

P69B133

SPA CONTROL SYSTEM

1	220-240V~ 48A 50Hz
2	380-415V 3N~ 28A 50Hz
3	240V~ 48A 60Hz
4	240V~ and 120V~ 48A 60Hz
5	120V~ 48A 60Hz



Revised version

Version	Revised content	Revised by	Revision date
V1.0	New revision	Sun Hydraulics (China) co.,Ltd. Dongguan Branch	2024/01/02

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Cautious for electric shock!

Please carefully read the following items before installation or connection.

- 1、Appliances must be permanently connected to fixed wiring.
- 2、Parts incorporating electrical components, except remote control devices, must be located or fixed so that they cannot fall into the bath.
- 3、The appliance must be supplied through a residual current device (RCD/GFCI) having a rated residual operating current not exceeding 30 mA.
- 4、These devices can be connected only to a supply with system impedance no more than 0.099 ohm for Single-phase input or 0.001 ohm for Multi-phase input. In case necessary, please consult your supply authority for system impedance information.
- 5、This product is not suitable for cleaning with water or other dissolvant. Please do not attempt to maintain this control system yourself; If the product needs to be maintained, please contact your distributor or repair service agency. Please follow all the instructions on power connection in the manual. Installation must be conducted by a licensed electrician. All ground wire must be properly installed. (Recommended tightening torque for ground wire is 3 N • M)
- 6、Use only copper conductors with a temperature resistance of more than 75°C for power supply.
- 7、The European standard single-phase input current cannot exceed 32A. The three-phase input current cannot exceed 22A. The American standard input current cannot exceed 32A; The load current carried by the control system cannot exceed the rated input current.
- 8、End product can have another the connection of external equipotential bonding conductors.
- 9、This controller is not intend for transportable pool use.

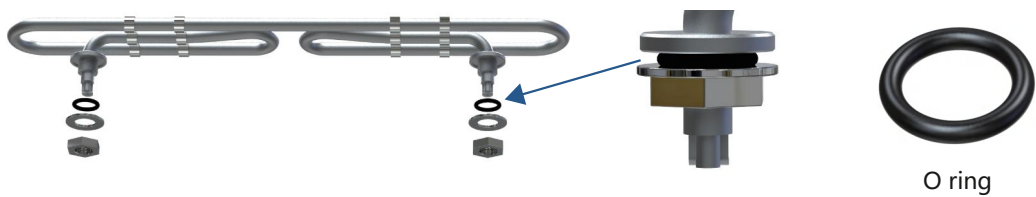
Correct Disposal of this product



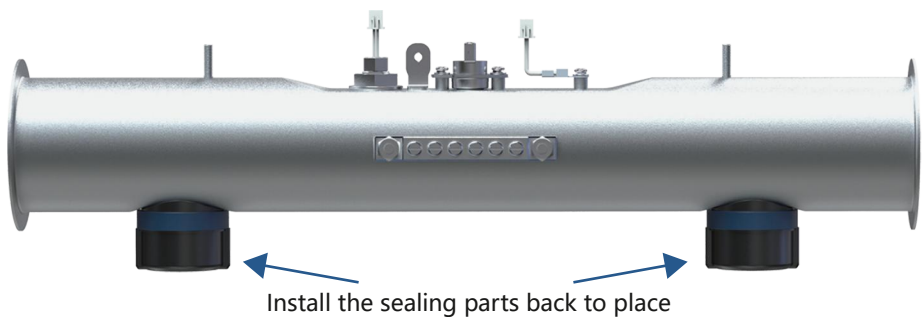
This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Maintenance Warning

When repairing and replacing the heating wire, professional operation is required, be sure to use JOY-ONWAY's certified O-rings to ensure that no O-rings are missed and installed to ensure that the heating tube is sealed and does not leak. As shown in the following figure:



After repairing and replacing the heating element, install the sealing parts back to place. As shown in the following figure:



1、Product overview

Power input: 220-240V~ 48A 50Hz
380-415V 3N~ 28A 50Hz
120V~ 48A 60Hz
240V~ and 120V~ 48A 60Hz
240V~ 48A 60Hz

Output for two set of ON/OFF type or
RGB type SPA light (+5V/3A or +12/3A)

4 set of single-speed pump (10.5A)

1 set of blower (10.5A)

1 set of circ-pump (3.5A)

1 set of thermostatic heating
(2000W or 3000W or 4000W@230V~)

1 set of ozone (1A)

1 set of auxiliary power output (10.5A)

Model: P69B133



Use of ambient temperature -20°C~55°C

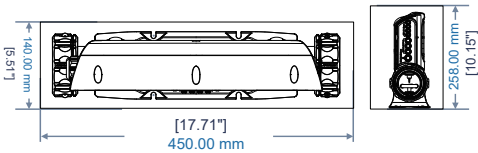
Clock display	Freeze protection	Heating timer	Water circulation timer
Matched panels:	Any version of PB562/PB562 Plus Any version of PB563/PB563 Plus Any version of PB565/PB565 Plus	Heating element:	2KW heating tube 3KW heating tube 4KW heating tube

2、Product dimensions

2.1、P69B133 Control System Dimensions and Installation Instruction

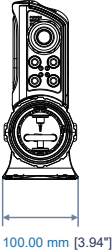
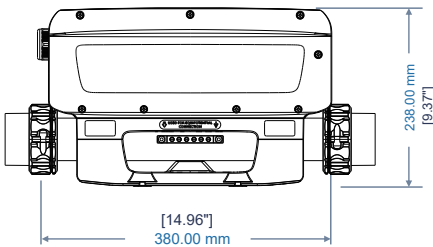


Designs of P69B133 control system



The distance between the product and obstacles should be above 20mm

Minimum space reserved W: 140.00mm
H: 258.00mm D: 450.00mm

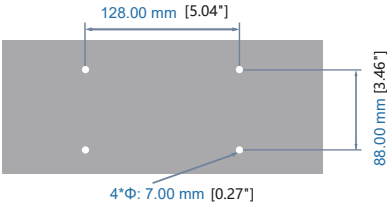


Plumbing



[16.53"]
420.00 mm

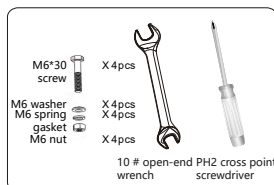
Plumbing



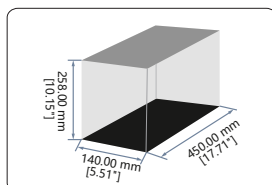
Suggested hole size

Installation Instruction

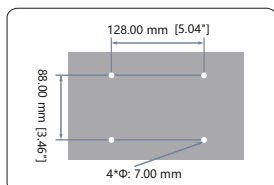
Fixed installation



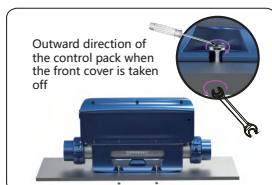
1. Materials and tools to be prepared;



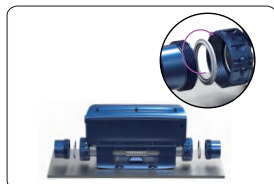
2. The distance between the product and obstacles should be above 20mm



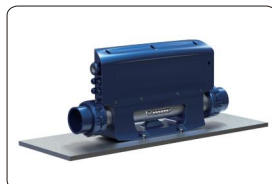
3. Please make holes on the fixing plate according to the dimensions shown in the above figure;



4. As shown in the figure, align the control pack with the fixing plate hole position and use a special wrench to lock in M6 screws in sequence;



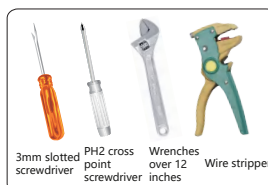
5. As shown in the figure: after fixing the base plate of the control pack, place waterproof rubber ring into the joint, and tighten the water pipe joint as required;



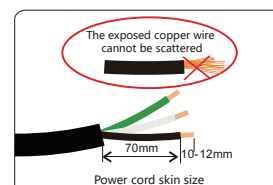
6. Tighten the water pipe joint, and complete the control pack installation.

