

Designed for extreme environments and heavy loads, Zodiac Milpro[™] Heavy Duty inflatable boats are foldable, easy to store and transport.

They can carry payloads up to 4 tons with excellent maneuverability and speed, whether they transport passengers or equipment.

The Zodiac Milpro HD Cruising variant has been further adapted to the needs of ecotourism, whale watching and cruise companies with modifications to enhance passenger comfort and easy launch and recovery from cruise liners.



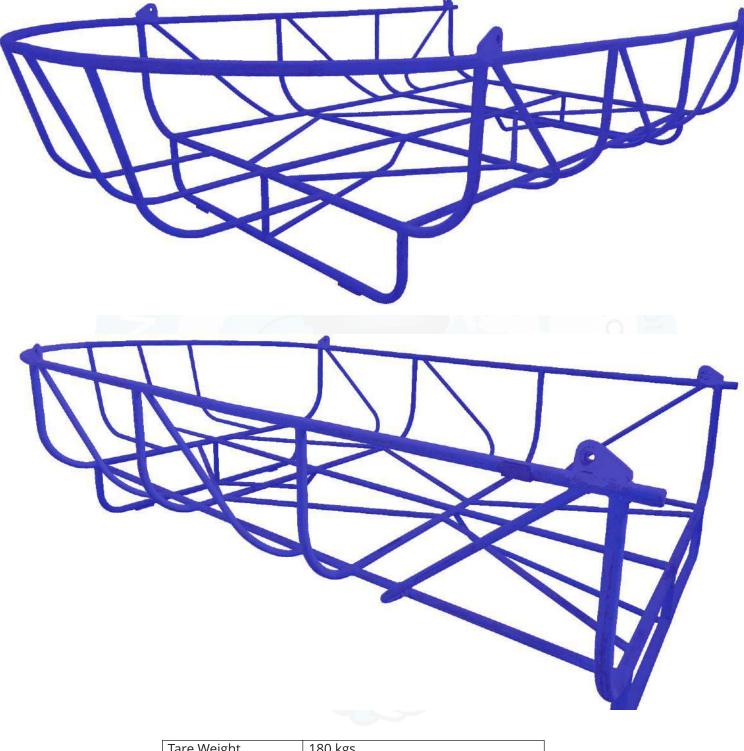
Max Pax	15
Max Payload	2520 kg or 5556 lb
Overall length	5.85m or 19' 2"
Overall Width	2.48m or 8' 2"
Weight Empty	250 kg or 551 lb
Shaft Length	long - 20"
Max Power	115 hp 2 x 50 hp or 86 kw 2 x 38 kw
Max Engine Weight	165 kg 2 x 98 kg or 363 lb 2 x 216 lb
Fabric	1670 dtx, polyester, CSM/neoprene
Folded dimensions	BAG 1 - 2,10 x 0,87 x 0,40 m3 6' 11" x 2' 10" x 1' 4"
	BAG 2 - 1,50 x 0,84 x 0,29 m3 4' 11" x 2' 9" x 0' 11"
Floorboard	- Rigid



ram@synergyequipment.com

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Tare Weight	180 kgs
Pay Load	1020 kgs
Gross Weight	1200 kgs
Test Weight	2400 kgs
Dimension	4800 (L) x 2800 (W) x 1250 (H)

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BV CERTIFICATE



AQ-CCU-21-08-22-BV-26-12.MS Job Number: DBA.4.21.057

FORM OF RECORD OF THOROUGH EXAMINATION OF LIFTED EQUIPMENT

The equipment detailed below was examined in accordance with UAE Law Decree 32 of 1982 Article 20 and ADNOC GROUP STANDARD "HSE-OS-ST19" and Standard BS 7072

Owner	M/S.Synergy Diving & Eqpt. Solution, FZC Dubai , UAE		
Equipment Name	BOAT CRADDLE	Location of Inspection	Synergy Diving & Eqpt. Solution, FZC Dubai , UAE
Type of Inspection	Bi-annual / Annual / Thorough Examination / with Load Test	Date of Inspection	22.08.2021
Place of Inspection	Synergy Diving & Eqpt. Solution, FZC Dubai , UAE	Date of Last Inspection	Newly tested
Date of Last NDT	DT:22/08/2021 BV REF : DBA.4.21.057.220821-MPI.002.MS	Date of Last Proof Load Test	Newly tested

Summary:

The following "BOAT CRADDLE " have been Visually Examined / Load Tested / Proof Load Tested / Function Tested and found to be suitable for further service with recommendations as given hereunder.

Equipment:

S/N	Asset No. ID / No.	Serial / No.	Description	Tare Weight / S.W.L. / M.G.W.	Recommendations
1.00	ENTING BUTCHALL CRITING BUTCHALL CRITING BUTCHALL RITING BUTCHALL ERTING BUTCHALL ERTI	SDES- BC-016	BOAT CRADDLE C/w Four Lifting Pad Eye On top, All steel welded construction Dimensions : 5150 mm (L) x2600 mm (W) x1850 mm (H)	Tare Weight: 500 kg Pay Load: 1500 kg Maximum Gross Weight: 2000 kg	Visually Inspected ,Proof Load tested @ 4000 kg & Found Satisfactory
olor (tion Found Code Verification	: BLUE /	 for further use ORANGE(FROM 1≋ JANUARY -2022 able	2)	TASSUESAIN EPITASSUES TASSUESAIN EPITASSUES TASSUESAIN ERITASSUES TASSUESAIN ERITASSUES

Recommendations Recommended to modify as per DNV 2.7-1 / BS EN ISO 10855

I certify on behalf of the Third Party Company named above that the items described herein were Thoroughly Examined by myself being a Competent Person and were found at the time of inspection free from cracks, flaws, or other defects, unless otherwise stated above and considered to be Safe for Further Use, subject to continuous maintenance being applied and qualified operator / user being employed.

Next Inspection Due or Next Proof Load Test E	THEORY & REPORTS AND THE ADDA.	Major Repair	Mohammed Sarfara haspector of Bureau Reviewed by: Kirar	GURE A DEPUTASED
Distribution Original -	Asset Integrity	TASSURFAINERITAS TASSURFAINERITAS TASSURFAINERITAS TASSURFAINERITAS TASSURFAINERITAS	24) Endorsement 06	Months
DXB-IVS-019				



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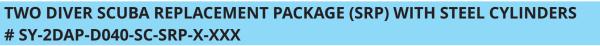
BV CERTIFICATE



AQ-CCU-21-08-22-BV-26-12.MS Job Number: DBA.4.21.057

1.	Name And Address Of Owner Of CCU:		UAE	NERITASSUREA	Eqpt. Solution, F	
2.	Name And Address Of Manufacturer Of CCU:		M/S.Synergy Diving & Eqpt. Solution, FZC Dubai UAE		ZC Dubai	
3.	Type Of CCU Dimensions: (e.g. Basket, Contai Equipment, Tanks, (d construction	w Four Lifting n .) x2600 mm (W	PUTASBUREA	
4.	Date Of CCU w Manufacturer:	as first put into service /	2021	IVERITASBUREA INERITASBUREA INERITASBUREA	MERITASBUREAUVE IVERITASBUREAUVE IVERITASBUHEAUVE	EKITASEUREAT BITASEUREAT
	VERITASBUREAUVERITASB VERITASBUREAUVERITASB	a) Makers Serial Number:	SDES-BC-0	016	VERITASBUREAUVE VERITASBUREAUVE	URITAGBUREA IRITAGBUREA
5.	Identification Numbers	b) Name Plate Details:	N/A	IVERITASBOREA IVERITASBOREA IVERITASBOREA	JVERITASBUREAUN JVERITASBUREAUN MERITASBUREAUN	RITASBUREA RITASBUREA PITASBUREA
IREAL IREAL	VERTASSUREAUVERITASS NERITASSUREAUVERITASS NERITASSUREAUVERITASS	c) Owners distinguishing mark or number (if any):	N/A	IVERITASBUREAU IVERITASBUREAU IVERITASBUREAU	JVERITASBUREAUVE IVERITASBUREAUVE	ERITASBUREA BUTASBUREA BUTASBUREA
6.	CCU Capacity:	UREAUVERITASOUREAUVERITASOUREAU UREAUVERITASOUREAUVERITASOUREAU DEAUVERITASOUREAUVERITASOUREAU	Tare Weigh 2000 kg	nt: 500 kg, Pa	ay Load: 1500 k	kg & MGV
7.	Date of Last Thorough Examination of CCU: Newly T		Newly Tes	ly Tested		
8.	Date of Last Proof Load Test of CCU: Newly			/ly Tested		
IREAL IREAL IREAL IREAL IREAL	Description of Test a The CCU was Proof	and Examination	(i) Boom Length (m)	(ii) Radius (m)	(iii) Test Load (t)	(iv) MGW (t)
	VERITA SRUPE AUVERITA 2.	0 x MGW on 4 Lifting Pad-eyes	N/A	N/A	4000 kg	2000 kg
9.	1.5 x MGW o	on 2 Lifting Pad-eyes diagonally	N/A	N/A	хх	хх
	Drop Te	st with SWL on inclined surface	N/A	N/A	xx	xx
		ght Calibration Cert. No.: 3901-1 0118, Calibration Cert. No.: C20				, Calibrate
10.	Pre and Post Proof	Load Test NDT Results:	DT:22		EF : DBA.4.21.05 91.002.MS	57.220821-
11.	Defects or deficiencies noted and alterations or repairs required before putting the CCU into service None (if none enter NONE):		EN TACOLINEA BUTASEUREA FILTASEUREA FILTASEUREA INITASEUREA INITASEUREA			
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PART NO : SY-2DAP-D040-SC-SRP-X-XXX

