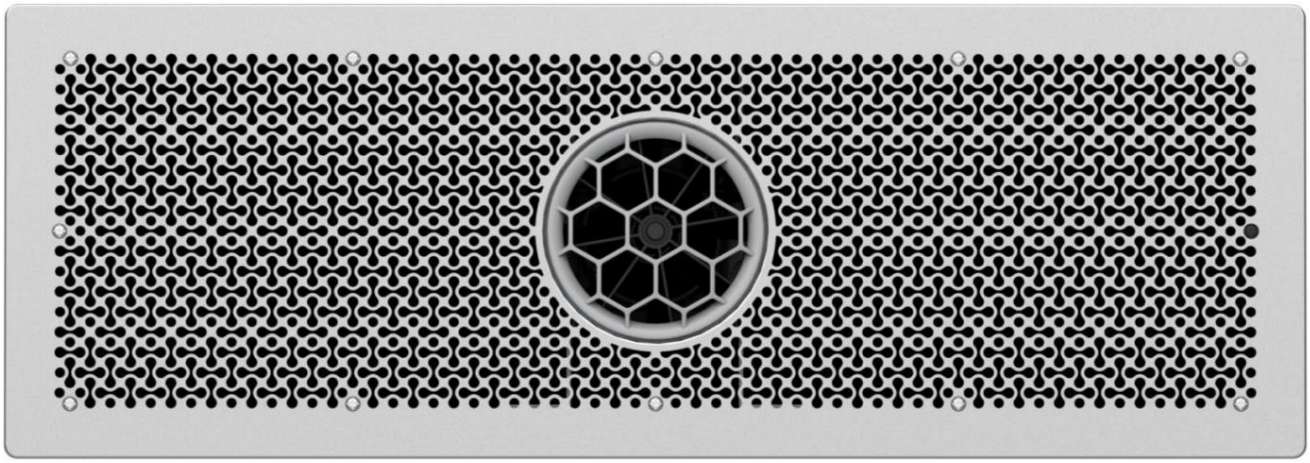
Instructions for use

Swim Jet device

F-series



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1. ⚠ Warnings and important safety instructions

Please read and follow all instructions before installation:

Always read this manual and follow all safety instructions before installing or using this product.

Keep the instructions in a safe place.

1.1 When installing and using the Swim Jet, please observe the following safety rules:

• Before use, check the cables for signs of damage or wear. In case of any problems

immediately stop operation and contact your dealer for repair or replacement.

• Do not operate the control panel until you have thoroughly read and understood all instructions in this manual.

• Before turning on, make sure that no one is near the Jet's inlet and outlet.

• Do not place fragile objects near the front cover of the Jet.

• Swimmers are advised to wear swimming caps and goggles when using the Swim Jet.

• If you have any medical condition, consult a doctor before use.

• If you experience chest pain or pressure, shortness of breath, or dizziness during use, stop exercising immediately.

• Do not jump into the water near the Jet to avoid unexpected accidents.

• Before turning on, make sure that there are no obstacles around the Jet and that it is completely submerged.

• This Swim Jet must be supplied through a residual current device (RCD) with a rated tripping current of not more than 30 mA; before

Make sure the device is working properly each time you use it.

• If you are not using the Swim Jet for an extended period of time, unplug it from the power source.

- ⚠ DANGER: Do not insert any foreign objects into the water outlet.
- ⚠ DANGER: Do not attach any foreign objects such as leaves, pieces of paper, to the water inlet and outlet.

garbage bags and other covering materials.

- ⚠ DANGER: Do not use the Swim Jet if there is ice in the pool.
- ⚠ DANGER: Stop using this product if the user's body temperature is significantly higher than normal,

which can have serious consequences, including loss of consciousness and risk of drowning.

- ⚠ DANGER: Do not immerse the Jet cord plug in water or connect or disconnect with wet hands.

•  DANGER: When performing maintenance or overhaul on the Jet, the power box must be disconnected to prevent
to ensure operator safety and to prevent electrical shock or damage to the equipment.

•  If the cable is too long and needs to be rolled into a circle, the diameter of the circle must not be less than 400 mm. If
If it needs to be rolled into multiple circles, make sure the diameter of each circle is not less than 400mm, and it must be divided into multiple
separate circles on the ground.

•  WARNING: Wiring of the Swim Jet should be performed by a licensed electrician in accordance with all local, state, and federal codes.
state and federal regulations. Jet cables are pre-connected to the drive output to ensure correct direction of rotation
engine; operating the system in the opposite direction can result in serious injury or death! If the Jet cable is replaced in the field
installation, the installer must verify the correct direction of rotation of the motor (counterclockwise) and the correct connection!
Failure to follow this instruction could result in serious injury or death.

1.2 Child safety:

• Do not allow children to use this product without adult supervision.

• Ensure that children are closely supervised at all times when using the product.

•  DANGER: The remote control is intended for adults only and should be kept out of the reach of children.

1.3 User restrictions

• Persons with reduced physical, sensory or mental capabilities should not use this product unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety.
are not supervised by qualified personnel.

• This product should not be used after consuming alcohol, drugs or medications that affect the ability to react.

2. Recommended installation environment

• Operating ambient temperature of the power box: 0 °C to 43 °C (installation in a dry, non-condensing environment, outside
exposure to sunlight and rain).

• Recommended nozzle installation depth (nozzle center from water level): 250 mm (it is necessary to ensure that the nozzle is completely
immersed in water).

• Operating water temperature for the nozzle: +5 °C to +40 °C.

It is the responsibility of the Swim Jet user to ensure proper conditions for optimal product life. In order to fulfill the warranty
conditions, the user should maintain the water quality at the following level:

• pH value: 7.0–7.8

• Combined chlorine: ÿ0.5 mg/l

• Free chlorine: 0.3 mg/l to 2.0 mg/l

• Cyanuric acid: ÿ100 mg/l

• Salt concentration: ÿ0.4% (4000 ppm)

• Metal content: ÿ0 mg/l

• Carbonate hardness: ÿ2°dH

• Ozone (O3): 0 mg/l

• Total chlorite and chlorate content: ÿ30 mg/l

• Redox potential (ORP): ÿ700 mV

Incorrect use

• Not intended for use in explosive atmospheres.

• Not suitable for harsh environments containing gases, acids, vapors, dust and oils.

• Not intended for wastewater.

Guidelines for 2205 Duplex Stainless Steel

The main components of this swim jet system are made of 2205 duplex stainless steel. Duplex Stainless Steel
Known for its exceptional corrosion resistance, 2205 is widely used in harsh environments such as marine engineering and
aerospace industry. Although this material offers excellent properties, it is necessary to significantly extend the product's service life
proper maintenance.

Recommendation:

1. After installation and before filling the pool with water, thoroughly clean all 2205 duplex stainless steel components.

2. Keep the pH, salinity and chlorine levels of the pool water within the standard range. Adverse water conditions can
damage metal components or shorten the life of the pool and its equipment.

3. Do not use hydrochloric acid to clean concrete or tiles around the nozzle. If the acid gets into the
contact with stainless steel, rinse and neutralize immediately.

4. Do not use carbon steel scouring pads or wire brushes to clean stainless steel.

5. During a pool shock or sanitization, the Swim Jet system should be operated until the chlorine level returns to
normal.

6. If the pool water level drops and the Jet is exposed to air, rinse the surface with fresh, clean water.
water or wipe it with a sponge or lint-free cloth dampened with fresh water.

7. Do not use acidic cleaners, oil-based cleaners or waxes. Minor stains can be removed with a damp cloth,
vinegar or

ammonia-based cleaning agents (such as window and surface cleaners).

8. Pool chemicals should never be added directly to the Swim Jet housing.

3. Specifications

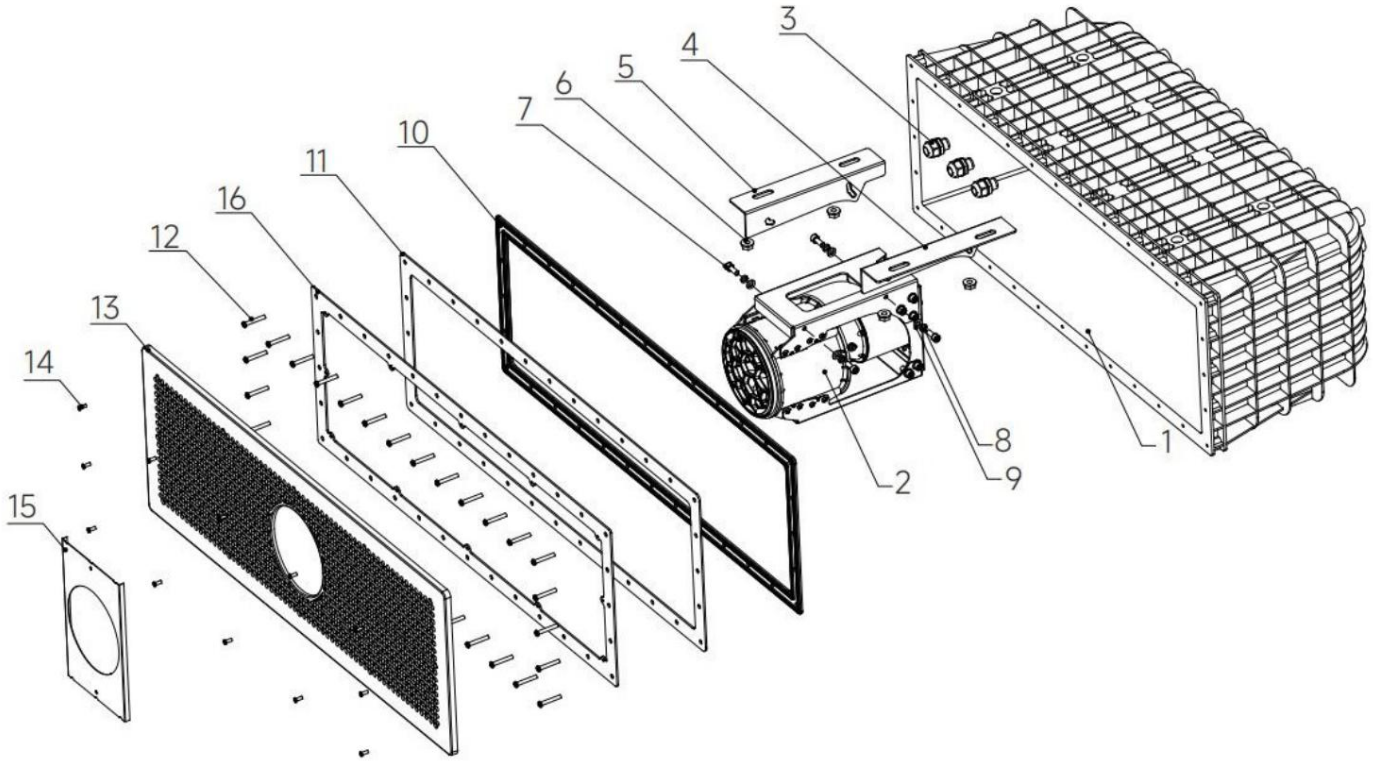
Technical parameters of the Swim Jet F series			
Model	F120	F180	F230
Supply voltage	220-240V	220-240V	220-240V
Frequency	50–60 Hz	50–60 Hz	50–60 Hz
Power consumption	500W	800W	1200W
Max input current	2.3A	3.5A	5.6A
Maximum flow rate	120 m³/h	180 m³/h	230 m³/h
Maximum output speed	2.8 m/s	3.3 m/s	4.0 m/s

4. Configuration and scheme

4.1 Configuration

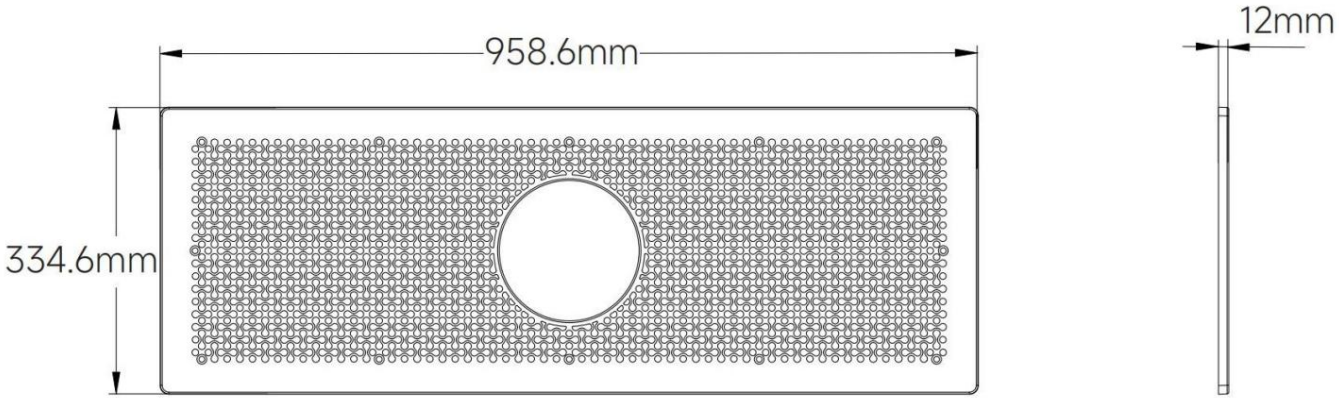
SN	Description	Amount
ÿ	Cover, ABS	1
ÿ	Nozzle	1
ÿ	M20 Waterproof Cable Connector	3
ÿ	Right bracket, Duplex 2205	1
ÿ	Left console, Duplex 2205	1
ÿ	Hexagon flange nut M10, Duplex 2205	4
ÿ	Hexagon socket head cap screw M8×20, Duplex 2205	4
ÿ	Spring washer, Duplex 2205	4
ÿ	Flat washer, Duplex 2205	4
ÿ	7 mm gasket, EPDM	1
ÿ	Flange plate, Duplex 2205	1
ÿ	Self-tapping screw with cross head, Duplex 2205	32
ÿ	Front cover, ASA	1
ÿ	Flat head screw M5×14, Duplex 2205	12
ÿ	DX510 Horizontal recessed mounting plate, hot-dip galvanized (HDG)	1
ÿ	3mm gasket, EPDM	1