Installation Instruction

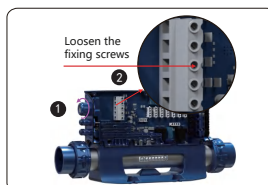
P69B133 power cord connection



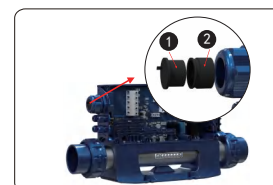
1. Installation tools.



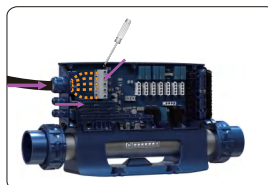
2. Peel the power cord to approximately the size shown in the figure.



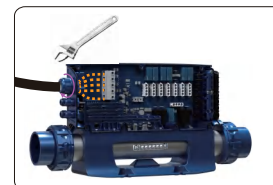
3. ❶ Loosen the gland nut according to the rotation direction shown in the figure above;
❷ Unscrew the screw of the "main power input connector" upwards to make the connector wiring port loose.



4. In the gland head, sealing ring is chosen according to the size of the power cable. Sealing ring numbers ❶ + ❷ is suitable for power cables with a diameter of 12-18mm, and it is necessary to remove the seal on ring ❶; sealing ring ❷ individually is suitable for power cables with a diameter of 18-25mm.



6. Thread the main power cable from the through hole of the gland nut; Connect the power cable to the corresponding terminal block as shown in the wiring diagram on the control pack cover. After connecting the power cable to the terminal block, tighten the screw with a screwdriver to compress and tighten the wire. The recommended torque is 2.5-3.0N · M.



6. After confirming that each power cord is securely buckled, tighten the waterproof nut of the power cord, and then use a special wrench to tighten it completely.

Installation Instruction

Wire installation



Error of control system wire connecting, as shown in the above figure



Because the driver may operate in a humid environment, steam may condense into water droplets on the wire of the product due to the large temperature difference and other reasons, or water leakage may occur. The water will flow to the product along wire, and the product may be damaged if soaked for a long time. It is strongly recommended to install the driver according to the following requirements:

All the wires of the control system are bent into a U shape, as shown in the above figure

Installation Instruction

P69B133 power cord connection

It is recommended to use 3 * 10mm² cable when the total load current is 48A

220 - 240V~
48A 50Hz

J2 - J3 J4 - J5
J8 - J9 J7 - J11
J14 - J19

③ - N BLUE
② - L BROWN
① - G YE/GN

It is recommended to use 5 * 4mm² cable when the total load current is 28A

380 - 415V 3N~
28A 50Hz

J2 - J3 J4 - J5
J7 - J8 J6 - J18
J14 - J19

⑤ - N2 BLUE
④ - L2 BROWN
③ - N1 BLUE
② - L1 BROWN
① - G YE/GN

It is recommended to use 5 * 4mm² cable when the total load current is 22A

380 - 415V 3N~
22A 50Hz

J2 - J3 J4 - J5
J6 - J7 J14 - J19

⑤ - L3 GREY
④ - L2 BLACK
③ - N BLUE
② - L1 BROWN
① - G YE/GN

It is recommended to use a 3 * 8AWG power cable when the total load current is 48A

240V~ 48A 60Hz

J2 - J3 J4 - J5
J8 - J9 J7 - J11
J14 - J19

③ - L2 RED
② - L1 BLACK
① - G GREEN

It is recommended to use a 4 * 8AWG power cable when the total load current is 48A

240V~ and 120V~
48A 60Hz

J3 - J6 J4 - J5
J8 - J9 J7 - J11
J14 - J19

⑤ - N WHITE
④ - - -
③ - L2 RED
② - L1 BLACK
① - G GREEN

It is recommended to use a 3 * 8AWG power cable when the total load current is 48A

120V~ 48A 60Hz

J2 - J3 J4 - J5
J8 - J9 J7 - J11
J14 - J19

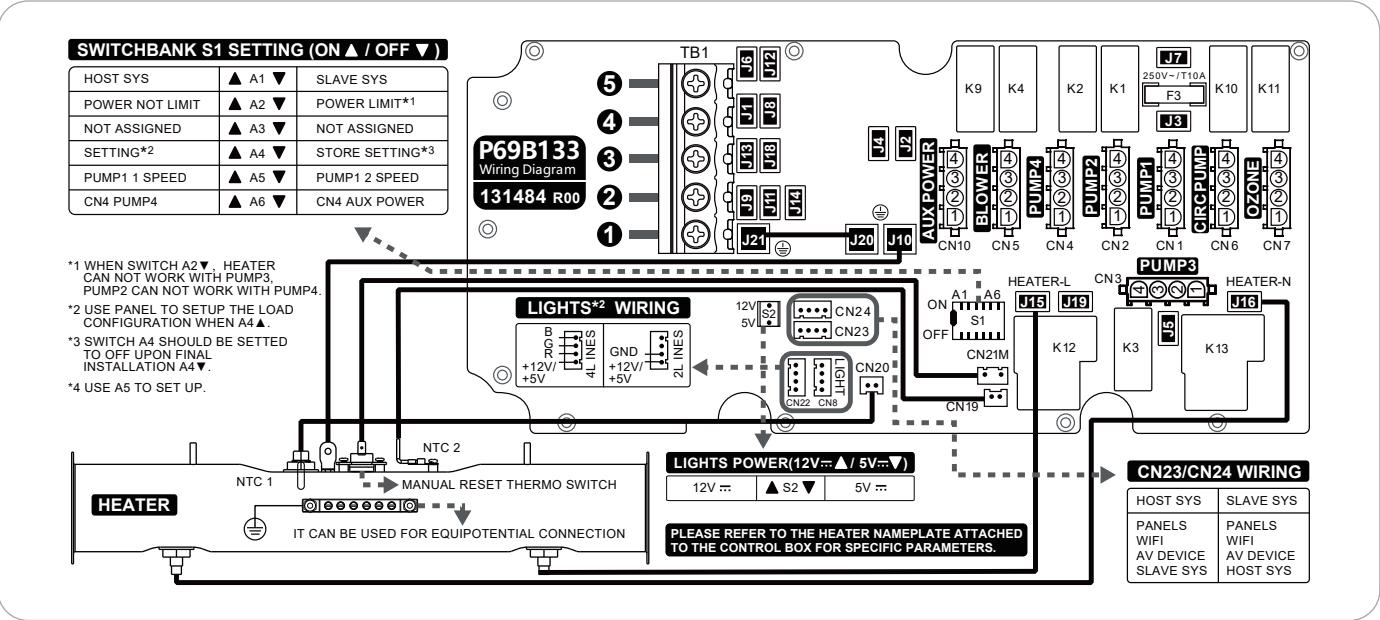
③ - N WHITE
② - L BLACK
① - G GREEN

Users choose the appropriate power cable based on the actual load electrical parameters.

For supply connections , Use copper conductors only, Temperature at least 75°C (167°F),

3、Basic information

3.1、Wiring diagram



3.2、Power supply and load

POWER INPUT AND LOAD OUTPUT

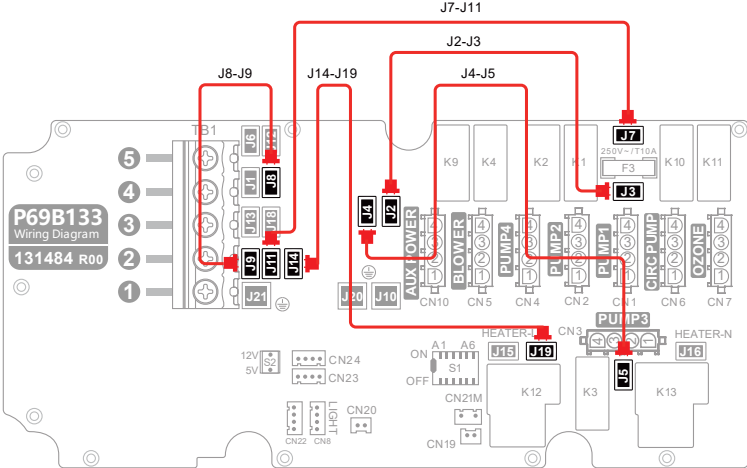
PAY ATTENTION TO THE DIFFERENT CONNECTIONS BETWEEN J2/J3/J4/J5/J6/J7/J8/J9/J11/J14/J18/J19 IN EACH POWER TYPE.