Design

- All Stainless Steel 316 construction, four diagonal lifting points with ringed pad eyes and fork lift slots.
- Dedicated lifting slings, certified, provided with SRP
- 4 X 50 LTR X 200 BAR Steel cylinders
- State of the art dive panels, fully engraved, color coded per diver, built into a waterproof, dust proof , unbreakable Pelican case
- Built to utilize 2 x 100 mtr / 150 mtr / 200 mtr diving umblicals.
- Various options Inbuilt radio, inbuilt CCTV systems for diver 1, diver 2,
- battery pack to run the video systems
- High pressure air hoses with ss fittings from cylinders to dive panel
- Bespoke panels can also be supplied, with client company logo, asset
- number etc printed on the system
- The system is supplied with complete certification package as per IMCA
- guidelines and class witness certification

DESIGN for Mobile/Portable Surface Supplied Systems IMCA D040



TWO DIVER SCUBA REPLACEMENT PACKAGE (SRP) WITH STEEL CYLINDERS # SY-2DAP-D040-SC-SRP-X-XXX



Bespoke designs : The panel colors and client logo can be made to choice



TWO DIVER SCUBA REPLACEMENT PACKAGE (SRP) WITH STEEL CYLINDERS # SY-2DAP-D040-SC-SRP-X-XXX



TECHNICAL DATA SHEET:

Frame Dimensions

Umbilical Hook	55 cm (550mm)
Construction	316 Stainless Steel (mirror finish)
SRP complete unit	1900mm (L) x 1700mm (H) x 1350mm (W)
Ringed Pad Eye	100mm (H) x 100mm(W) x 30mm
Pad eye design	DNV 2.7-1

Optional Extras

Wheels	Bolted wheels for easy transport	
DC power	Battery pack 12v complete with fast charger	
	in water proof junction box and battery leads	



TWO DIVER PORTABLE PANEL - SY-2DAP-D040-X-XXX

EO 9K01



PART NO : SY-2DAPD040-R-2DV

Two diver panel with radio and diver 1 / diver 2 cctv system



TWO DIVER PORTABLE PANEL - SY-2DAP-D040-X-XXX

EO 9K01

UKAS UKAS



PART NO : SY-2DAPD040-R-1DV

Two diver panel with radio and diver 1 cctv system







PART NO : SY-2DAP-HSE-INSHORE Two diver panel inshore

PART NO : SY-2DAP-D040 Two diver panel offshore

PART NO : SY-2DAP-D040-R Two diver panel with radio



PART NO : SY-2DAP-D040-R-1DV Two diver panel with radio and diver 1 cctv



PART NO : SY-2DAP-D040-R-2DV Two diver panel with radio and diver 1, diver 2 cctv



TWO DIVER PORTABLE PANEL - SY-2DAPD040-X-XXX

DIVING PANEL WITH RIGHT SIDE (DIVER 1) AND LEFT SIDE (DIVER 2) INLET AND OUTLET FITTINGS





DIVING PANEL WITH DIVER 1 AND DIVER 2 INLET AND OUTLET FITTINGS FROM THE BACKSIDE OF THE PANEL





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Information	Two Diver Panel
Case	Model 1650, Black, Interior (28.57" L x 17.52" W x 10.65" H), with wheels and handle, water, rust
	and dust proof), Pelican USA
	Exterior dimensions: 80.14 x 52.1 x 31.67cm (31.55" x 20.51" x 12.47")
	Interior dimensions: 72.16 x 44.2 x 27.03cm (28.41" x 17.40" x 10.64")
	Weight without foam: 10.9kg (24.03lbs)

UKAS UKAS 1 x 0-160 fsw/50 msw Depth gauge, 4.5", 0.25 % accuracy, mirror scale, with calibration point, Diver 1, Color coded Blue

1 x 0-160 fsw/50 msw Depth gauge, 4.5", 0.25 % accuracy, mirror scale, with calibration point, Diver 2, Color coded Red 🕜

Air Supplies	HP - 3 independent supplies, one per diver, LP – 3 independent supplies, one per diver
Communication	Amron 2820A-11 Two diver radio with ac/dc power supply
Regulator	1 x per diver, suitable for breathing air, Inlet : 6000 psi, outlet : 400 psi
Relief valves	0-250 psi on regulated diver supply line, 100 psi on pneumo gauges

Air supply ports:

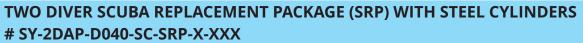
Option 1	All fittings provided on both sides of case – Left side all inlet fittings for hp air, lp air,	
	right side divers air supply and pneumo fittings.	
Option 2	All fittings provided from behind the panel for inlets and outlets	
Calibration	Inbuilt calibration points for pneumo gauges	

Optional:

CCTV	Can be provided for both diver 1 and diver 2
Monitor	TFT 15.5" (splitter will be provided if both diver CCTV options are required)
Surface control unit	All touch button controls with backlight for low visibility operations, video and light
	control
Primary recording	1 TB hard drive to record all diver video simultaneously
Secondary back	1 TB backup hard drive to record all diver video simultaneously
up recording	

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Breathing Air Cylinder Specification



Cylinder	IL1.50.229.200
Manufacturing Standard	ISO 9809-1
Dimensions	229mm OD x 1480 mm Length x 50.0 ltrs
Material	34CrMo4
Manufacturing Process	Hot Spinning of Seamless Steel Tubes
Heat Treatment	Hardened Quenched and Tempered
Working Pressure	200 bar
Hydraulic Test Pressure	300 bar
Minimum Burst Pressure	480 bar
Volumetric Capacity (nominal)	50 Litres
Nominal Gas Capacity	10 cu.m (Approx)
Cylinder Outside Diameter (+_1%)	229mm
Cylinder Length (without valve (+_20MM)	1470mm (Approx)
Tare Weight (+_5%)	54 kg (Approx)
Gas Application	Breathing Air
Neck Thread Specification	25E as per EN-629
Valve	Handwheel Operated Valve with BS3 Outlet
External Finish	Powder coated as per Gas Color Code for Breathing Air Grey (RAL 7037)

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PART NO : SY-SRP-2DAP-D040CSRP-X-XXX

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SY-2820A-11 AMCOM II TWO-DIVER RECHARGEABLE BASIC PORTABLE COMMUNICATOR



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.

FEATURES:

- Single volume control for both divers.
- Diver's umbilicals can be set up on 4-wire mode (full duplex) or 2-wire mode (push-to-talk) or any combination of the two modes for each diver.
- Ability to use both dynamic and pre-amplified diver microphones with a unique circuit that detects microphone type and automatically adjusts volume levels.
- The divers' connections consist of cross-talk and separate speaker and microphone inputs.
- 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.
- See Tech Note (below) for recommended accessories.



SY-2820A-11 AMCOM II TWO-DIVER RECHARGEABLE BASIC PORTABLE COMMUNICATOR

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): 0.5 mV
- Output Power (RMS @ 4 Ohm Load, 12 VDC): 10 Watts Audio
- Battery Life: 45 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: 16.25 Lbs. (7.37 Kg)

INCLUDED WITH COMMUNICATOR:

SY-2820A-11AMCOM II Two-Diver Rechargeable Basic Portable Communicator with Outdoor Power Module and International Locking Power Cord includes:

- (1) SY-2890-05 Amron 12 VDC Sealed Lead Acid Gel-Cell Rechargeable Battery with Slide terminals
- (1) SY-282XA-UM Amron Two Diver Portable Communicator User Manual

AVAILABLE OPTIONS:

- SY-2460SM-28 Amron Single Muff Operator Headset with Boom Mic and Dual Banana Plugs
- SY-2405-28 Amron Hand-Held Push-to-Talk Microphone
- SY-2401-28 Amron Deluxe Headset with Boom Mic
- SY-2460-28Amron Standard 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)

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, we recommend purchasing the 2405-28 Push-to-Talk Microphone (not included with this model). For optimum communications, it is recommended to use the 2401-28 Deluxe Headset with Boom Mic, topside. For tender maneuverability, 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 2825A-03 Two Diver Deluxe Portable Communicator with built-in Wireless Tender option.

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mentioned equipment on 25 th March 2020 as with particulars given below.	pes mie mit liozel regulation and app	kable internetional Standards	In	spection Details		
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DETAILS OF TEST (IF APPLICABLE)	Proof Laat: 1675 kg of 4 Lifting Pr	sints , NOE (III)		Preamatic over press witnessed as per the	sure test of two di- approved spacely	er alt p re and d
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ilities Division paction Report

INSP	ECTION REPORT Nr	DHA: 4.20.242/IR	.07 Revisio	n Nr 0
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	Spotting the hazard	3	2 MIN SAFETY CHECK LIST	

Annexure -01 on Details:

Witnessed Pnearantic over pressure	e test of Two Diver Air punel with the following details.
Description	Two Diver Ast panel
Country of origin	U.A.E
Minufacturer Serial No.	SEP-115 / TRITON 344
Year of Manufacture	March 2020
Design pressure	LP 300 psi/HP 3000 psi
Pneumatic over test pressure	LP 330 psi / HP 3300 psi
Pactamatic Test Date	23.03.2020

tic Test:

(Indicate If see Equipment identity n° AC-2195005 93242

matic over pressure test of two diver air panel (Serial No. SRP-115/TRITION 344) has been assed as per the approved procedure and focul the fullowing

- Test Pressure grage collocation certificate was review and found setts decay. Lew Pressure of 300 pc was supplied to the low pressure piping of two drives an panel for 10 min and found settingers until not (in spectrum). High Pressure of 3000 pc was supplied to the high pressure piping of two drives are panel for 30 min and found settingers at two of conjecture. Supposition test, as a supplied was defined and the state of the setting of two drives are panel for 30 min and found settingers at two of conjecture.
- END OF REPORT

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Revision Nr 0

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Refer to attachment rate document hat is provi

Represer BV Synutzy

Last Cultoration Date 21-01-2020 30-11-2019

Inspection Report Date:23/02/2020

Attachments Report:

Rev. Appr

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BV Coordinator

Industry & Facilities Division Third Party Inspection Report Page 4 of 5



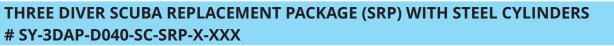
GNI-SI-RUI WISPODI-EN May 3 Gopyright Burnau Ventilas 10/2019 This template is intended exclusively when BV is acting as 3° carry inspection (corp. The use of present remolate is installer in the frame of 3° party services interve Client spectration and lemplates must be used.