4.2 Scheme

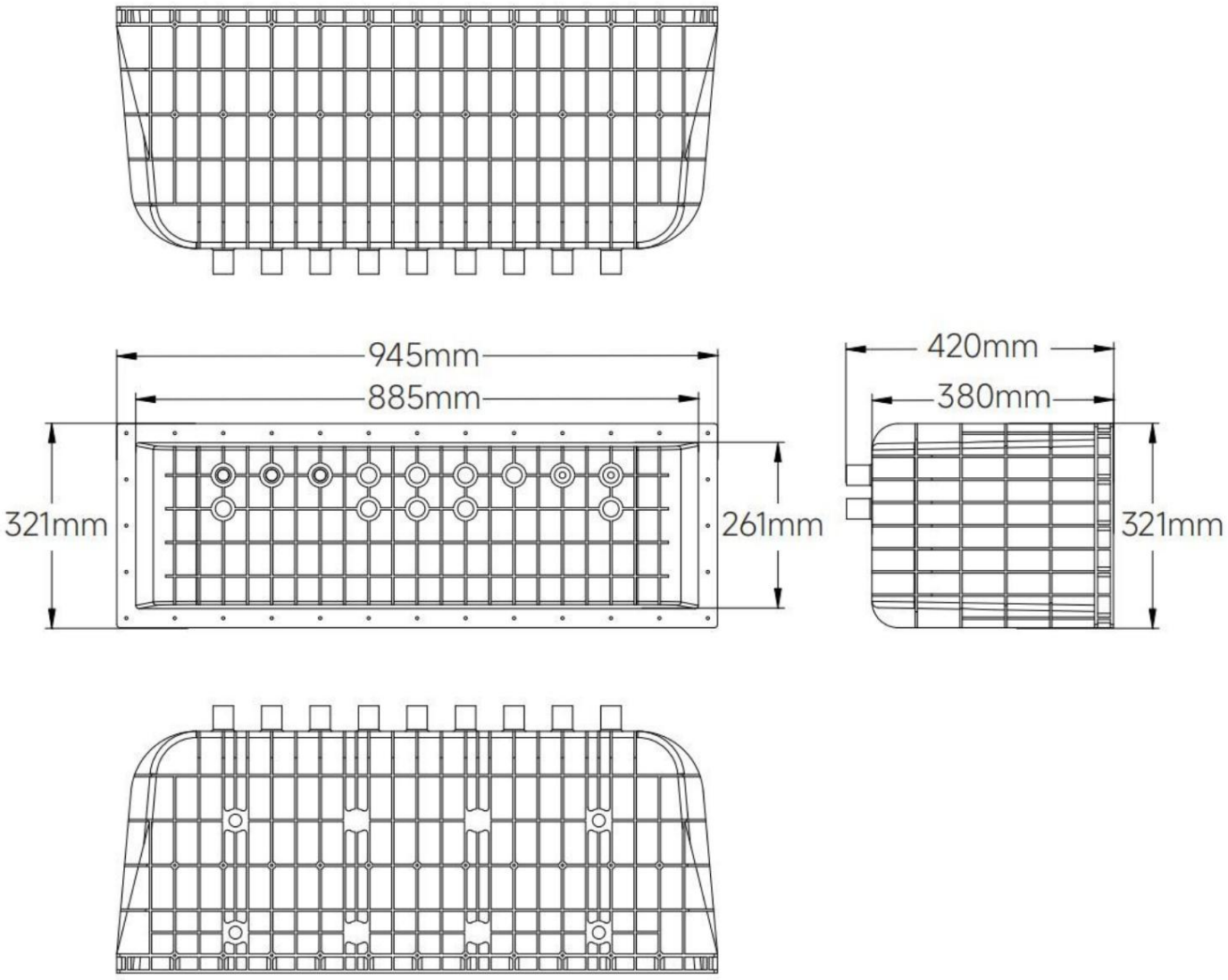


5. Swimming jet system design diagram

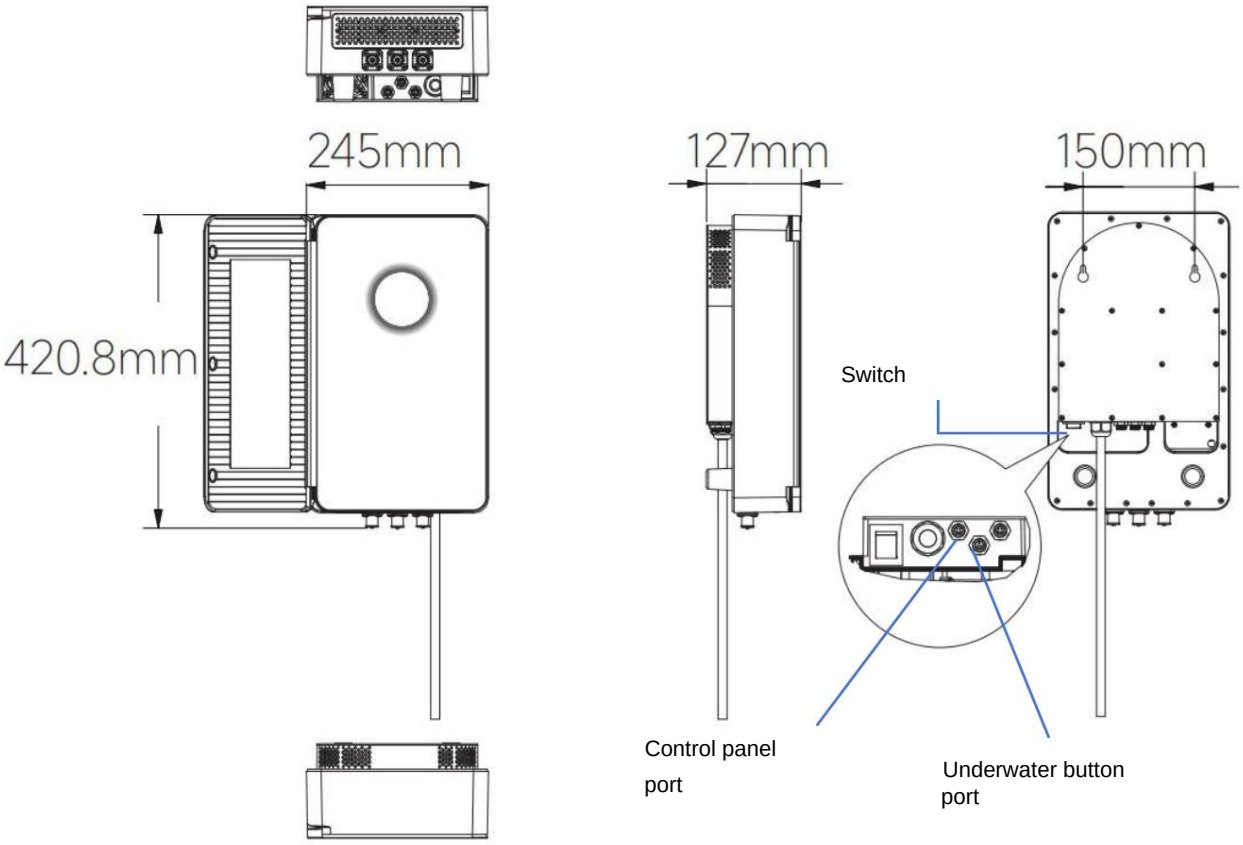
5.1 Front cover construction diagram



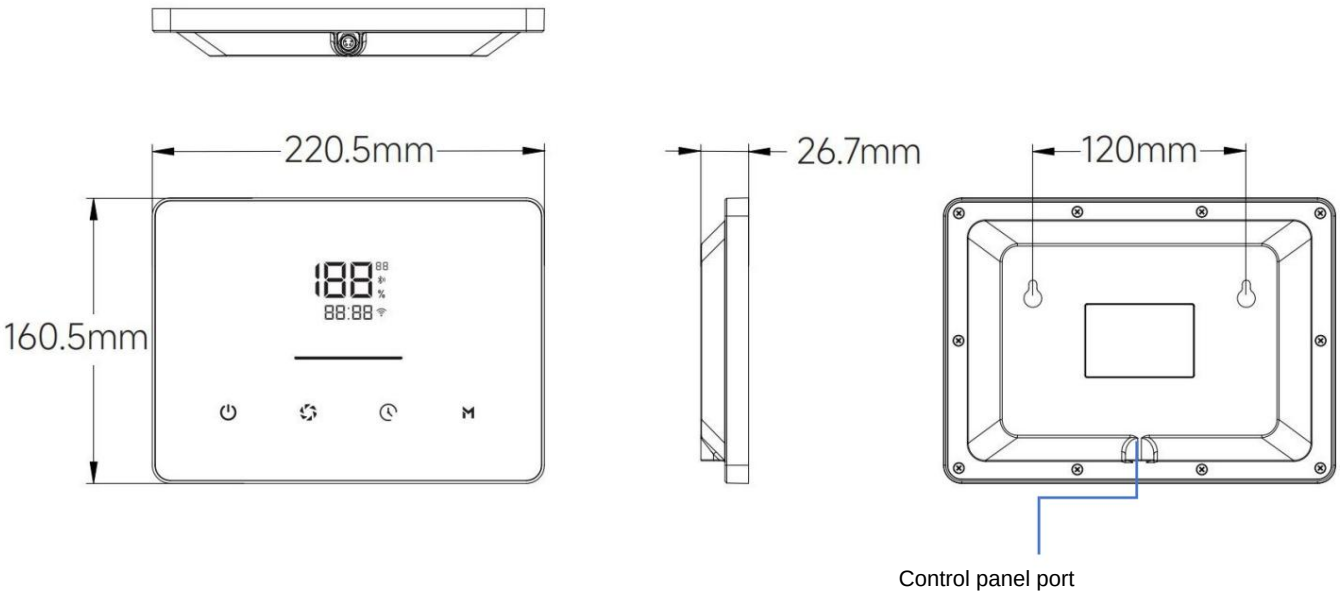
5.2 Housing construction diagram



5.3 Power supply block wiring diagram



5.4 Control panel structure diagram



5.5 Safety instructions for installing the power supply box and control panel:

DANGER: Before installation, make sure the power box and control panel are turned off to avoid injury due to accidental start-up;

Installation environment:

• The control panel installation must meet the requirements for safety zone 2.

• The power supply box and control panel should be located in a well-ventilated, dry, non-condensing environment, protected from from direct exposure to rain and splashing water from the pool.

• Cable entry holes should face downwards to ensure watertightness.

• Make sure the control panel and power box are connected properly to ensure normal operation of the Swim Jet. If you only connect the power box without connecting the control panel, the Swim Jet will not start and will not function properly.

• To ensure sufficient heat dissipation, leave at least 30 cm of free space around the power supply box and control panel.

6. Swim Jet installation procedure

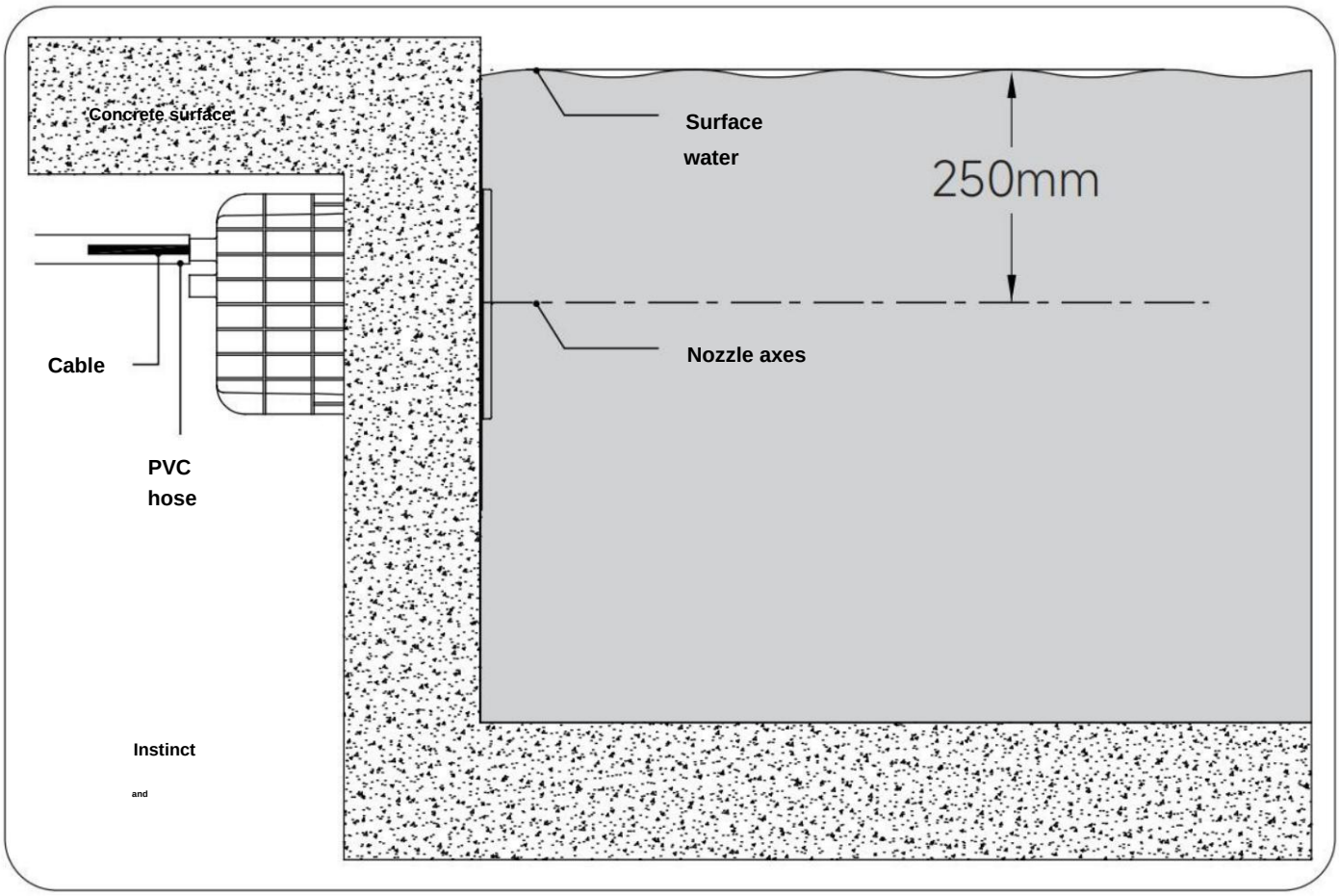
6.1 Instructions for installing the cover according to the pool material and wall thickness

The Swim Jet can be installed in pools made of various materials. Screws of different lengths are used to secure the cover, depending on the pool wall thickness. For details, see the following table:

Pool material	Pool wall thickness (T)	Self-tapping screws with cross head Specifications
Concrete pool	/	M6*30mm
Stainless steel swimming pool	Tÿ3mm	M6*30mm
PP/PMMA	3 mm < T ÿ 8 mm	M6*30mm
	8 mm < T ÿ 15 mm	M6*40mm

6.2 Installing a swim jet system in concrete pools

6.2.1 Swim Jet assembly diagrams and requirements



Installation requirements:

1.Altitude location

When installing the nozzle on the pool wall, ensure that the distance from the projected water level to the nozzle axis is 250 mm.

2. Cable protection

The Jet cable exits the rear of the housing and must be wrapped in PVC tubing for external protection.

3. Mounting hole:

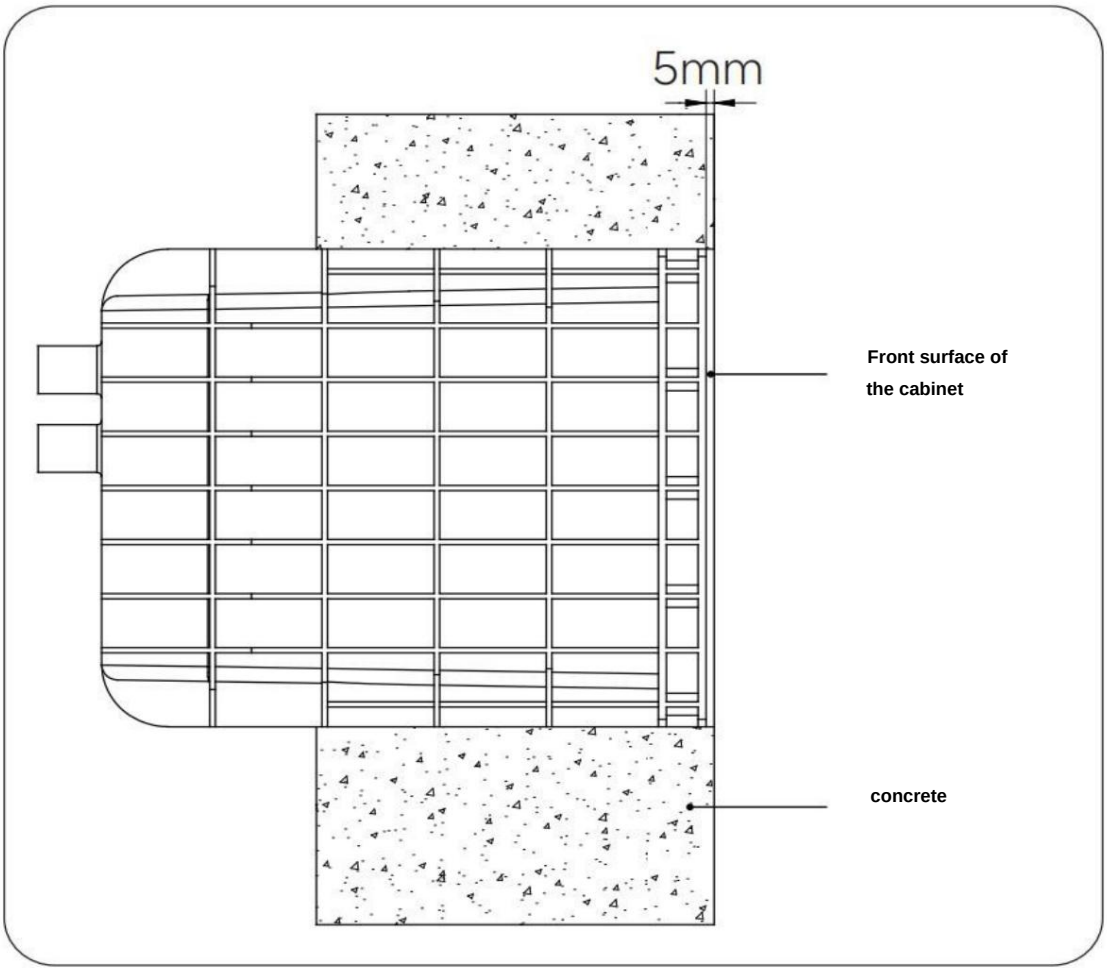
For a recessed installation of the Swim Jet, a mounting hole of 100 mm must be pre-cast in the concrete structure of the pool.

Dimensions 1000 mm (length) x 370 mm (height) x 675 mm (depth).

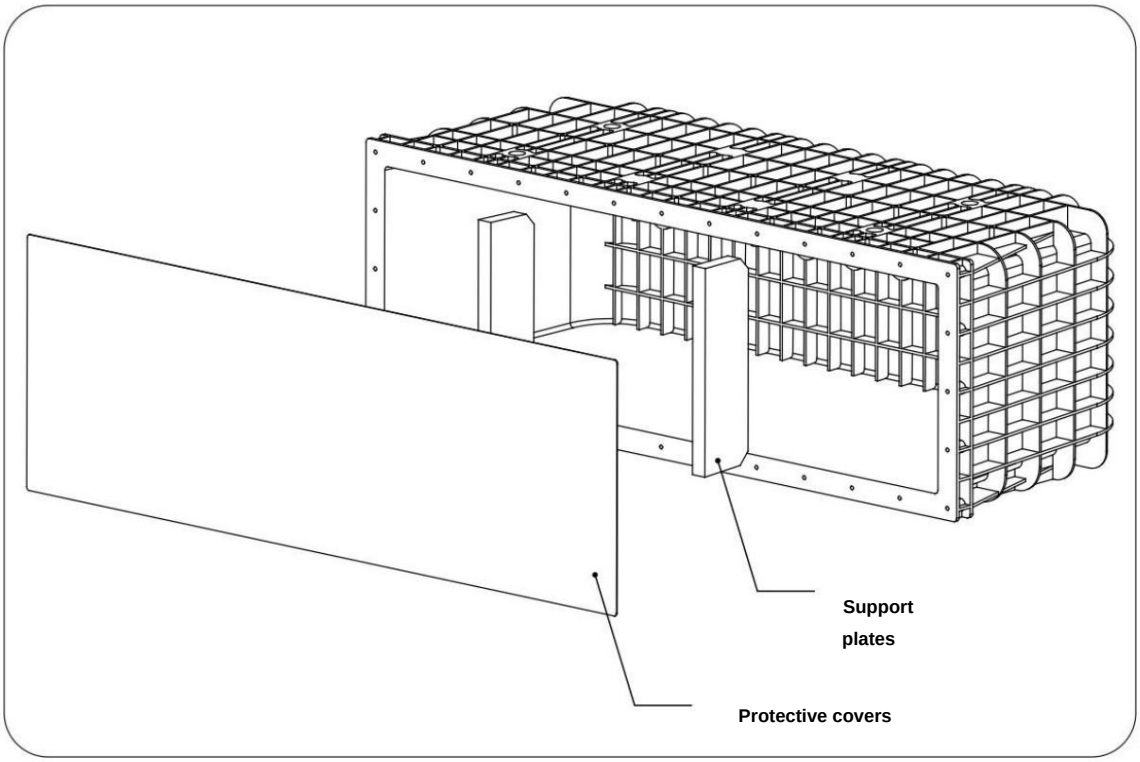
Mounting clearance:

When pouring concrete, please leave a 5mm gap between the cover surface and the concrete surface for installing the waterproof sealant.

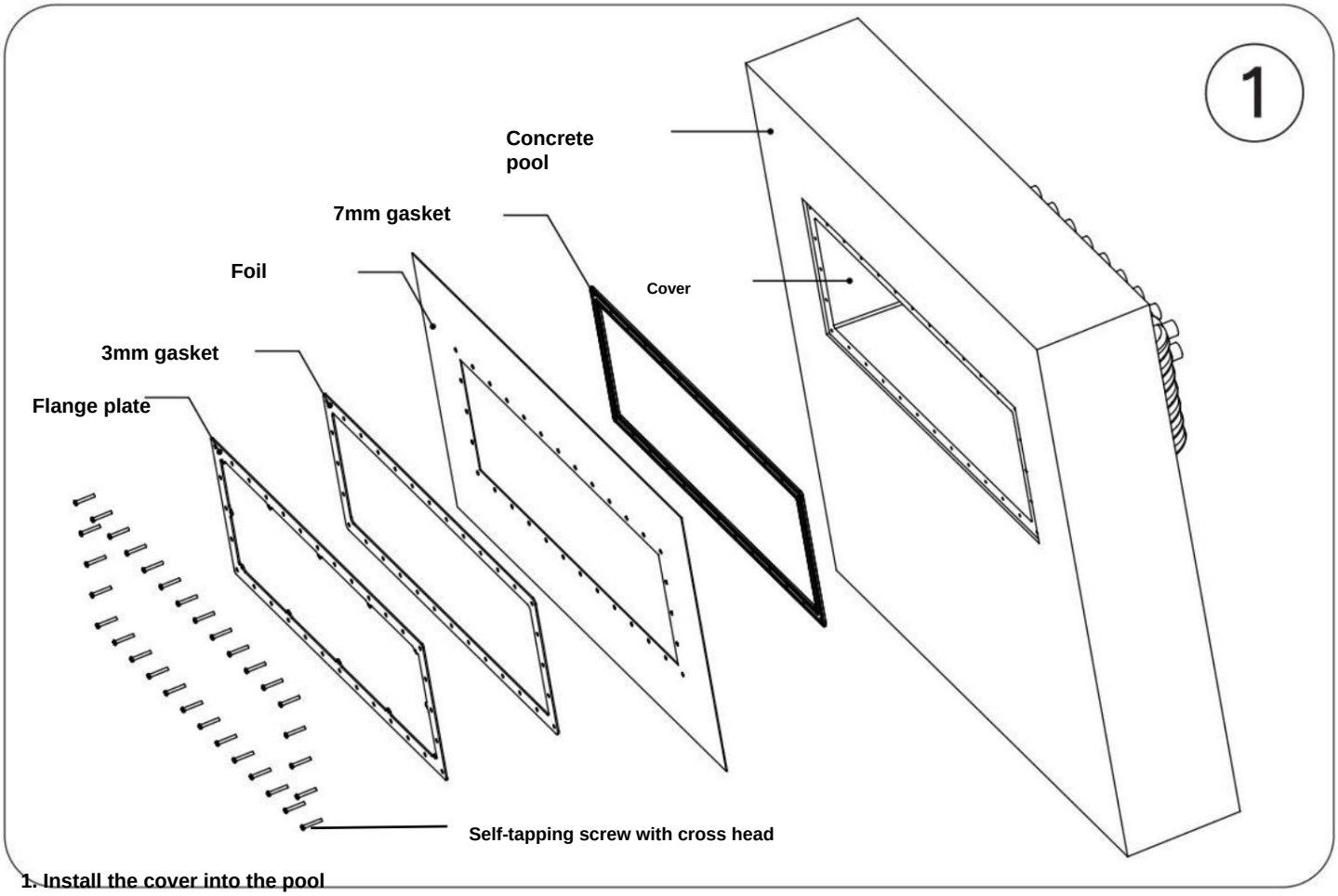
ring.