CONNECTOR POWER TYPE	POWER INPUT	PUMP1(1 SPEED)*4		PUMP1(2 SPEED)*4		PUMP2	PUMP3	PUMP4	BLOWER	OZONE	AUX	HEATER	LIGHT
		PUMP1(1 SPD)	CIRC PUMP (HEATER PUMP)	PUMP1 (HEATER PUMP)									
		TB1	CN1	CN6	CN1								
220~240V~ 48A 50Hz J2 - J3 J4 - J6 J8 - J9 J7 - J11 J14 - J19	③ - N BLUE ② - L BROWN ① - G YE/GN	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L-HI / 3-L-LO 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	2-L 1-N	J15-L J16-N	12V 3A or 5V 3A 2A Max/CH
	220-240V~ 10.5A	220-240V~ 3.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 1A	220-240V~ 10.5A	220-240V~		
380 - 415V 3N~ 28A 50Hz J2 - J3 J4 - J5 J7 - J8 J6 - J18 J14 - J19	⑤ - N2 BLUE ④ - L2 BROWN ③ - N1 BLUE ② - L1 BROWN ① - G YE/GN	4-L2 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L2-HI / 3-L2-LO 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L1 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	2-L2 1-N	J15-L1 J16-N	12V 3A or 5V 3A 2A Max/CH
	220-240V~ 10.5A	220-240V~ 3.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 1A	220-240V~ 10.5A	220-240V~		
380 - 415V 3N~ 22A 50Hz J2 - J3 J4 - J6 J6 - J7 J14 - J19	⑤ - L3 GREY ④ - L2 BLACK ③ - N BLUE ② - L1 BROWN ① - G YE/GN	4-L3 / 3(N/A) 2-N / 1-G	4-L3 / 3(N/A) 2-N / 1-G	4-L3-HI / 3-L3-LO 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L1 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L3 / 3(N/A) 2-N / 1-G	2-L2 1-N	J15-L1 J16-N	12V 3A or 5V 3A 2A Max/CH
	220-240V~ 10.5A	220-240V~ 3.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 1A	220-240V~ 10.5A	220-240V~		
240V~ 48A 60Hz J2 - J3 J4 - J5 J8 - J9 J7 - J11 J14 - J19	③ - L2 RED ② - L1 BLACK ① - G GREEN	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1-HI / 3-L1-LO 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	2-L1 1-L2	J15-L1 J16-L2	12V 3A or 5V 3A 2A Max/CH
	240V~ 10.5A	240V~ 3.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 1A	240V~ 10.5A	240V~	
240V~ and 120V~ 48A 60Hz J3 - J6 J4 - J5 J8 - J9 J7 - J11 J14 - J19	⑤ - N WHITE ④ - - - ③ - L2 RED ② - L1 BLACK ① - G GREEN	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-N / 1-G	N/A	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-N / 1-G	2-L1 1-L2	J15-L1 J16-L2	12V 3A or 5V 3A 2A Max/CH
	240V~ 10.5A	120V~ 3.5A		240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	120V~ 1A	240V~ 10.5A	240V~		
120V~ 48A 60Hz J2 - J3 J4 - J5 J8 - J9 J7 - J11 J14 - J19	⑤ - N WHITE ② - L BLACK ① - G GREEN	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L-HI / 3-L-LO 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	2-L 1-N	J15-L J16-N	12V 3A or 5V 3A 2A Max/CH
	120V~ 10.5A	120V~ 3.5A	120V~ 10.5A	120V~ 10.5A	120V~ 10.5A	120V~ 10.5A	120V~ 10.5A	120V~ 10.5A	120V~ 1A	120V~ 10.5A	120V~		

220-240V~ 48A 50Hz

J2 - J3 J4 - J5 J8 - J9 J7 - J11 J14 - J19

CONNECTOR POWER TYPE	POWER INPUT	PUMP1(1 SPEED)*4		PUMP1(2 SPEED)*4	PUMP2	PUMP3	PUMP4	BLOWER	OZONE	AUX	HEATER	LIGHT
		PUMP1(1 SPD)	CIRC PUMP (HEATER PUMP)	PUMP1 (HEATER PUMP)								
	TB1	CN1	CN6	CN1	CN2	CN3	CN4	CN5	CN7	CN10	J15 J16	CN8 CN22
220 - 240V~ 48A 50Hz	③ - N BLUE ② - L BROWN ① - G YE/GN	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L-HI / 3-L-LO 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	2-L 1-N	J15-L J16-N	12V $\overline{\text{m}}$ 3A or 5V $\overline{\text{m}}$ 3A 2A Max/CH
J2 - J3 J4 - J5 J8 - J9 J7 - J11 J14 - J19		220-240V~ 10.5A	220-240V~ 3.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 1A	220-240V~ 10.5A	220-240V~	

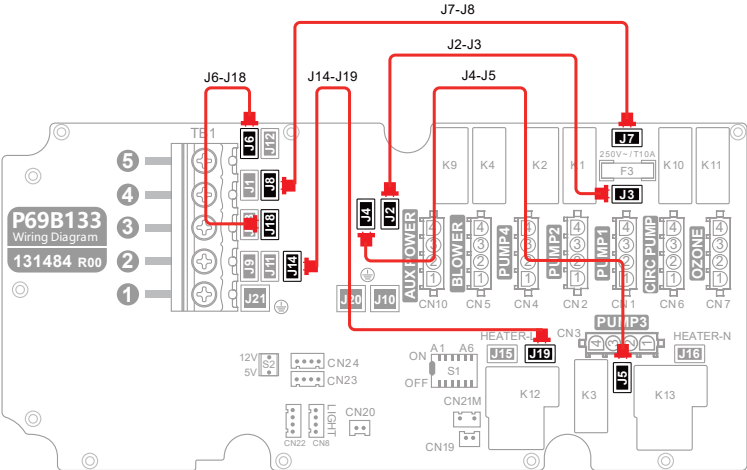


380-415V 3N~ 28A 50Hz

J2 - J3 J4 - J5 J7 - J8 J6 - J18 J14 - J19



CONNECTOR POWER TYPE	POWER INPUT	PUMP1(1 SPEED)*4		PUMP1(2 SPEED)*4	PUMP2	PUMP3	PUMP4	BLOWER	OZONE	AUX	HEATER	LIGHT	
		PUMP1(1 SPD)	CIRC PUMP (HEATER PUMP)	PUMP1 (HEATER PUMP)									
		TB1	CN1	CN6									CN1
380 - 415V 3N~ 28A 50Hz <div>J2 - J3 J4 - J5 J7 - J8 J6 - J18 J14 - J19</div>	<div>5 - N2 BLUE</div> <div>4 - L2 BROWN</div> <div>3 - N1 BLUE</div> <div>2 - L1 BROWN</div> <div>1 - G YE/GN</div>	4-L2 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L2-HI / 3-L2-LO 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L1 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	2-L2 1-N	J15-L1 J16-N	12V 3A OR 5V 3A 2A Max/CH	
		220-240V~ 10.5A	220-240V~ 3.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 1A	220-240V~ 10.5A	220-240V~	

Load carried by L1 phase: PUMP3 / HEATER
Load carried by L2 phase: PUMP1 / PUMP2 / PUMP4 / CIRC PUMP / BLOWER / OZONE / AUX