Certifications

Provided with each panel

Manufacturer	Synergy certification
International	IMCA D040
Class	Bureau Veritas pressure test certificates
Warranty	1 year international manufacturer warranty
Weight	Frame only : 147 kgs
Weight	Frame with cylinders, panel, umblicals and bandmasks : 600 kgs







PART NO : SY-3DAP-D040-SC-SRP-X-XXX

Design

- All Stainless Steel 316 construction, four diagonal lifting points with ringed pad eyes and fork lift slots.
- Dedicated lifting slings, certified, provided with SRP
- 6 X 50 LTR X 200 BAR Steel cylinders
- State of the art dive panels, fully engraved, color coded per diver, built into a waterproof, dust proof , unbreakable Pelican case
- Built to utilize 3 x 100 mtr / 150 mtr / 200 mtr diving umblicals.
- Various options Inbuilt radio, inbuilt CCTV systems for diver 1, diver 2, diver 3
- 12v battery pack to run the video systems
- High pressure air hoses with ss fittings from cylinders to dive panel
- Bespoke panels can also be supplied, with client company logo, asset number etc printed on the system
- The system is supplied with complete certification package as per IMCA guidelines and class witness certification

DESIGN for Mobile/Portable Surface Supplied Systems IMCA D040



THREE DIVER SCUBA REPLACEMENT PACKAGE (SRP) WITH STEEL CYLINDERS # SY-3DAP-D040-SC-SRP-X-XXX



TECHNICAL DATA SHEET:

Frame Dimensions

Umbilical Hook	55 cm (550mm)
Construction	316 Stainless Steel (mirror finish)
SRP complete unit	2200mm (L) x 1700mm (H) x 1350mm (W)
Ringed Pad Eye	100mm (H) x 100mm(W) x 30mm (T) (with ring)
Pad eye design	DNV 2.7-1

Optional Extras

Wheels	Bolted wheels for easy transport
DC power	Battery pack 12v complete with fast charger
	in water proof junction box and battery leads







TORE OF

UKAS.



PART NO : SY-3DAP-D040-R-2DV

Three diver panel with radio and diver 1 / diver 2 cctv system





UKAS.



PART NO : SY-3DAP-D040-R-1DV

Three diver panel with radio and diver 1 cctv

PART NO: SY-3DAP-D040-R

Three diver panel with radio

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THREE DIVER PORTABLE PANEL - SY-3DAP-D040-X-XXX

DIVING PANEL WITH D1/D2/D3 INLET FITTINGS (AIR SUPPLIES HP/LP) ON LEFT SIDE AND D1/D2/D3 OUTLET FITTINGS (TO DIVER) ON RIGHT SIDE

TOKE OB



DIVING PANEL WITH D1/D2/D3 INLET (HP/LP) AND OUTLET FITTINGS (TO DIVER) FROM THE BACKSIDE OF THE PANEL









Information	Two Diver Panel
Case	Model 1650, Black, Interior (28.57" L x 17.52" W x 10.65" H), with wheels and handle, water, rust
	and dust proof), Pelican USA
	Exterior dimensions: 80.14 x 52.1 x 31.67cm (31.55" x 20.51" x 12.47")
	Interior dimensions: 72.16 x 44.2 x 27.03cm (28.41" x 17.40" x 10.64")
	Weight without foam: 10.9kg (24.03lbs)

1 x 0-230 fsw/70 msw Depth gauge, 3.5", 0.25 % accuracy, mirror scale, with calibration point , Diver 1, Color coded Green

1 x 0-230 fsw/70 msw Depth gauge, 3.5", 0.25 % accuracy, mirror scale, with calibration point, Diver 2, Color coded Blue

1 x 0-230 fsw/70 msw Depth gauge, 3.5", 0.25 % accuracy, mirror scale, with calibration point, Diver 3, Color coded Red

Air Supplies	HP - 3 independent supplies, one per diver, LP – 3 independent supplies, one per diver
Communication	Amron 2830A-11 Three diver radio with ac/dc power supply
Regulator	1 x per diver, suitable for breathing air, Inlet : 6000 psi, outlet : 400 psi
Relief valves	0-250 psi on regulated diver supply line, 100 psi on pneumo gauges

Air supply ports:

Option 1	All fittings provided on both sides of case – Left side all inlet fittings for hp air, lp air,
	right side divers air supply and pneumo fittings.
Option 2	All fittings provided from behind the panel for inlets and outlets
Calibration	Inbuilt calibration points for pneumo gauges

Optional :

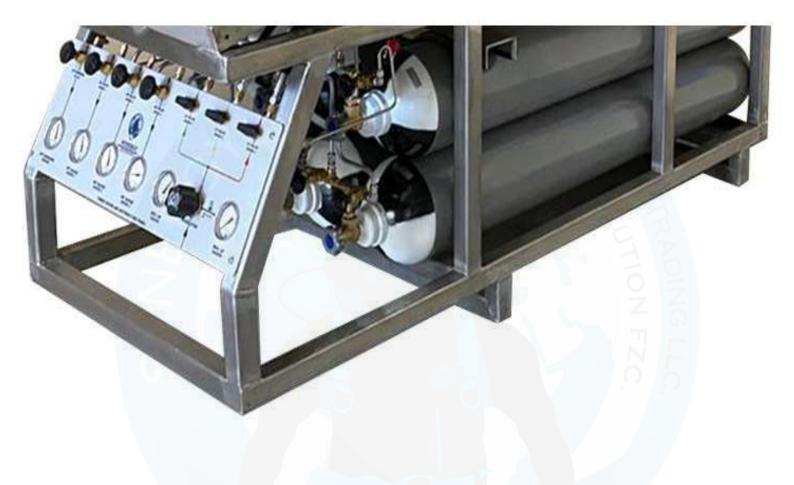
CCTV	Can be provided for both diver 1 and diver 2
Monitor TFT 15.5" (splitter will be provided if both diver CCTV options are required)	
Surface control unit	All touch button controls with backlight for low visibility operations, video and light
	control
Primary recording	1 TB hard drive to record all diver video simultaneously
Secondary back	1 TB backup hard drive to record all diver video simultaneously
up recording	

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Emergency panel provision – extra protection for diver safety



Information	Emergency Panel
Cylinder Charging	HP charging valve/Gauge
Regulator	HP regulator, inlet 6000 psi Outlet 400 psi
Supplies to Dive Panel	D1/D2/D3 HP valves/Gauges
Regulated Supply	D1/D2/D3 LP valves/Gauges
Connections	Valves/fittings/piping from cylinders to panel

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THREE DIVER SCUBA REPLACEMENT PACKAGE (SRP) WITH STEEL CYLINDERS # SY-3DAP-D040-SC-SRP-X-XXX

Breathing Air Cylinder Specification



Cylinder	IL1.50.229.200
Manufacturing Standard	ISO 9809-1
Dimensions	229mm OD x 1480 mm Length x 50.0 ltrs
Material	34CrMo4
Manufacturing Process	Hot Spinning of Seamless Steel Tubes
Heat Treatment	Hardened Quenched and Tempered
Working Pressure	200 bar
Hydraulic Test Pressure	300 bar
Minimum Burst Pressure	480 bar
Volumetric Capacity (nominal)	50 Litres
Nominal Gas Capacity	10 cu.m (Approx)
Cylinder Outside Diameter (+_1%)	229mm
Cylinder Length (without valve (+_20MM)	1470mm (Approx)
Tare Weight (+_5%)	54 kg (Approx)
Gas Application	Breathing Air
Neck Thread Specification	25E as per EN-629
Valve	Handwheel Operated Valve with BS3 Outlet
External Finish	Powder coated as per Gas Color Code for Breathing Air Grey (RAL 7037)







PART NO : SY-SRP-3DAP-D040-SC-SRP-X-XXX

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SY-2830A-11 AMCOM III THREE-DIVER RECHARGEABLE BASIC PORTABLE COMMUNICATOR

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.

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.



SY-2830A-11 AMCOM III THREE-DIVER RECHARGEABLE BASIC PORTABLE COMMUNICATOR

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): 0.5 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:

SY-2830A-11 AMCOM III Two-Diver Rechargeable Basic Portable Communicator with Outdoor Power Module and International Locking Power Cord 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)

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, 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.

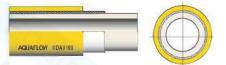
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Known worldwide for its lightweight and ultra flexible construction, Aquaflow hoses are ideal for surface demand applications. Aquaflow kink resistant construction comprises of an extruded core tube, reinforcement of high strength yarn and a bonded outer cover. Both tube and cover are extruded from high performance thermoplastic polymers which are particularly clean and free from odors often associated with conventional rubber hoses. Coupled with the wide operating temperature range this ensures breathing gas quality is maintained under all conditions from -20°C to +66°C.





Part No.	Nominal Bore		0.D.		Min. rad		Wor pres	0	Nom. pres		Weig ai		Weig sea v		Typical application
	in	mm	in	mm	in	mm	psi	bar	psi	bar	lb/ft	g/m	lb/ft	g/m	
SY-HDA0104	1/4	6.3	0.50	12.7	1.25	32	300	21	1200	84	0.078	116	-0.009	-14	Pnuemo
SY-HDA0106	3/8	9.5	0.66	16.8	2	50	5 <mark>00</mark>	35	2000	140	0.119	177	-0.034	-50	Air/Gas
SY-HDA1108	1/2	12.7	0.83	21.0	3	76	300	25	1200	84	0.178	265	-0.054	-80	Hot water

Aquaflow Umbilicals



Lightweight, ultra flexible and kink resistant, Aquaflow Umbilicals are ideal for breathing gas supply, comms and pneumo service for surface demand umbilicals. They can be produced in production runs up to 740 meters long and can be over extruded or braided for additional protection against abrasion and use in contaminated waters.

