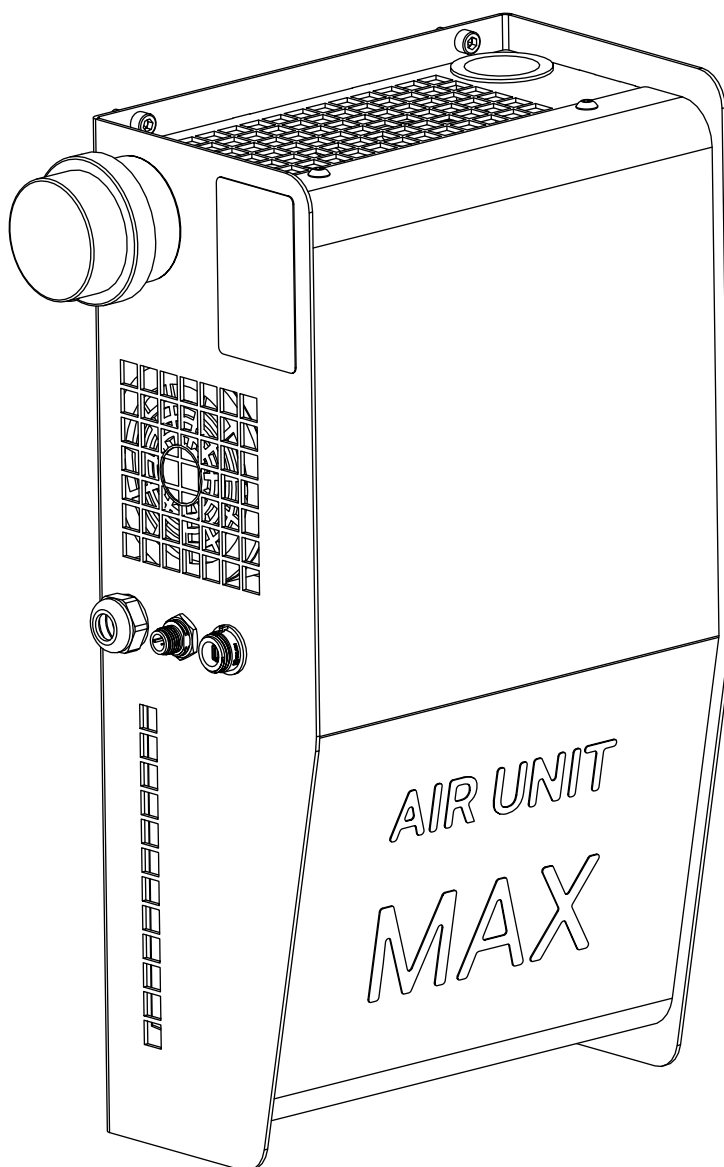


# INSTALLATION MANUAL



NMEA 2000  
NMEA 0183

**AIR UNIT MAX** (with FX SERIES)

## **Disclaimer**

The interceptor units are also steering equipment and it is the sole responsibility of the navigator-operator to ensure that, at any point, any problem that will alter the boat's course, rising from malfunction of interceptors, should be dealt immediately by the operator. At no circumstances, fault of our interceptor equipment leading to any kind of accident, creates liability for the manufacturer.

## **Trademark Notice**

Hydrotab is a registered trademark of Olympic Engineering Ltd, Greece. All other trademarks, trade names or company names referenced herein are used for identification only and are property of their respective owners.

## **Patent Notice**

The Hydrotab products are protected by patents and industrial design patents, patents pending or design patents pending.

## **Declaration of conformity**

This product conforms to the following Electromagnetic Compatibility (EMC) regulations and standards for use in marine environments.

CE EN 60945

## **Technical information and Documentation**

The technical information provided in this document was accurate and correct at the corresponding production time of the Hydrotab interceptors. Our operating principal for improving the manufactured product, may lead to changes regarding its specifications without prior notice. Liability will not be accepted for any inaccuracy considering the product and the user manual.

## **Fair use statement**

This manual can be printed or copied for your own use only. Copies should not be provided to third parties and manual should not be commercialized.

## **Product Disposal**

Waste removal of this product must be according to the Waste Electrical and Electronic Equipment (WEEE) Directive.

## **Product Registration**

Please register your product online in order the warranty to be valid.

