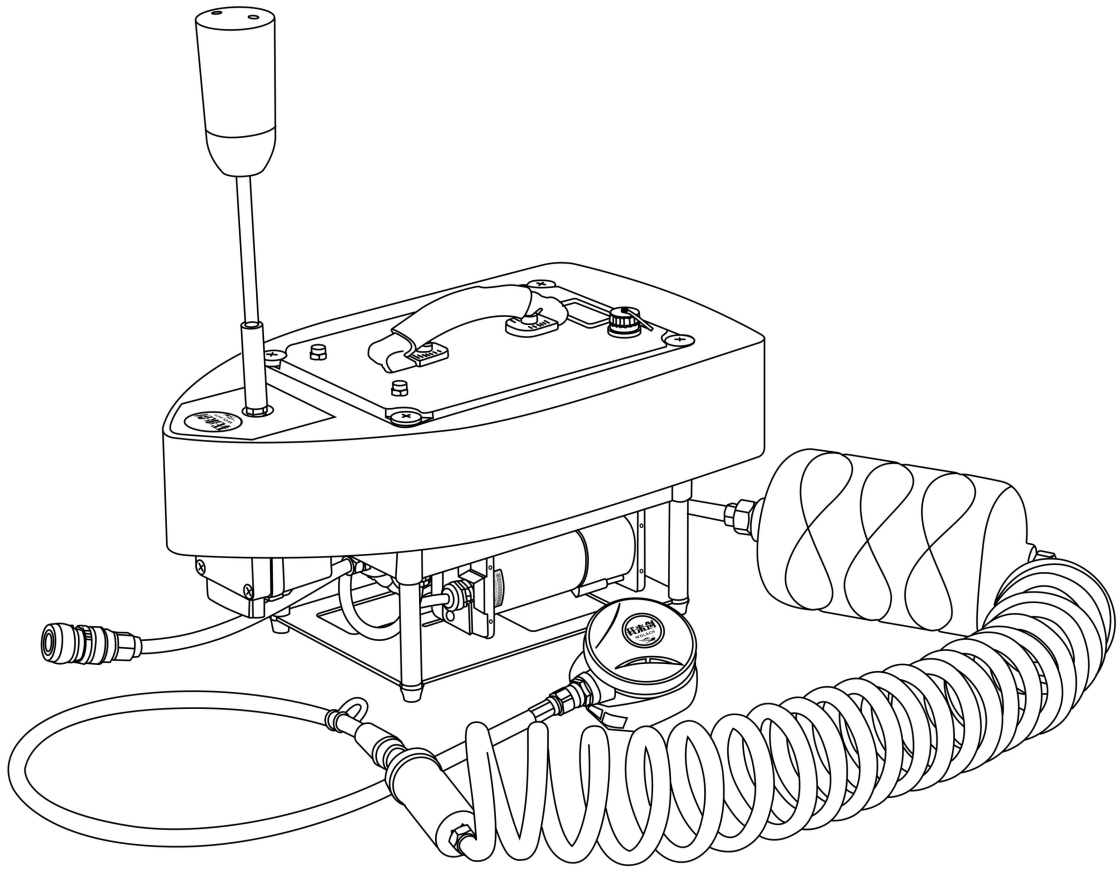


User Manual of Hookah Dive Equipment

Smart Hookah Dive Equipment Creator



Thank you for purchasing our hookah dive equipment. Please read this manual carefully before using it and ensure proper storage for future reference. The use of this product shall comply with SCUBA diving regulations and standards at all times.

Contents

Dear Users,

Please read this operating manual carefully before use to help you use and care for your diving equipment more effectively and keep it in a safe place for future use.

This manual consists of: important reminders, safety instructions, packing list, product overview, operation instructions, cleaning and maintenance, etc.

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I. Critical Reminders

- ◆ When you receive this product, please check the quantity of the product according to the packing list in the operating manual.
- ◆ This product is strictly prohibited from heat sources and should be kept at a safe distance of 5 meters or more away from the heat source.
- ◆ Person under 18 are prohibited from using this diving equipment.
- ◆ Do not block the air intake of the snorkel while it is under using.
- ◆ This product reduce temperature through water cooling, strictly forbid the land start machine time exceed 1 minute.
- ◆ Do not place this product next to flammable and explosive substances (e.g. alcohol, petrol, etc.).
- ◆ The diving equipment should not be used to suspend heavy objects and should not be used as personal buoyancy dependence.
- ◆ Need hold the diving certification or license when use this product.
- ◆ The draft line of diving equipment must not exceed the upper plane of pontoon.
- ◆ The air intake can't has entered water or other foreign objects.
- ◆ Must carry a diving computer while diving.

II. Safety Instructions

To reduce the risk of electric shock, injury, damage and property damage, it is important to observe the following safety precautions.

Marks description

The following marks are used to classify and describe the degree of danger, injury and property damage that can result from disregarding the marks descriptions and from improper use.

 Dangers A potential danger that may lead to serious injury or death.
 Warning Use to remind users the forbid operating steps.
 Attention Operating regulations that must be observed.

Dangers

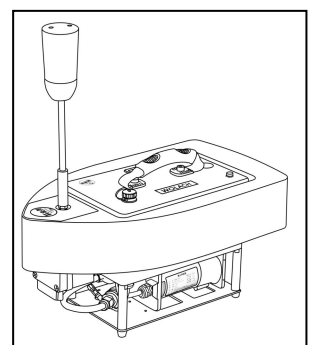
- ☒ There is high pressure in the diving equipment and it is strictly forbidden to open the inside of the equipment for non-professional maintenance personnel!
- ☒ The diving equipment weighted belt used for diving must not be tied in a knot!
- ☒ The spring tube of the diving equipment must not be killed or bent while diving!

Warning

- ❖ It is strictly forbidden to place the diving equipment near the heat source.
- ❖ It is strictly forbidden to pour any liquid or solid impurities into the air intake.
- ❖ It is strictly forbidden to block the air intake of diving equipment when using.
- ❖ It is strictly forbidden to charge the diving equipment for more than 15 hours.
- ❖ It is strictly forbidden to work the submersible respirator for more than 1 minute without flooding the air pump.
- ❖ It is strictly forbidden to charge the diving equipment in overheated environment.
- ❖ It is strictly forbidden to use the diving equipment in thunderstorm weather.
- ❖ It is strictly forbidden to use diving equipment in case of failure or suspected failure.
- ❖ It is strictly forbidden to use diving equipment in the environment of rocks, wind and waves and current.
- ❖ It is strictly forbidden for those who can't swim to use this diving equipment.

Attention

- After installation you need to test it as specified, if it does not work properly, please contact customer service.
- When the diving equipment works, the air intake must not be exposed, and the air intake pipe and air filter must be installed.
- When using diving equipment, please abide by the diving companion system and avoid diving alone.