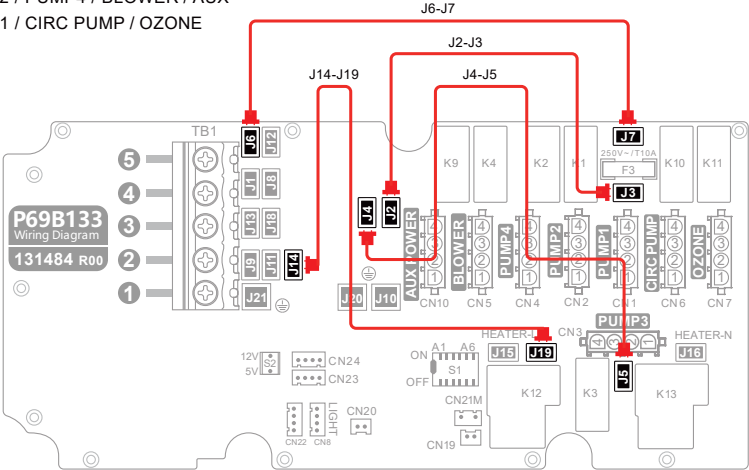


380-415V 3N~ 22A 50Hz

J2 - J3 J4 - J5 J6 - J7 J14 - J19

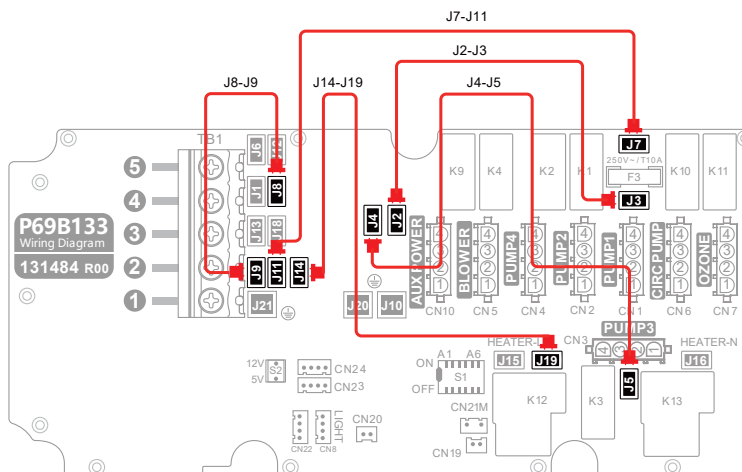
CONNECTOR POWER TYPE	POWER INPUT	PUMP1(1 SPEED)*4		PUMP1(2 SPEED)*4	PUMP2	PUMP3	PUMP4	BLOWER	OZONE	AUX	HEATER	LIGHT
		PUMP1(1 SPD)	CIRC PUMP (HEATER PUMP)	PUMP1 (HEATER PUMP)								
		CN1	CN6	CN1								
380 - 415V 3N- 22A 50Hz <div>J2 - J3 J4 - J5 J6 - J7 J14 - J19</div>	<div>5 - L3 GREY</div> <div>4 - L2 BLACK</div> <div>3 - N BLUE</div> <div>2 - L1 BROWN</div> <div>1 - G YE/GN</div>	4-L3 / 3(N/A) 2-N / 1-G	4-L3 / 3(N/A) 2-N / 1-G	4-L3-HI / 3-L3-LO 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L1 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L2 / 3(N/A) 2-N / 1-G	4-L3 / 3(N/A) 2-N / 1-G	2-L2 1-N	J15-L1 J16-N	12V  3A 5V  3A 2A Max/CH
	220-240V~ 10.5A	220-240V~ 3.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 10.5A	220-240V~ 1A	220-240V~ 10.5A	220-240V~	

Load carried by L1 phase: PUMP3 / HEATER
Load carried by L2 phase: PUMP2 / PUMP4 / BLOWER / AUX
Load carried by L3 phase: PUMP1 / CIRC PUMP / OZONE



J2 - J3 J4 - J5 J8 - J9 J7 - J11 J14 - J19

CONNECTOR POWER TYPE	POWER INPUT	PUMP1(1 SPEED)*4		PUMP1(2 SPEED)*4		PUMP2	PUMP3	PUMP4	BLOWER	OZONE	AUX	HEATER	LIGHT
		PUMP1(1 SPD)	CIRC PUMP (HEATER PUMP)	PUMP1 (HEATER PUMP)									
	TB1	CN1	CN6	CN1	CN2	CN3	CN4	CN5	CN7	CN10	J15 J16	CN8 CN22	
<div>240V~ 48A 60Hz</div> <div>J2~J5 J4~J5 J2~L1 BLACK J4~J9 J7~J11 J14~J19</div>	3-L2 RED	4-L1 / 3(N/A)	4-L1 / 3(N/A)	4-L1-HI / 3-L1-LO	4-L1 / 3(N/A)	4-L1 / 3(N/A)	4-L1 / 3(N/A)	4-L1 / 3(N/A)	4-L1 / 3(N/A)	2-L1	J15-L1	12V 3A	
	2-L1 BLACK	2-L2 / 1-G	2-L2 / 1-G	2-L2 / 1-G	2-L2 / 1-G	2-L2 / 1-G	2-L2 / 1-G	2-L2 / 1-G	2-L2 / 1-G	1-L2	L16-L2	5V 3A	
	1-G GREEN	240V~ 10.5A	240V~ 3.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 1A	240V~ 10.5A	240V~ 2A Max/CH	

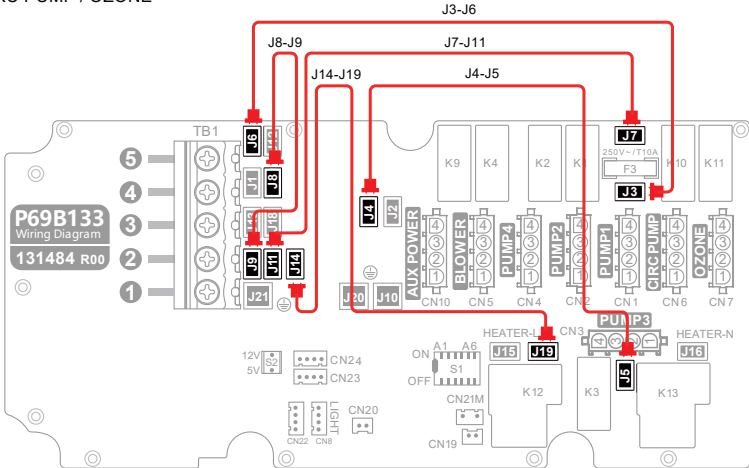


240V~ and 120V~ 48A 60Hz

J3 - J6J4 - J5J8 - J9J7 - J11J14 - J19

CONNECTOR POWER TYPE	POWER INPUT	PUMP1(1 SPEED)*4		PUMP1(2 SPEED)*4	PUMP2	PUMP3	PUMP4	BLOWER	OZONE	AUX	HEATER	LIGHT
		PUMP1(1 SPD)	CIRC PUMP (HEATER PUMP)	PUMP1 (HEATER PUMP)								
	TB1	CN1	CN6	CN1	CN2	CN3	CN4	CN5	CN7	CN10	J15 J16	CN8 CN22
240V~ and 120V~ 48A 60Hz	5 - N WHITE 4 - - - 3 - L2 RED 2 - L1 BLACK 1 - G GREEN	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-N / 1-G	N/A	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-L2 / 1-G	4-L1 / 3(N/A) 2-N / 1-G	2-L1 1-L2	J15-L1 J16-L2	12V $\overline{\text{m}}$ 3A or 5V $\overline{\text{m}}$ 3A 2A Max/CH
J3 - J6 J4 - J5 J8 - J9 J7 - J11 J14 - J19		240V~ 10.5A	120V~ 3.5A		240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	240V~ 10.5A	120V~ 1A	240V~ 10.5A	240V~	