The unique materials and cabled "rope-like" construction combine to produce the most flexible, controlled buoyancy umbilicals available today. The umbilicals have no need

for tape, the repairs are much reduced and they have a longer life. They keep the professional diver safer and more efficient both while diving and on deck. They will ultimately reduce costs for the operator. The highest quality materials, workmanship with competitive pricing and unmatched service to our clients worldwide. SYNERGY invites you to visit our website or contact us directly so that we can assist you with all your Diving Umbilical needs.

SYNERGY SURFACE DIVING HOSES AND UMBILICALS SY-AQUAFLOW

SY-UDA0103 3 part surface demand



SY-UDA0204 3 part plus video

www.synergyequipment.com

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Diving Umblical with protective outer sheet



Diving Umblical with spiral wrap

Diving Umblical without protective outer sheet



OUTLAND VIDEO CAMERA / LIGHTS / UMBILICALS

Mechanical	Specification
Weight	6 oz (.2kg) Dry, 3 oz(.06kg) wet
Depth Rating	2000 ft (600m)
Housing	Black delrin
Electrical	
Image Device	1/3" CCD sensor (412k pixel)
Sensitivity	.001 lux @f1.4
Resolution	600 TV lines standard
Video Out	1.2 Vpp
Power	12 VDC @ 110 ma.
Optical	NING & EQ
Lens	3.6mm, Electronic-Iris
Focus	Fixed 4" to infinity
Angle of View	70 horz. (in water)



PART NO: SY-UWC-325/p/e



Mechanical	Specification
Weight	7oz)0.2kg) Dry, 3 oz.(.1kg) Wet
Depth Rating	2000 ft (600m)
Housing	6061-16 Anodized Aluminium
Electrical	
Power	12 VDC @ 110 ma.
Wattage	18 watt (Eq to 150 watt halogen)
Output	700 lux at 1 meter

PART NO: SY-UWL-401

Mechanical	Specification
Conductors	16ea #22 awg 1 RG-59 Coax
Length (mtrs)	100/150/200 as per requirement
Diameter	8.5mm (0.35")
Materials	Orange Polyurethane jacket
Breaking Strength	1200 lbs
End fittings	
Diver End	Moulded Y connection
Camera	Rmk-5-fs with locking sleeve
Light	Rmg-3-fs with locking sleeve
Surface end	Soldered connection
Cable	8 pin amphenol connector



PART NO : SY-VC-150M





Connector	SY-RMK-5-FS			
Туре	5 Female Sockets			
Cable	18 in Pigtail of 18 SO AWG Cable			
Material	Special Neoprene, Molded			
Contacts	Copper Alloy, Hard Gold Plated per			
	ASTM-B-488			
Voltage Rating	600 VDC			
Pressure Rating, Mated	Up to 20,000 psi			
Mates with	SY-XSL-5-BCL on Outland			
	Camera SY-UWC-325/p/e			

UKAS.

PART NO : SY-RMK-5-FS



PART NO : SY-RMG-3FS



Locking sleeve for Rmk-5-fs

PART NO : SY-K-FLS-D



Locking sleeve for Rmg-3-fs PART NO : SY-G-FLS-D

Connector	SY-RMG-3-FS			
Туре	3 Female Sockets			
Cable	18 in Pigtail of 18 SO AWG Cable			
Material	Special Neoprene, Molded			
Contacts	Copper Alloy, Hard Gold Plated per			
	SY-ASTM-B-488			
Voltage Rating	600 VDC			
Pressure Rating, Mated	Up to 20,000 psi			
Mates with	SY-XSG-3-BCL on Outland			
	light SY-UWL-401			

PART NO : SY-MS3108B-18-08P

Certifications	Provided with each system
International	IMCA D023
Manufacturer	Synergy Certificates
Electrical	Continuity/Function test



PART NO : SY-CLBRK

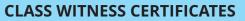


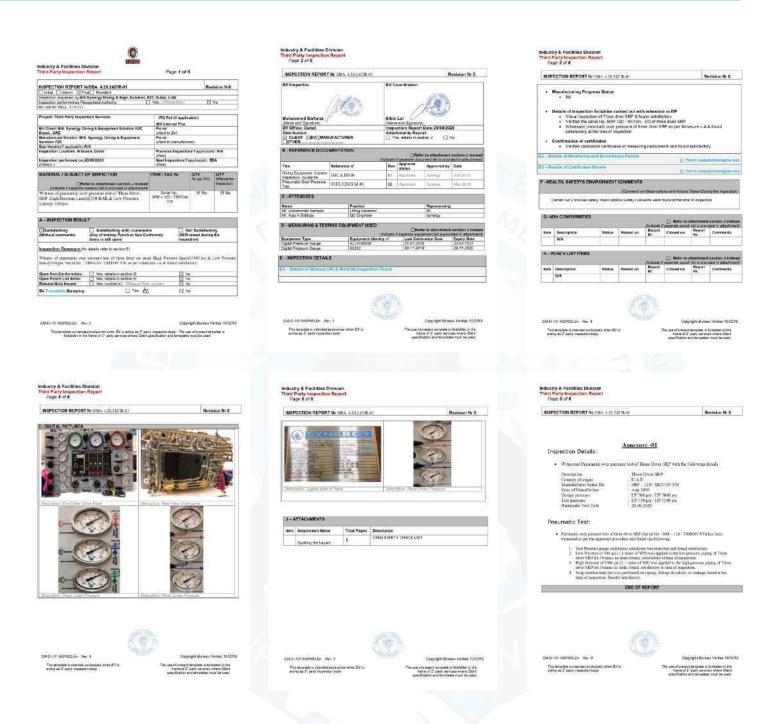
SS camera and light bracket with jubilee clamp

Cannon Right Angle Amphenol Connector is used for connecting the video camera umbilical to the surface video console unit.

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Certifications

Provided with each panel

Manufacturer	Synergy certification
International	IMCA D040
Class	Bureau Veritas pressure test certificates
Warranty	1 year international manufacturer warranty
Weight	Frame only : 160 kgs
Weight	Frame with cylinders, panel, umblicals and bandmasks : 600 kgs







Reliable

Boat owners relate to the advantages of a diesel: lower chance of electrical fault, better fuel economy and a long, reliable work filled life.

• Long hours

Useful for trolling, working nets or fish farming, the diesel can't be matched in low speed operation. The combustion chamber and new cooling system allows for hours of idling.

• Cool

The thermostat cools the engine in response to how hard it is working by changing the temperature of the water.

• Superior

Special cast iron cylinder liners are bonded onto the one piece aluminium block. Minature fuel injection pumps are combined with nozzles to form "unit injectors" which are super compact

Technical Details Engine and Block

- One piece aluminium block.
- Cast iron cylinder bonded to the block.
- With a five coat painting process, the engine is protected both inside and out.

Fuel System

• Precise fuel metering with quick response.

Cooling System

Seawater thermostat

Exhaust System

• Minature injection pump and reduced smoke.