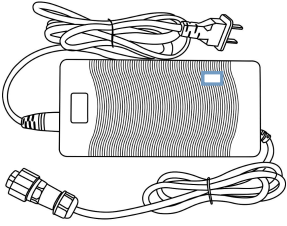
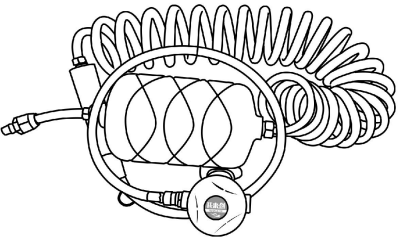
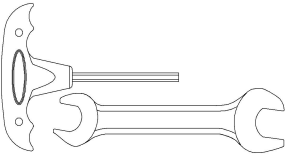
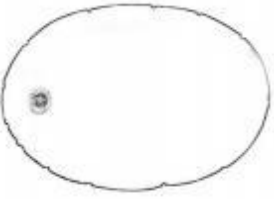
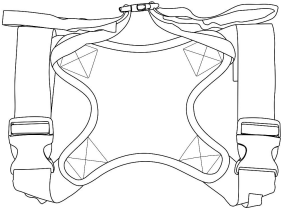
Install the air intake before diving

Please cherish our living environment. Used machines can be transformed into reusable materials. Let's join hands to handle them properly or recycle them, contributing to environmental protection.

III. Packing List

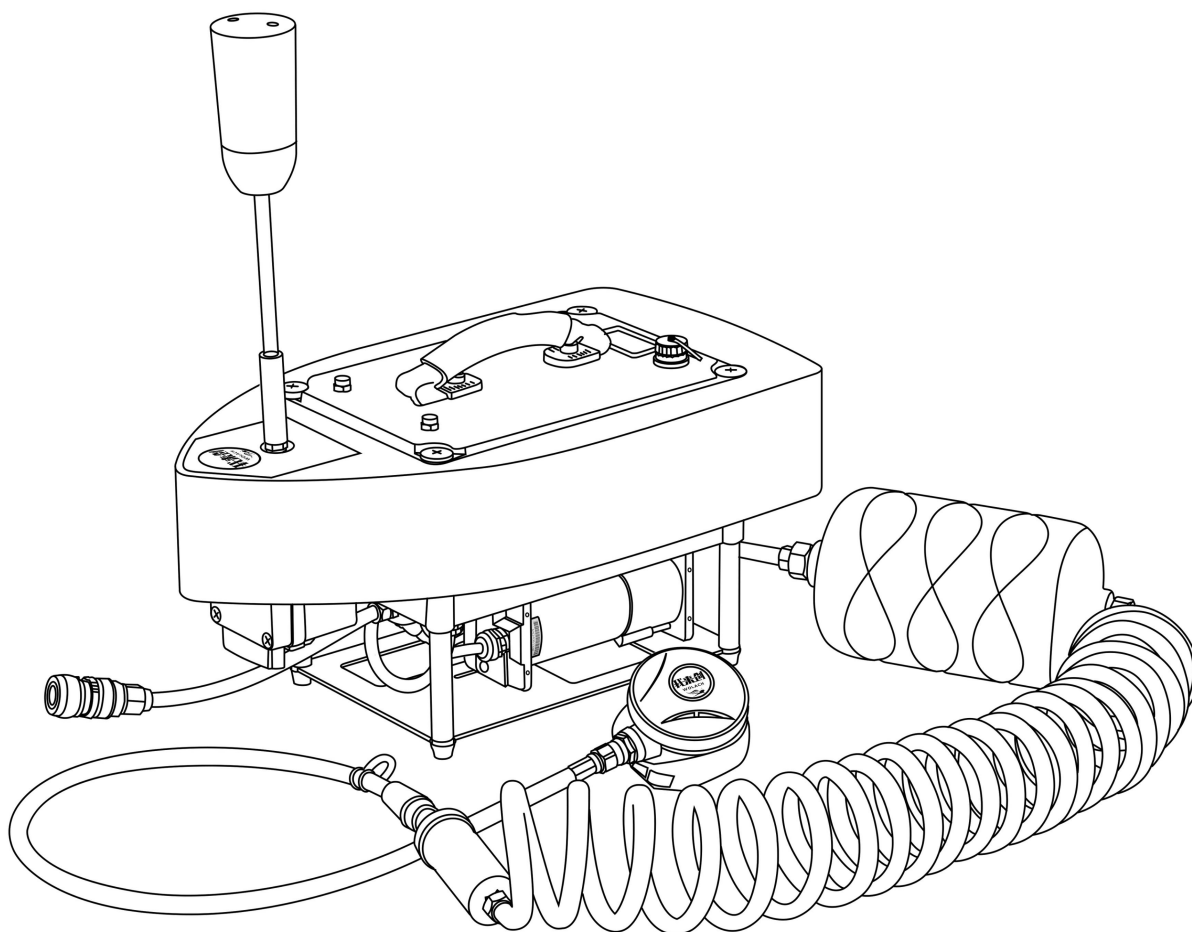
- ☑ Please check the outer packaging for signs of transport damage immediately upon receipt. If you find that the diving equipment has been damaged, please do not use it and contact our customer service as soon as possible.
- ☑ Please check whether the items in the package are complete according to the packing list, and the packaging materials need to be properly preserved for the second transition or special circumstances. Protect the environment, do not discard the packaging materials at will. If it is really unnecessary, please classify them when discarding.

Packing List				
No.	Name	Quantity	Unit	Remarks
1	Hookah Diving Equipment	1	Set	
2	Air supply pipe+secondary head	1	Pcs	
3	Brace + bite mouth + water surface buoyant	1	Set	
4	Charger	1	Pcs	
5	Intake pipe	1	Pcs	
6	Carbon bar filter cotton pack+Maintenance tool	1	Pack	
7	Instructions	1	Set	