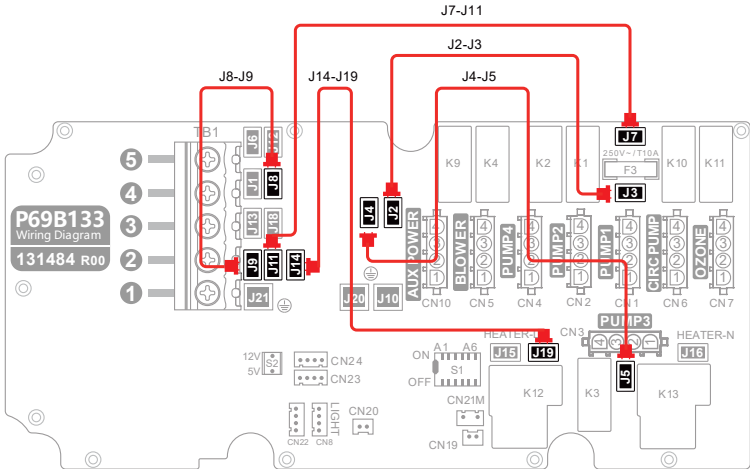
Load carried by L2 line: PUMP1 / PUMP2 / PUMP3 / PUMP4 / BLOWER / AUX / HEATER
Load carried by N line: CIRC PUMP / OZONE



120V~ 48A 60Hz

J2 - J3 J4 - J5 J8 - J9 J7 - J11 J14 - J19

CONNECTOR POWER TYPE	POWER INPUT	PUMP1(1 SPEED)*4		PUMP1(2 SPEED)*4	PUMP2	PUMP3	PUMP4	BLOWER	OZONE	AUX	HEATER	LIGHT
		PUMP1(1 SPD)	CIRC PUMP (HEATER PUMP)	PUMP1 (HEATER PUMP)								
		TB1	CN1	CN6								
120V~ 48A 60Hz	<div>③ - N WHITE</div> <div>② - L BLACK</div> <div>① - G GREEN</div>	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L-HI / 3-L-LO 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	4-L / 3(N/A) 2-N / 1-G	2-L 1-N	J15-L J16-N	12V 3A or 5V 3A 2A Max/CH
J2 - J3 J4 - J5 J8 - J9 J7 - J11 J14 - J19		120V~ 10.5A	120V~ 3.5A	120V~ 10.5A	120V~ 10.5A	120V~ 10.5A	120V~ 10.5A	120V~ 10.5A	120V~ 10.5A	120V~ 1A	120V~ 10.5A	120V~

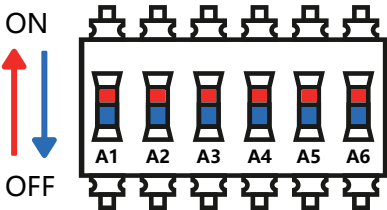
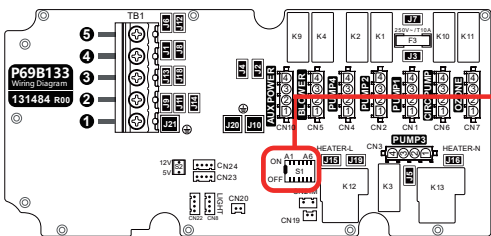


3.3. Configure load

There are two ways to configure the load: Use the Dip switch or use the control panel.

3.3.1. Use the Dip switch to configure the load

Use the Dip switch for load configuration: Set the Dip switch positions A1-A6 according to the Dip switch S1 configuration table on the control system PCB.



↓
S1

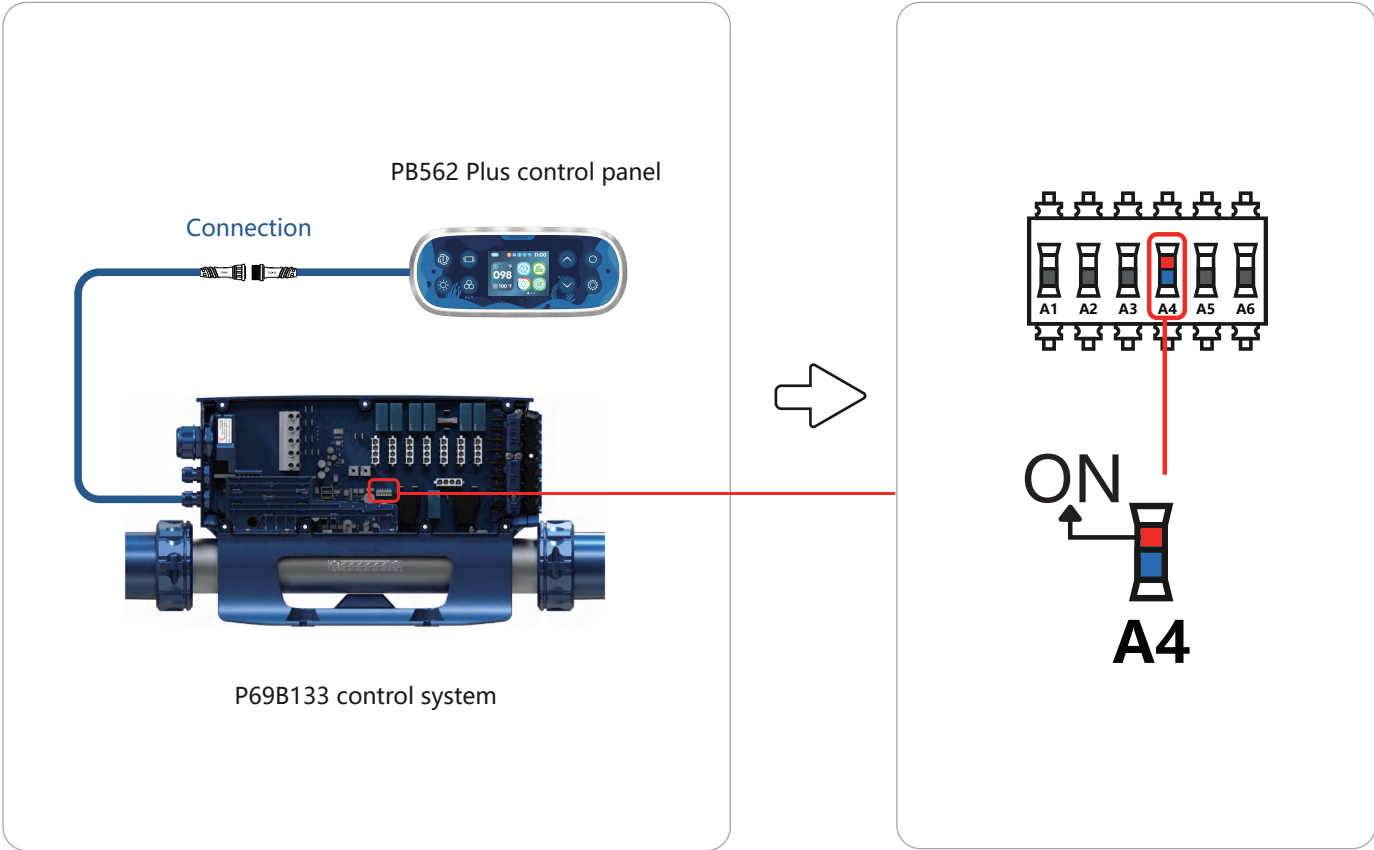
HOST SYS	▲ A1 ▼	SLAVE SYS
POWER NOT LIMIT	▲ A2 ▼	POW ER LIMIT
NOT ASSIGNED	▲ A3 ▼	NOT ASSIGNED
SETTING	▲ A4 ▼	STORE SETTING
PUMP1 1 SPEED	▲ A5 ▼	PUMP1 2 SPEED
CN4 PUMP4	▲ A6 ▼	CN4 AUX POWER

A1	<p>▲ HOST SYS: When there is only one control pack in the SPA control system, please set this pack as the main control system.</p> <p>▼ SLAVE SYS: When set as a slave control system, it can form a multi-pack SPA control system with the main control system.</p>
A2	<p>▲ POWER NOT LIMIT</p> <p>▼ POWER LIMIT: If pump 3 is turned on, the thermostat will be turned off; Water pump 2 and pump 4 cannot be turned on at the same time.</p>
A3	<p>▲ NOT ASSIGNED</p> <p>▼ NOT ASSIGNED</p>
A4	<p>▲ SETTING</p> <p>▼ STORE SETTING</p>
A5	<p>▲ PUMP1 1 SPEED</p> <p>▼ PUMP1 2 SPEED</p>
A6	<p>▲ CN4 PUMP4: The output of pump 4 is used as the output of pump 4.</p> <p>▼ CN4 AUX POWER: The port of pump 4 is used as an auxiliary power source.</p>

3.3.2、 Configure functions using the control panel. Panels: PB562 Plus control panel/PB563 Plus control panel/PB565 Plus control panel.

