 of 6

Revision No: 1

INSPECTION REPORT No: DA. 420243R-01

Inspector: M/S Synergy Diving & Equipment Solutions FZC (Dubai, UAE)

Client: M/S Synergy Diving & Equipment Solutions FZC (Dubai, UAE)

Project: Three Diver Inspection Services

PO Ref: (If applicable): (N/A)

PO to: (If applicable): (N/A)

PO from: (If applicable): (N/A)

Inspection Location: (If applicable): (N/A)

Inspection Date: (If applicable): (N/A)

Inspection Period: (If applicable): (N/A)

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INSPECTION SUBJECT OF INSPECTION

Item / Tag No. QTY. As per PO QTY. Offered For Inspection

Item: Three Diver Air Panel

QTY: 1

Offered For Inspection: 1

A - INSPECTION RESULT

Satisfactory (Please comment) Satisfactory with comments (Please specify) Not Satisfactory (Please comment)

Inspection Summary: (If applicable)

Open Non-Conformities: (If applicable)

Closed Non-Conformities: (If applicable)

Inspector: M/S Synergy Diving & Equipment Solutions FZC (Dubai, UAE)

Inspector Signature: (Signature)

Inspector Date: (Date)

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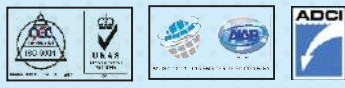
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Inspector Signature: (Signature)

Inspector Date: (Date)

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ORDERING INFORMATION

Sr.	Part Number	Part Number
1	SY-3DAPD023-F	THREE DIVER AIR PANEL, OUTFITTED WITH ALL CONTROLS IN FRONT COMPLIANT TO IMCA D023 AND WITH CLASS TEST CERTIFICATE
2	SY-2830A/11	AMRON THREE DIVER AIR RADIO WITH AC DC POWER SUPPLY (SOLD SEPERATELY)
3	SY-DIVER VISION	SYNERGY OUTLAND DIVER VIDEO SYSTEMS (DIVER 1/DIVER 2/DIVER 3) (SOLD SEPERATELY)

BESPOKE DESIGNS – ANY CONFIGURATION AS PER CLIENT REQUIREMENT



SYNERGY INFRASTRUCTURE





SYNERGY

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THREE DIVER D023 AIR PANEL, OPEN PLUMBING AND CONTROLS, FRAME MOUNTED SY-3DAPD023-F

Contact us

 P.O. Box – 237849, Warehouse No 8, Al Maidoor Warehouse, Al Qusais, Industrial Area - Dubai - UAE

-  Tel : 009714 2580533 
-  Fax : 009714 2580534 
-  UAE : 00971505648178 
-  UK : 00447951966260 

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