Accessories Figures		
		
Charger	Air supply pipe	Maintenance tool
		
Inflatable Airbag	Carrying strap	Air intake pipe

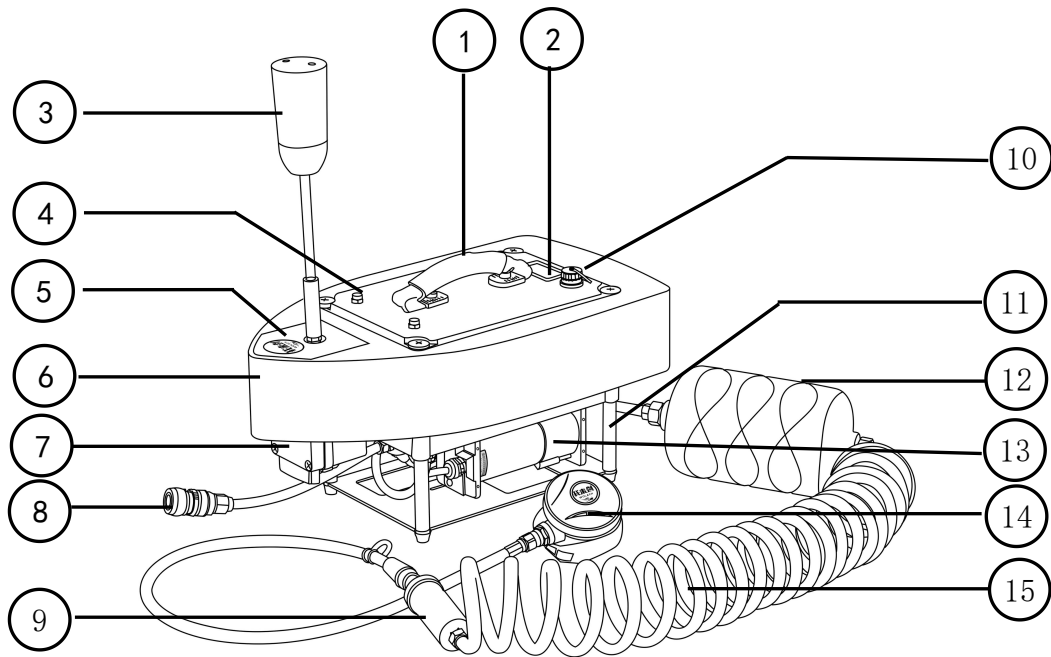
IV. Product Introduction

1. Product overview



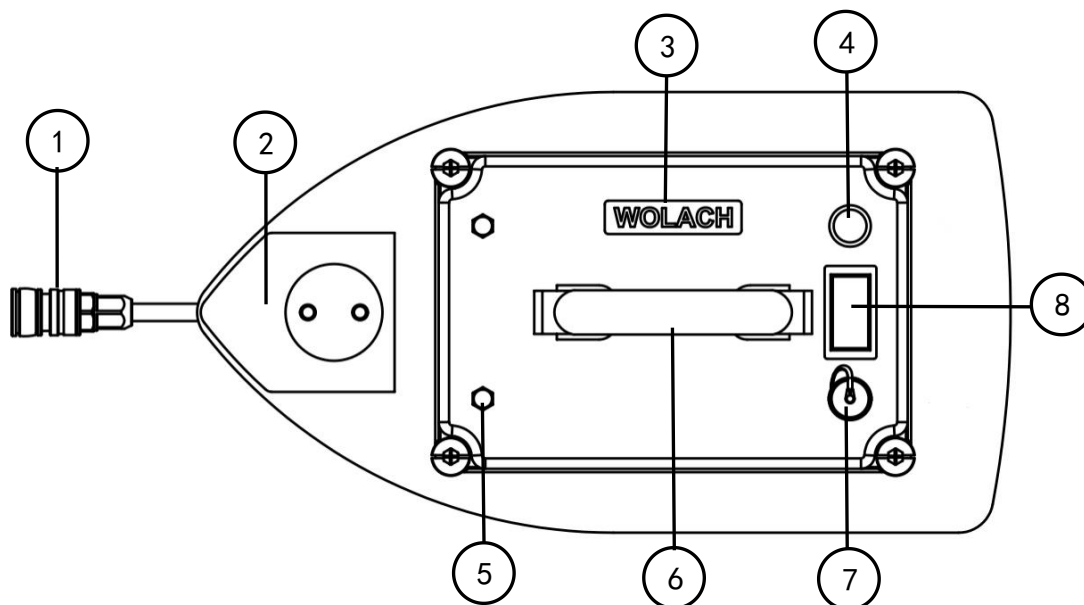
2. Part Name

Front view of diving equipment



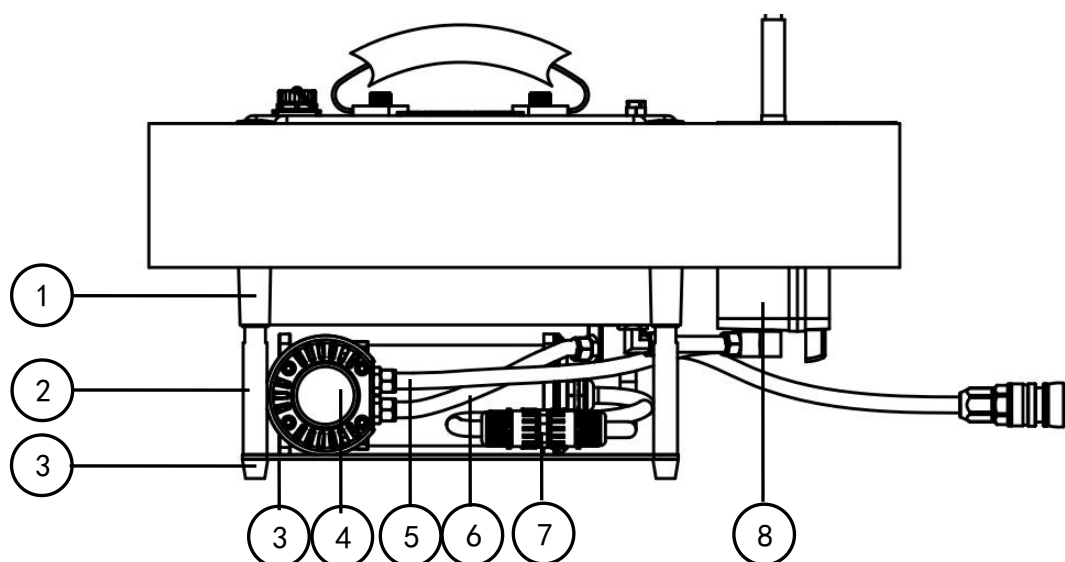
- | | | |
|---------------------|----------------------|--------------------|
| ① Handle | ⑥ Floating board | ⑪ Support pillars |
| ② Electricity meter | ⑦ Water drain box | ⑫ Gas storage tank |
| ③ Air intake pipe | ⑧ Snap-fit connector | ⑬ Air pump |
| ④ Vent valve | ⑨ Filter | ⑭ Secondary head |
| ⑤ Decorative plate | ⑩ Charging port | ⑮ Retractable hose |