TANMAR

1

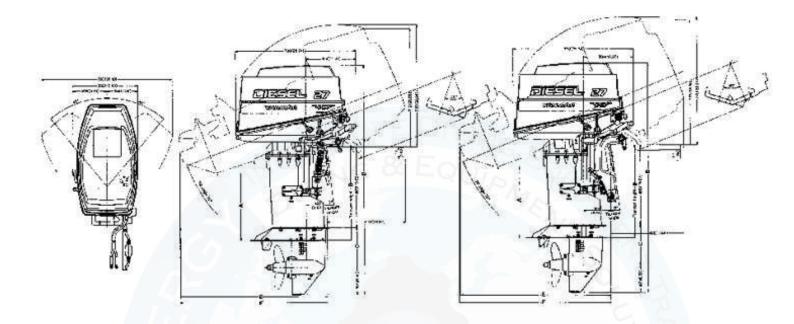
YANMAR MARINE DIESEL ENGINES SY-D27

ModelD27Configuration4-cycle, vertical, water cooled diesel engineNumber of cylinders3Bore and stroke mm70 x 70 (2.76 x 2.76)Displacement cc (cu. in.)808 (49)Maximum output hp(kW)27hp/4500rpm(19.9kW/4500rpm)/rpm at crankshaft0Combustion systemDirect injectionStarting systemElectric with emergency rope startCooling systemDirect seawater cooling by rubber impeller pumpLubrication systemForced lubrication with trochoid pumpGeneratorAC dynamo built in flywheelDrive device0Clutch typeDog type clutchReduction ratio Ahead/ Astern1.846/1.846Direct seawater controlClutch controlControl device0Engine speed controlRemote controlClutch controlRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oilDisel (207lbs) 102kgs (225lbs)Lubre oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-typeL-type94kgs (207lbs) 102kgs (227lbs)UL-type95kgs (209lbs) 103kgs (227lbs)		
Number of cylindersaNumber of cylinders3Bore and stroke mm70 x 70 (2.76 x 2.76)Displacement cc (cu. in.)808 (49)Maximum output hp(kW)27hp/4500rpm(19.9kW/4500rpm)/rpm at crankshaft0Combustion systemDirect injectionStarting systemElectric with emergency rope startCooling systemDirect seawater cooling by rubber impeller pumpLubrication systemForced lubrication with trochoid pumpGeneratorAC dynamo built in flywheelDrive device0Clutch typeDog type clutchReduction ratio Ahead/1.846/1.846Astern0il bathDirection systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl device1Engine speed controlRemote controlClutch controlRemote controlSteeringRemote controlFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-typeL-type94kgs (207lbs) 102kgs (225lbs)L-type95kgs (209lbs) 103kgs (227lbs)	Model	D27
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Bore and stroke mm70 x 70 (2.76 x 2.76)Displacement cc (cu. in.)808 (49)Maximum output hp(kW)27hp/4500rpm(19.9kW/4500rpm)/rpm at crankshaftCombustion systemCombustion systemDirect injectionStarting systemElectric with emergency rope startCooling systemDirect seawater cooling by rubber impeller pumpLubrication systemForced lubrication with trochoid pumpGeneratorAC dynamo built in flywheelDrive deviceDog type clutchReduction ratio Ahead/1.846/1.846AsternOil bathDirection systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceRemote controlEngine speed controlRemote controlSteeringRemote controlSteeringDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-typeL-type94kgs (207lbs) 102kgs (225lbs)L-type95kgs (209lbs) 103kgs (227lbs)		engine
Displacement cc (cu. in.)808 (49)Maximum output hp(kW)27hp/4500rpm(19.9kW/4500rpm)/rpm at crankshaftDirect injectionStarting systemDirect injectionStarting systemDirect seawater cooling by rubber impeller pumpLubrication systemDirect seawater cooling by rubber impeller pumpLubrication systemForced lubrication with trochoid pumpGeneratorAC dynamo built in flywheelDrive deviceClutch typeDog type clutchReduction ratio Ahead/ Astern1.846/1.846Direction of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlRemote controlSteeringRemote controlSteeringDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	Number of cylinders	3
Maximum output hp(kW) /rpm at crankshaft27hp/4500rpm(19.9kW/4500rpm) /rpm at crankshaftCombustion systemDirect injectionStarting systemElectric with emergency rope startCooling systemDirect seawater cooling by rubber impeller pumpLubrication systemForced lubrication with trochoid pumpGeneratorAC dynamo built in flywheelDrive deviceDog type clutchClutch typeDog type clutchReduction ratio Ahead/ Astern1.846/1.846Direction of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlRemote controlRemote controlSteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-type94kgs (207lbs) 102kgs (225lbs)LI-type95kgs (209lbs) 103kgs (227lbs)	Bore and stroke mm	70 x 70 (2.76 x 2.76)
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Combustion systemDirect injectionStarting systemElectric with emergency rope startCooling systemDirect seawater cooling by rubber impeller pumpLubrication systemForced lubrication with trochoid pumpGeneratorAC dynamo built in flywheelDrive deviceClutch typeDog type clutchReduction ratio Ahead/1.846/1.846AsternDirection of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlRemote controlClutch controlRemote controlSteeringThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-type94kgs (207lbs) 102kgs (225lbs)L-type95kgs (209lbs) 103kgs (227lbs)	Maximum output hp(kW)	27hp/4500rpm(19.9kW/4500rpm)
Starting systemElectric with emergency rope startCooling systemDirect seawater cooling by rubber impeller pumpLubrication systemForced lubrication with trochoid pumpGeneratorAC dynamo built in flywheelDrive deviceClutch typeDog type clutchReduction ratio Ahead/1.846/1.846AsternDirection of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlRemote controlSteeringRemote controlSteeringThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	/rpm at crankshaft	
Cooling systemDirect seawater cooling by rubber impeller pumpLubrication systemForced lubrication with trochoid pumpGeneratorAC dynamo built in flywheelDrive deviceClutch typeDog type clutchReduction ratio Ahead/ Astern1.846/1.846Direction of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlRemote controlClutch controlRemote controlSteeringThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	Combustion system	
impeller pumpLubrication systemForced lubrication with trochoid pumpGeneratorAC dynamo built in flywheelDrive device-Clutch typeDog type clutchReduction ratio Ahead/ Astern1.846/1.846Direction of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl device-Engine speed controlRemote controlClutch controlRemote controlSteeringThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weight-L-type94kgs (207lbs) 102kgs (225lbs)L-type95kgs (209lbs) 103kgs (227lbs)		Electric with emergency rope start
Lubrication systemForced lubrication with trochoid pumpGeneratorAC dynamo built in flywheelDrive deviceClutch typeDog type clutchReduction ratio Ahead/1.846/1.846AsternDirection of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlRemote controlClutch controlRemote controlSteeringThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	Cooling system	Direct seawater cooling by rubber
gumpGeneratorAC dynamo built in flywheelDrive deviceClutch typeDog type clutchReduction ratio Ahead/1.846/1.846AsternDirection of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlRemote controlClutch controlRemote controlSteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)		
GeneratorAC dynamo built in flywheelDrive deviceImage: ClutchClutch typeDog type clutchReduction ratio Ahead/1.846/1.846AsternImage: Clockwise viewed from propellerLubrication of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceImage: ControlEngine speed controlRemote controlClutch controlRemote controlSteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightImage: Sae (207lbs) 102kgs (225lbs)L-type94kgs (207lbs) 102kgs (227lbs)	Lubrication system	Forced lubrication with trochoid
Drive deviceDog type clutchClutch typeDog type clutchReduction ratio Ahead/ Astern1.846/1.846Direction of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlRemote controlRemote controlClutch controlRemote controlSteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-typeL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)		
Clutch typeDog type clutchReduction ratio Ahead/ Astern1.846/1.846Direction of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlRemote controlRemote controlClutch controlRemote controlSteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightLL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	Generator	AC dynamo built in flywheel
Reduction ratio Ahead/ Astern1.846/1.846AsternI.846/1.846Direction of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlEngine speed controlRemote controlClutch controlRemote controlSteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightLL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	Drive device	
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Direction of rotationClockwise viewed from propellerLubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlRemote controlRemote controlClutch controlRemote controlSteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-typeL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	Reduction ratio Ahead/	1.846/1.846
Lubrication systemOil bathTilt up systemAX-E manual AX-EP hydraulicControl deviceEngine speed controlEngine speed controlRemote controlClutch controlRemote controlSteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-typeL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	Astern	
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Control deviceRemote controlEngine speed controlRemote controlClutch controlRemote controlSteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-typeL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	Lubrication system	Oil bath
Engine speed controlRemote controlClutch controlRemote controlSteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightL-typeL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	1 2	AX-E manual AX-EP hydraulic
Clutch controlRemote controlSteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightLL-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	Control device	
SteeringRemote controlTransom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightImage: Same set and s	č .	Remote control
Transom installationThrough bolts with nutsFuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightImage: Same set 100 (2000)L-type94kgs (207lbs) 102kgs (225lbs)LL-type95kgs (209lbs) 103kgs (227lbs)	Clutch control	Remote control
Fuel oilDiesel fuel with kerosene (Add lube oil, 30:1)Fuel oil capacity l(cu.in)24 (1465)Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightImage: Comparison of the second sec		
oil, 30:1) Fuel oil capacity l(cu.in) 24 (1465) Lube oil Engine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90 Dry weight L-type 94kgs (207lbs) 102kgs (225lbs) LL-type 95kgs (209lbs) 103kgs (227lbs)	Transom installation	
Fuel oil capacity I(cu.in) 24 (1465) Lube oil Engine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90 Dry weight L-type 94kgs (207lbs) 102kgs (225lbs) LL-type 95kgs (209lbs) 103kgs (227lbs)	Fuel oil	Diesel fuel with kerosene (Add lube
Lube oilEngine: SAE 15W40, API CD/ Drive: SAE 80W90, API Gear oil #90Dry weightP4kgs (207lbs) 102kgs (225lbs)L-type94kgs (209lbs) 103kgs (227lbs)LL-type95kgs (209lbs) 103kgs (227lbs)		oil, 30:1)
Drive: SAE 80W90, API Gear oil #90 Dry weight L-type 94kgs (207lbs) 102kgs (225lbs) LL-type 95kgs (209lbs) 103kgs (227lbs)		
Dry weight 94kgs (207lbs) 102kgs (225lbs) L-type 95kgs (209lbs) 103kgs (227lbs)	Lube oil	0
L-type 94kgs (207lbs) 102kgs (225lbs) LL-type 95kgs (209lbs) 103kgs (227lbs)		Drive: SAE 80W90, API Gear oil #90
LL-type 95kgs (209lbs) 103kgs (227lbs)		
UL-type 96kgs (212lbs) 104kgs (229lbs)		
	UL-type	96kgs (212lbs) 104kgs (229lbs)

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	Α	В	C	D	E	F
L-type	402	560	239	1380	889	892
	(15.83)	(22.05)	(9.41)	(54.33)	(35.00)	(35.12)
LL-type	442	623	302	1443	947	952
	(17.40)	(24.53)	(11.89)	(56.81)	(37.28)	(37.48)
UL-type	482	685	364	1505	1505	1009
	(18.98)	26.97)	(14.33)	(59.25)	(39.57)	(39.72)

	A	В	C	D	E	F
L-type	402	560	239	1380	889	892
	(15.83)	(22.05)	(9.41)	(54.33)	(35.00)	(35.12)
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	(17.40)	(24.53)	(11.89)	(56.81)	(37.28)	(37.48)
UL-type	482	685	364	1505	1005	1009
	(18.98)	(26.97)	(14.33)	(59.25)	(39.57)	39.72)



ACCESSORIES

Transom length, L-type, 560mm				
Transom length, LL-type, 623mm				6
Transom length, UL-type, 685mm		100		A Distance
Charging dynamo, 12V-10A	1		•	à
Charging dynamo, 12V-20A			-	4
Holts and nuts for outboard motor clamp		2	2	
Remote control bracket for engine				2
speed & clutch shift control				•
Remote control bracket for steering control			-	-
Bar handle control	-		٠	
Hydraulie tilt switch			-	
Spare parts kit				
Half tilt device		X		A
Special overlimiling tool kit	- 4	x		A.
F.O tank (24/), hose 2m & connect parts		٠		
Tool kit		٠		
Operation manual				
Propeller clamp kit				
Propeller, 3-10.5 x 9			Contraction of the local division of the loc	
Propeller, 3-10.5 x 9.5			1	
Propeller, 3-10.5 x 10		Ā	-	
Propeller, 3-10.5 x 10.5		-		
Propeller, 3-10.5 x 10				-
				-
Propeller, 3-10.5 x 11.5			-	-
Propeller, 3-10.5 x 12		*	1.000	1
Propeller, 3-10.5 x 12.5				144
Propeller, 3-10.5 x 13			and in case of the	1.00
Propeller.3-11.5 x 9	12			*
Propeller,3-11.5 x 10	-	-		*
Propeller,3-11.5 x 10.5		-		
Propeller,3-11.5 x 11		12	A	
Propeller.3-11.5 x 11.5		12	*	
Propeller.3-11.5 x-12	- 2	14		A
Propeller,3-11.5 x 12.5	12		1	
Propeller.3-11.5 x 13	1	-1-		A
Propeller,3-11.5 x 14		1	T	-
Propeller.3-11.5 x 15		-	Â	1
*Remote control Assy, S-type (Standard)	-	-		*
(included: Starter switch, Manual engine		-		
stop, L.O alarm lamp	-	-	-	2
*Remote control Assy, A-type				
(included: Starter switch, Manual engine				
stop, Type 2 panel, Wirehamess		*	*	A.
5m, 2m, Alarm panel)		10	1	
*Remote control Assy, B-type			1	10
(included: Engine stop solenoid, Wireharness		*	*	
Zm. Extension wirehamess 5m)		11		
*Remote control Assy, C-type		1.1		
(included: Remote control hiead NA12,				
Engine stop solenoid, Wirehamess				A
2m, Extension wireharness Sm)				
*Remote control Assy, D-type		-	-	-
(included: Remote control head NA12.				
	2		14	12
Engine stop solenoid, Wirehamess	-	-	-	-
5m, 2m, Alarm panel with				
Tachometer, Hour meter)				