6.2.2 Use of support plates and protective covers

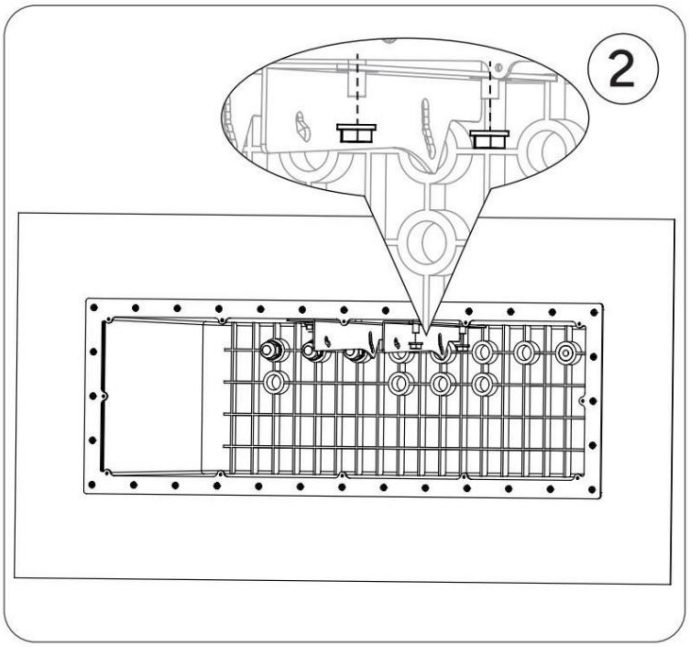


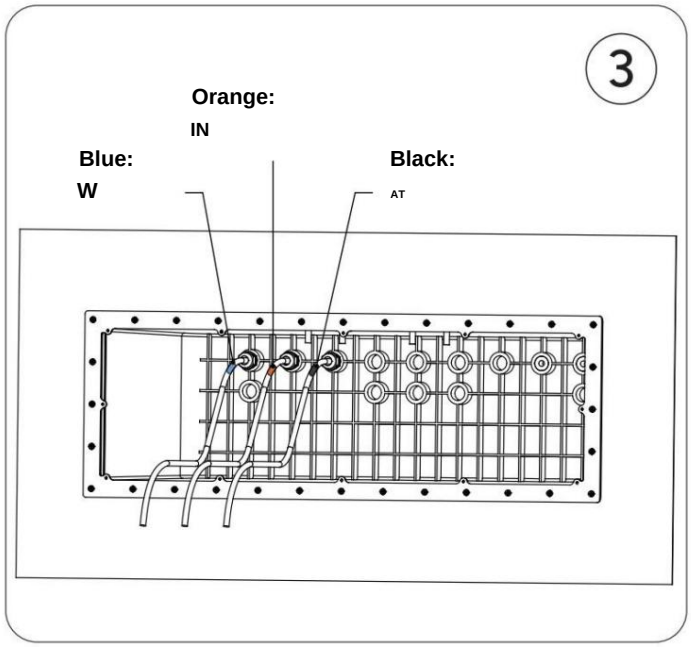
6.2.3 Installing the Swim Jet system in concrete pools with liner



1. Install the cover into the pool

Place the cover into the previously prepared installation cavity. In the order shown in the diagram, install ÿCover, ÿ 7mm gasket, pool liner, ÿ 3mm gasket and ÿ flange plate in order from right to left. Finally, tighten ÿ self-tapping screw M6*30 with cross head.





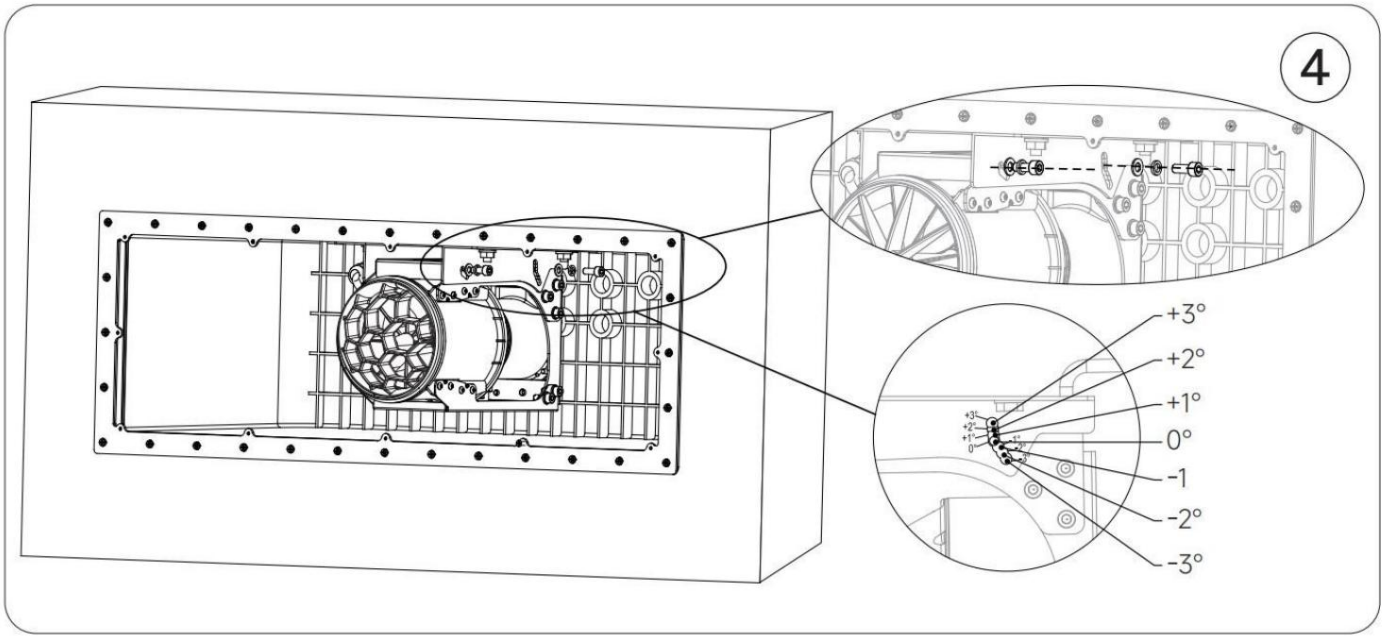
2. Installing the left and right brackets on the cover

Pre-fasten using four hexagonal flange nuts ÿ M10

ÿÿ left and right brackets to ÿ cover. Do not tighten the nuts yet at this stage.

3. Thread the Jet cable through the ÿ waterproof cable gland connectors

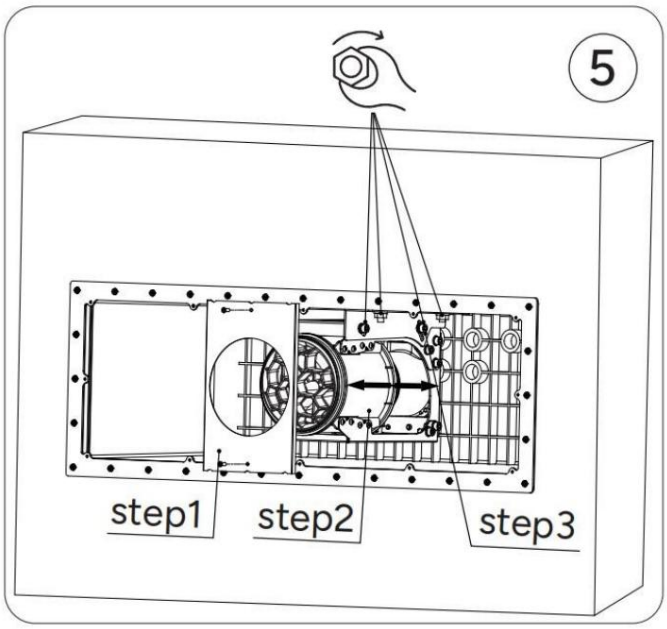
The cables marked blue (W), orange (V) and black (U) are routed from the rear ÿ of the housing in order from left to right to prevent cable clutter.

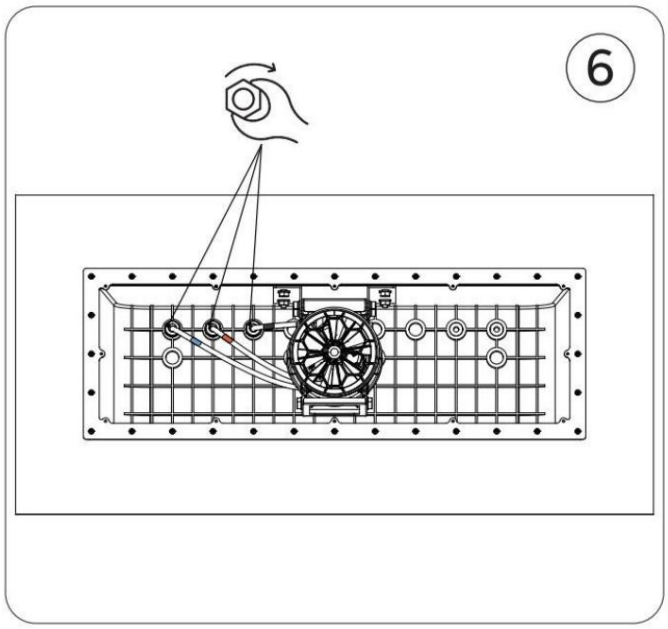


4. Attaching the nozzle to the holders

Attach the ÿ nozzle to the brackets using ÿ spring washers, ÿ flat washers and ÿ M8×20 hex head screws. Make sure the nozzle is flush with the wall; do not fully tighten the screws at this stage. Use only hand tools to avoid damaging the threads.

Note: If the angle needs to be adjusted, tighten the ÿM8×20 hexagon head screws according to the positioning holes on consoles.





5. Adjusting and fixing the nozzle using ÿ horizontal flush mounting plates DX510

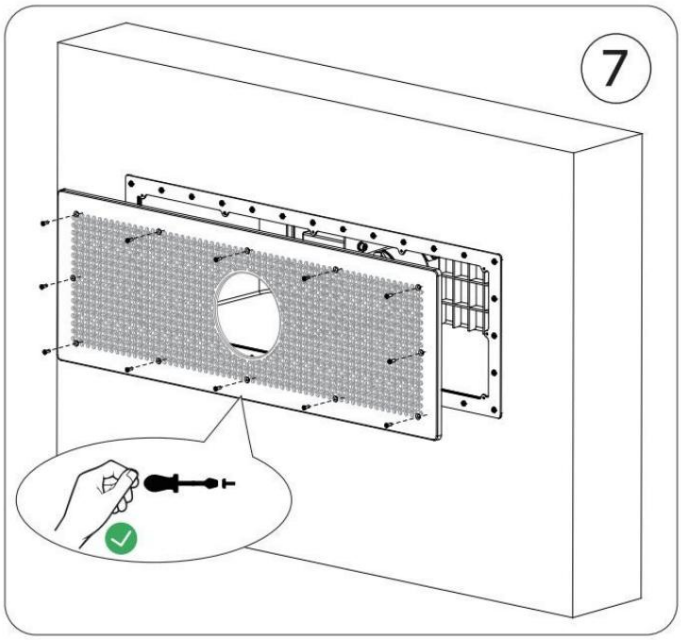
(1) Install the ÿ DX510 horizontal flush mounting plate using two ÿ M5×14 cross-head and countersunk head screws.

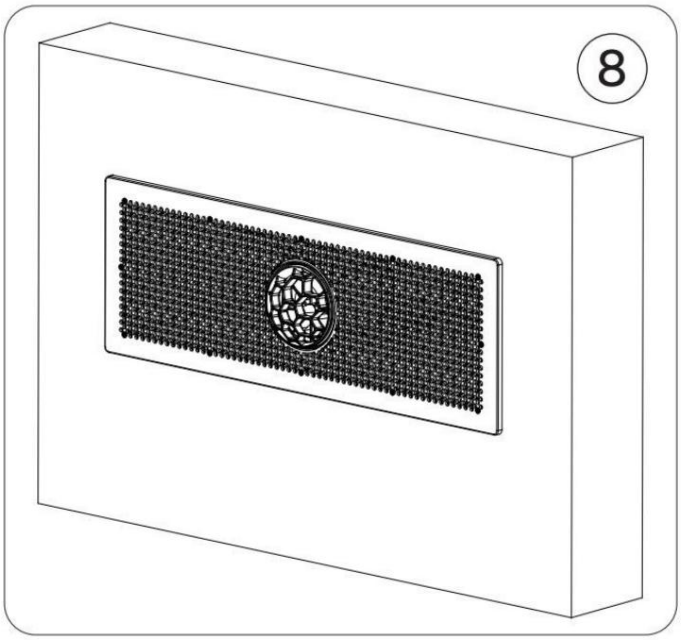
(2) Adjust the nozzle forward or backward so that the front end of the flow channel passes smoothly
ÿ DX510 and is pressed firmly against it.

(3) Secure the nozzle by fully tightening the ÿ M8 × 20 hex head bolts and ÿ M10 hex flange nuts, then remove the ÿ DX510 horizontal flush mounting plate.

6. Tightening the three waterproof cable connectors ÿ M20

Tighten the three M20 waterproof cable connectors **ÿ** to ensure a waterproof seal of the housing.





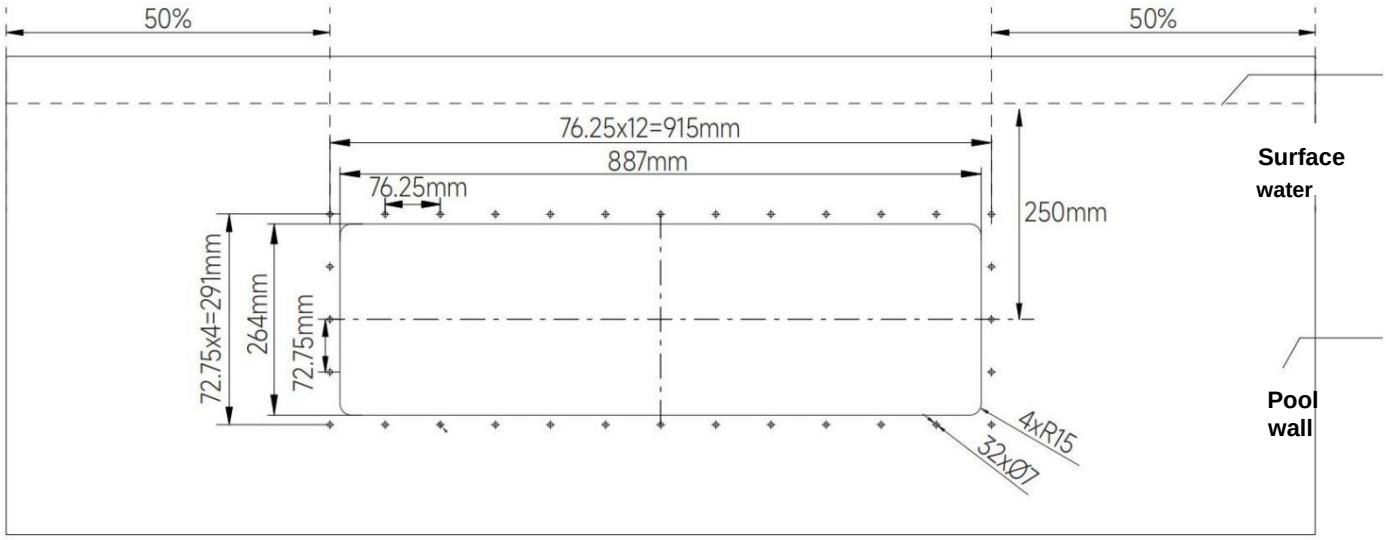
7. Installing ÿ the front cover

After removing the ÿ horizontal flush mounting plate of the DX510, install the ÿ front cover using twelve screws
ÿ M5 x 14 with cross head and countersunk head.
Note: To avoid damaging the threads, please use only hand tools; do not use power tools.

8. Final nozzle installation diagram

6.3 Installing the nozzle in prefabricated pools

6.3.1 Template for cut-out in prefabricated pool walls



For prefabricated pools, it is necessary to reserve the above-mentioned holes and ensure that their center is 250 mm below the water level.

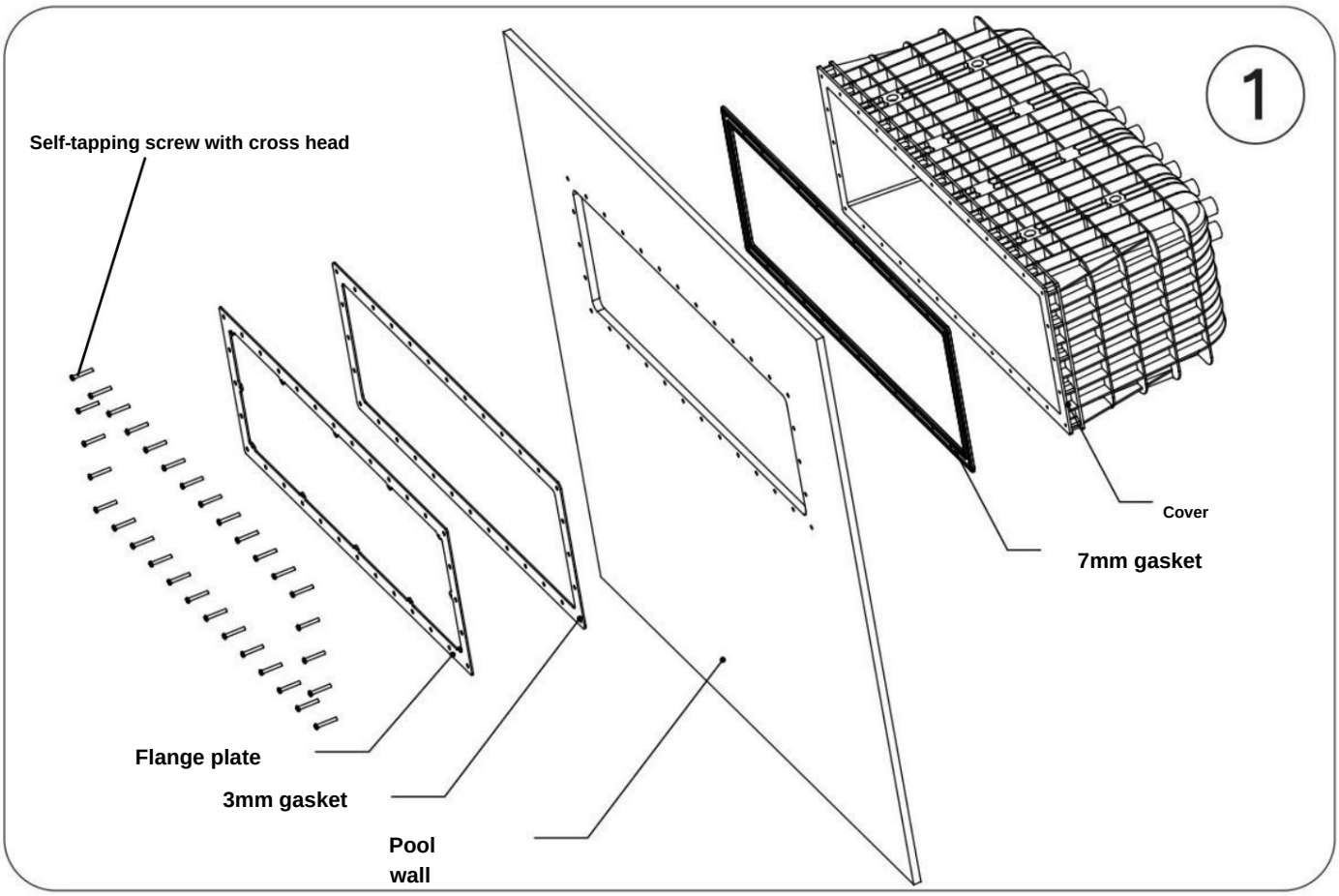
1. Centering and symmetrical placement Horizontal alignment: The nozzle must be installed in the center of the pool wall (usually on the shorter side) to ensure a symmetrical current field.
2. Vertical placement and orientation Water level reference: Make sure the nozzle centerline is positioned exactly 250mm below the design water level. (Note: Installation depth directly affects flow saturation and risk of air intake).
3. Hole cutout specifications Dimensions: Rectangular hole measuring 887 x 264 mm with 32 evenly spaced through holes with a diameter of 7 mm distributed around the circumference.