Top view of diving equipment



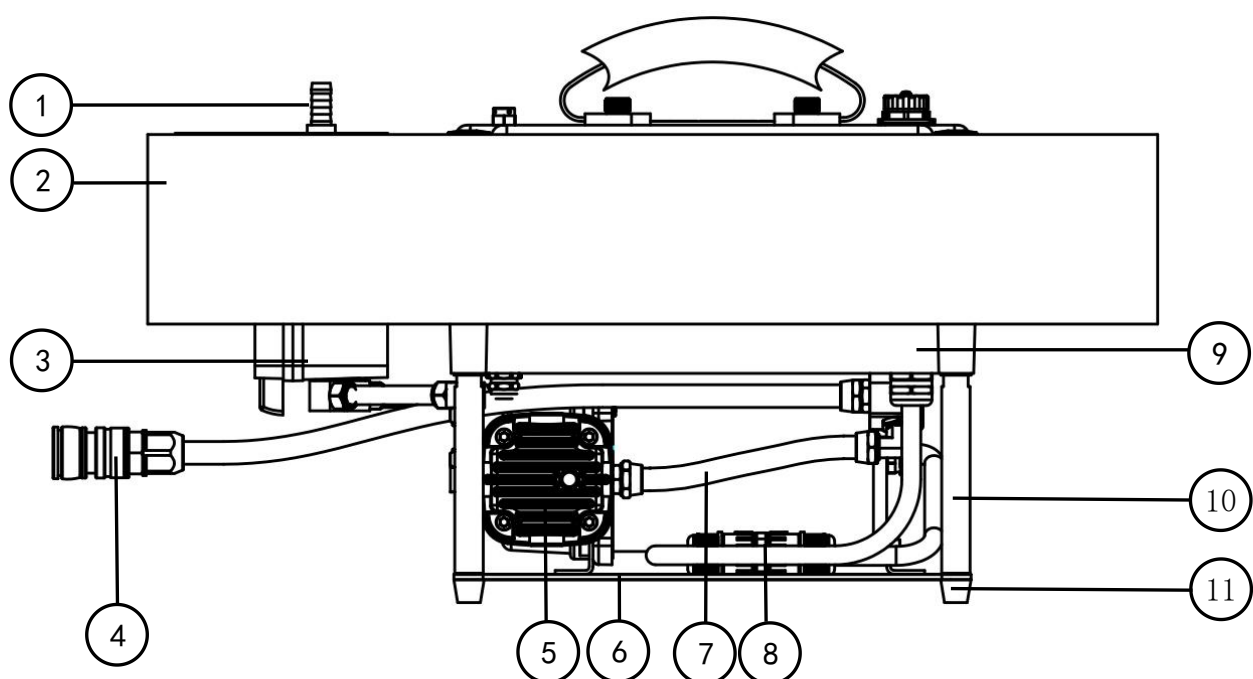
- | | | |
|----------------------|----------------|---------------------|
| ① Snap-fit connector | ④ Power button | ⑦ Charging port |
| ② Decorative plate | ⑤ Vent valve | ⑧ Electricity meter |
| ③ LOGO | ⑥ Handle | |

Side view of diving equipment (S6&S7)



- | | | |
|----------------------|----------------------------|------------------------|
| ① Bottom shell | ④ Air pump | ⑦ Waterproof connector |
| ② Support pillars | ⑤ Air pump air intake pipe | ⑧ Water drain box |
| ③ Anti-Vibration Pad | ⑥ Air pump air outlet pipe | |

Side view of diving equipment (S9)



- | | | |
|----------------------|------------------------|----------------------|
| ① Air intake port | ⑤ Air pump | ⑨ Base shell |
| ② Floating board | ⑥ Base plate | ⑩ Support pillars |
| ③ Water drain box | ⑦ Air outlet pipe | ⑪ Anti-Vibration Pad |
| ④ Snap-fit connector | ⑧ Waterproof connector | |

3. Working principle

Working principle

This product is hookah diving equipment, cooperate with floating board and make it floating on water. It is equipped with a large flow air pump motor, driven by high-quality power lithium battery, electric circuit control system, the air pump compress the common pressure air to be high pressure gas, pass through filter system and air circuit control system, provide the steady, plenty and long time air source through air supply pipe and breath regulator, the tumbler structure make it able to quickly corrected after stormy waves overturn it, at the same time, the internally configured overturn device make it able to power off at the moment of overturn, air pump stop working and avoid drawing water.

4. Performance parameters

Model S6:

Name	Performance parameters
Model	WLC-NO.1-3&WLC-NO.1-4& WLC-NO.1-6&WLC-NO.1-10
Pressure	4bar
Voltage	12V
Maximum current	15A
Power	190W
Size	18.5*10*9.6 (Inch)
Air supply	63 L/min
Maximum depth	39FT

Model S7:

Name	Performance parameters
Model	WLC-NO.2-5&WLC-NO.2-8
Pressure	4bar
Voltage	12V
Maximum current	19A
Power	235W
Size	18.5*10*9.6 (Inch)
Air supply	73 L/min
Maximum depth	52FT

Model S9:

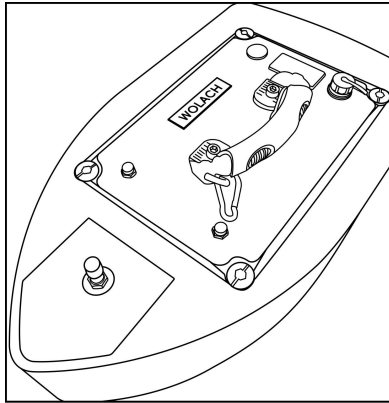
Name	Performance parameters
Model	WLC-NO.3-3.5&WLC-NO.3-6
Pressure	4bar
Voltage	12V
Maximum current	28A
Power	339W
Size	21*12.2*11 (Inch)
Air supply	95 L/min
Maximum depth	65FT

Model S77:

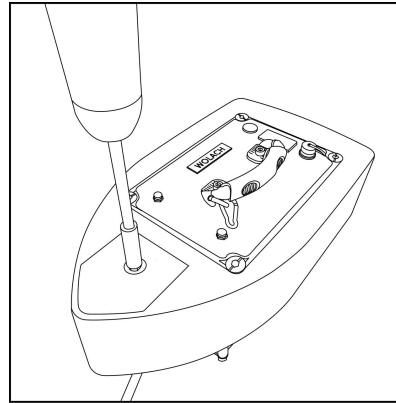
Name	Performance parameters
Model	WLC-NO.5-5
Pressure	5bar
Voltage	24V
Maximum current	22A
Power	528W
Size	21*12.2*11.85 (Inch)
Air supply	160 L/min
Maximum depth	95FT

V. Equipment Installation

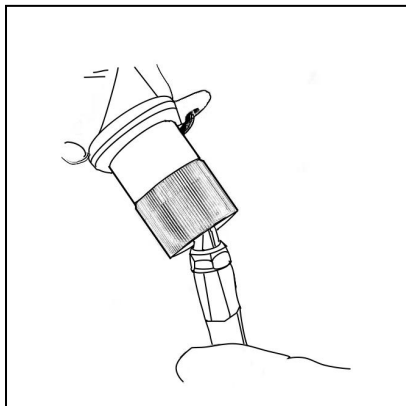
1. Installation steps of diving equipment



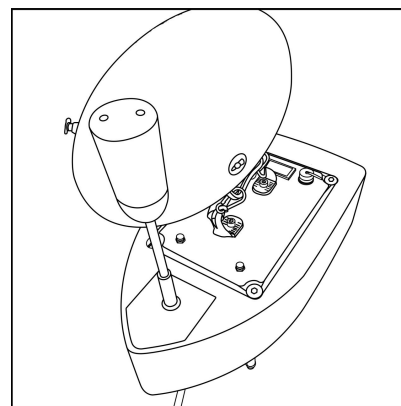
Step1: Remove the dust cap from the air intake.