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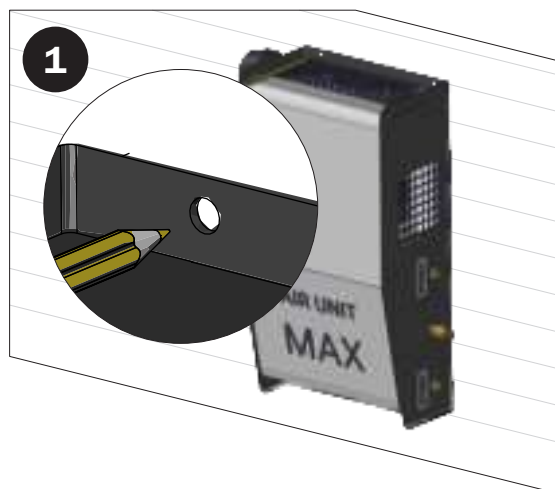
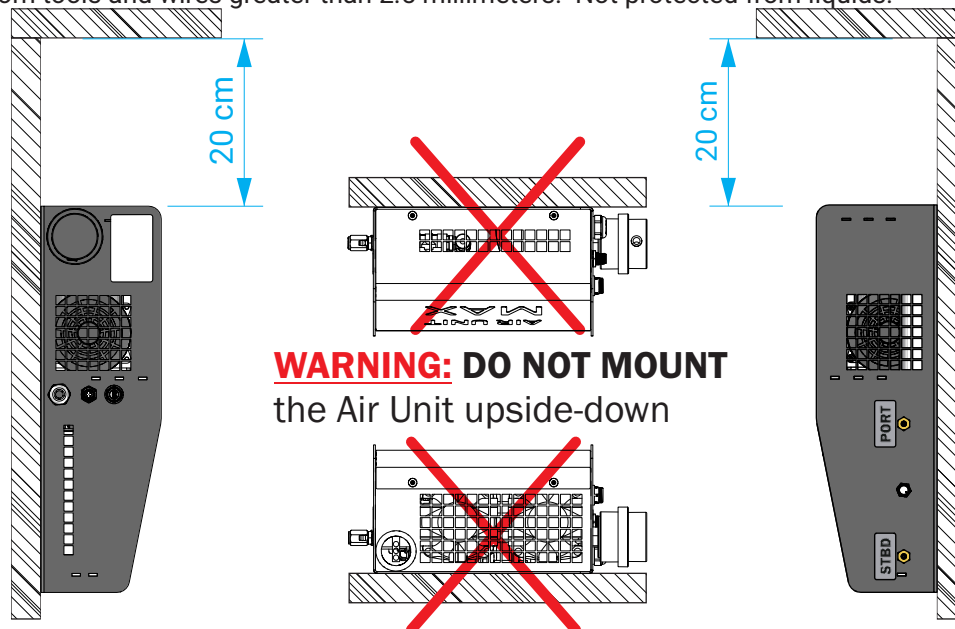
## Air Unit Max Installation

**WARNING:** THE AIR UNIT MUST BE INSTALLED IN A COMPARTMENT **FREE OF EXPLOSIVE OR FLAMMABLE GASES.**

**WARNING:** THE AIR UNIT MUST BE INSTALLED 20cm BELOW ANY SURFACE THAT LOCATES ABOVE IT.

**WARNING:** PLEASE INSURE THAT THE AIR UNIT IS INSTALLED **ACCORDING TO THE IP30 LIMITATIONS.**

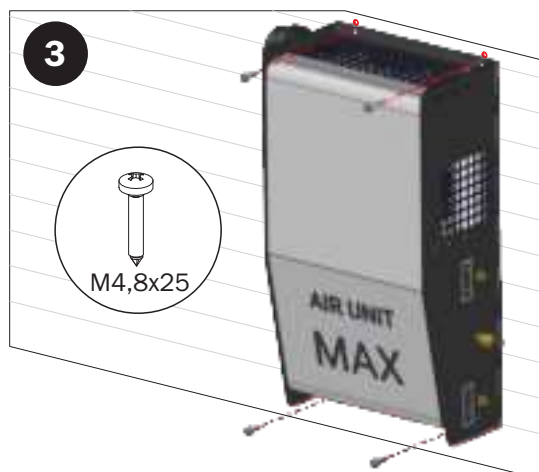
**IP30:** Protected from tools and wires greater than 2.5 millimeters. Not protected from liquids.