(1) Use the control panel PB562 Plus for functional configuration.

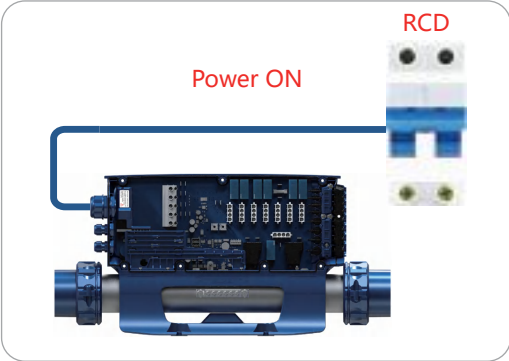
Note: The operation of configuring functions using the control panel must be completed within 60 seconds after the control system being powered on.



Step 1: Connect the PB562 control panel to the P69B133 control system.

Step 2: Turn the Dip switch A4 to ON.

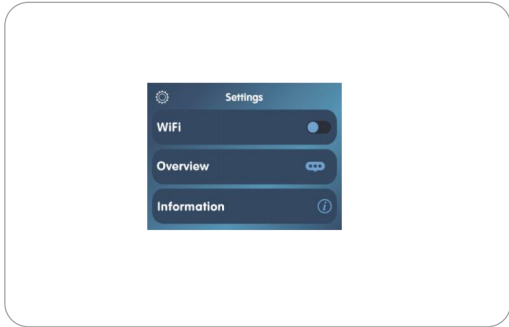
Note: The operation of configuring functions using the control panel must be completed within 60 seconds after the control system being powered on.



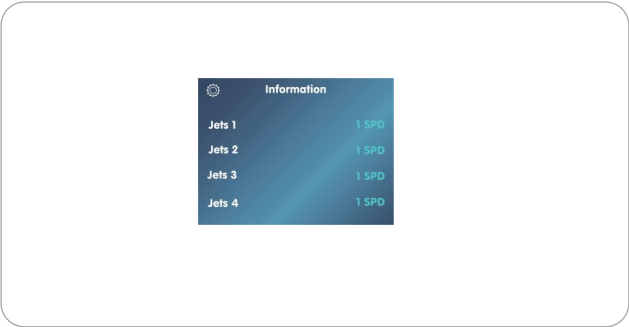
Step 3: Power ON, the PB562 control panel will automatically turn on, and then operate on the PB562 control panel.



Step 4: Press the button " ⚙️ " to enter the Settings interface.



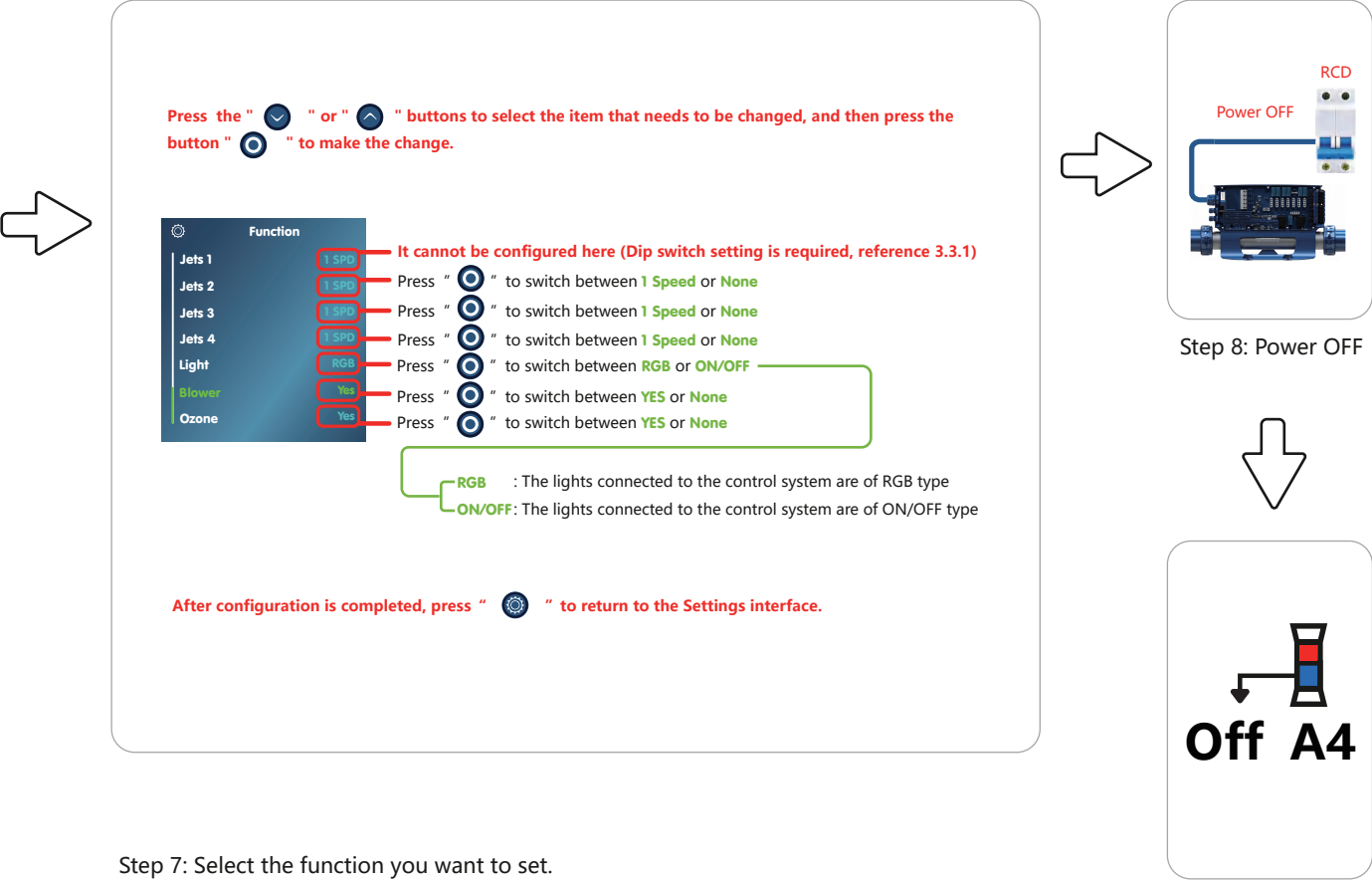
Step 5: Press the button " ⏴ " " ⏵ " to select Information, and then press the button " ⓘ " to enter the Information interface.



Step 6: Press and hold the button " ⏸ " for about 3 seconds to enter the Function interface and set the load.