Safety instructions for installing Jet:

Installation location and depth requirements:

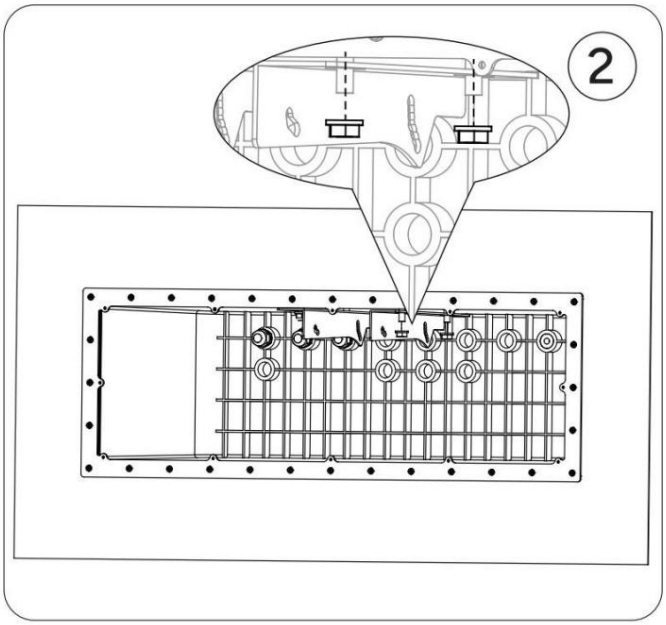
- Installation depth: 250 mm below the water surface (distance between the center of the nozzle and the water surface).
- Installation location: Must be installed horizontally in the center of the pool wall.

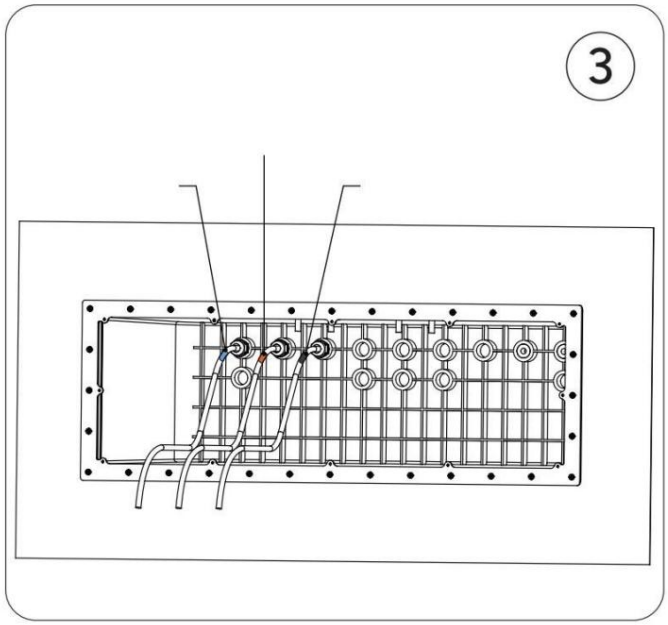
6.3.2 Installation procedure for prefabricated pools



1. Mounting the cover on

the pool Place the cover in the pre-cut mounting hole. In the order shown in the diagram, assemble the ÿ cover, ÿ 7mm gasket, pool wall, ÿ 3mm gasket and ÿ flange plate from right to left. Secure the assembly with the appropriate ÿ cross-head self-tapping screws according to the thickness of the pool wall.





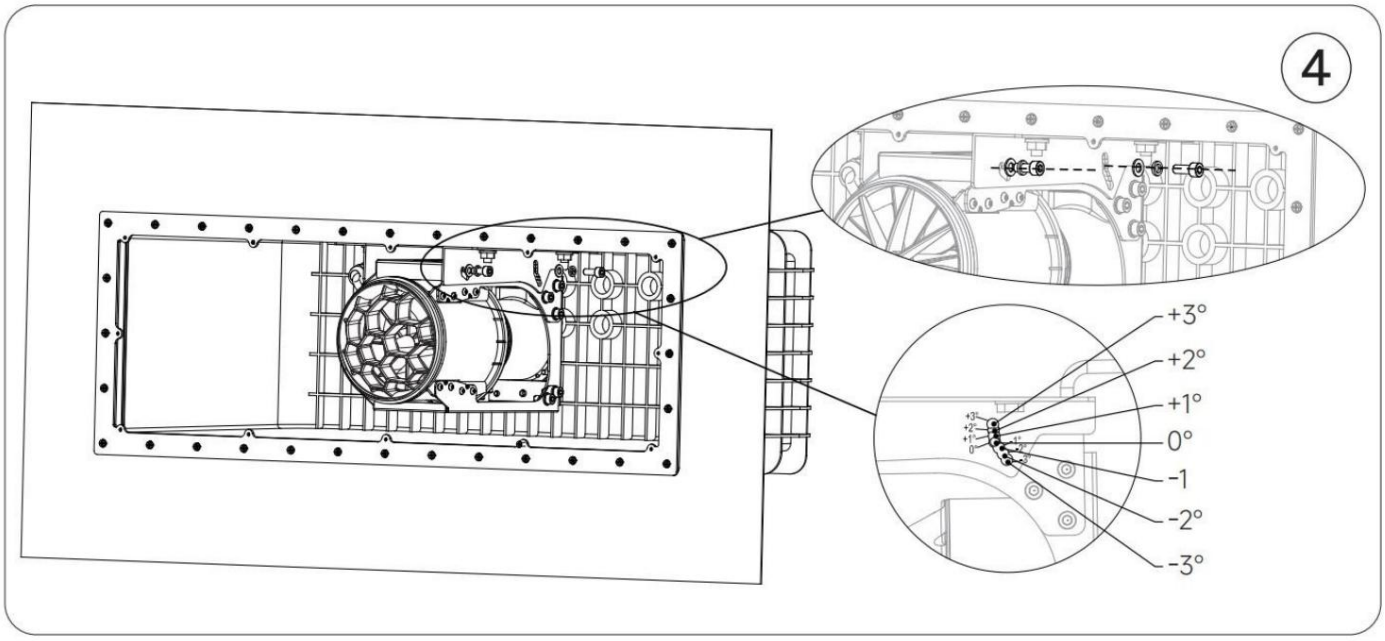
2. Installing the left and right brackets on the cover

Pre-fasten using four ÿ M10 flange hex nuts

ÿÿ left and right brackets to ÿ cover. Do not tighten the nuts yet at this stage.

3. Pass the nozzle cable through the ÿ waterproof cable gland connectors

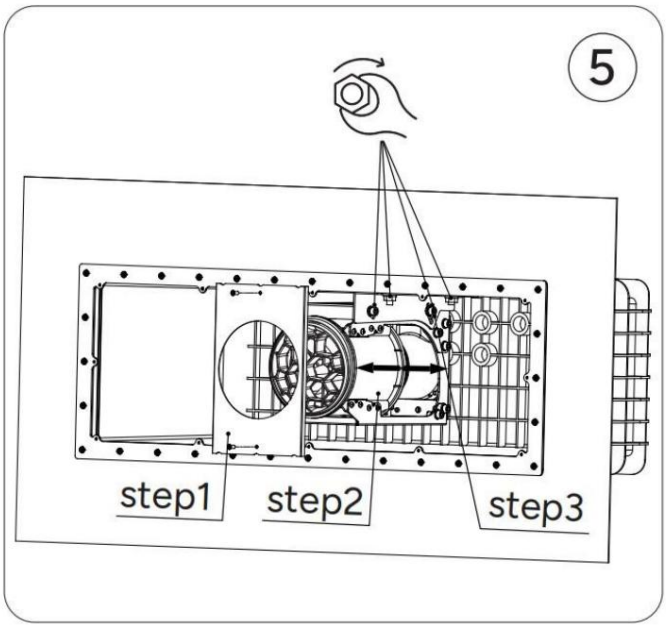
The cables marked blue (W), orange (V) and black (U) are routed from the rear ÿ of the housing in order from left to right to prevent cable clutter.

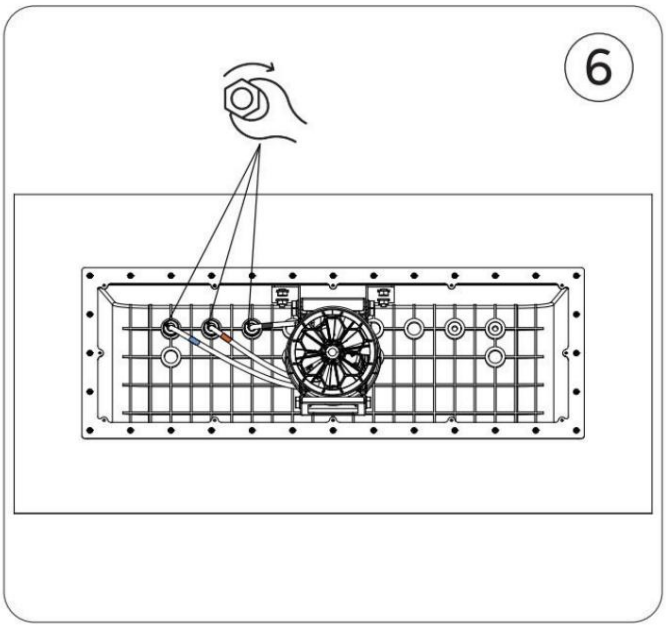


4. Attaching the nozzle to the holders

Attach the nozzle ÿ to the brackets using ÿ spring washers, ÿ flat washers and ÿ M8×20 hexagon socket screws. Make sure the nozzle is flush with the wall; do not tighten the screws at this stage. Use only hand tools to avoid damaging the threads.

Note: If the angle needs to be adjusted, tighten the ÿM8×20 hexagon head screws according to the positioning holes on consoles.





5. Adjusting and fixing the nozzle using ÿ horizontal flush mounting plates DX510

(1) Install the ÿ DX510 horizontal flush mounting plate using two ÿ M5×14 cross-head and countersunk head screws.

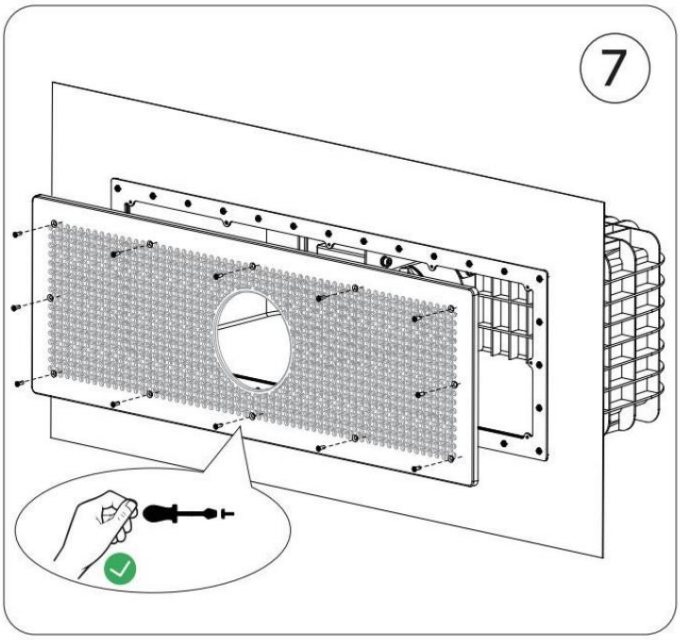
(2) Adjust the nozzle forward or backward so that the front end of the flow channel passes smoothly

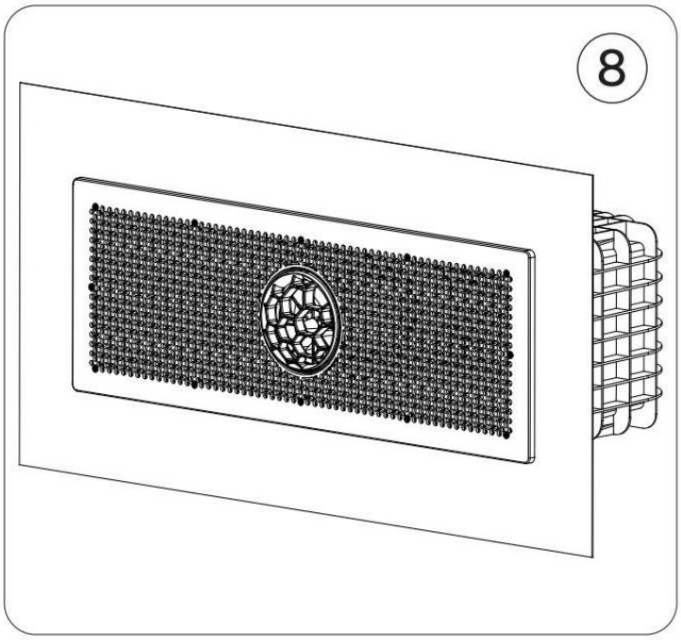
ÿ DX510 and is pressed firmly against it.

(3) Secure the nozzle by fully tightening the ÿ M8 × 20 hex head bolts and ÿ M10 hex flange nuts, then remove the ÿ DX510 horizontal flush mounting plate.

6. Tightening the three waterproof cable connectors ÿ M20

Tighten the three M20 waterproof cable connectors **ÿ** to ensure a waterproof seal of the housing.





7. Installing ÿ the front cover

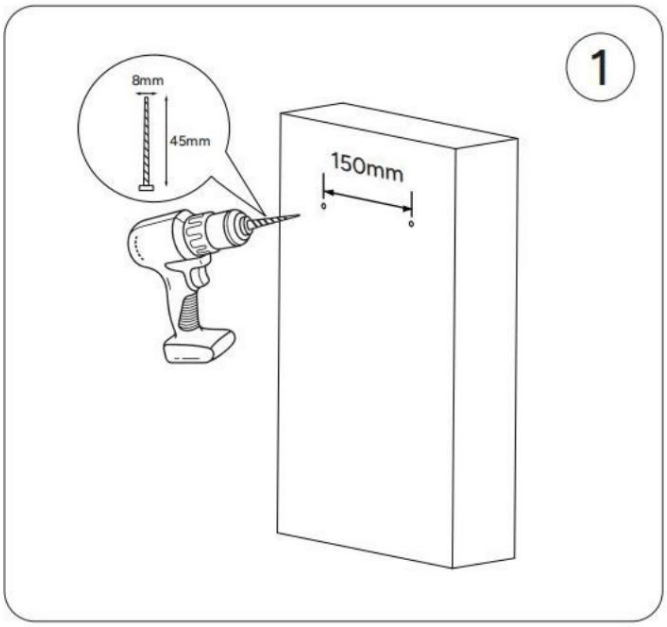
After removing the ÿ horizontal flush mounting plate of the DX510, install the ÿ front cover using twelve screws

ÿ M5 x 14 with cross head and countersunk head.

Note: To avoid damaging the threads, please use only hand tools; do not use power tools.

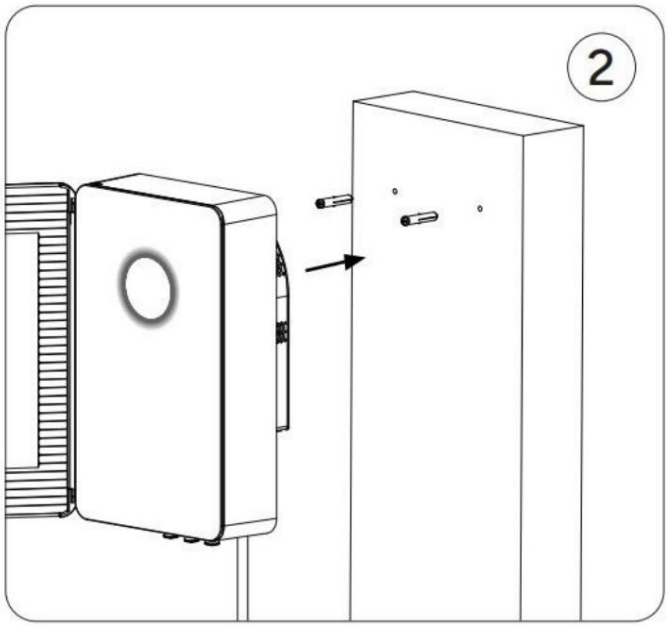
8. Final Jet installation diagram

6.4 Installing the power supply box and control panel



1.Drill the mounting holes

(1) Drill 2 holes horizontally into the wall, 150 mm apart. (2) The recommended drill diameter is 8 mm, hole depth 45 mm.

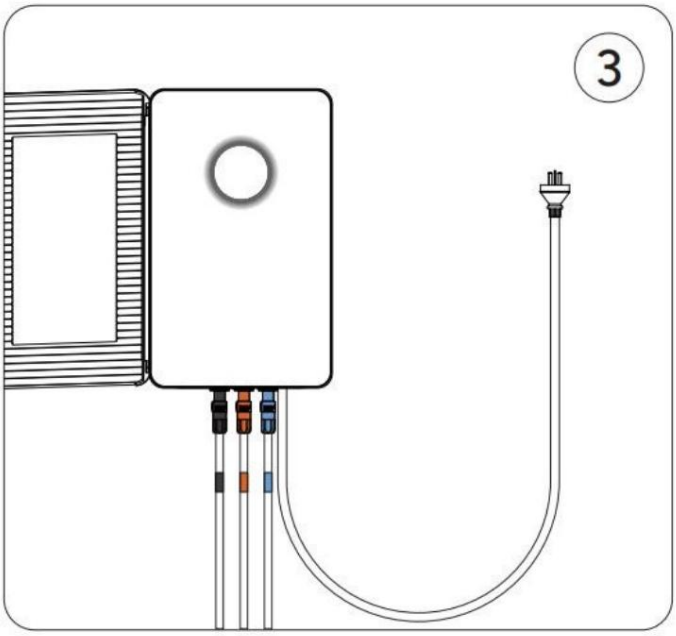


2.Fix the power box

(1) Install the expansion tube into the drilled hole and screw in the self-tapping screws.

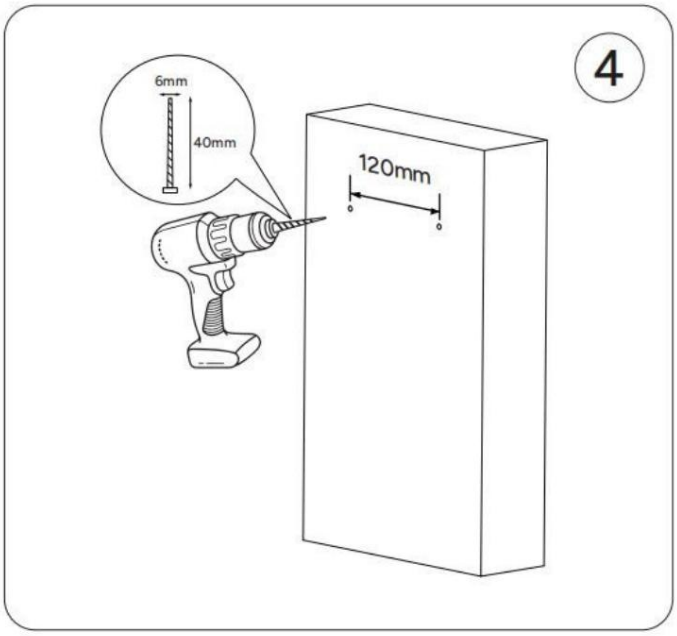
(2) The power box can be aligned with the hanging holes.

(3) Pay attention to the installation direction so that the cable sockets are located at the bottom.



3. Connect the Jet cables to the power box: Connect the Jet cables to the power box connectors by matching the appropriate colors.