**Fig.1:** Find a clear surface, place the Air Unit Max, and mark the holes with a pencil.

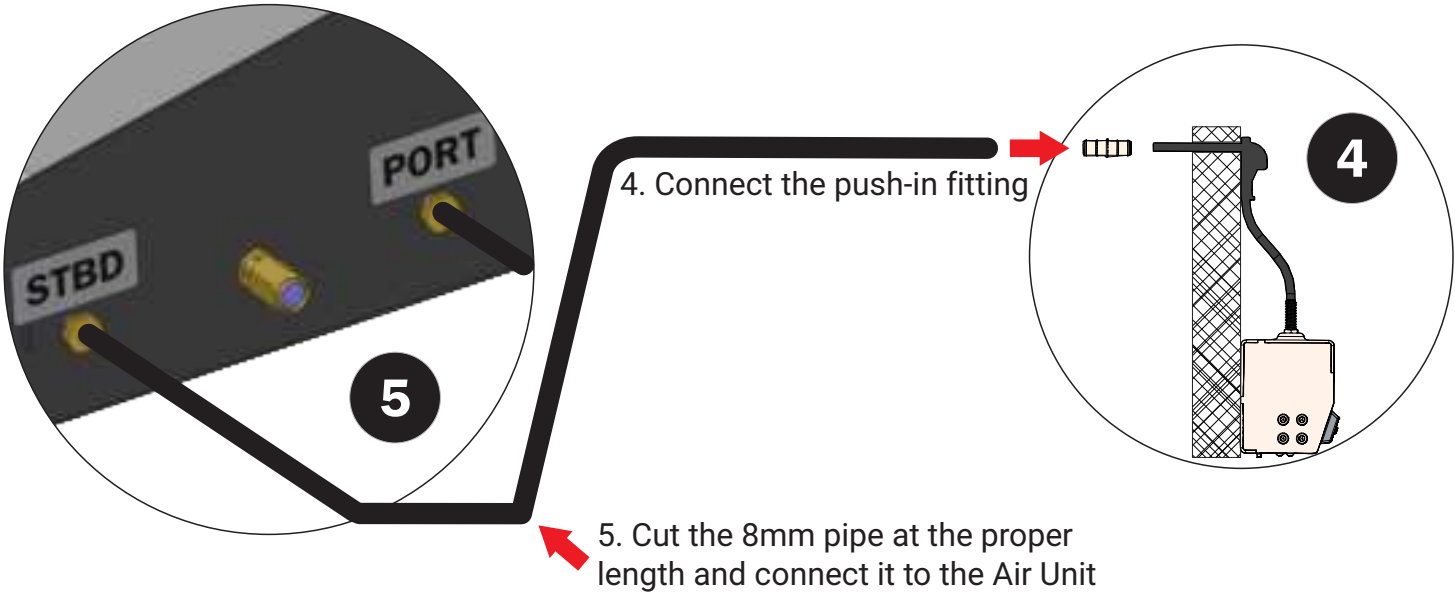


**Fig.2:** Make holes with Ø3 drill.

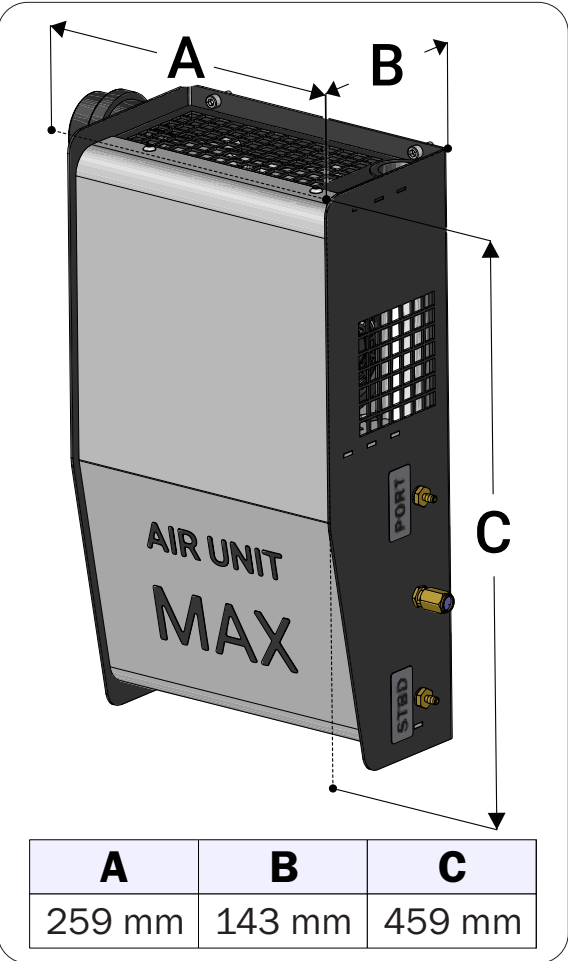


**Fig.3:** Mount the Air Unit Max with the given screws.