Assy Name			8	A,	B	C	I
Engine Speed	Remote control head	Model NA12 ine. Start, Stop, Kill & Tilt switch	111			+	
Governor	Cable Br	acket	4	4	à	Å.	1
Shift	Push pul enble	Local samply	1		-	Ì	
Steering	Handle	Local supply	-	-	-		
0	Bracket	(Connecting kit)			*	A	l
Starting 👘	Starter	Switch			1	1	
Device	switch	inc. Handle: NA12	-	-		*	
	Relay	Conference of the second second		ŵ.	ø	ø	Ī
Engine		op (Manual type)			ø		
Stopping	Manual :	stop cable, 7m	-		-	-	ſ
Device	Engine s	top solenoid & Relay	4		٠		
Kill-SW	ine. Han	dle: NA12 (Electric)	4	1	÷.		[
Lube oil Alarm lamp	um Equipped on Eng.						
Tachometer	SCREWE		-	-	-	+	I
Tilt SW.	inc. Han	dle: NA12	Ċ.		-		
Instrument panel	Type 2 panel	Bracket for engine stop knob and blind cover	i.				
Alarm	Lamps	Overheat, L.O. pressure and dynamo charge	1				
panel	Bazzer	Overheat L.O. pressure and dynamo charge					
	Tachome	ster and hour meter	4	1	1.4	14	ļ
		Engine side wirehamess	٠	-	1	4	
	Engine side	2m length, 1 pc. 2m length (Alarm), 1 pc.	1	•	1	1	
Wire-	100000	2m length, 1 pc 2m length (Alarm), 1 pc.			•	•	
harness	Panel side	5m, Type 2, 1 pc. 5m (Alurm), 1 pc.	1			ì	
		5m (Alarm), 2 pc.	14	4	14	14	h
	Exten-	5m, inc. Tilt extension 1 pc. 5m (Alarm), 1 pc.	1		٠	٠	1

REMOTE CONTROL ASSY

🌻 : Equipped on engine. 🔺 : In packing -: Not included





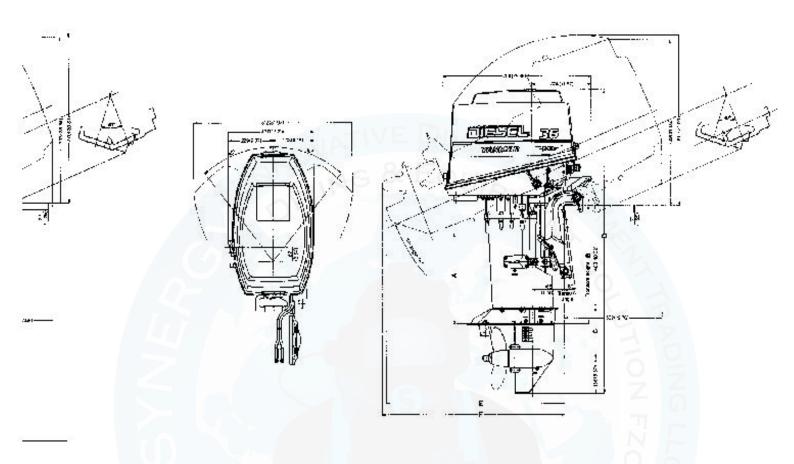
Model	D36
Configuration	4-cycle, vertical, water cooled diesel
	engine
Number of cylinders	3
Bore and stroke mm	82 x 70 (3.23 x 2.76
Displacement cc (cu. in.)	1019 (68)
Maximum output hp(kW)	36hp/4500rpm
/rpm at crankshaft	(26.5kW/4500rpm)
Combustion system	Direct injection
Starting system	Electric with emergency rope start
Cooling system	Direct seawater cooling by rubber
	impeller pump
Lubrication system	Forced lubrication with trochoid
	pump
Generator	AC dynamo built in flywheel
Drive device	
Clutch type	Dog type clutch
Reduction ratio Ahead/	1.846/1.846
Astern	
Direction of rotation	Clockwise viewed from propeller
Lubrication system	Oil bath
Tilt up system	AX-E manual AX-EP hydraulic
Control device	
Engine speed control	Remote control
Clutch control	Remote control
Steering	Remote control
Transom installation	Through bolts with nuts
Fuel oil	Diesel fuel with kerosene (Add lube
	oil, 30:1)
Fuel oil capacity l(cu.in)	24 (1465)
Lube oil	Engine: SAE 15W40, API CD/
	Drive: SAE 80W90, API Gear oil #90
Dry weight	
L-type	116kgs (256lbs) 120kgs (265lbs)
LL-type	117kgs (258lbs) 121kgs (267lbs)
UL-type	118kgs (260lbs) 122kgs (269lbs)

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10 9 KU1

	A	В	С	D	E	F
L-type	402	560	239	1380	889	892
	(15.83)	(22.05)	(9.41)	(54.33)	(35.00)	(35.12)
LL-type	442	623	302	1443	947	952
	(17.40)	(24.53)	(11.89)	(56.81)	(37.28)	(37.48)
UL-type	482	685	364	1505	1005	1009
	(18.98)	(26.97)	(14.33)	(59.25)	(39.57)	39.72)



ACCESSORIES REMOTE CONTROL ASSY

	D	27	D	36
Transom length, L-type, 560mm		٠	۲	۲
Fransom length, LL-type, 623mm		٠	٠	۲
Transom length, UL-type, 685mm	•	٠	٠	۲
Charging dynamo, 12V-10A		٠		•
Charging dynamo, 12V-20A				
Bolts and nuts for outboard motor clamp				
Remote control bracket for engine		٠	٠	•
speed & clutch shift control				T
Remote control bracket for steering control				
Bar handle control				
lydraulic tilt switch	11 2		-	
Spare parts kit				
Half tilt device				
Special overhauling tool kit				
F.O tank (24/), hose 2m & connect parts				
Tool kit				
Operation manual				
Propeller clamp kit		-	-	
Propeller, 3-10.5 x 9			-	-
Propeller, 3-10.5 x 9.5			-	-
Propeller, 3-10.5 x 9.5	A	_		-
and the second data and the second		_		-
Propeller, 3-10.5 x 10.5			-	
Propeller, 3-10.5 x 11			-	-
Propeller, 3-10.5 x 11.5				
Propeller, 3-10.5 x 12				-
Propeller, 3-10.5 x 12.5			-	-
Propeller, 3-10.5 x 13			-	-
Propeller,3-11.5 x 9	-		A	
Propeller,3-11.5 x 10				
Propeller,3-11.5 x 10.5	-			
Propeller,3-11.5 x 11	-	+		
Propeller,3-11.5 x 11.5		+		
Propeller,3-11.5 x 12	-	-		
Propeller,3-11.5 x 12.5				
Propeller,3-11.5 x 13				
Propeller,3-11.5 x 14	+			
Propeller,3-11.5 x 15	+	-		
*Remote control Assy, S-type (Standard)	-		1	
(included: Starter switch, Manual engine	•	٠	٠	•
stop, L.O alarm lamp				
*Remote control Assy, A-type			1	1
(included: Starter switch, Manual engine				
stop, Type 2 panel, Wireharness				٠
5m, 2m, Alarm panel)				
*Remote control Assy, B-type			-	1
(included: Engine stop solenoid, Wirehamess				
2m, Extension wireharness 5m)	_			
*Remote control Assy, C-type		-	-	1
(included: Remote control hjead NA12,				
Engine stop solenoid, Wireharness				
2m, Extension wireharness 5m)	-			
		-	-	-
*Remote control Assy, D-type				
(included: Remote control head NA12,				
Engine stop solenoid, Wireharness			-	1
5m, 2m, Alarm panel with				
Tachometer, Hour meter)				

Assy Name	8 <u>.</u>		s	A	B	С	D
Engine Speed	Remote control head	Model NA12 inc. Start, Stop, Kill & Tilt switch			-		4
Governor	Cable Br	the second se		*			4
Shift	Push pul cable	Local supply	-	-	-	-	
Steering	Handle	Local supply					t
Secong		(Connecting kit)	-	-	-	-	
Starting	Starter	Switch	-		1	1	ľ
Device	switch	inc. Handle: NA12	-	-	-	-	
Device	Relay	ine Hanone tyris	-	-	-		
Engine		op (Manual type)		F	-		
Stopping	the second se	stop cable, 7m	F		F		F
Device		top solenoid & Relay	-				
Kill-SW.		fle: NA12 (Electric)			Ē	Ĩ.	
Lube oil Alarm lamp	Equipped on Eng.				-	-	
Tachometer	sensor		-	-	. 4	-	ġ
Tilt SW.	inc. Han	dle: NA12	L.		-		1
Instrument panel	Type 2 panel	Bracket for engine stop knob and blind cover	+	*	-		
Alarm	Lamps	Overheat, L.O. pressure and dynamo charge					
panel	Buzzer Overheat L.O. pressure and dynamo charge		-				
	Tachome	ter and hour meter	+		-	-	1
		Engine side wireharness		-	-	1	
	Engine side	2m length, 1 pc. 2m length (Alarm), 1 pc.	4	•	•	+	
Wire-		2m length, 1 pc 2m length (Alarm), 1 pc.	Î		•	•	•
hamess	Panel side	5m, Type 2, 1 pc. 5m (Alarm), 1 pc.	1	*	-	-	1
		5m (Alarm), 2 pc.	-		-	-	1
	Exten-	5m, inc. Tilt extension 1 pc. 5m (Alarm), 1 pc.	4		*	*	4

Equipped on engine. A : In packing - : Not included





Yanmar D40

40HP, 3 cylinder diesel outboard engine, comes with 6 months fault free warranty, brand new fuel tank with hoses, fuel connectors and primary fuel pump. Also available in Tiller or RC versions, as well as L, LL and UL shaft lengths.