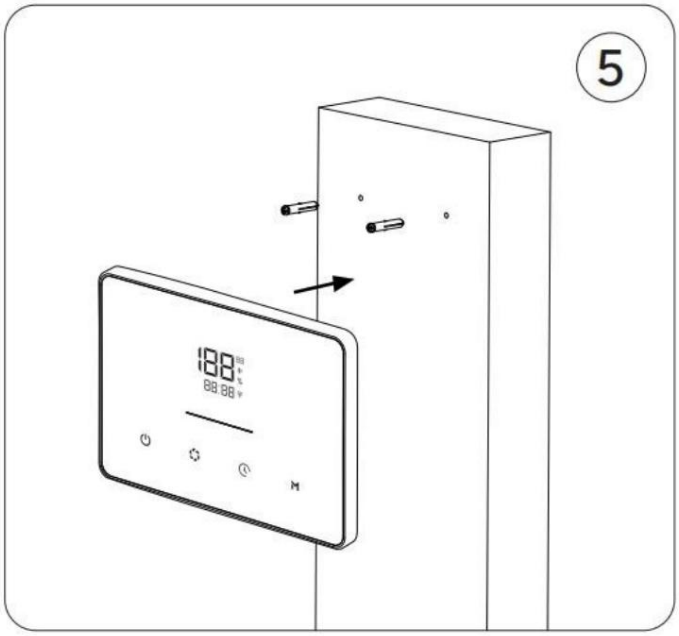
The colors of the cable connectors are: black, orange and blue.

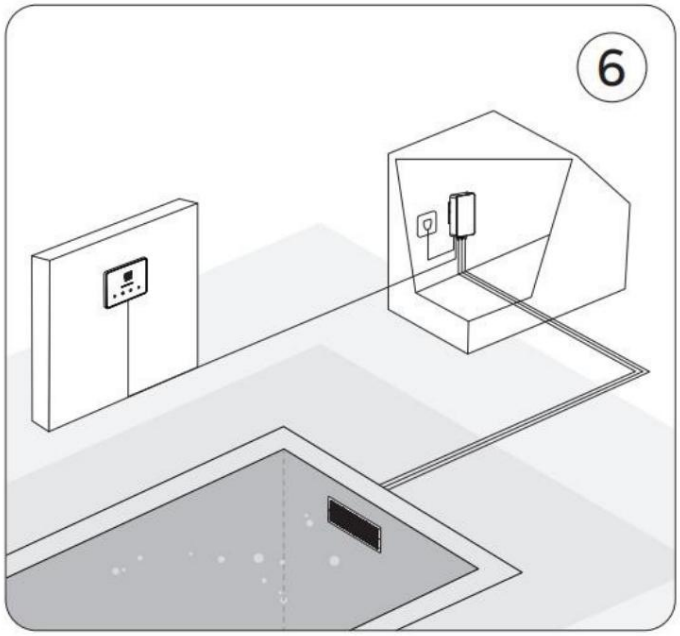


4.Drill the mounting holes

(1) Drill 2 holes in the wall in a horizontal plane, 120 mm apart.

(2) The recommended drill diameter is 6 mm, hole depth 40 mm.





5. Fasten the control panel

(1) Insert the expansion tube into the drilled hole and screw in the self-tapping screws.

(2) The control panel can be aligned with the hanging holes.

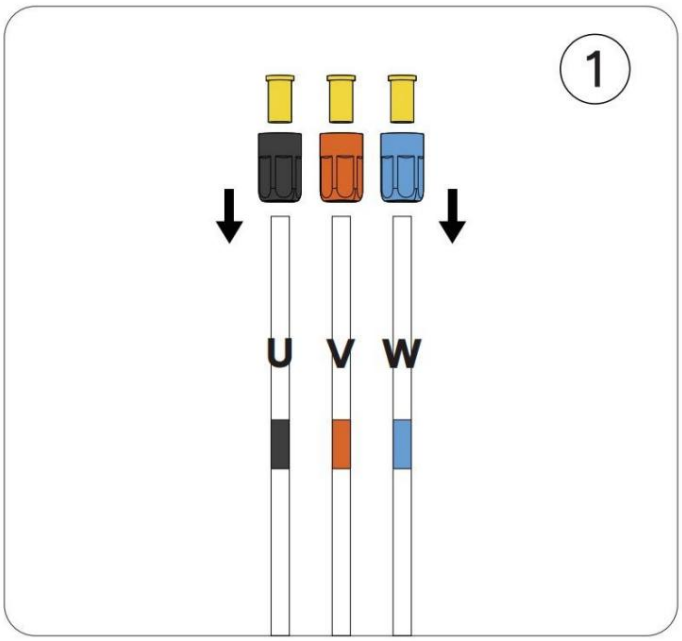
(3) Pay attention to the installation direction so that the cable connectors are positioned at the bottom.

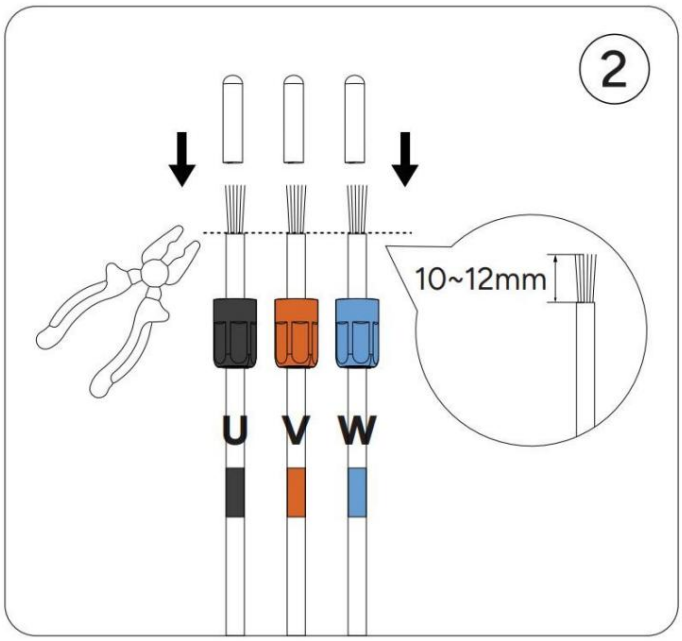
6.Swim Jet installation diagram

After installation is complete, please test the motor to ensure it is running in the correct direction. When viewed from the power output side (front), the impeller blades must rotate counterclockwise.

6.5 Installation instructions for direct connection connectors

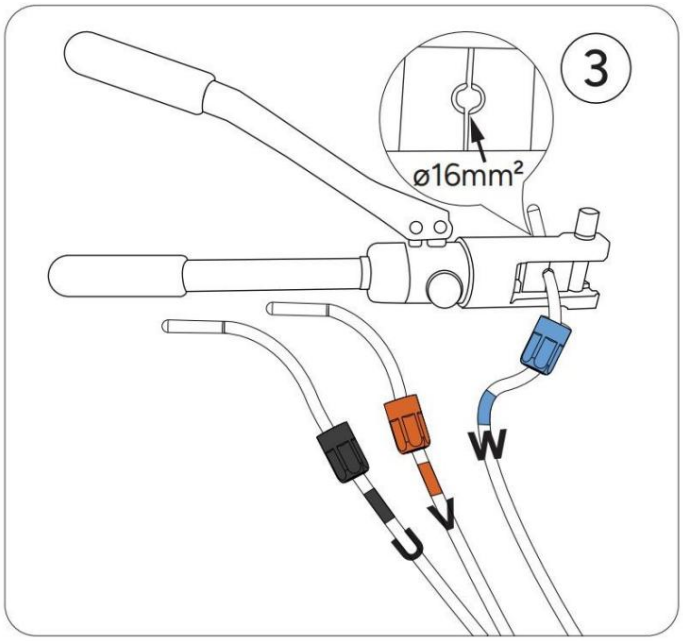
For models without a junction box, after threading the nozzle cables through the holes in the cover, you must press the metal clamps and install plugs for direct connection. The specific procedure is as follows:

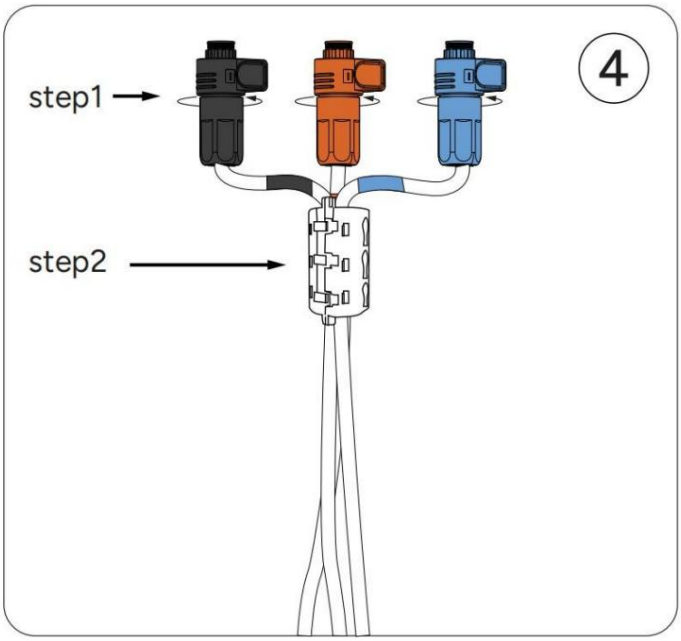




1. According to the color marking, thread the U wire through the black, the V wire through the orange, and the W wire through the blue locking nut and rubber sleeve.

2. Strip the wires to a length of 10–12 mm and insert the wire core into the metal terminals.





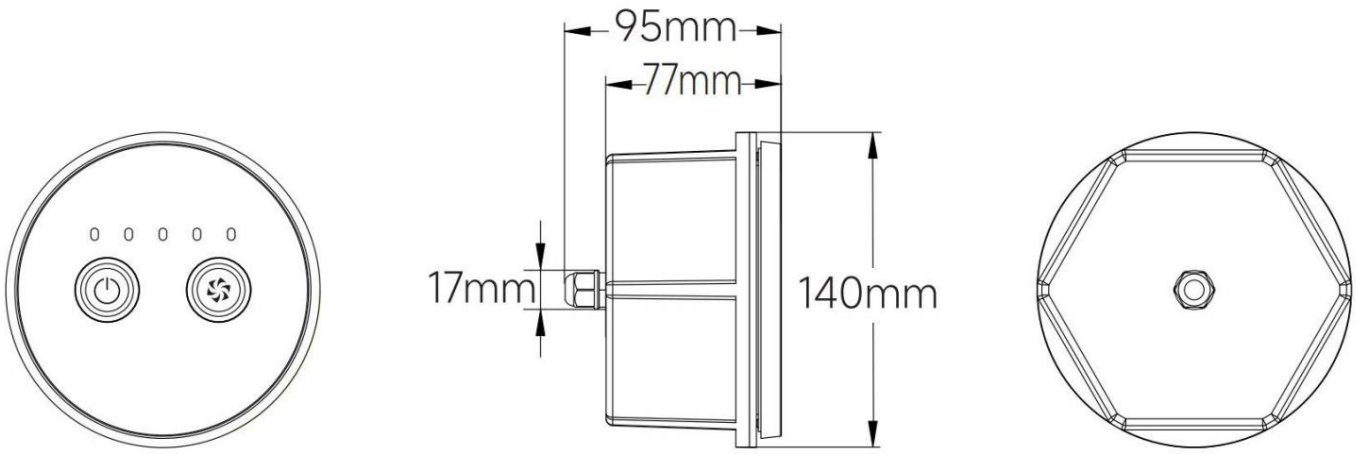
3. Using crimping pliers with a 16 mm² blade, press the metal terminals firmly.

4. Insert the molded metal terminals into the direct-connect plug and tighten the lock nut securely.

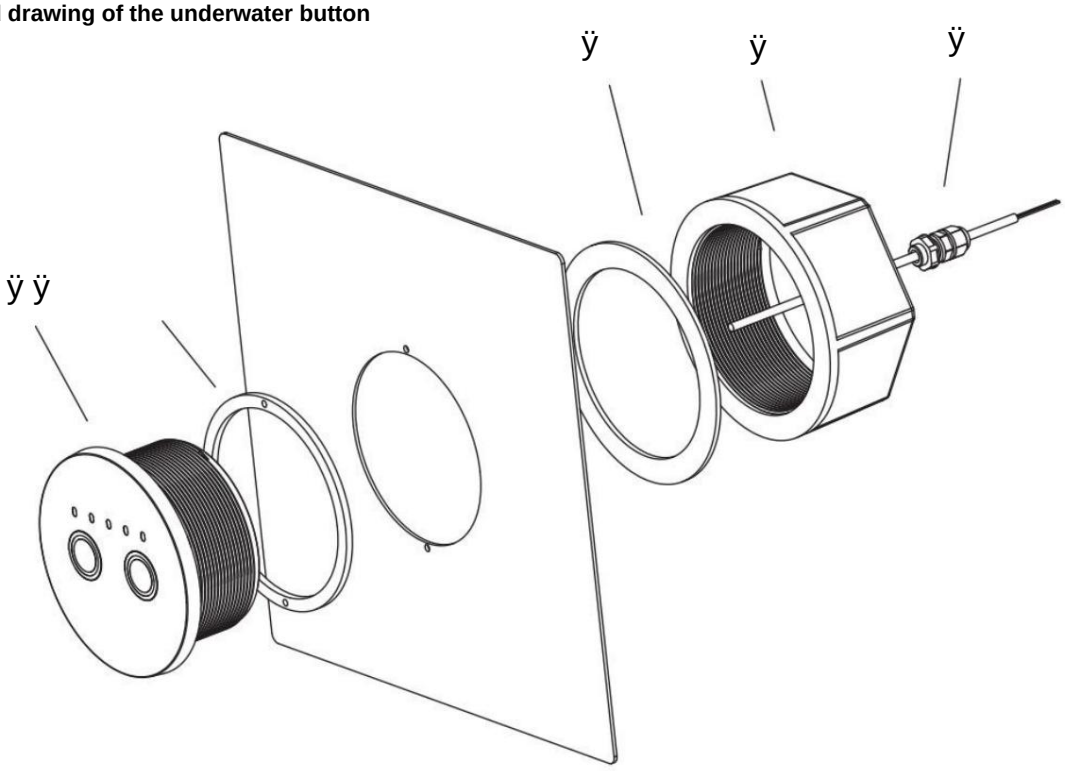
Place the ferrite core on the UVW cables. Close the core and make sure the latches are fully engaged. The ferrite core must be firmly attached to the cable without any looseness.

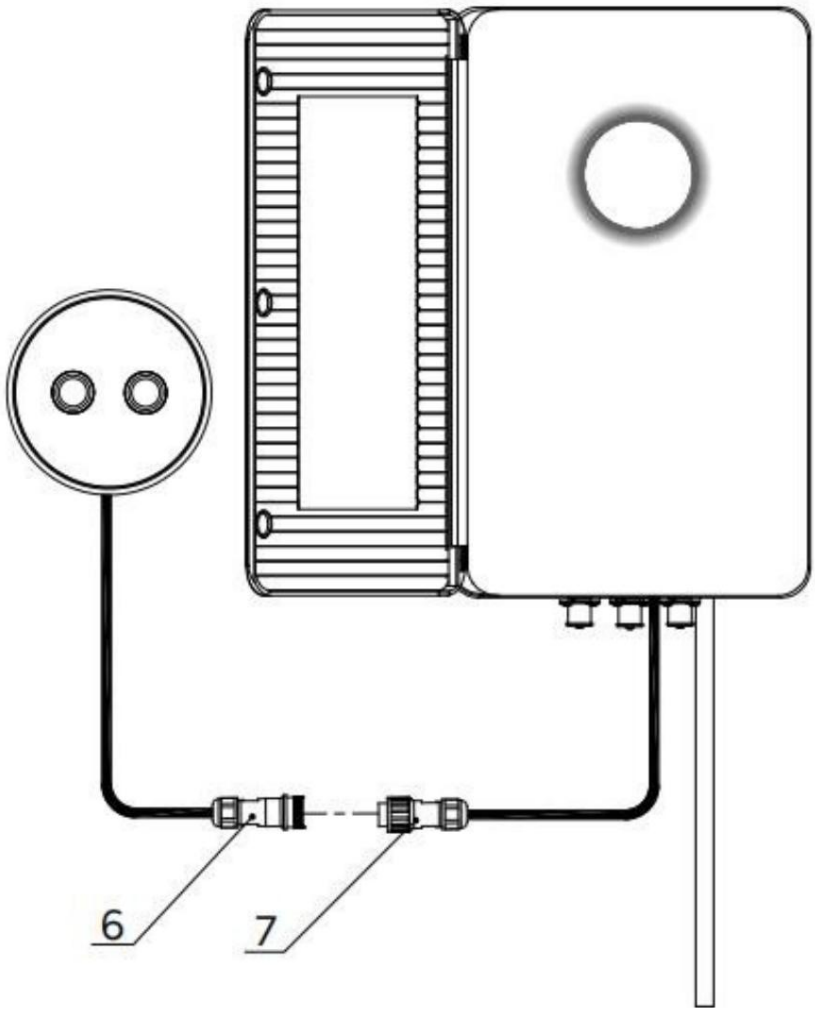
7. Installing the underwater button (optional)

7.1 Underwater button construction diagram



7.2 Exploded drawing of the underwater button

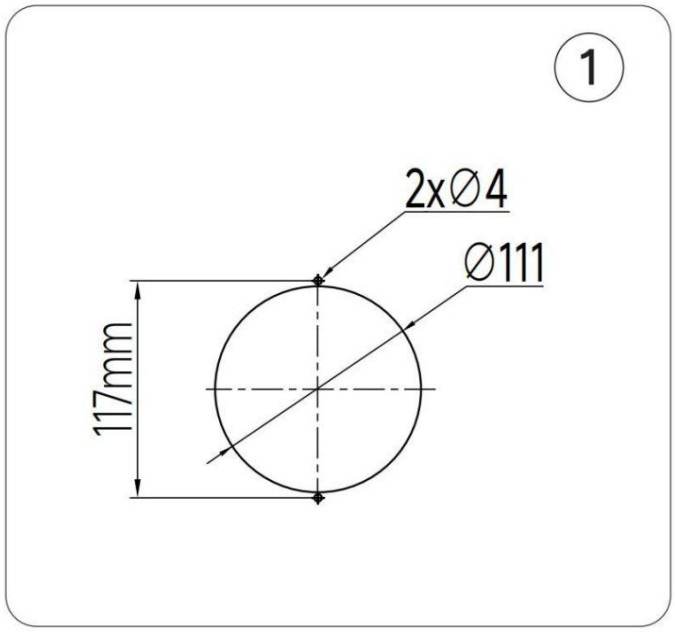




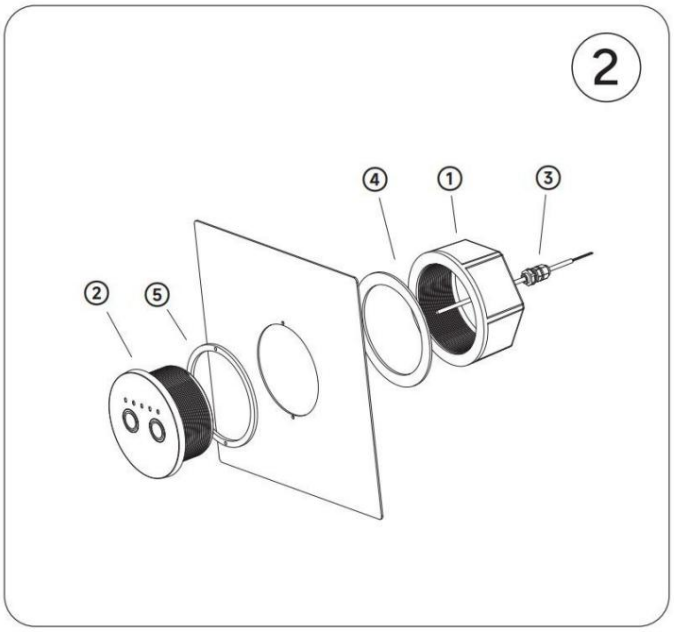
7.3 Configuring underwater buttons

SN	Description	Amount
ÿ	Underwater button cover ÿ 140×63 mm, ABS	1
ÿ	Underwater panel with buttons ÿ 130×60 mm, ABS	1
ÿ	Waterproof M12 cable connector	3
ÿ	Gasket ÿ 138×3 mm, EPDM	1
ÿ	Seal ÿ 124×4.2 mm, silicone rubber 4-pin	1
ÿ	aviation connector (female)	1
ÿ	4-pin aviation connector (male)	1