# Pneumatic Connection

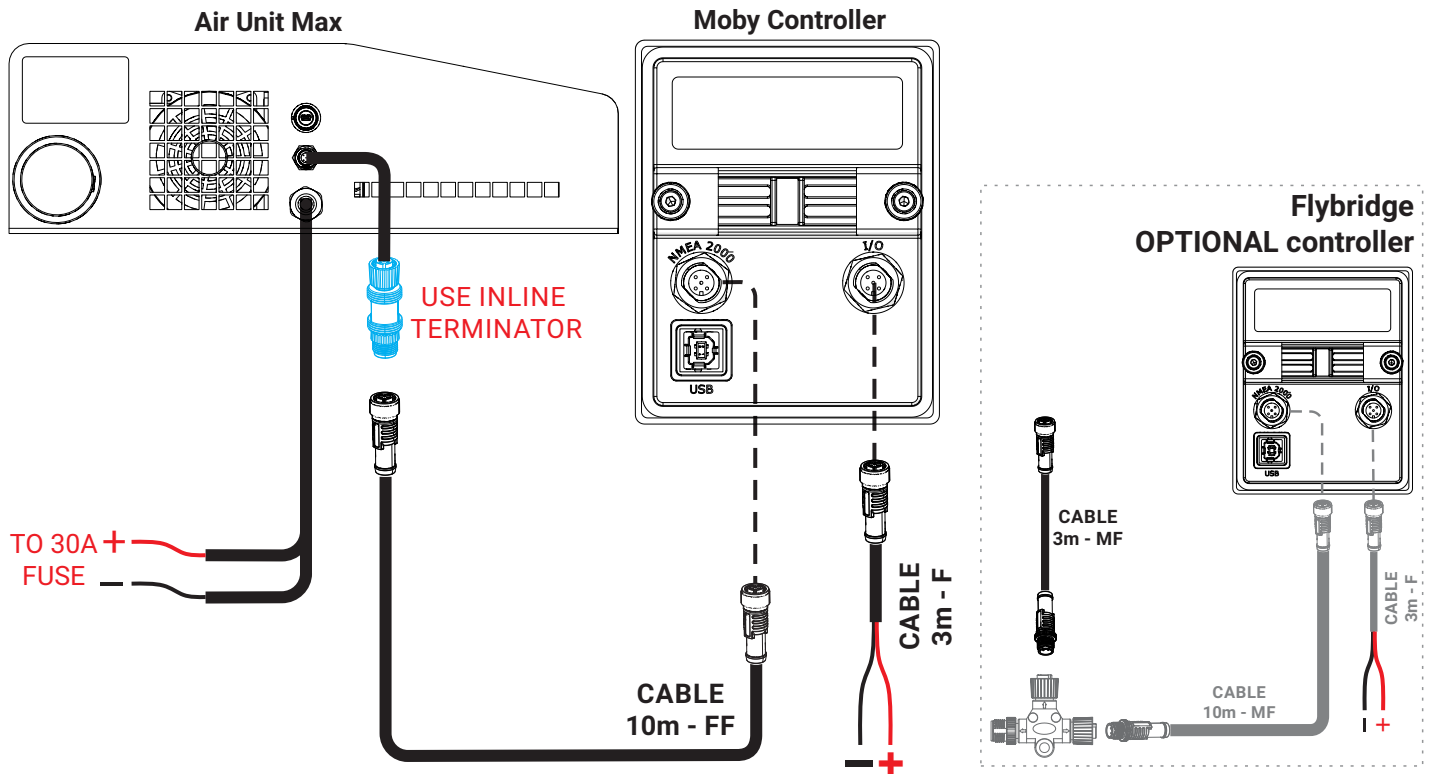


## Technical Data & Dimensions



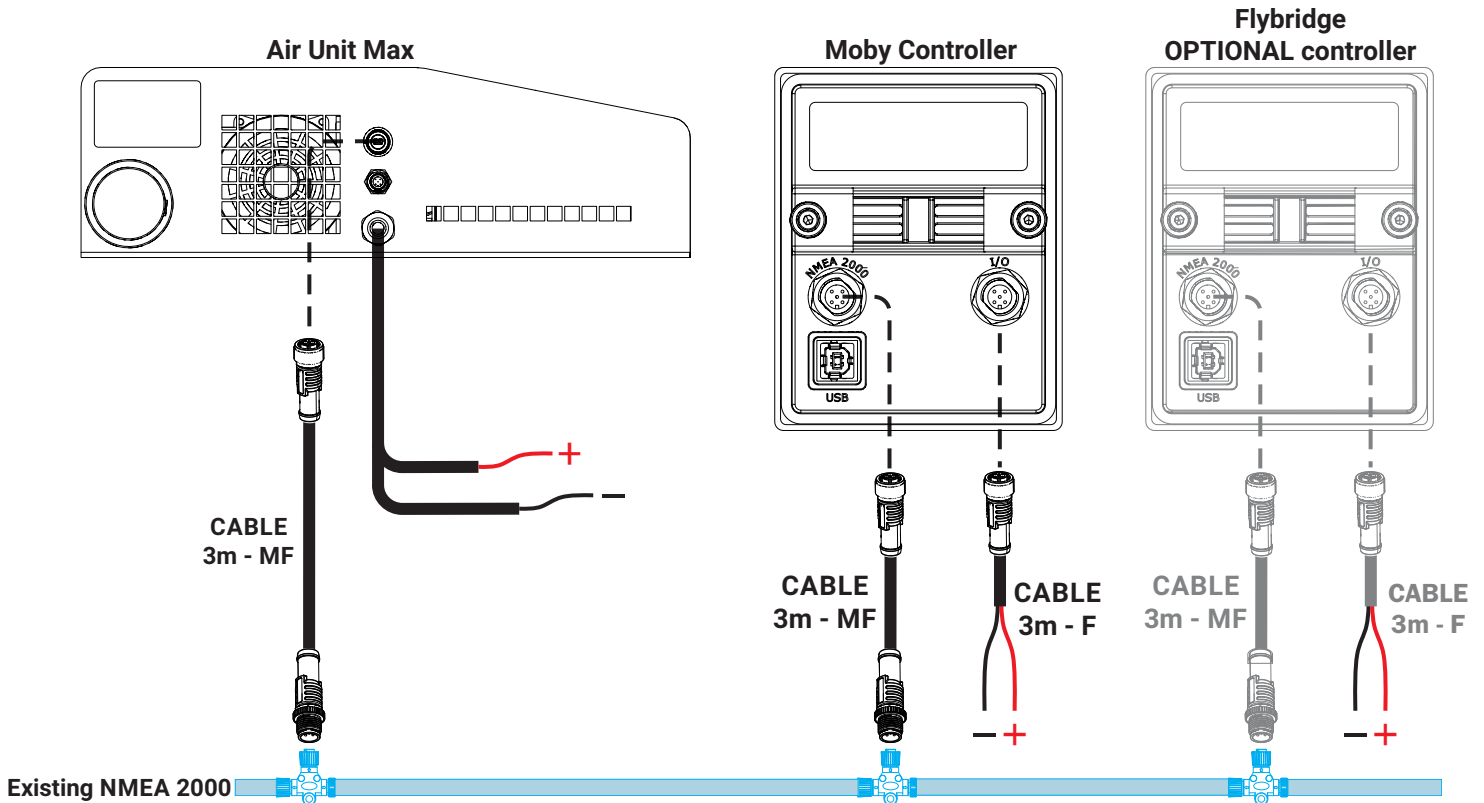
Air Unit Max DataSheet	
Compressor power	380 W
Air compressor type	Brushless, oil-free
Voltage	24 V
Amps	15 A
In Line Fuse	30 A
Max pressure	3 bar