Configuration	4-cycle, vertical, water cooled diesel engine
Number of cylinders	3
Bore and stroke mm (in.)	82 x 70 (3.23 x 2.76)
Displacement cc (cu. in.)	1019 (68)
Maximum output hp(kW)/rpm at crankshaft	40hp/4500rpm (29.41kW/4500rpm)
Combustion system	Direct injection
Starting system	Electric with emergency rope start
Cooling system	Direct seawater cooling by rubber impeller pump
Lubrication system	Forced lubrication with trochoid pump
Generator	AC dynamo built in flywheel
Drive device	NF
Clutch type	Dog type clutch
Reduction ratio Ahead/Astern	1.846/1.846
Direction of rotation	Clockwise viewed from propeller
Lubrication system	Oil bath
Tilt up system	AX-E manual AX-EP hydraulic
Control device	
Engine speed control	Remote control
Clutch control	Remote control
Steering	Remote control
Transom installation	Through bolts with nuts
Fuel oil	Diesel fuel with kerosene (Add lube oil, 30:1)
Fuel oil capacity	l(cu.in) 24 (1465)
Lube oil Engine	SAE 15W40, API CD/
Drive	SAE 80W90, API Gear oil #90
Dry weight	

LL-type 117kgs (258lbs) 121kgs (267lbs)

UL-type 118kgs (260lbs) 122kgs (269lbs)



YANMAR DTORQUE DIESEL ENGINE 50HP

NEANDER DTORQUE.

THE FIRST TURBO DIESEL OUTBOARD WITH DUAL CRANKSHAFT.

The NEANDER Dtorque Turbo Diesel sets a new benchmark in diesel engineering, especially for outboard motors. Its 800cm³ twin-cylinder aluminium powerhead delivers a lusty 50hp at the propeller shaft. But what's more remarkable is its torque output. Peaking at 111Nm at 2,500rpm, that's more than the bestperforming 70hp 4-valve technology

electronic fuel injected four-stroke gasoline outboards on the market today.

This gives the Dtorque exceptional lugging ability as well as the ability to get onto the plane quickly, and both with modest fuel consumption. Here, it scores outstandingly. Expect little more than 10 to 12 litres per hour at full throttle



Counter-rotating crankshafts in the powerhead reduce noise and vibration to a minimum.



Low fuel consumption means less queuing for fuel.

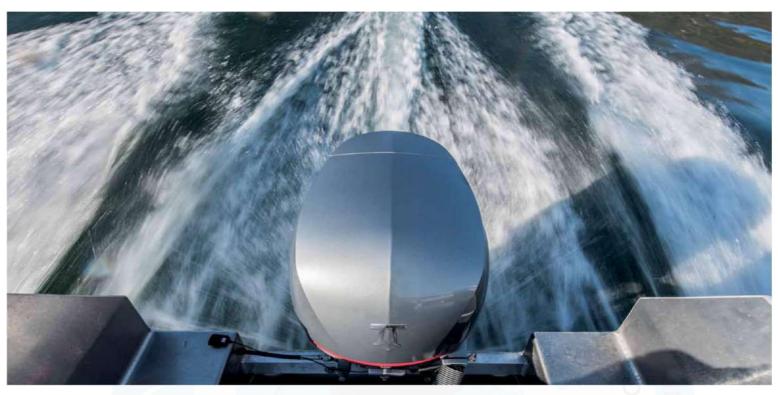


The kind of figure that a 70hp gasoline outboard would be returning at 2,000rpm before its steep climb towards 30 to 40 litres per hour flat-out at full load. (Source: magazine "boote") All this, as well as emissions well within the latest EU limits, is with state-of-theart common rail fuel injection (BOSCH), but NEANDER's unique innovation is its dual counter-rotating crankshaft design. By generating opposite forces, the two shafts cancel out most of the vibrations and moments around the steering axis that would otherwise make such a small and powerful twincylinder diesel outboard hard to handle





YANMAR DTORQUE DIESEL ENGINE 50HP





Gasoline outboards are for leisure use mainly. When you've got a serious job of work to do and need to put in a full shift day after day you need the hardworking dependability of a diesel engine.

Now operators of small workboats have that option in outboard form with the NEANDER Dtorque.



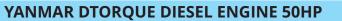
This compact unit is the only outboard in the mid- power range to offer all the advantages of stateofthe-art diesel engineering. The NEANDER Dtorque develops a creditable 50hp when you need a turn of speed, but it's the torque figure that matters most in the working environment. The delivery of a mighty 111Nm at 2,000-3,000rpm will get you quickly up onto the plane and also provide all the muscle you need when the boat is fully laden.



whether you are patrolling harbours, delivering supplies afloat, transferring personnel, or checking nets, NEANDER Dtorque is the strong, reliable work- horse you need for unwaveringly reliable perfor- mance, long range, and low operating costs time after time. But for a workhorse it is also remarkably refined. Its unique dual counter-rotating crankshaft engineering means ultra-low vibration and noise, so less fatigue for the user at the end of the working day. And less stress for the engine and its suspension as well.

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Queuing at the fuel pump can take up valuable working time, but the frugal diesel consumption of the NEANDER Dtorque means fewer refuelling stops and lower running costs than you would expect from most gasoline outboards of 60 or 70hp with lower torque output. Its fuel consumption peaks where the gasoline burners are just starting out. Then at full throttle 2.5 times more fuel is likely to be used by the gas outboards than the diesel fuel-sipping Dtorque

For most applications, with a NEANDER Dtorque on your transom you have all the benefits of less frequent visits to the pumps -- so less downtime, greater operational independence, more productive working hours and, when it comes to running costs, a better bottom line on the balance sheet at the end of the month.













For operational reasons in the great majority of work- boat applications, from fish farming to harbour patrol duties, offshore wind-turbine farms to charter services, the technical advantages of the Dtorque's advanced diesel engineering are clear. But for those working in environ- ments where fire is a real hazard, such as in the offshore oil industry, diesel has the added safety benefit of low flammability.

For its size, NEANDER's unique 800cm³ reciprocating two-cylinder diesel powerhead design produces an impressive 50hp. More important is its 111Nm torque output, which outstrips that of most of the latest 70hp gasoline outboards on the market. But what's most impressive is minimal vibration.

The secret behind that is the company patented 'Spaceball' design. The aluminium cylinder block houses dual crankshafts which rotate in opposite directions to absorb the considerable vibration that a conventional small two-cylinder diesel engine would normally generate.

For the user, the benefits are immediately apparent. Less vibration, less noise, and lighter boat handling without having to continually wrestle with the tiller to correct for torque steering all mean less operator fatigue - and less stress on the engine.

The engineering refinement doesn't end there. Common-rail fuel injection -- rare indeed in diesel engines as small as this one -- and turbocharging with integrated charge air cooling are just two of a list of features which contribute to perfor- mance, fuel saving and lower emissions.

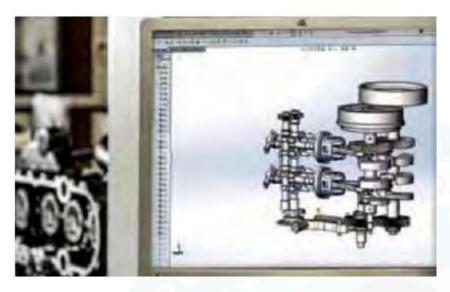
That's just one good reason why gasoline is seldom carried on most large seagoing vessels. In the wider picture, diesel is always the sensible propulsion option for tenders to run and collect crew, passengers, and goods ashore where docking is not always practical, for example with cruise ships and mega-yachts.

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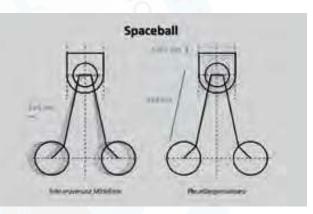


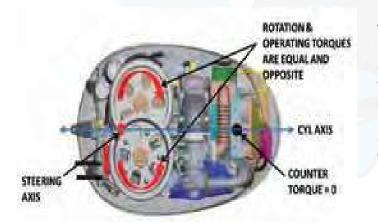




All of the moving parts of the vertically-mounted Dtorque engine are clearly seen in this CADCAM screen display. Central to the assembly are the dual crankshafts with their miniature counterrotating flywheels. Light weight connecting rods are connected to crankshafts by two inline pistons, while aspiration is provided by four camshaft-driven valves per cylinder.

This two-dimensional diagram shows clearly how the two reciprocating pistons complement each other at the full extent of their up and down strokes. It may look simple, but the asymmetric engine cycle with its short compression stroke, longer intake stroke and shorter expansion stroke required particular attention from the NEANDER Dtorque engineering design team. The benefit, however, is improved thermal efficiency with an extended piston work stroke.





This two-dimensional diagram shows clearly how the two reciprocating pistons complement each other at the full extent of their up and down strokes. It may look simple, but the asymmetric engine cycle with its short compression stroke, longer intake stroke and shorter expansion stroke required particular attention from the NEANDER Dtorque engineering design team. The benefit, however, is improved thermal efficiency with an extended piston work stroke.