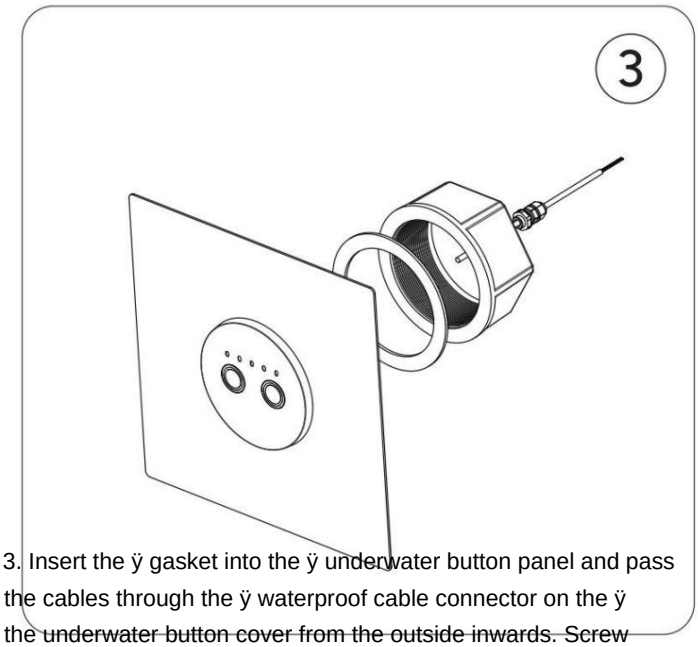
7.4 Underwater button installation instructions



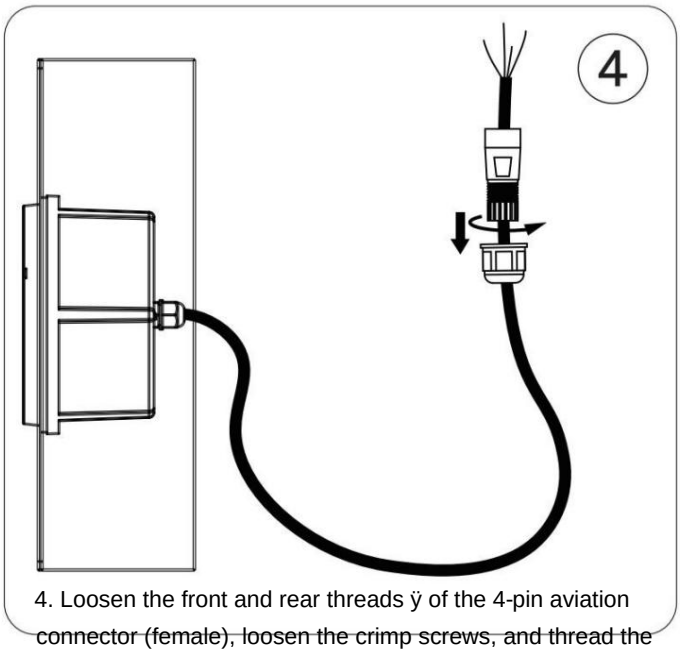
1. Hole and location: Drill a through hole with a diameter of 111 mm into the pool wall; drill two 4 mm diameter positioning holes vertically from the center of the through hole, with a spacing of 117 mm between the holes.



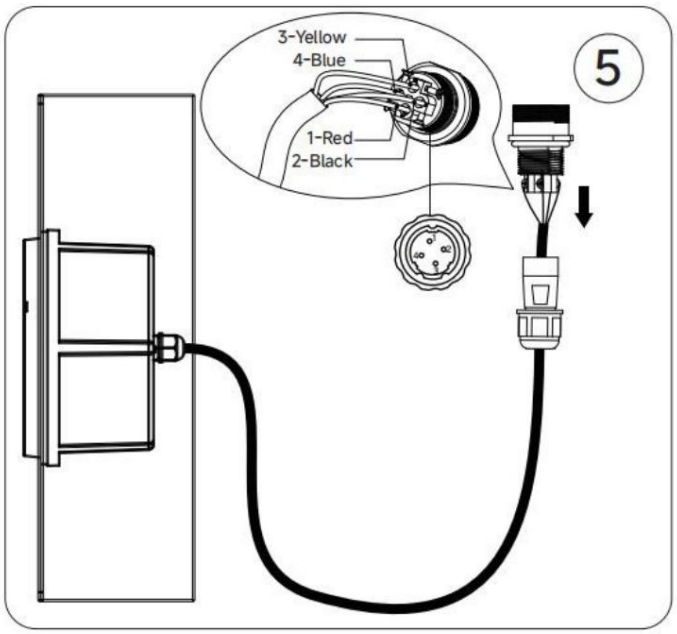
2. Install the ÿ gasket into the ÿ underwater button panel, insert the component into the through hole, and make sure that the positioning pin on the ÿ underwater button panel is accurately inserted into both positioning holes.



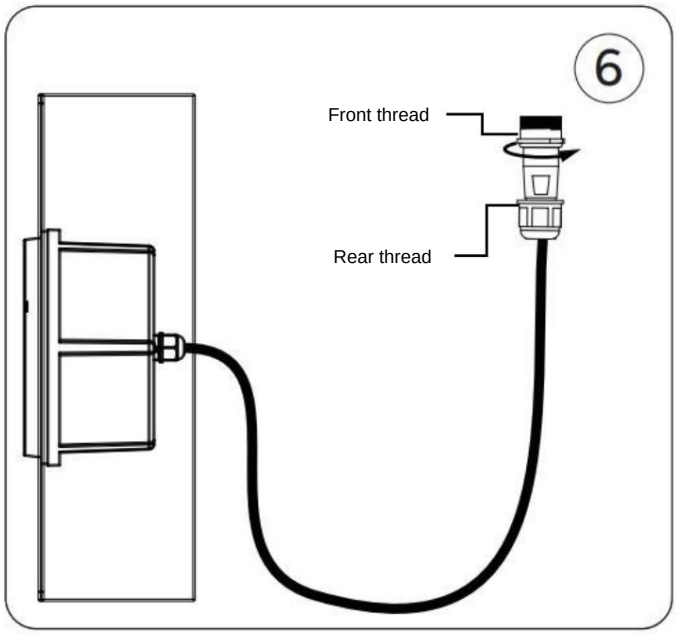
3. Insert the ÿ gasket into the ÿ underwater button panel and pass the cables through the ÿ waterproof cable connector on the ÿ the underwater button cover from the outside inwards. Screw ÿ the underwater button cover into the ÿ underwater button panel and tighten it, then tighten the ÿ waterproof cable connector and check whether the two seals ÿ ÿ fit well.



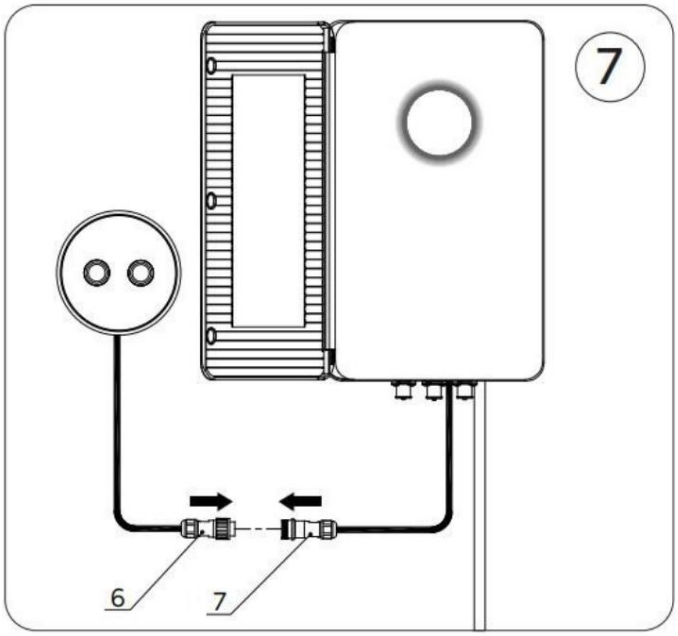
4. Loosen the front and rear threads ÿ of the 4-pin aviation connector (female), loosen the crimp screws, and thread the cables ÿ through the 4-pin aviation connector (female) one by one.



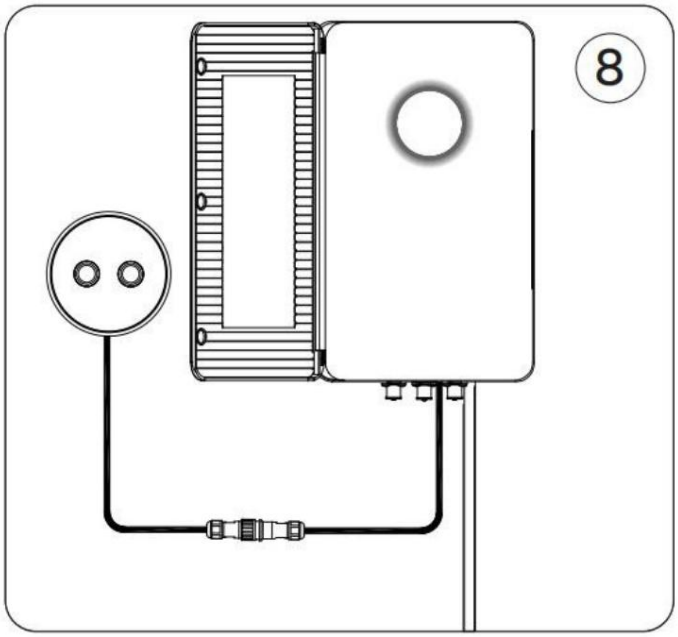
5. After the cables pass through the ÿ 4-pin aviation connector (female), connect them one by one according to the color and serial number. Connect 1 to the red wire, 2 to the black wire, 3 to the yellow wire, 4 to the blue wire and tighten the screws.



6. Tighten the front and rear threads ÿ of the 4-pin aviation connector (female) one by one.

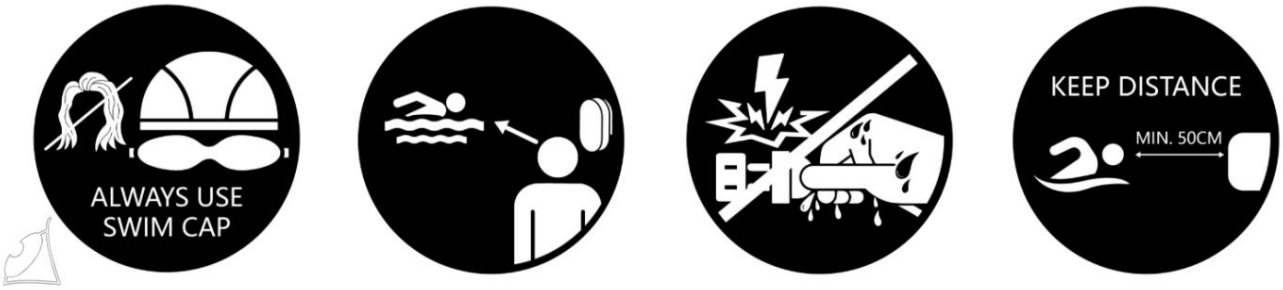


7. Insert the ends of the aviation connector ÿ 4-pin aviation connector (female) and ÿ 4-pin aviation connector (male) into each other.



8. Schematic drawing of the completed underwater button installation.

8. How to use Swim Jet



8.1 Check before use

a. Check the power supply and connections;

- Make sure the device is turned off.
- Check the cables: check that all cables are connected properly and are not damaged or worn; if damaged, do not use the product and contact your representative for repair.

b. Check the condition of the nozzle and the pool

- Make sure the nozzle is completely submerged.
- Remove obstacles: check that there are no obstacles in the pool, especially near the nozzle, to there was no disruption to its operation.

c. Security check

- Current leakage protection: Make sure the residual current device (RCD) is working properly.
- Wear a swimming cap and swimming goggles.

d. Preparation for operation

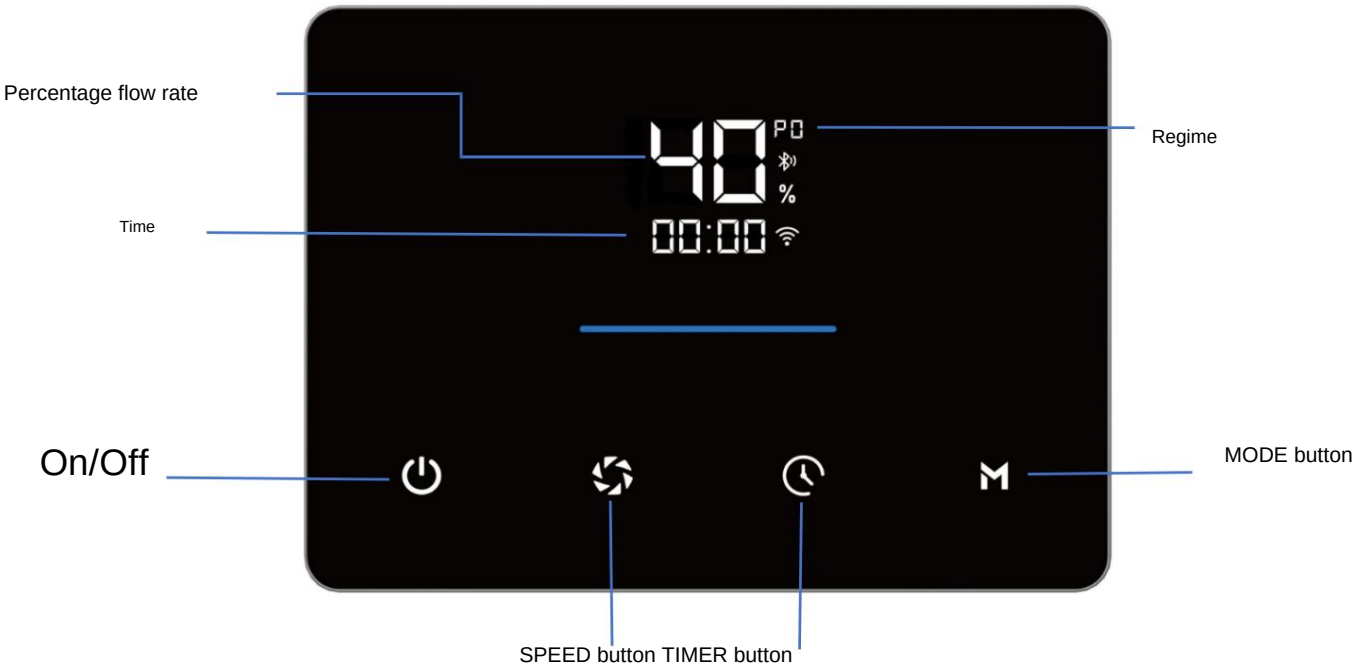
- Operation check: Before starting, make sure that no one is near the nozzle; During starting the device monitor it continuously.
- Control panel: Check the control panel for damage or loose cables.

e. Usage tips:

- ⚠ DANGER: To avoid electrical shock, do not plug or unplug the power cord with wet hands. hands.
- Maintain a safe distance: Maintain a safe distance of at least 50 cm from the Jet during operation.

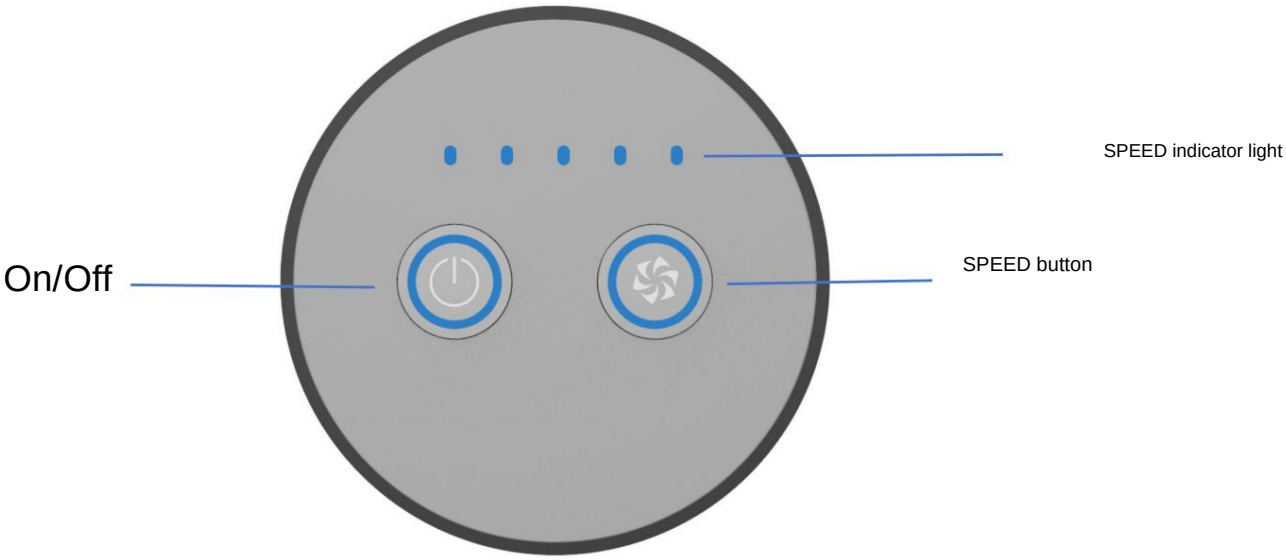
f. After verifying the above safety precautions, the user can turn on the power

8.2 Description of the touch buttons on the control panel



Name	Function	Description
On/Off turned on	1ÿPower on	The control panel and power supply unit are connected in a standard way. After turning on the power supply unit, press and hold the ON/OFF button for 2 seconds to turn on the device. The jet automatically switches to free mode after starting.
	2ÿShutdown	Hold the button for 2 seconds to turn off the device. Before shutdown and will be used as the default the next time the Jet is turned on.
	3ÿSuspension	A quick click will interrupt the mode while it is running. If no operation occurs after for 30 minutes In pause mode, the system automatically turns off.
	4ÿRecovery	A quick click in the paused state will restore the state before pausing.
REGIME	1ÿSwitch mode	Tap to switch between different modes: free mode (P0), training mode (P1–P4), and surfing mode (P5).
TIMER 1ÿStart timer		Quickly click to enter timer mode.
	2ÿSettings various timers	Tap the TIMER button to set. There are six timers available: 15 min, 30 min, 45 min, 60 min, 75 min, 90 min.
SPEED	1ÿSpeed setting	Click the SPEED button to switch the flow rate, there are five speeds available: 20 %, 40%, 60%, 80%, 100%

8.3 Underwater button (optional) Description



Name	Function	Description
On/Off turned on	1ÿPower on	The control panel and power box are connected in a standard way. After turning on the power box, press and hold the ON/OFF button for 2 seconds to turn on the device. The jet automatically switches to free mode after starting.
	2ÿShutdown	Hold the button for 2 seconds to turn off the device. Before and will be used as the default the next time the Jet is turned on.
SPEED	1ÿSpeed setting	Click the SPEED button to switch the flow rate; there are five speeds available: 20%, 40%, 60%, 80% and 100%. When the flow rate changes, the gear position will change according to the selected speed. 20% corresponds to 1 light, 40% corresponds to 2 lights, and so on. further.