## Direct Installation Diagram

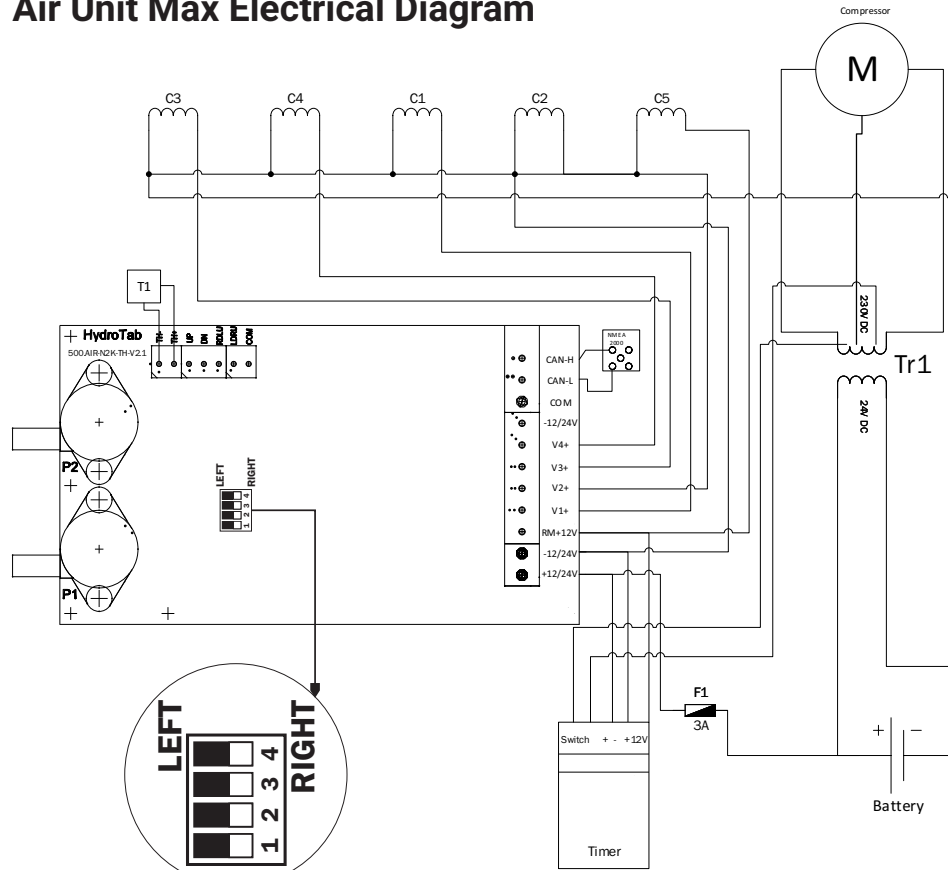


In case a new NMEA 2000 instrument to be added, a proper NMEA Network must be built.