YANMAR DTORQUE DIESEL ENGINE 50HP

ENGINE SPECS	
Power	36,8 kW/50 hp at 3.500 - 4.000 min-1
Max. Torque	111 Nm at 2000 - 3000 min-1
Engine Type	4-Stroke turbo diesel
Balance	Dual counter-rotation crankshafts
Swept Volume	804 ccm
Bore x Stroke	80 x 80 mm
No. Cylinders	2 In-Line, twin
Intake	Water cooled turbo charger and charge air cooling
	Integrated dry sump – pressure lubricated
Lubrication	Diesel
FuelInjection	Bosch common rail direct injection
Starting	Electric
Alternator	Standard 12 V/300 W
Cooling	NEANDER Active Thermo-Management
Exhaust	System (ATMS)
Steering	Integrated underwater thru-hub propeller
Suspension	Tiller / remote control, optional
	Silent-block-controlled compression and traction
Trim	Power trim
Transmission	Mechanical – dog-clutch gearing
Available Shaft	Ratio 13/27 (2.07:1)
Standard Propeller	Versions 20" and 25"
Туре	3-blade with built-in damper
Weight	Basic Version 175 kg (dry)





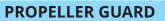


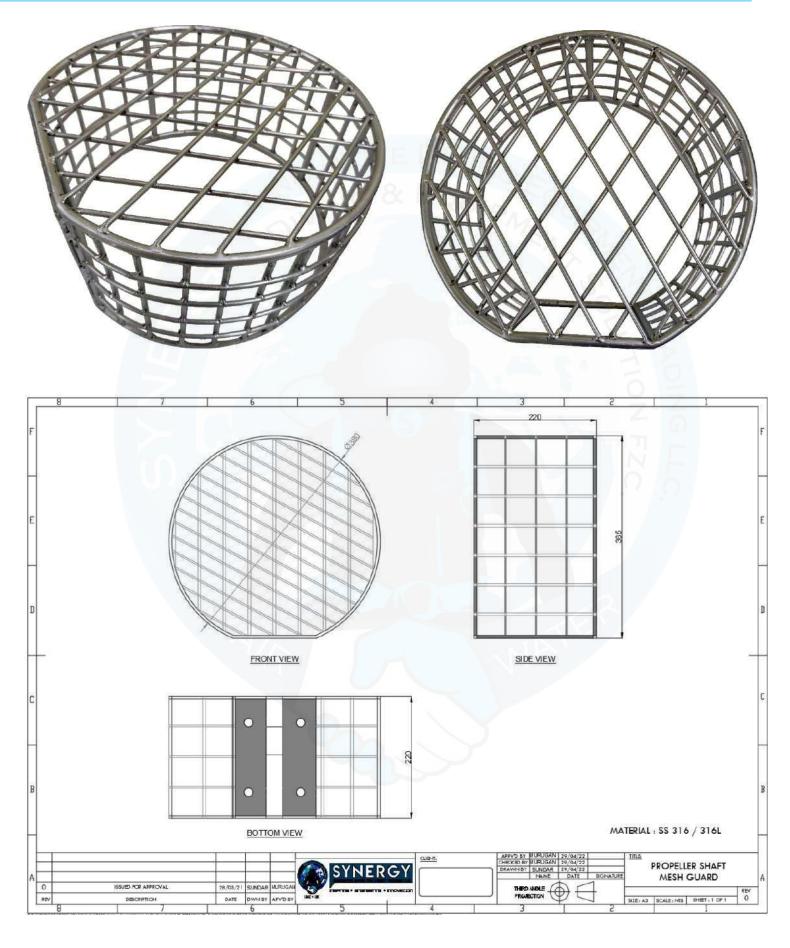




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ORDERING INFORMATION

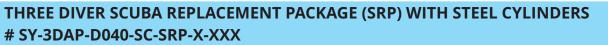
Sr.	Part Number	Description
1	SY-2DAP-D040-SCSRP-X-XXX	Two diver scuba replacement panel with ss frame, emergency panel, 4 x 50 ltr x 200
		bar breathing air steel cylinders, all plumbing with fittings , valves, hoses to connect
		from cylinders to diving panel (diving panel not included, please choose from panel
		options below)

Sr.	Part Number	Description
1	SY-2DAP-INSHORE-SF	Portable two diver panel, inshore use only, side inlet and outlet fittings
2	SY-2DAP-INSHORE-BF	Portable two diver panel, inshore use only, back inlet and outlet fittings
3	SY-2DAP-D040-SF	Portable two diver panel, offshore, imca (no radio, no diver cctv), side inlet and outlet fittings
4	SY-2DAP-D040-BF	Portable two diver panel, offshore, imca (no radio, no diver cctv), back inlet and outlet fittings
5	SY-2DAP-D040-R-SF	Portable two diver panel, offshore, imca with radio (no diver cctv), side inlet and outlet fittings
6	SY-2DAP-D040-R-BF	Portable two diver panel, offshore, imca with radio (no diver cctv), back inlet and outlet fittings
7	SY-2DAP-D040-R-1DV-SF	Portable two diver panel, offshore, imca with radio and diver 1 cctv, side inlet and outlet fittings
8	SY-2DAP-D040-R-1DV-BF	Portable two diver panel , offshore, imca with radio and diver 1 cctv, back inlet and outlet fittings
9	SY-2DAP-D040-R-2DV-SF	Portable two diver panel, offshore, imca with radio and diver 1 and diver 2 cctv, side inlet and outlet fittings
10	SY-2DAP-D040-R-2DV-BF	Portable two diver panel, offshore, imca with radio and diver 1 and diver 2 cctv, back inlet and outlet fittings

Sr.	Part Number	Description
1	SY-2820A-11	Amcom ii two-diver rechargeable basic portable communicator
2	SY-UDA-0204	4 core Umbilical air/gas, pneumo, communication and video cables
3	SY-UDA-0103	3 core Umbilical air/gas, pneumo, communication
4	SY-ORANGESHEATH	Full braided protective outer sheath (for complete protection of umblicals)
5	SY-SPIRAL WRAP	Spiral wrap (in 10 mtr lengths) (for umblical protection)
	Fittings as below	
6	SY-386-PB-AIR	3/8"x 6 jic phosphor bronze reusable umbilical air/gas hose end fitting
7	SY-144-PB-PNEUMO	1/4" x 4 jic phosphor bronze reusable umbilical pneumo end fitting
8	SY-RMG-3-FS	Marsh marine, 3 pin, Female, 18"
9	SY-BANPLUGS-TWIN	Twin banana plugs surface communication end fitting (Red/Black)
10	SY-RMK-5-FS	Marsh marine, 5 pin, female, 18"
11	SY-K-FLS-D	Locking sleeve, delrin , for RMK-5-FS
12	SY-RMG-3-FS	Marsh marine, 3 pin, female, 18"
13	SY-G-FLS-D	Locking sleeve, delrin, for RMG-3-FS
14	SY- MS3108B-18-08P	Cannon right angle amphenol connector is used for connecting the
		Surface end of the video camera umbilical to the surface video console unit

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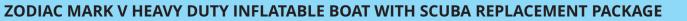
Sr.	Part Number	Description
1	SY-3DAP-D040-SC-SRPX-XXX	Three diver scuba replacement panel with ss frame, emergency panel, 6 x 50 ltr x 200
		bar breathing air steel cylinders, all plumbing with fittings , valves, hoses to connect
		from cylinders to diving panel (diving panel not included, please choose from panel
		options below)

Sr.	Part Number	Description
1	SY-3DAP-D040-SF	Portable three diver panel, offshore, imca (no radio, no diver cctv), side inlet and outlet fittings
2	SY-3DAP-D040-BF	Portable three diver panel, offshore, imca (no radio, no diver cctv), back inlet and outlet fittings
3	SY-3DAP-D040-R-SF	Portable three diver panel, offshore, imca with radio (no diver cctv), side inlet and outlet fittings
4	SY-3DAP-D040-R-BF	Portable three diver panel, offshore, imca with radio (no diver cctv), back inlet and outlet fittings
5	SY-3DAP-D040-R-1DV-SF	Portable three diver panel , offshore, imca with radio and diver 1 cctv, side inlet and outlet fittings
6	SY-3DAP-D040-R-1DV-BF	Portable three diver panel , offshore, imca with radio and diver 1 cctv, back inlet and outlet fittings
7	SY-3DAP-D040-R-2DV-SF	Portable three diver panel, offshore, imca with radio and diver 1 and diver 2 cctv, side inlet and outlet fittings
8	SY-3DAP-D040-R-2DV-BF	Portable three diver panel, offshore, imca with radio and diver 1 and diver 2 cctv, back inlet and outlet fittings

Sr.	Part Number	Description
1	SY-2830A-11	Amcom iii three-diver rechargeable basic portable communicator
2	SY-UDA-0204	4 core Umbilical air/gas, pneumo, communication and video cables
3	SY-UDA-0103	3 core Umbilical air/gas, pneumo, communication
4	SY-ORANGESHEATH	Full braided protective outer sheath (for complete protection of umblicals)
5	SY-SPIRAL WRAP	Spiral wrap (in 10 mtr lengths) (for umblical protection)
	Fittings as below	
6	SY-386-PB-AIR	3/8"x 6 jic phosphor bronze reusable umbilical air/gas hose end fitting
7	SY-144-PB-PNEUMO	1/4" x 4 jic phosphor bronze reusable umbilical pneumo end fitting
8	SY-RMG-3-FS	Marsh marine, 3 pin, Female, 18"
9	SY-BANPLUGS-TWIN	Twin banana plugs surface communication end fitting (Red/Black)
10	SY-RMK-5-FS	Marsh marine, 5 pin, female, 18"
11	SY-K-FLS-D	Locking sleeve, delrin , for RMK-5-FS
12	SY-RMG-3-FS	Marsh marine, 3 pin, female, 18"
13	SY-G-FLS-D	Locking sleeve, delrin, for RMG-3-FS
14	SY- MS3108B-18-08P	Cannon right angle amphenol connector is used for connecting the
		Surface end of the video camera umbilical to the surface video console unit

BESPOKE DESIGNS - ANY CONFIGURATION AS PER CLIENT REQUIREMENT





Contact us



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