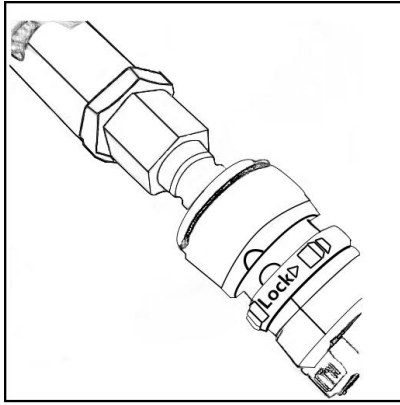
Step2: Tighten the air intake pipe at the intake point.



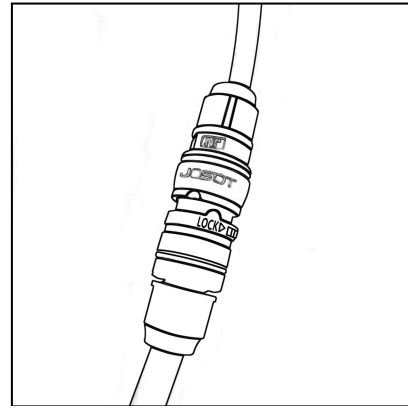
Step3: Connect the secondary head and filter.



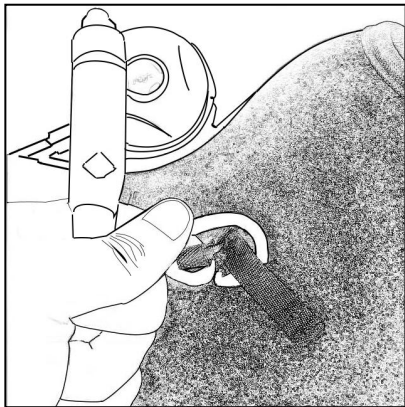
Step4: Fill the followers with gas.



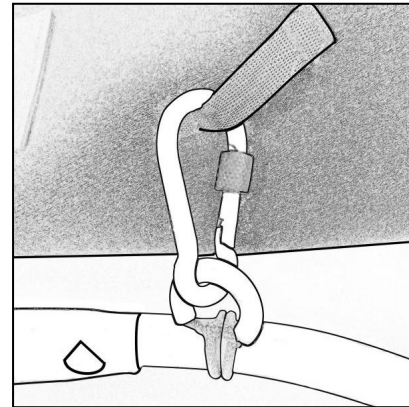
Step5: Connect the snap-fit connector



Step6: Rotate and lock the snap-fit connector lock ring, and check that the connection is in a locked state.



Step7: Fix the air supply pipe on the strap.



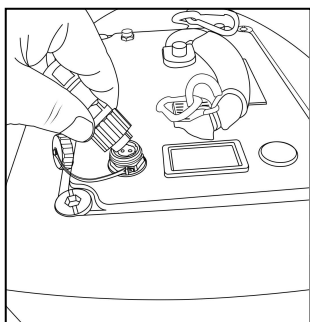
Step8: Turn and tighten the opening of the buckle.

VI. Operation Instructions

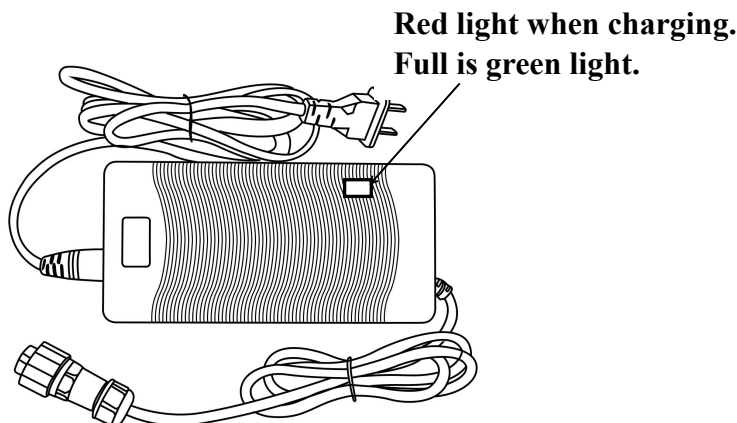
1. Charge the equipment before use

Turn off the equipment before the first use. Please use the matching charger. After the battery is full, it can be recharged for 1 hour as an aid. After the battery is charged, it can be put into use. The battery of this equipment has been activated when leaving the factory, so there is no need to charge and discharge repeatedly.

⊘ Warning: it is strictly forbidden to access the charger when it is turned on



Turn off the equipment before charging



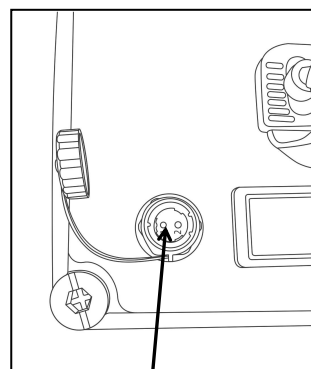
- When charging, unscrew the waterproof cap of the charging port first, and pay attention to the fact that the internal gasket is strictly prohibited from being lost.
- One end of the charger is first connected with the multifunctional connector of machinery and equipment, and the other end of the charger plug is connected with the household power socket (charging voltage is 100-240V). When the charger indicator light lights up red, it is in the charging state, and the charger indicator light turns green to indicate that the electricity is full.

⊘ Warning: It is strictly forbidden to plug the first and second ports (positive and negative poles) of the charging port backwards when charging.

- The charger is a dual-core interface. The 1 (positive) port of the charger is aligned with the 1 (positive) port of the multifunctional connector, and the 2 (negative) port of the charger is aligned with the 2(negative) port of the multifunctional connector. Please do not insert it backwards.

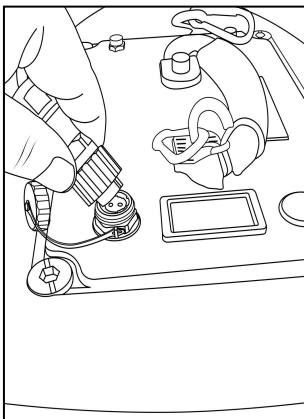
- Shallow discharge and shallow charging at any time are more beneficial to lithium batteries. When the remaining 20% of the electricity is charged in time, excessive discharge will easily damage the batteries and shorten the service life of the batteries.

- When charging the charger, the blue knob of the charger must be tightened to prevent poor contact from causing failure to charge or other accidents.



Charging connector

⚠ Attention: Tighten the lock ring of the plug when charging.



- Do not charge the equipment in high temperature or hot sun, please charge it in a cool and dry place.
- Forbid to charge indoor.
- After the equipment is charged, rotate the knob to remove the charging plug, and then tighten the waterproof cap of the charging port.