## Installation diagram on existing NMEA Network

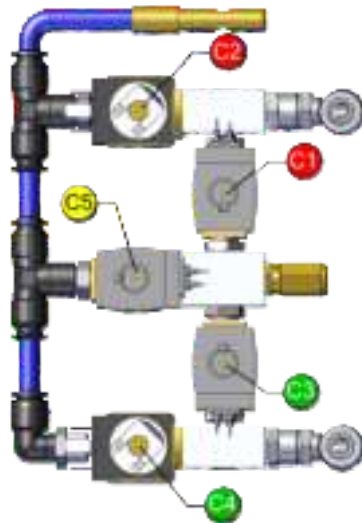


## Air Unit Max Electrical Diagram

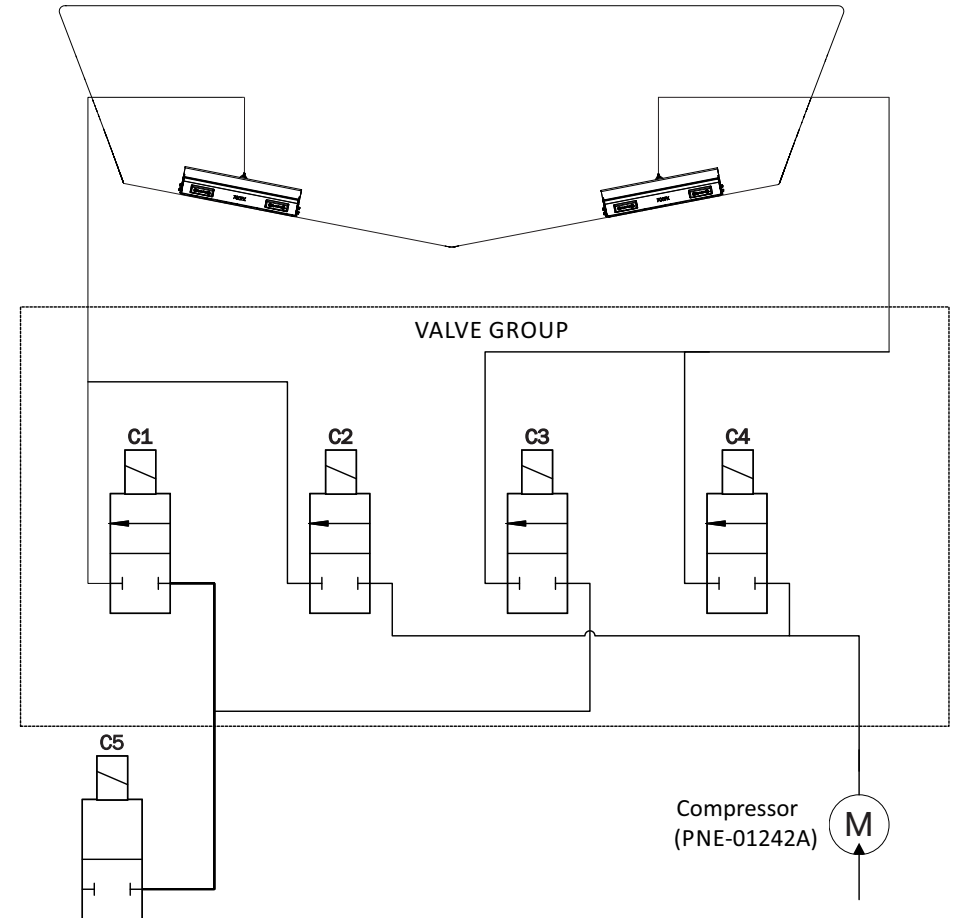


**IMPORTANT:**  
THE SWITCHES MUST BE STRICTLY SET  
AS SHOWN (DIP1, DIP2, DIP3, DIP4 RIGHT)

- Port Valves
- Starboard Valves
- Exhaust Valve

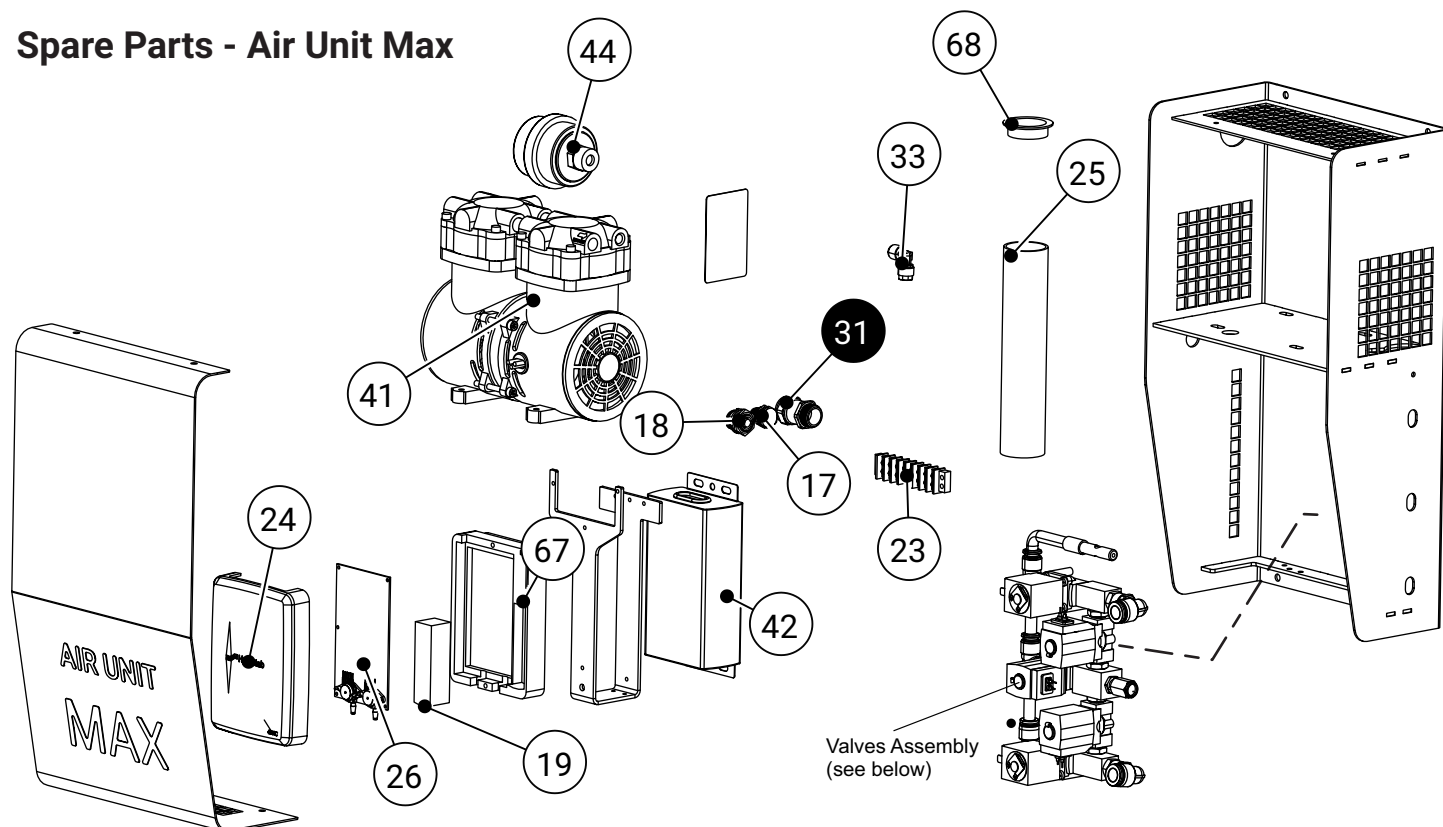


## Air Unit Max Pneumatic Diagram



SYMBOL	Part No	Description
C1, C3	PNE-01202	SOLENOIDS 24V
C2, C4	PNE-01196	SOLENOIDS 24V
C5	PNE-01243	EXHAUST SOLENOID 12V
PCB	PCB-00029	AIR-N2K
TIMER	ELE-00698	ELECTRONIC DELAY
M	PNE-01242A	BRACELESS COMPRESSOR, 380W
T1	ELE-00550	THERMISTOR
NMEA 2000	ELE-00535	NMEA 5-POLE CABLE
F1	ELE-00701	CYLIDRICAL FUSE 3A