8.4 Power Box Display Instructions

Power box opening color	State	Illustration
White	Standby mode	Including power off, pause, menu settings and more states
Blue	Start status (motor on) Indicates that the device is running	
Red	Fault status	Indicates that there is an irregularity or malfunction in the device device

8.5 Mode Description

8.5.1 Introduction to modes

Mode type	P0 (Free)	P1 (Beginner)	P2 (Intermediate)	P3 (Advanced)	P4 (Perseverance)	P5 (surfing)
Length	Optional	15 minutes	20 minutes	25 minutes	30 minutes	Continuation
Percent speeds range	20% - 100%	20% - 35%	45% - 70%	70% - 85%	45% - 65%	30% - 100%
Function	Supports manual adjustment of flow levels (20%, 40%, 60%, 80%, 100%), without time limit restrictions, suitable for everyday use relaxation or technical training.	Gentle stream with adjustable intensity – ideal for beginners and water sports rehabilitation.	High intensity mode with with a performance range of 70% to 85%. Offers strong wave patterns designed for advanced swimmers.	The flow is consistently high with intermittent changes in range from 70 % to 85 % with a bigger wave	Endurance training, focused more on continuity swimming training.	Dynamic fast current with fast transitions, simulating authentic environment for surfing.

Note: In surfing mode, the water flow changes at a high speed and has a certain impact force. Users are advised to wear appropriate swimming equipment, such as swimming rings, swimming sleeves, swimming vests, etc., as well as a swimming cap and glasses to ensure safety.

8.5.2 Current Speed Mode Details

The Swim Jet has 6 modes: free mode (P0), training modes (P1, P2, P3, P4) and surfing mode (P5). Between each mode you can switch by pressing the MODE button.

P0 (Free):

Duration	Optional
Speed inverter	20%, 40%, 60%, 80%, 100%

P1 (beginner):

Duration	0–2 minutes	3–5 minutes	6 minutes	7–9 minutes	10 minutes	11–13 minutes	14–15 minutes
Inverter speed	20%	30%	20%	35%	20%	30%	20%

P2 (intermediate):

Duration	0–3 minutes	4–6 minutes	7–8 minutes	9–12 minutes	13 minutes	14–17 minutes	18–20 minutes
Inverter speed	45%	55%	45%	70%	45%	55%	45%

P3 (advanced):

Length	0–5 minutes	6–9 minutes	10 minutes	11–14 minutes	15 minutes	16–20 minutes	21–25 minutes
Inverter speed	70%	80%	70%	85%	70%	80%	70%

P4 (Endurance):

Duration	0–7 minutes	8–24 minutes	25–30 minutes
Inverter speed	45%	65%	45%

P5 (Surfing):

Duration	Continuation
Inverter speed	Quickly switch between 30% and 100%.

8.6 Speed setting

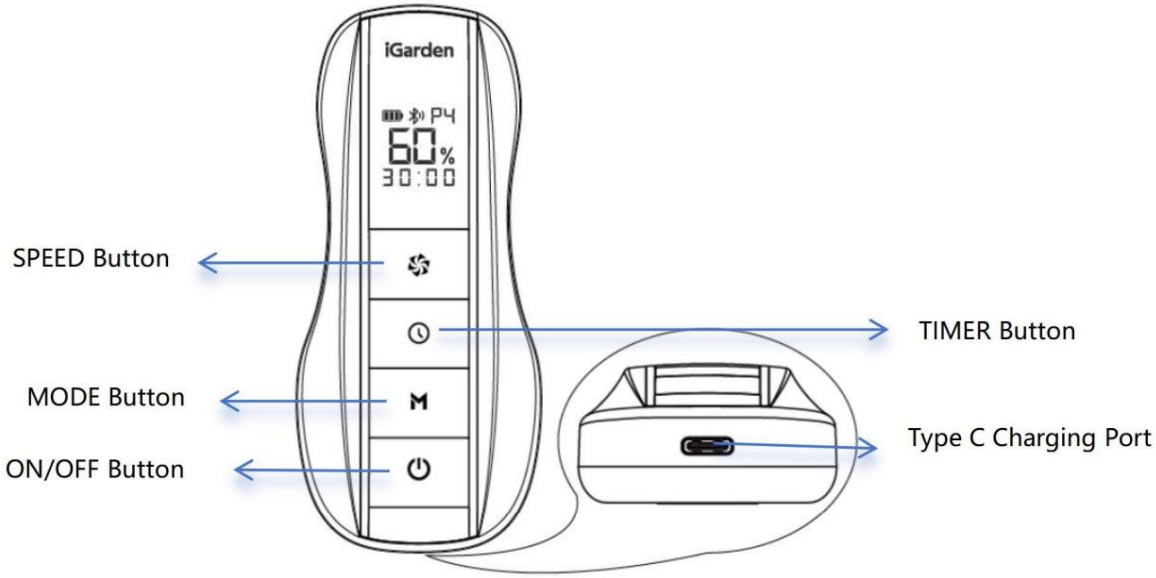
Click the SPEED button to switch the speed in order (20%/40%/60%/80%/100%). In training modes P1~P4 you can click the SPEED button to change the speed, but the change only applies to the current time period and does not affect the entire training plan.

Note: Speed cannot be adjusted in Surfing mode.

8.7 Setting the time

Click the TIMER button  you will go to settings, click again to select the training time (15/30/45/60/75/90 minutes) and you can also select 5 flow rates (20%/40%/60%/80%/100%). The timer mode will start automatically after 3 seconds of inactivity and the time will start to count down. When the countdown is over, the running time and speed will start to flash and then switches to free mode. The speed can be adjusted at any time in timer mode. Press the MODE button to switch and  exit timer mode, this also applies to other operating modes.

9. How to use the remote control



9.1 Switching on

9.1.1 Procedure

• In the off state, press and hold the on/off button  for 2 seconds. The remote control display will lights up and the message "  ".

• After successful Bluetooth pairing, the screen will sync and display real-time information from the power source (e.g. current flow rate, operating time, current mode, Bluetooth connection status).

9.1.2 Remote control location

• The remote control can be magnetically attached to the right side of the power box and to the top cable cover. Both locations

They have dedicated magnetic attachment points and are labeled with stickers for easy identification and placement.

9.1.3 Troubleshooting Bluetooth connection errors

• If the Bluetooth connection fails, the interface will stop responding and the Bluetooth icon will flash rapidly. To do this,
To resolve the problem, move closer to the power box (signal source) to automatically reconnect. Once
When the connection is restored, the interface will automatically synchronize with the data from the power box.

• After powering on, the buttons on the remote control work the same as on the power box and their information remains
synchronized in real time.

9.1.4 Description of transmission range

• The effective Bluetooth transmission range between the remote control and the power supply is 20 meters (ÿ20 meters) (in an ideal
(unobstructed environment - there are no obstacles between the remote control and the power supply). The actual range may be
limited by obstacles or signal interference. It is recommended to keep the device in direct line of sight during use.

9.1.5 Procedure in case of water ingress

• Treatment for water ingress: If the remote control falls into the pool, remove it as soon as possible and follow the steps below.
the instructions given.

1. Shake off water: Gently shake the remote control (with the opening facing down) to remove water from the ports and gaps.

2. Wipe the surface: Use a dry cloth to remove moisture from the cover, charging port, etc.

Note: If there is any moisture left in the device, do not turn it on or charge it, and do not use high-temperature drying.

9.2 Shutdown

9.2.1 Procedure

• Press and hold the on/off button  for 2 seconds until the screen turns off.

• If the power supply unit is on, turning off the remote control will also turn off the power supply unit.

9.3 Power Management

The power status indicator has 3 squares. If the power level is low (only one square left), charge the device in time.

a. Charging method: Use the Type-C charging cable to charge. Plug one end of the charging cable into the charging port
remote control (on the bottom right below the remote control) and the other end into the power adapter. Make sure

Make sure the charging cable is securely connected.

b. Charging process: During charging, the battery status indicator will show the charging progress. When the battery is fully charged, charged, the charging indicator will show a full bar.

c. Charging temperature: Do not charge in high or low temperature environments. Charging environment temperature range is: 0–45°C.

d. Continuous charging time: The battery cannot be charged continuously for more than 24 hours.

9.4 Storage requirements

To ensure proper performance and longevity of the remote control, please store it within the following temperature range:

• Short-term storage (up to 1 month): -20°C to 45°C.

• Medium-term storage (up to 3 months): -20°C to 35°C.

• Long-term storage (up to 1 year): -20°C to 25°C.

Note: If the remote control is stored for more than 3 months in factory condition, it is recommended to charge it once and keep the charge capacity at 75% (2 bars) to maintain good battery condition.

9.5 Re-pairing via Bluetooth

If you replace the remote control or power supply unit, you must re-pair them according to the following instructions:

• Before replacing the new remote control, make sure the old remote control is not within signal range, or delete it pairing information of the old remote control.

• To delete the pairing information of the old remote control: With the power supply off, press and hold simultaneously MODE + TIMER buttons  for 2 seconds to clear the remote control pairing information.

Pairing steps:

a. After turning on the power supply, press and hold the MODE button + TIMER button   for 2 seconds to switched to Bluetooth pairing mode.

b. Make sure the remote control is within signal range (20 m).

c. On the remote control, press and hold the MODE button + TIMER button   for 2 seconds to enter into pairing mode. The Bluetooth icon flashes slowly during pairing. Once paired, the icon lights up continuously. If If pairing fails within 1 minute, the icon will start flashing rapidly again.

• If pairing is not completed within 1 minute, the Bluetooth icon will return to a fast flashing state.

9.6 Technical parameters

• Communication method: Bluetooth BLE

• Battery type: lithium battery

• Charging interface: Type-C

• Operating temperature: -20–60°C

• Storage temperature: -20–60 °C

10. Control via app

10.1 Downloading the application

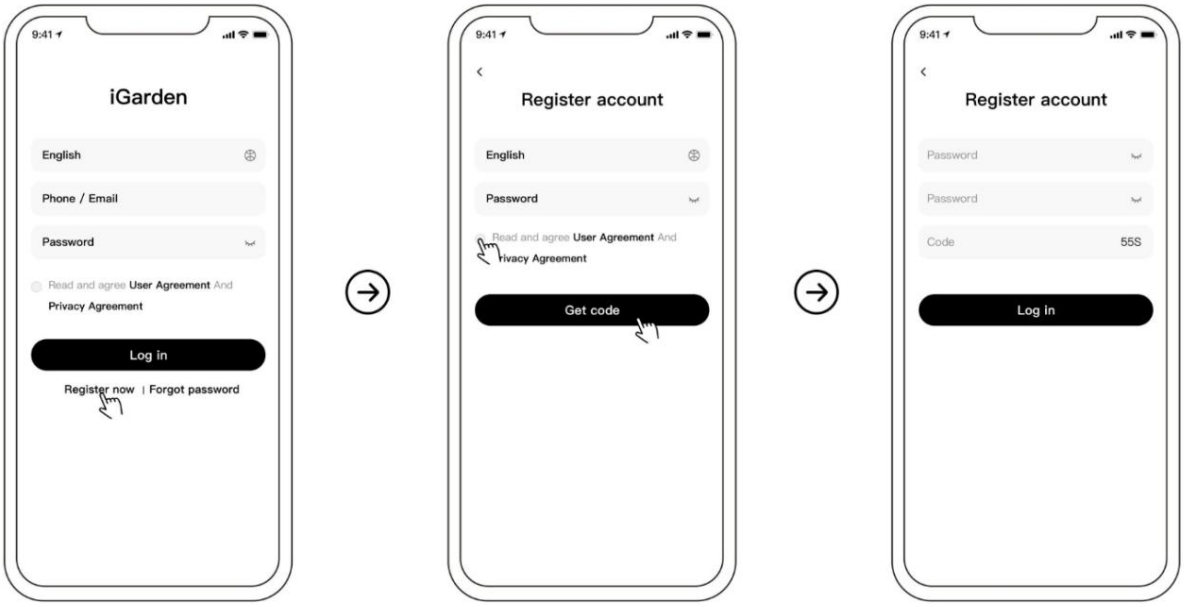
Please search for **"iGarden"** in the app store iGarden and download the app.

• Android users: You can search and download apps on the **Google Play** market Google Play .

• iOS users can search and download via **the App Store.** App Store

10.2 Account registration and login

After downloading, you can register and log in to your account using **your email** or **phone number.**



10.3 Adding devices and network connection

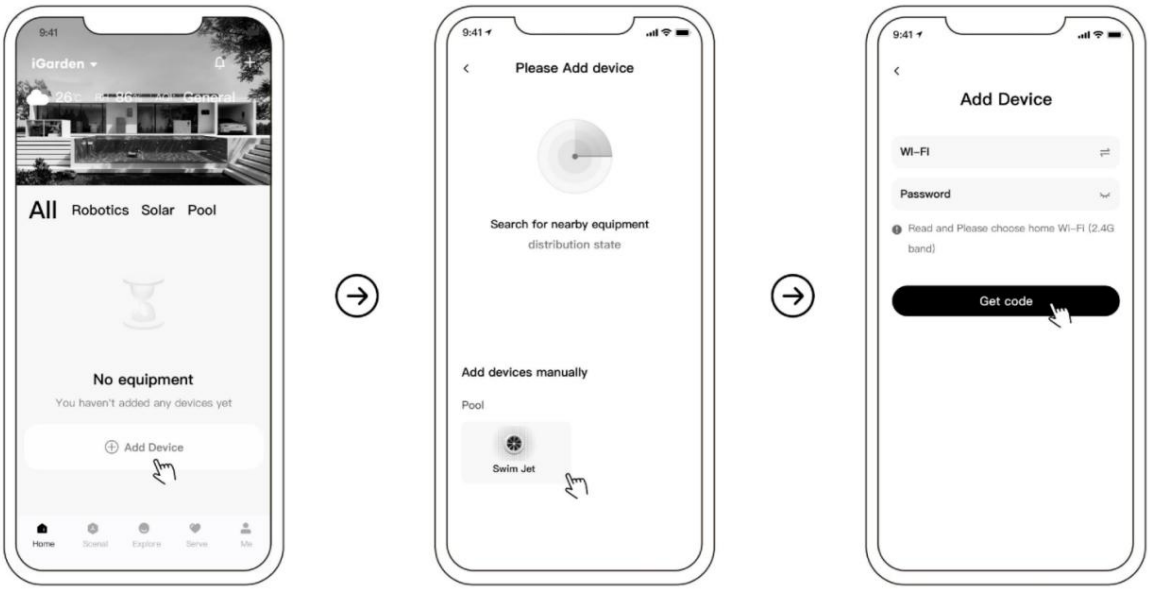
10.3.1 Bluetooth connection mode

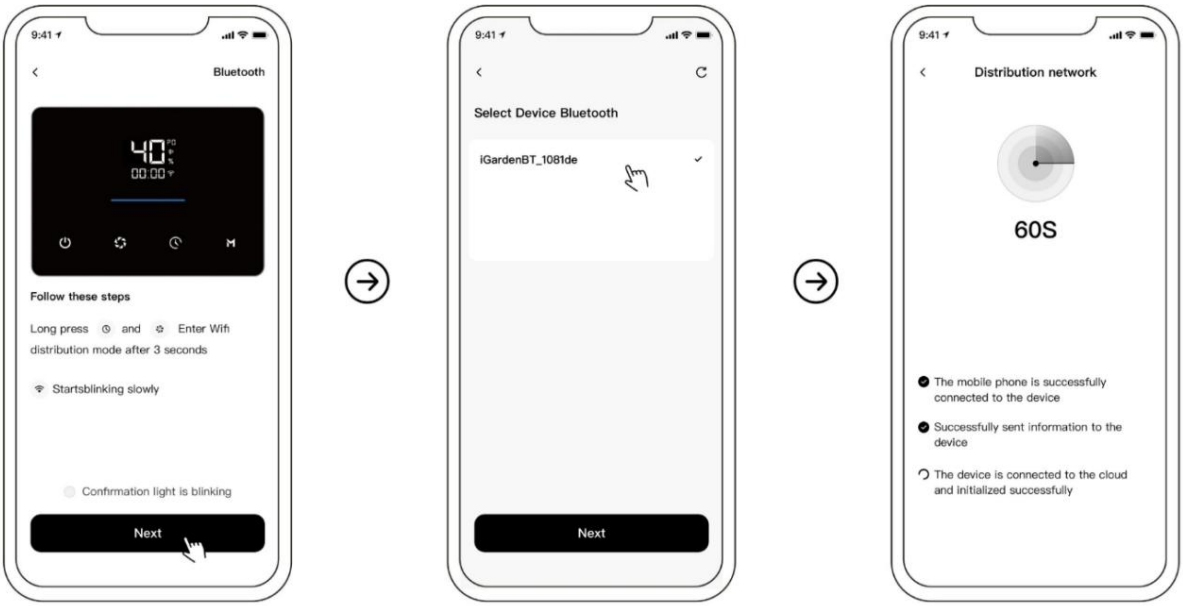
1. After turning on the power supply, press and hold the buttons at the same time until the Wi-Fi icon flashes; then the device will switch to network mode. " " and " " for about 2 seconds until it starts

2. Open **the iGarden app** and click the “Add Device” button ( ).

3. Follow the instructions in the app to complete device connection. Your device will then appear in the Home section.

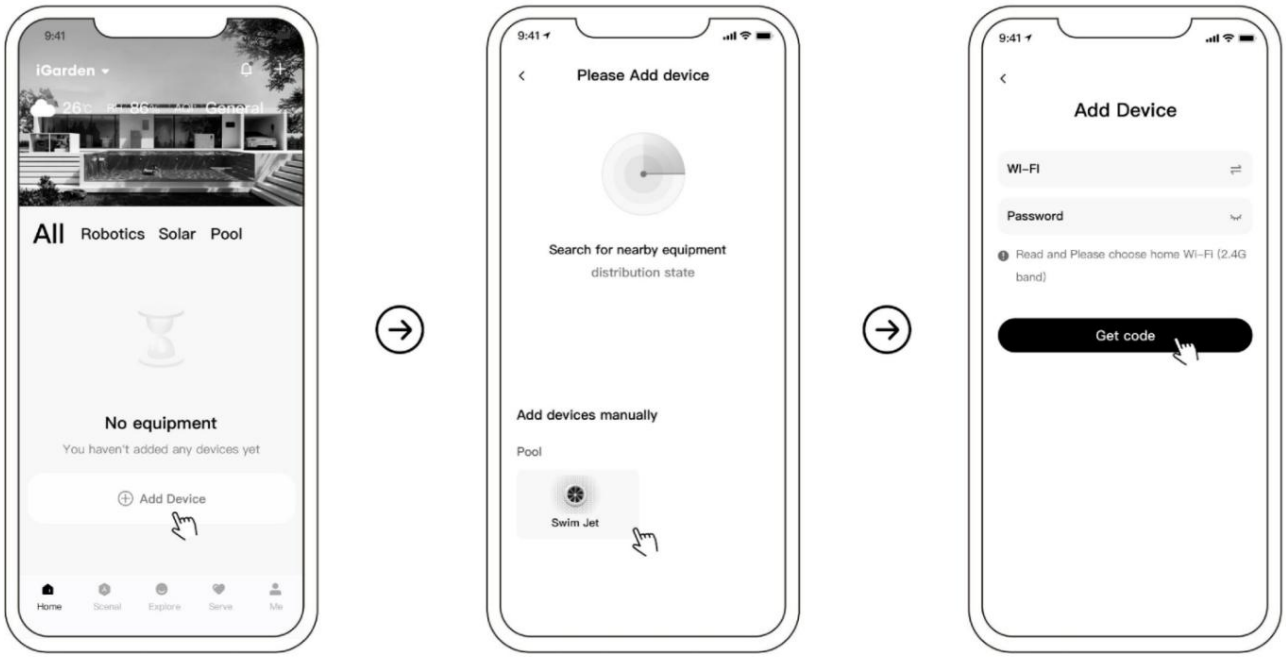
-My Garden.