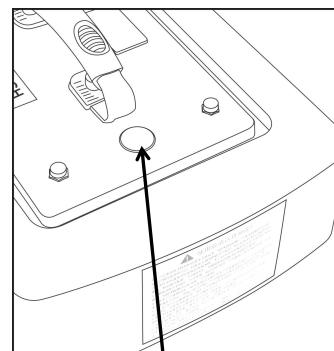
⊘ Warning: It is strictly forbidden to charge the equipment for more than 15 hours.

Tighten the knob of the charger

2. Pre-use equipment inspection

⚠ Attention: Remove the dust cap before use.

- Connect the air intake pipe, air transmission pipe, breathing regulator and other accessories with the main engine, and check whether the air intake, low-pressure air intake pipe, high-pressure exhaust pipe and filter air intake pipe are tightened, and whether the joints of each accessory are firm.
- Check whether the product performance of this equipment is good and whether the product function can be used normally. Press the power switch to start. After starting, the motor should have normal equipment sound and vibration, and the liquid crystal electric quantity display will automatically display the electric quantity.
- If the motor noise is not smooth and the block is dull, please shut down immediately and contact our company after sales



Power button

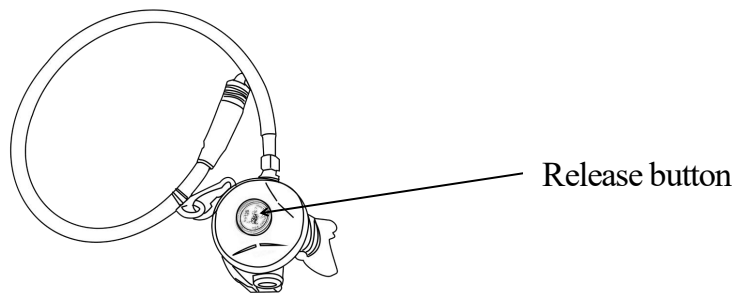
⊘ Warning: It is strictly forbidden to work for more than 2 minutes without flooding the air pump.

⊘ Warning: It is strictly forbidden to use faulty or suspected faulty equipment for diving.

- After the equipment is turned on, press the middle button of the breathing regulator (secondary

head) and release it, check whether there is gas ejection from the secondary head, hold the bite mouth of the secondary head in your mouth and try to breathe, and whether the test respirator works normally.

⚠ Attention: When the air pipe reaches the rated air pressure, the machine will enter the standby state, which is normal.



- Automatic shutdown: When the air pressure in the equipment reaches rated pressure after the equipment is started, the equipment automatically shuts down, which is a normal phenomenon rather than a fault problem. When the equipment is not connected with the air supply pipe, it automatically stops in less than 1 second after pressing the switch; When the equipment is connected to the air supply pipe, it stops automatically after pressing the switch and reach the rated pressure. When pressing the middle button of the secondary head, gas will be ejected, and the equipment continues to run after the air pressure in the trachea drops. If no gas is ejected when pressing the secondary head after the equipment is turned on, check whether the air supply pipe is knotted. If the air supply pipe is not knotted, check whether the electricity meter displays the value. If it is found that the electricity meter does not display the value, it may fail. Please contact our after-sales customer service in time.

3. Operation during using

- ◆ Wear your diving suit after checking the diving equipment. Before wearing the diving suit, first wet your body with water, so that you can put on the diving suit more smoothly, then put on the diving pants, and finally put on the diving jacket, put on the straps, bite the secondary head, wear the upper mirror, adjust your breathing, and ensure smooth breathing before you can dive.

⚠ Attention: Diving with this product should abide by the diving partner system and avoid diving alone.

- ◆ When diving make a good diving plan, communicate the situation and countermeasures encountered during diving, and check each other's equipment status and pay attention to each other's position. Both people under water distance not exceed 2m, both people can't leave the sight line each other, able to carry out rescue within 1 minute.

⚠ Danger: The dive depth should not exceed the length of the air supply pipe.

- ◆ When diving, it should dive to the corresponding depth can't exceed the maximum depth of the equipment. After the diving depth exceeds the use depth of the air supply pipe, it may cause the equipment to overturn the air intake and enter water, resulting in motor damage. Avoid using this equipment in the environment close to rocks, wind waves and water flow, because it is easy to cause the equipment to topple and the air intake to enter water, resulting in motor damage. In addition, when diving, check the buoyancy and choose the appropriate counterweight, so as to better control the neutral buoyancy. In addition, keep a stable and relaxed mood so as not to control the neutral buoyancy.

VII. About the Recreational Diving Schedules

The purpose of the recreational diving schedule is to make all dives decompression-free. Proper planning can ensure that all dives, single dives or repeated dives, can be maintained within the decompression-free limit by controlling the diving time length, diving depth and water rest time.

The dive schedule must be used in conjunction with an accurate depth meter, an underwater timer, an underwater recorder with a pen, and the schedule itself. You need to record the depth of each dive in order to determine the maximum dive time, otherwise, you must limit the depth to the maximum depth range of a specific plan.

1. General rules for using diving schedules

1. Diving time, calculated in minutes, is the time from the moment of diving to the time before rising to the water surface or staying safely.
2. Any diving planned within 10 meters should be calculated at a depth of 10 meters.
3. Use the correct diving depth for all diving depths, or the next deeper depth.

4. Use the correct diving time for all diving times, or the next longer time.
5. All dives should rise slowly at a speed of no more than 18 meters per minute, and a little slower is fine or even better.
6. Be conservative and avoid using the maximum limits provided by the plan.
7. When you plan to dive in cold waters or in intense conditions, assume that the diving depth is the actual diving depth, and deepen it by 4 meters.
8. When planning to dive repeatedly, the depth of each continuous dive should be shallower and shallower. Never go on to do deeper diving. The deepest diving must be done at the beginning.
9. Limit the depth of all repeated dives to 30 meters or more.
10. Limit the maximum diving depth within your training or experience. As an open water diver, your diving license limits your maximum diving depth to 18 meters. Divers with more training and experience and obtain corresponding advanced license grades should usually limit their maximum depth to 30 meters. Divers with deep diving training and reasonable goals may dive to a depth of 40 meters. All dives should be planned for decompression-free diving. Moreover, all dives should not exceed the maximum depth limit of leisure hookah diving-40 meters, and decompression diving exceeds the parameters set in the leisure diving schedule.
11. Never exceed the maximum depth limit of the leisure diving schedule, and try to avoid diving to the depth limit of the schedule. 42 meters is only for emergency use, and do not dive to this depth.
12. At the end of all diving, it is recommended to stay at 5 meters for 3 to 5 minutes. As long as you reach the three pressure levels adjacent to the decompression-free limit, or dive deeper than 30 meters, you must make a 3-minute safe stay at 5 meters.
13. Recreational diving schedule is specially designed for recreational (decompression-free) diving with air. Never attempt to use it to plan decompression diving.