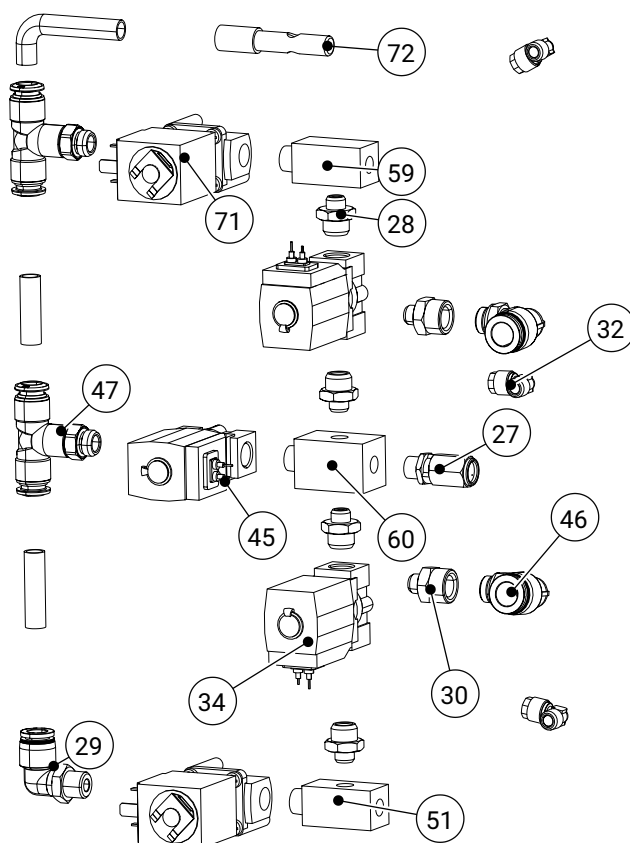
## Spare Parts - Air Unit Max



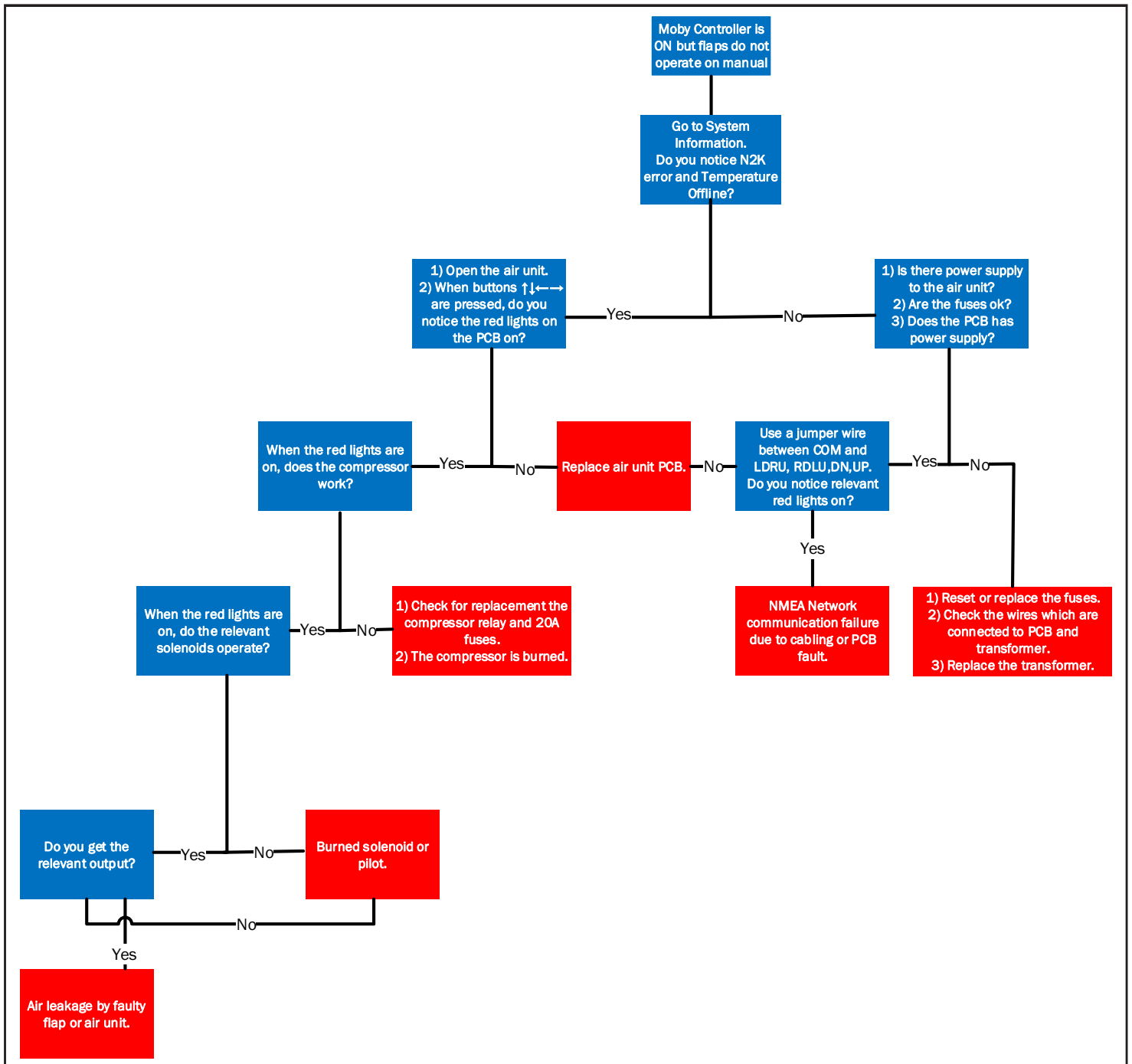
BOM ID	PartNo	Description	QTY.	BOM ID	PartNo	Description	QTY.
17	ELE-00535	M12, 5PIN PCB MALE CONNECTOR	1	31	ELE-00057	CABLE GLAND PG13.5	1
18	ELE-00647	MINI USB PORT, FEMALE	1	33	PNE-00633	ELBOW MALE ADAPTOR, 1/4-8/6	1
19	ELE-00698	RELAY TIMER	1	41	PNE-01242A	COMPRESSOR, BST300	1
23	ELE-00707A	TERMINAL BLOCK 20A	1	42	PNE-01242B	TRANSFORMER	1
24	GEN-00405	4DHC CONTROLLER COVER	1	44	PNE-01242C	FILTER (1/2")	1
25	GEN-00529	AIR UNIT MAX VENTOURI TUBE	1	67	RUB-00162	PCB RUBBER BASE	1
26	PCB-00029	PCB FOR NMEA 2000 SYSTEM	1	68	RUB-00163	VENTOURI RUBBER SUPPORT	1