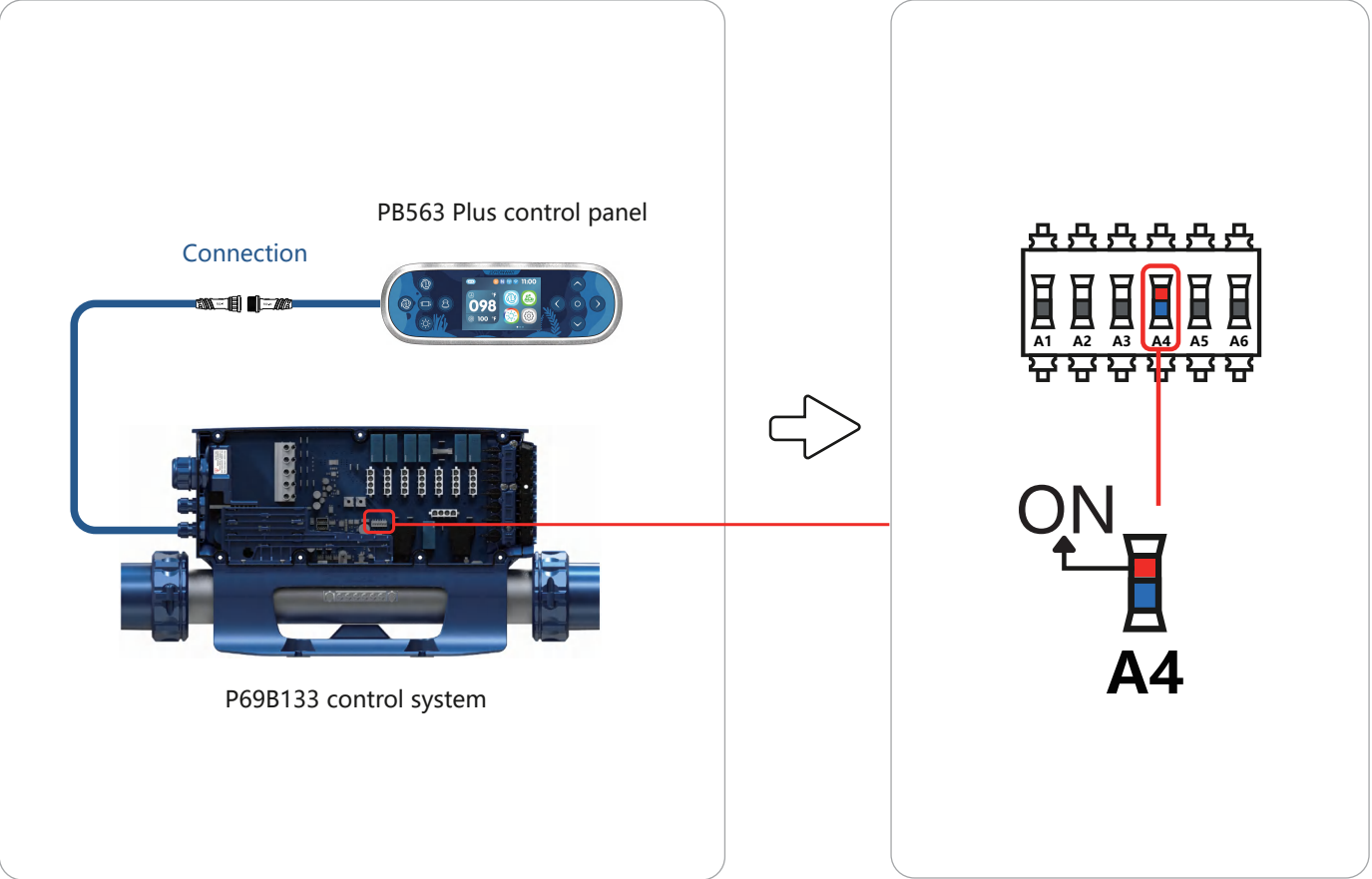
(Simple method to change the light type: After powering off the SPA for one minute, re-power it on. Within 5 minutes, enter Information interface, press and hold " ⚙️ " for 8 seconds, and switch between RGB and ON/OFF modes)

Note: The operation of configuring functions using the control panel must be completed within 60 seconds after the control system being powered on.



(2) Function configuration using PB563 Plus control panel

Note: The operation of configuring functions using the control panel must be completed within 60 seconds after the control system being powered on.



Step 1: Connect the PB563 control panel to the P69B133 control system.

Step 2: Turn the Dip switch A4 to ON.

Note: The operation of configuring functions using the control panel must be completed within 60 seconds after the control system being powered on.



Use the "⏮" or "⏭" buttons to select the item that needs to be changed, and then press the button "⏵" to make the change.

Function	
Jets 1	1 SPD
Jets 2	1 SPD
Jets 3	1 SPD
Jets 4	1 SPD
Light	RGB
Blower	Yes
Ozone	Yes

It cannot be configured here (Dip switch setting is required, reference 3.3.1)

Press "⏵" to switch between 1 Speed or None

Press "⏵" to switch between 1 Speed or None

Press "⏵" to switch between 1 Speed or None

Press "⏵" to switch between RGB or ON/OFF

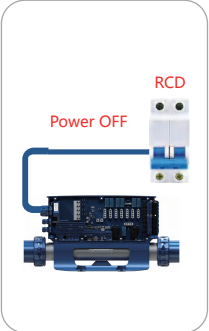
Press "⏵" to switch between YES or None

Press "⏵" to switch between YES or None

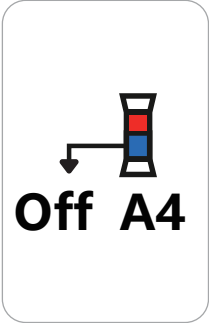
RGB : The lights connected to the control system are of RGB type

ON/OFF: The lights connected to the control system are of ON/OFF type

After configuration is completed, press "⏮" to return to the Settings interface.



Step 8: Power OFF

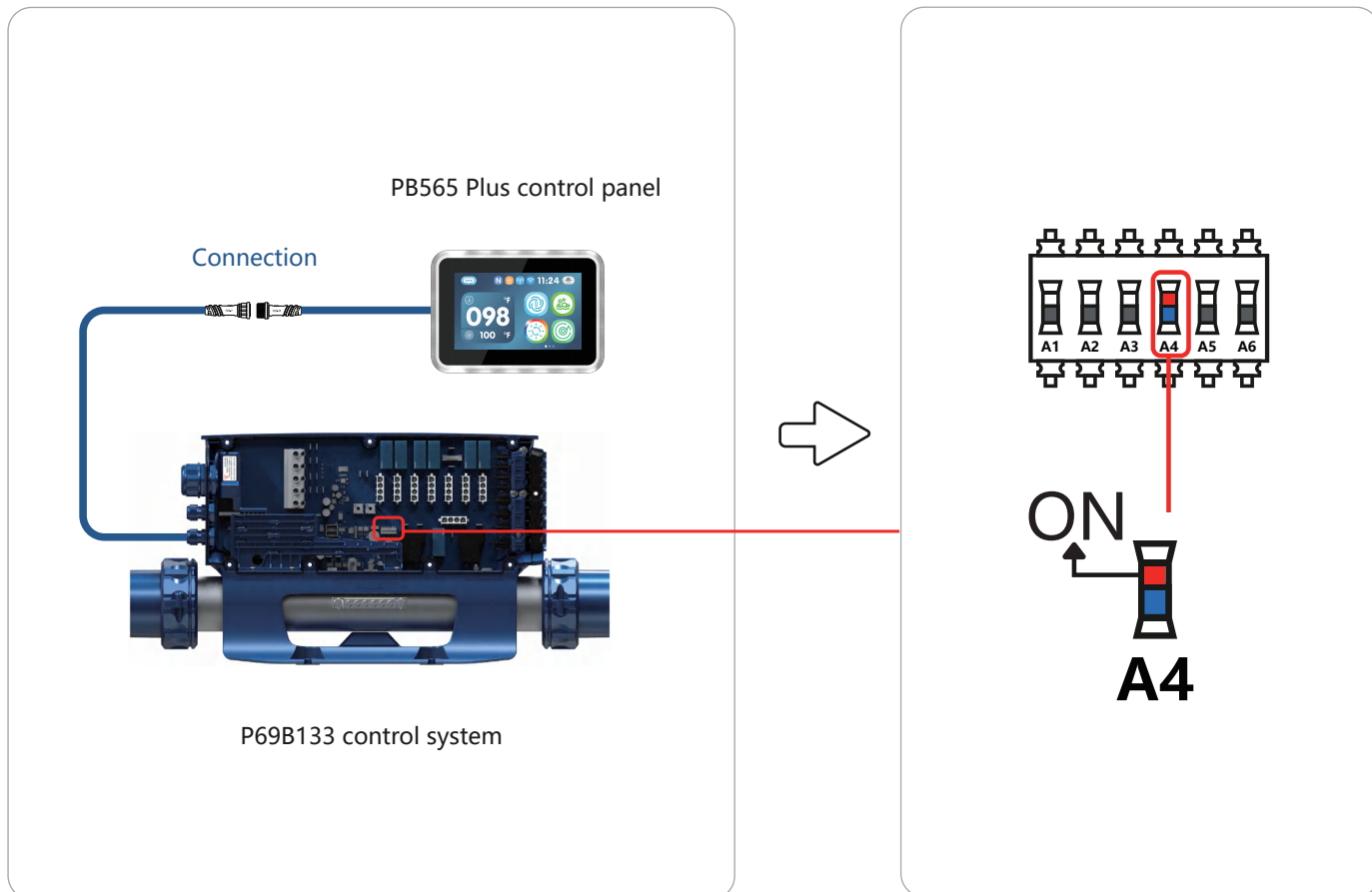


Step 9: Dial to Off to complete the configuration.