DIVING SCIENCE & TECHNOLOGY CORP.
Recreational diving program

Water rest schedule

Starting point Depth (m)	10*	12	14	16	18	20	22	25	30	35	40	42																
A	10	9	8	7	6	6	5	4	3	3	↓	↓																
B	20	17	15	13	11	10	9	8	6	5	5	4																
C	26	23	19	17	15	13	12	10	8	7	6	↓																
D	30	26	22	19	16	15	13	11	9	8	↓	6																
E	34	29	24	21	18	16	15	13	10	↓	7	7																
F	37	32	27	23	20	18	16	14	11	9	8	8																
G	41	35	29	25	22	20	18	15	12	10	9																	
H	45	38	32	27	24	21	19	17	13	11																		
I	50	42	35	29	26	23	21	18	14	12																		
J	54	45	37	32	28	25	22	19	15	13																		
K	59	49	40	34	30	26	24	21	16	14																		
L	64	53	43	37	32	28	25	22	17																			
M	70	57	47	39	34	30	27	23	19																			
N	75	62	50	42	36	32	29	25	20																			
O	82	66	53	45	39	34	30	26																				
P	88	71	57	48	41	36	32	28																				
Q	95	76	61	50	43	38	34	29																				
R	104	82	64	53	46	40	36																					
S	112	88	68	56	48	42	37																					
T	122	94	73	60	51	44																						
U	133	101	77	63	53	45																						
V	145	108	82	67	55																							
W	160	116	87	70	56																							
X	178	125	92	72																								
Y	199	134	98																									
Z	219	147																										

Pressure level

Decompression free limit

Safe staying distance

Metric system

Table 1
Free pressure limit and pressure rating table
When it is actually 10.5 meters, it is easier to read the depth table 10 meters

Back to Table 1

Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

Pressure-free limit and pressure rating chart

Pressure level after resting water surface

Depth (m)	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A		
10*	219	199	178	160	145	133	122	112	104	95	88	82	75	70	64	59	54	50	45	41	37	34	30	26	20	10		
12	147	134	125	116	108	101	94	88	82	76	71	66	62	57	53	49	45	42	38	35	32	29	26	23	17	9		
14		98	92	87	82	77	73	68	64	61	57	53	50	47	43	40	37	35	32	29	27	24	22	19	15	8		
16			6	11	16	21	25	30	34	37	41	45	48	51	55	58	61	63	66	69	71	74	76	79	83	90		
18				72	70	67	63	60	56	53	50	48	45	42	39	37	34	32	29	27	25	23	21	19	17	13	7	
20					2	5	9	12	16	19	22	24	27	30	33	35	38	40	43	45	47	49	51	53	55	59	65	
22						56	55	53	51	48	46	43	41	39	36	34	32	30	28	26	24	22	20	18	16	15	11	6
25								45	44	42	40	38	36	34	32	30	28	26	25	23	21	20	18	16	15	13	10	6
30									3	5	7	9	11	13	15	17	19	20	22	24	25	27	29	30	32	35	39	
35										37	36	34	32	30	29	27	25	24	22	21	19	18	16	15	13	12	9	5
40											3	5	7	8	10	12	13	15	16	18	19	21	22	24	25	28	32	
												29	28	26	25	23	22	21	19	18	17	15	14	13	11	10	8	4
													4	6	7	8	10	11	12	14	15	16	18	19	21	25	28	
														20	19	17	16	15	14	13	12	11	10	9	8	6	3	
															3	4	5	6	7	8	9	10	11	12	14	17	17	
																14	13	12	11	10	9	8	7	6	5	3	3	
																	3	4	5	5	6	7	9	11	11	11	2	
																		9	8	7	7	7	6	5	2	2	2	

* Actually 10.5 meters;
It is easier to read the depth table at 10 meters.

The white part shows the residual nitrogen time (RNT) in minutes, which is added to the actual dive time (ABT).

The gray area indicates the adjusted no-decompression limit, beyond which the actual dive time (ABT) should not exceed.

Residual nitrogen time (RNT)
+ actual dive time (ABT)

= Total dive time (TRT)

Table 3 Repeat dive schedule

Note: This schedule is only for use by qualified divers or individuals under the supervision of qualified dive instructors. Using the wrong schedule can result in serious injury or even death. If you are not sure how to use this schedule properly, consult a qualified scuba instructor.

Metric system

Back to Table 1

Repeat the dive time chart and the surface rest time chart

Safe Stay-At any time when the diver's pressure level is within 3 levels adjacent to the decompression-free limit, and any dive with a depth of 30 meters or more, a safe stay of 3 minutes must be made at 5 meters.

Emergency decompression - In case the diving time exceeds the decompression-free limit, within 5 minutes, an 8-minute decompression stay must be made at a depth of 5 meters. After ascent, the diver should rest on the water surface for at least 6 hours before diving again. If the non-decompression limit is exceeded for more than 5 minutes, a 15-minute decompression stay must be made at a depth of 5 meters (if the air supply allows). After ascent, the diver should rest on the water surface for at least 24 hours before diving again.

2. Advice for flying after diving

 **Attention: Follow the following recommendations when flying after diving.**

For diving within the pressure-free limit

Single diving: It is recommended to have at least 12 hours of water rest before flying.

Repeated diving or continuous diving for multiple days: It is recommended to have at least 18 hours of water rest before flying.

For diving to do decompression stay

It is recommended to have a minimum of 18 hours of water rest before flying.

High altitude diving-Diving at an altitude of 300 meters above sea level requires special procedures.

Special rules for multiple dives

If you plan to dive 3 or more times a day: Start with the first dive. If your latest pressure level after any dive is W or X, the water rest time between all subsequent dives is at least 3 hours.

Remarks: We don't know the physiological impact of diving many times in many days, so it is wise to reduce the number of dives slowly in the later stage of diving many times in many days.

General rule

- ◆ All dives rise at a speed of no more than 18 meters per minute.
- ◆ When planning to dive in cold water or possibly in intense conditions, the planned dive depth should be assumed to be 4 meters deeper than the actual depth.

- ◆ When planning repeated dives, the depth is from deep to shallow, and the repeated diving depth is limited to 30 meters or shallower.
- ◆ Never exceed the limit of this schedule, and avoid diving close to the limit of the schedule if possible. The diving depth of 42 meters is limited to emergency use. Do not dive to this depth.

VIII. Diving safety precautions

⚠ Attention: Please read the following carefully before using this product.

1. Users must hold corresponding diving qualification certificates, such as OW or PADI. You should have received the corresponding diving training, have the capacity and knowledge of safety diving. More importantly, the safety protocols for hookah diving must be followed.
2. Before diving, divers should master the water conditions of the waters. This product is not suitable for use in narrow, messy and closed waters, such as cave diving and shipwreck diving; It shall not be used near docks, sluices and waterways where ships pass.
3. When there are wind and waves above level 4 on the water surface, it shall not be used; Waters with rapids shall not be used; Waters in danger of stranding and hitting rocks shall not be used.
4. Familiar with the operation instructions of this product, carefully check whether the performance of this product is good, whether the components are tightly connected, whether the battery power is sufficient, whether the air intake is smooth, and it is strictly forbidden to use the equipment with faults or suspected faults to launch.