## Spare Parts - Valves Assembly

BOM ID	PartNo	Description	QTY.
27	PNE-00092	SAFETY VALVE, 1/8	1
28	PNE-00101	NIPPLE, TAPER, 1/4 (M) - 1/8 (M)	4
29	PNE-00136	FITTING, ELBOW, $\Phi$ 10-1/4	1
30	PNE-00188	REDUCER (TAPER) 1/8-1/4	2
32	PNE-00222	ELBOW MALE ADAPTOR 6/4-1/8	3
34	PNE-01202	FLUID CONTROL VALVE NC 1/4 $\Phi$ 8 24VDC	2
45	PNE-01243	FLUID CONTROL VALVE NC 1/4 12VDC	1
46	PNE-01292	FITTING, ANGLE, 1/4-F12	2
47	PNE-01298	TEE MALE ADAPTOR $\Phi$ 10-1/4	2
51	REV-00583	20x20 FITTING ADAPTER 1/4, CUSTOM	1
59	REV-00584	20x20 FITTING ADAPTER 1/4, CUSTOM	1
60	REV-00585	25x25 FITTING ADAPTER 1/4, CUSTOM	1
71	PNE-01196	VALVE 1/4 V24/DC	2
72	REV-00614	VENTURI MANIFOLD	1



## Troubleshooting



### **Warranty conditions**

FW, TS and BT Series Interceptor units (and not complete systems) are covered by a 5-year Warranty.  
SR Series Interceptor units (and not complete systems) are covered by a 2-year Warranty.  
Recoil springs, electrical/electronic parts and devices come with a 2-year warranty.  
Anodes (consumables) are not included in the warranty (for BT, FW, TS Series).  
Hydrotab's warranty only covers the repair or replacement of spare parts.

### **System selections**

It is the sole responsibility of the buyer to choose the correct system and even with Hydrotab's suggestion for a system, the overall responsibility is with the buyer.

### **Limited warranty**

Provided that the system has been installed in accordance with the installation manual we provide, and no damage has been caused due to improper handling or practices, Hydrotab will replace any defective parts or parts that failed due to improper manufacturing within the applicable warranty period.  
Hydrotab only covers the parts' replacement. Fitting or shipping costs are not covered by warranty.  
Hydrotab will select if we will repair or replace any given part.  
Repaired or replaced products will assume the remainder of the warranty time and under no conditions will the full time of warranty be renewed.

### **Limited warranty periods**

Limited warranty period is two years (2 years) from the product shipment from our premises.

### **Extended limited warranty period**

It is provided in case:

- a) Hydrotab trim system is included as equipment of a newly purchased boat directly by from the boat-builder or his reseller.
- b) Hydrotab trim system has been purchased through a Hydrotab dealer.

The extended limited warranty period is valid for three (3) years from the shipping date, provided that the customer has downloaded, completed and submitted the online registration form within one month (30) days from the purchase in the following url.

<https://www.hydrotab.gr/product-registration>

In case the dealer sells separate units of Interceptors, Air Units and Controllers that constitute a full system that is not initially sold (as a complete system) by Hydrotab, the dealer has the responsibility to provide the separate Serial Numbers for the Interceptors, Air Units and Controllers and guide the end user for the proper registration of his serial numbers for the extended warranty to be valid.

The authorized dealer is responsible for the product's service.

For any services or spare parts requirements and replacements during warranty period, the original invoice is necessary to be presented.

For the replacement of any part of the system (interceptors, Air Unit, any controller etc.) under warranty, the replaced parts must be returned to Hydrotab Marine Engineering for inspection, otherwise warranty is not valid.  
Cost of dismantling - assembly and spare parts transportation is borne by the user.

The warranty does not foresee, under any circumstances, replacement of the whole Hydrotab system.

### **What is not covered by the warranty:**

Damage caused by the lack or non-replacement of worn anodes (for BT, FW, TS Series).  
Damage caused by improper installation and use not consistent with the manual.  
Damage with external visible deformation of the product caused by misuse of the user or other external causes.  
Damage to any component caused during transportation, installation or repair from non-authorized personnel.  
Conversions or modifications made after the initial sale.

N. Triantafyllis Ltd (Hydrotab Marine Engineering) is not liable for any incidental, indirect or consequential damages or losses, including, without limitation: travel expenses, transport, lifting and hauling, costs, loss of income, loss of time, loss of property, loss of profits, personal injury or damage of any products, different from those that the company distributes. Any further (except the above mentioned) commitment of the intermediate dealer regarding the sale terms or servicing of Hydrotab products does not create any liability of our company.



Marine Engineering

## Registration



[www.hydrotab.gr/product-registration](http://www.hydrotab.gr/product-registration)

Congratulations for your  
new Hydrotab system!

Please register to activate the  
extended limited warranty