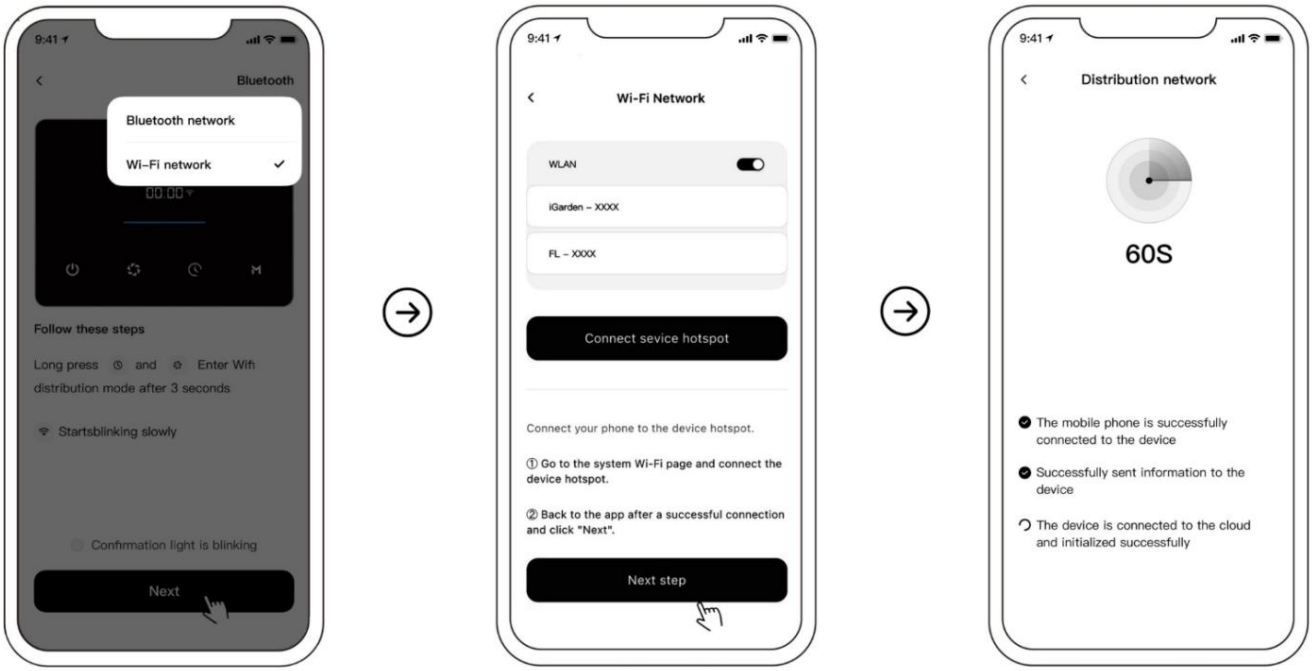




10.3.2 WiFi hotspot network mode

It works the same as Bluetooth mode, select **"WiFi hotspot"** mode and follow the instructions to complete the connection.



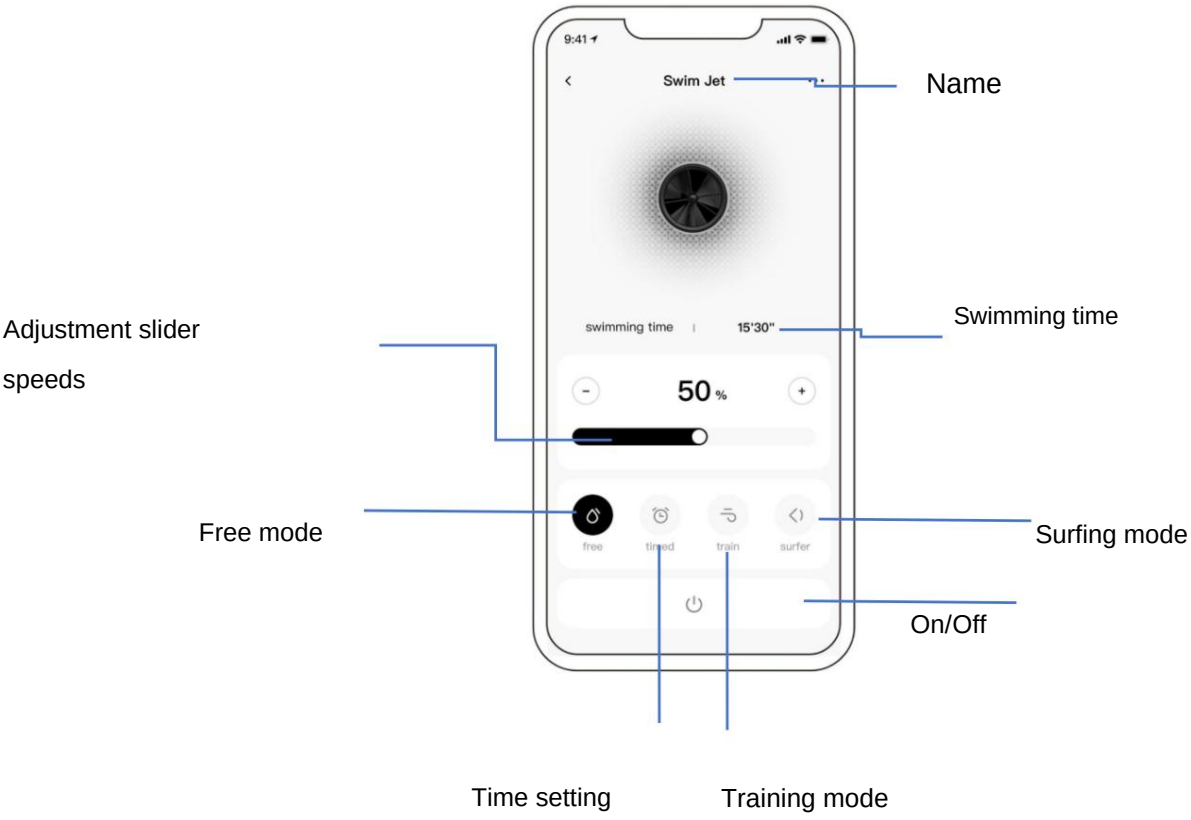


10.4 Interface functions

10.4.1 Interface control

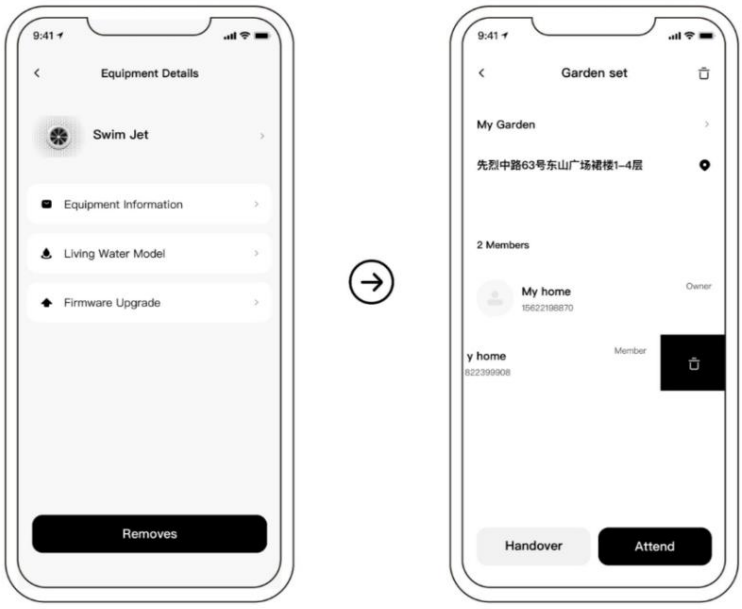
After clicking on the device, it will start and enter free mode by default. The control page looks like this. Users they can

switch modes, adjust speed, set time, and turn on or off.



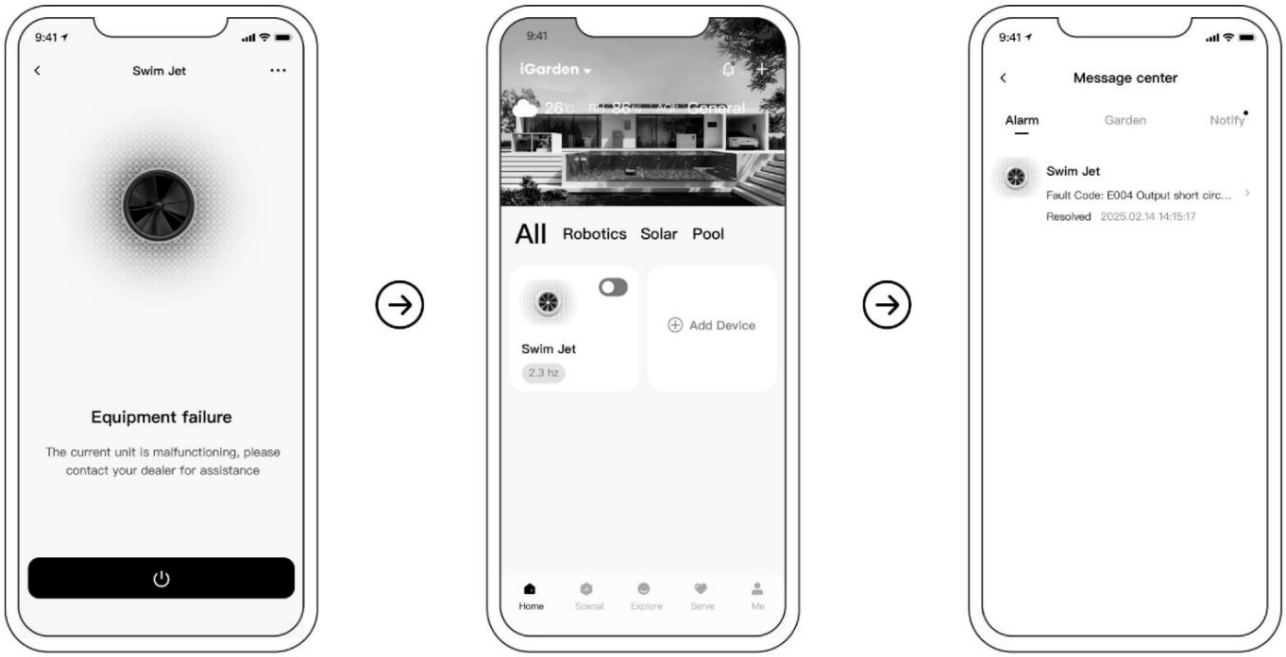
10.4.2 Device sharing

As an iGarden administrator, you can share devices for use by other users via the device details page.



10.4.3 Fault alarm

If a device malfunction occurs during product use, the malfunction name and malfunction code will be displayed on the device control page or message center. If you cannot resolve the malfunction yourself, please contact your dealer.



11. Product care and maintenance

If you are not using the product for an extended period of time, disassemble the Jet and store it indoors.

1. Turn off the power;

2. Disconnect the power cord;

3. Disconnect the control cable at the bottom of the power box and control panel;

4. Store the power box and control panel in a dry place indoors.

Special precautions for winter storage:

During the winter, please lower the pool water level below the Jet device so that it is not submerged in water.

WARNING: When storing the Jet cord, always secure the plug with the protective cap to prevent corrosion and exposure to moisture.

12. Faults and protection

12.1 Fault detection

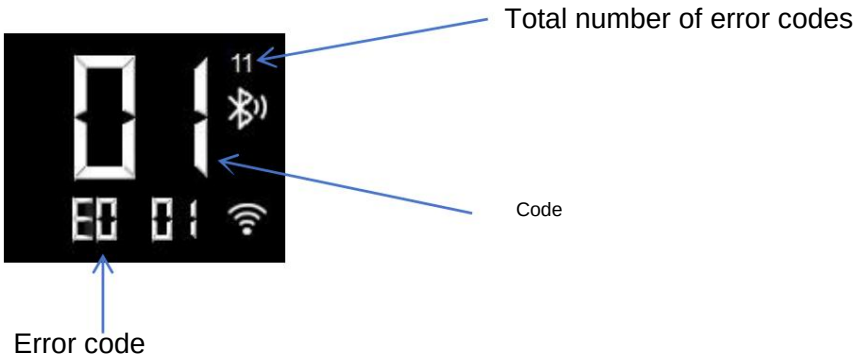
• Fault Occurrence: If the Swim Jet detects a fault (except for speed reduction strategies), it will automatically shut down and display a fault code.

• Automatic recovery: If the fault is cleared within 30 seconds of power off, the device will automatically return to the state before the fault occurred. If the fault recurs, the device will power off again and display the fault code; then wait at 30-second intervals until the fault is cleared.

• Fault Lockout: If three faults occur within one hour, the system locks the fault state and disables automatic recovery. In this case, a manual power cycle by a technician is required. If multiple faults occur, you can press the buttons, the "  " and "  " switch to display fault information; if no operation occurs, screen will automatically switch the display every 5 seconds.

• Note: The above is the fault detection process except for motor lock (error code E0 06). Once the motor lock occurs, the Jet will stop immediately. Disconnect and reconnect the power before resuming operation.

The error diagram looks like this: in the upper right corner of the screen  the total number of errors is shown, in the middle  current error number and below  error code.



12.2 Error code listÿ

SN	Error code	Description	Cause
1	E0 01	Abnormal bus voltage	The effective value of the bus voltage deviates from normal operating voltage range (too low or too high)
2	E0 02	Output current overload error	The peak current of the swimming jet fan is higher than preset maximum.
3	E0 03	Output current asymmetry	The 3 output currents are unbalanced.
4	E0 04	Short circuit at the output	The output wires (wires leading from the box to the nozzle) are short-circuited or high current is present.
5	E0 05	Out of phase output	Poor contact of output cables or problems with the internal

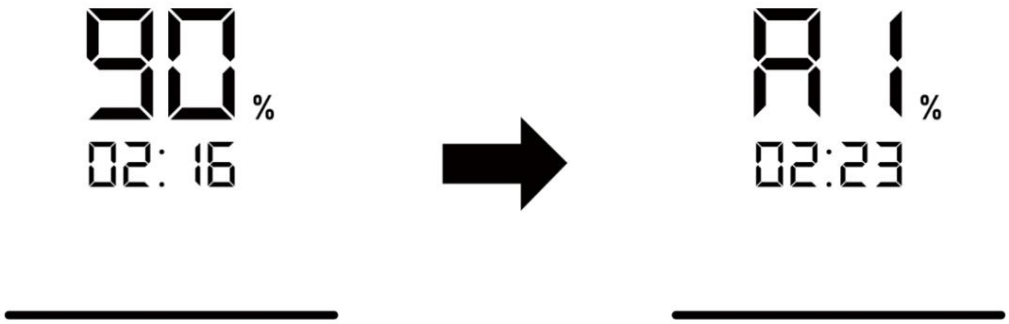
			by involvement
6	E0 06	Engine stalling	The motor is tangled or jammed with foreign objects and cannot to turn
7	E0 07	Motor protection against lack of water	The motor is not completely submerged in water, it will into a fault state and switches off after 30 seconds of operation.
8	E1 01	MOS Overheating	The temperature of the MOS tube on the driver board is too high. high.
9	E1 02	High power module temperature	The internal temperature of the power module is too high.
10	E2 01	Temperature sensor failure	Temperature sensor on the controller board or The temperature sensor circuit on the display board is damaged.
11	E2 02	Motor drive failure	The controller board is damaged or the motor control is abnormal.
12	E2 03	Controller board communication failure	The control board cannot communicate with the main control system. for 30 consecutive seconds.
13	E2 04	Display communication failure	Communication between display and power supply failed for 5 consecutive seconds.

12.3 Speed reduction protection

To ensure the safe operation of the Jet machine, the power box is equipped with the following three types of underspeed protection mechanisms:

1. Description of the speed limitation at high temperature of MOS tube

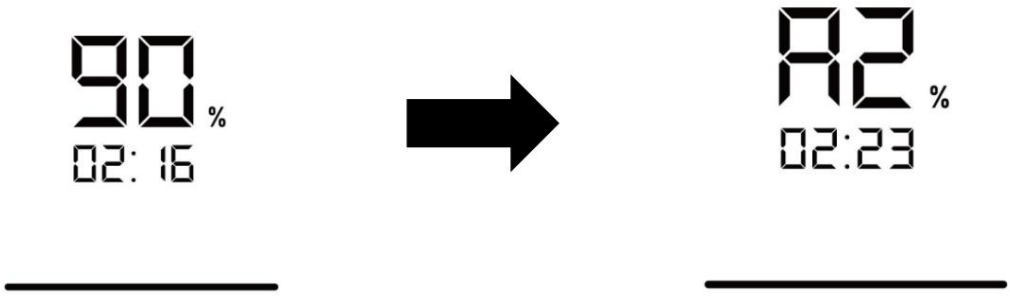
• If the MOS tube temperature exceeds the set value, the system will automatically slow down; at this time, the interface will alternate between the normal working interface and the MOS tube high temperature warning interface (the control panel interface will display A1).



• If the MOS tube temperature is too high, the system will shut down and report an E101 fault.

2. Chassis high temperature protection

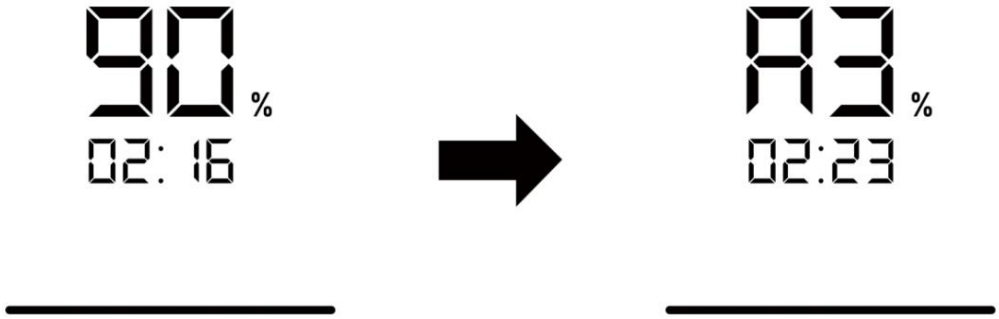
• If the cabinet temperature exceeds the set value, the system will automatically reduce the power; at this time, the display will alternate between the normal operation screen and the cabinet high temperature warning (A2 will be displayed on the control panel).



• If the cabinet temperature is too high, the system will shut down and report an E102 fault.

3. Output current overload protection

• If the output current exceeds the set value, the system will automatically slow down and the display will alternate between normal and working interface with output current overload warning (A3 will be displayed on the control panel).



• If the output current is too high, the system will shut down and report error E002.

Note: In any protection state, the device will automatically adjust the speed to prevent damage and ensure safe operation of the device.

13. Frequently Asked Questions and Solutions

Problem	Cause	Solution
Loud noise	• Jet is not completely submerged in water	• Make sure the nozzle is completely submerged in water • Recommended installation depth for Swim Jet (from the center of the Swim Jet to water level): 250 mm

Weak flow	• The jet is not parallel to the water surface	• Check that the Swim Jet mounting bracket is properly adjusted.
	• Engine does not run.	• If the motor does not operate properly, please contact your dealer.
No LCD display	• The control panel is not connected to power or the power switch is off. • Signal reception failure on the display	• Ensure that the control panel is turned on and the switch is in the on position.

14. Disposal

14.1 Decommissioning

1. Turn off the power.

2. Turn off the power around the pool. 3.

Disconnect the power cord.

4. Disconnect the motor cable under the power box.

14.2 Disposal

When disposing of this product, please dispose of it as waste electrical and electronic equipment or hand it over to your local waste recycling system. By ensuring that the equipment is collected and recycled at the disposal site, you will ensure that it is disposed of in a manner that protects human health and the environment.

Contact your local authorities to find out where you can take your Swim Jet for recycling.

15. Certification standards

All Swim Jet models meet the following specific standards:

LVD Directive: 2014/35/EU	
■ EN 60335-1	
■ EN 60335-2-41	
■ EN 62233:2008	
EMC Directive: 2014/30/EU	

■ EN 55014-1	■ EN 55014-2
■ EN 61000-3-2	■ EN 61000-3-3
■ AS/NZS 60335.2.41:2013, Supplement 1: 2018	
■ AS/NZS 60335.1:2020 Amd1:2021	

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