⚠ Danger: Do not exceed the maximum dive depth of the product.

5. This product contains high capacity lithium battery, precision air pump and complex control system. Do not open the fastening screws and sealant by yours.
6. This hookah dive breathing apparatus is not a complete diving safety system. Users must carry at least one standby air source and other safety and life-saving equipment, such as emergency air source, standby small gas cylinder, diving computer watch, diving knife, buoyancy providing equipment, water surface signal equipment, etc.

⚠ Attention: When diving, you must carry spare air source, diving knife, etc.

7. No matter what diving mode or diving area, the diving partner system must be observed, and diving activities and production alone are prohibited.
8. The patients with heart disease, heart and cerebral vessel disease, hypertension and other other body disease, strictly forbid to use this equipment.
9. Please read this carefully before using this product for diving activities. If you have any objection, please do not use this product. Still using this product means that the user agrees with the above matters, and the user is willing to abide by the above terms and voluntarily bear all the consequences arising from violation.

IX. Cleaning and Maintenance

 **Attention: Clean the diving equipment in time after use.**

 **Warning: strictly forbid to use high pressure water gun to flow washing the machine body.**

- After using this equipment, flush the equipment body with fresh water to prevent seawater dirt deposition. When flushing, avoid water entering the charging port and air intake, the start the equipment, drop into the fresh water from the air intake not higher than 200mL, washing the water drain box.
- It is recommended to soak the equipment in fresh water for half an hour after finish flush washing the equipment, and then connect air venting bus head, air pump pumping 10s, drain out the condensate water in air pump.
- Diving equipment and all parts should avoid direct sunlight, and it is strictly forbidden to defile and contact with grease substances.
- After each use of the equipment, it is necessary to charge it in time. If the lithium battery is without electricity for a long time, it is easy to damage the battery. If the equipment is not used for a long time, it is recommended to charge it to about 80% every six months or when the electricity is less than 30%, and store it in a cool and dry place.

Maintenance advice of the diving equipment:

- 1. The air filter element at the position of diving equipment connect the secondary head, disassemble to washing and dry after each diving, alternate to use, single piece advise to renewal after used 10 times.
- 2. The diving equipment is connected with the filter equipment at the secondary head position and the activated carbon filter material inside. It is recommended to replace it after each diving.
- 3. Advise to slowly drop 300ml fresh water from the air intake under start machine status to clean the foreign objects and residual sea water after each diving.
- 4. Advise to after diving 10 times, in order to avoid corrosion and crystallization of the air pump caused by residual water inside the air pump, it is recommended to open the valve plate and cover, clean it with fresh water, dry it and then put it back into use.

 **Attention: After diving 10 times, the valve plate and bonnet should be opened for fresh water cleaning and maintenance.**

- 5. Rinse the C-type quick-plug joint at the tail end of the outlet pipe with fresh water after each use to prevent gravel jamming.

Note: Activated carbon filter material is equipped with spare package when unpacking, which can be used repeatedly after cleaning and drying. Fiber filter cotton is equipped with spare package when unpacking, which can be replaced.

 **Attention: If the machine has been used for more than 300 hours or 6 months, it is recommended to return to the factory for maintenance.**

X. Troubleshooting

In this part, you can try to solve the problem, but if the problem still exists after you check the possible reasons, please contact our customer support team to solve your problem.

Equipment start machine and always inflating	Possible reasons: A. Valve sheet broken or serious deformation. Solutions: a. Renewal valve sheet or valve plate assembly, and check the piston ring and air cylinder damage situation, if the piston ring or air cylinder damaged, also need renewal it.
Too big time data difference when air supply quantity obviously reduced or the equipment in this specification automatically stopped (section 2 in chapter VI)	Possible reasons: A. Too low equipment power. B. Piston ring serious wear. C. Valve sheet deformation or broken. D. Equipment externally connect air supply pipe or secondary head leak air. E. Air pump pump lightly burned, power reduced. Solutions: a. Retest after equipment charged above 80%. b. Renewal piston ring and retest. c. Open valve plate and check the valve sheet, retest after renewal valve sheet if abnormal. d. Start machine and soak the down half part of equipment and secondary head into water, check whether has air bubble emitting, renewal the corresponding accessories according to the position of air bubble emitting. e. Renewal air pump.
Equipment start machine but no response	Possible reasons: A. Switch blocked. B. Air pump burned. C. Internal system failure. D. Air pump carbon brush wear. Solutions: a. Renewal switch. b. Renewal air pump. c. Post the whole set back to factory for check and repair. d. Post the air pump back to factory for check and repair.

Charger always display green lamp when equipment charging	Possible reasons:
	A. Equipment if full power status. B. Charger existing failure. C. Charging port corroded, bad contact. D. Internal system failure.
	Solutions:
	a. Under non charging status, start machine to check whether voltage of power meter is 12.6V, S77 is 24.6-25.2V. b. Measure the voltage between both pins of charger output terminal. c. Renewal charging port. d. Post the whole set back to factory for check and repair.

Equipment water pump always starting	Possible reasons:
	A. Equipment not placed levelly, internal residual water disturbed. B. More crystallization in water drain box, both probes trigger response. C. Other failures.
	Solutions:
	a. Equipment placed levelly. b. Start machine, each one time filling water not exceed 200mL from air intake to wash. c. Post the whole set back to factory for check and repair.

For any faults not listed above or other potential issues, kindly contact our customer support team. We welcome inquiries from every user and are committed to providing dedicated assistance.

XI. Warranty Regulations

1. Our products are guaranteed for one year from the date of sale, and the battery and circuit parts are guaranteed for one year; Wear parts of air pump compressor, warranty period is three months; The shelf life of accessory products except the fuselage is one month; If the product exceeds the warranty period from the date of sale, the company will charge the cost of parts as appropriate according to the failure of the product.
2. Please properly pack and transport the products for repair. If they are damaged or lost during transportation, our company will not be responsible.
3. During the free warranty period, the Company has the right to refuse or collect material fees and service fees as appropriate in case of the following events.
 - The user does not use this product according to the operating manual, resulting in product failure or damage.
 - Electric shock or improper installation causes the equipment to burn down.
 - Disassemble the product by yourself, adjust or change the mechanical and electrical structure at will, resulting in damage. The equipment was damaged due to failure to dismantle and repair according to the guidance of the after-sales service personnel.
4. Please read the operating manual carefully before installing our products.

XII. Disclaimer

Before using this product, please read this product manual carefully, keep the manual well in case of emergency, both the manual and the equipment provide safety warning information, please always comply with the requirements, and the manufacturer will not bear any responsibility for personal or animal injury and property loss caused by incorrect use of the product due to non-compliance with tips and precautions.