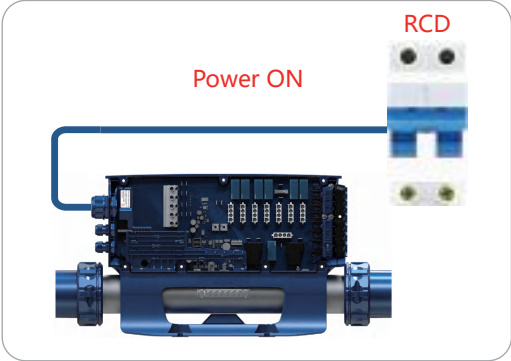
Step 7: Select the functions you want to set.

(3) Function configuration using PB565 Plus control panel

Note: The operation of configuring functions using the control panel must be completed within 60 seconds after the control system being powered on.



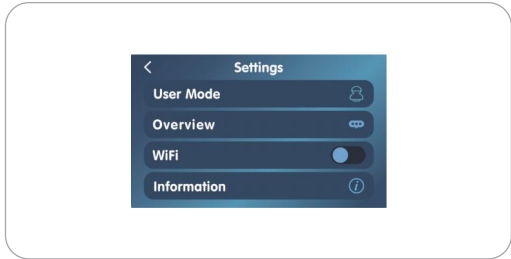
Note: The operation of configuring functions using the control panel must be completed within 60 seconds after the control system being powered on.



Step 3: Power ON, the PB565 control panel will automatically turn on, and then switch to the PB565 control panel for operation.



Step 4: Find the "⚙️" icon in the menu interface and press the icon to enter the Settings interface.

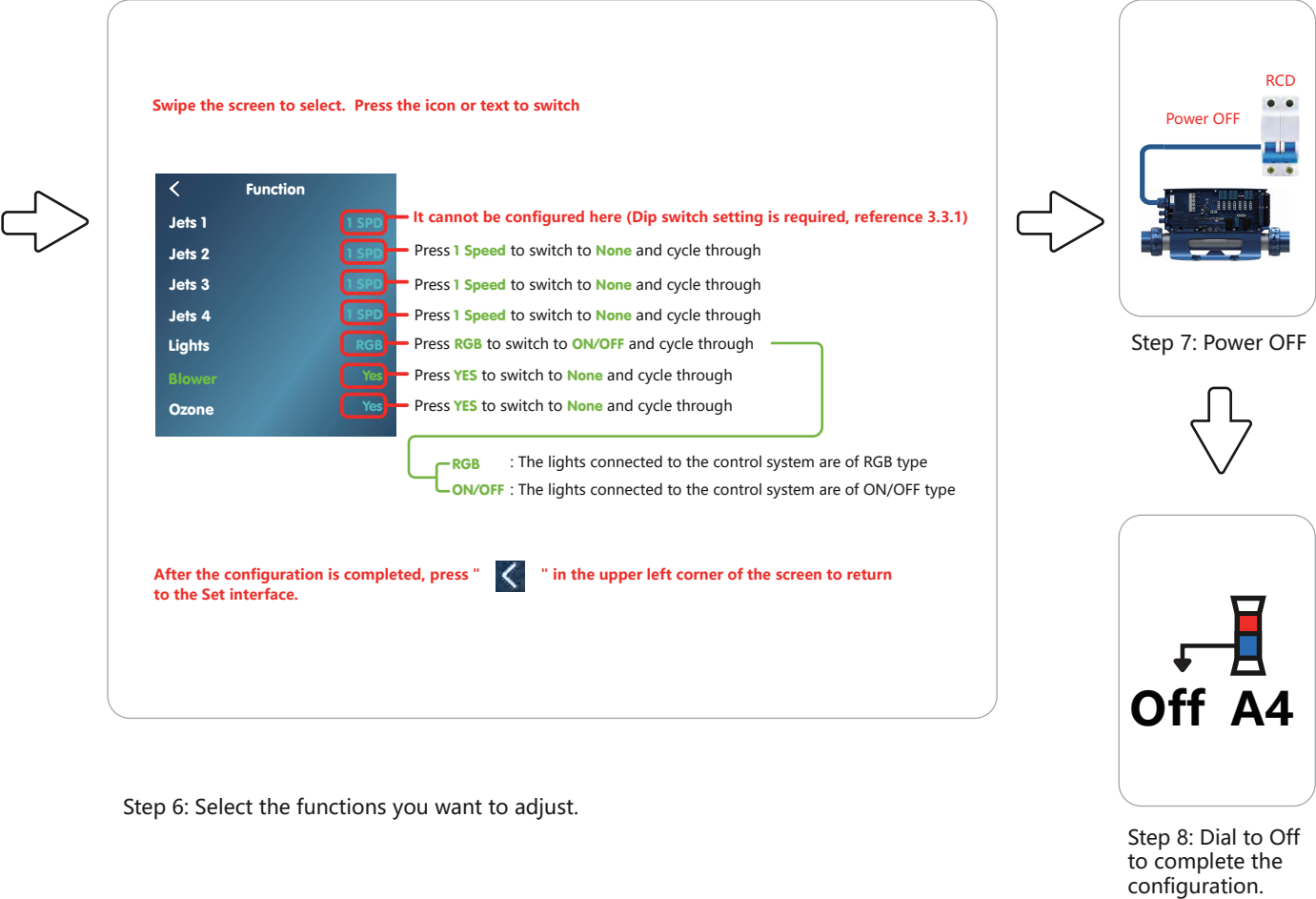


Step 5: Find Information on the Settings interface, press and hold About for about 3 seconds to enter the Function interface to set the load.



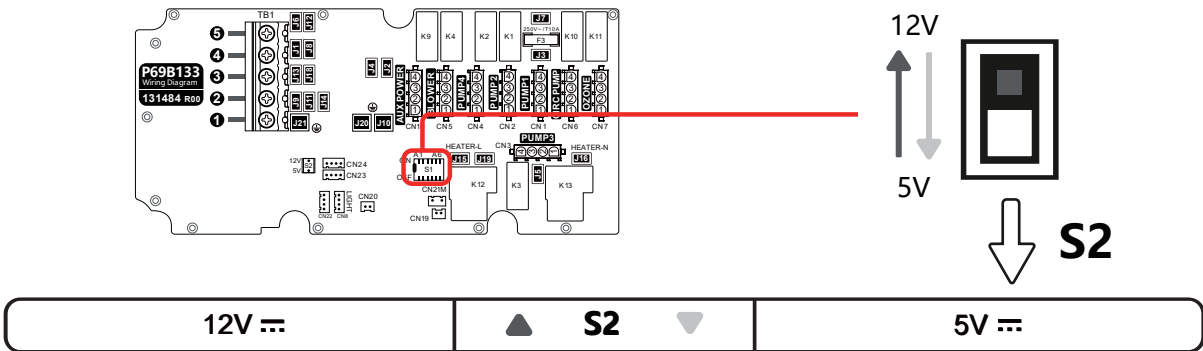
(Simple method to change the light type: After powering off the SPA for one minute, re-power it on. Within 5 minutes, enter Information interface, press and hold "Light" for 8 seconds, and switch between RGB and ON/OFF modes)

Note: The operation of configuring functions using the control panel must be completed within 60 seconds after the control system being powered on.



3.3.3、 Power configuration of the lamp

The power configuration of the lamp is set according to the S2 configuration table on the PCB board of the control system.



▲ 12V ≡ : When set up ▲ , the power output of the lamp is 12V

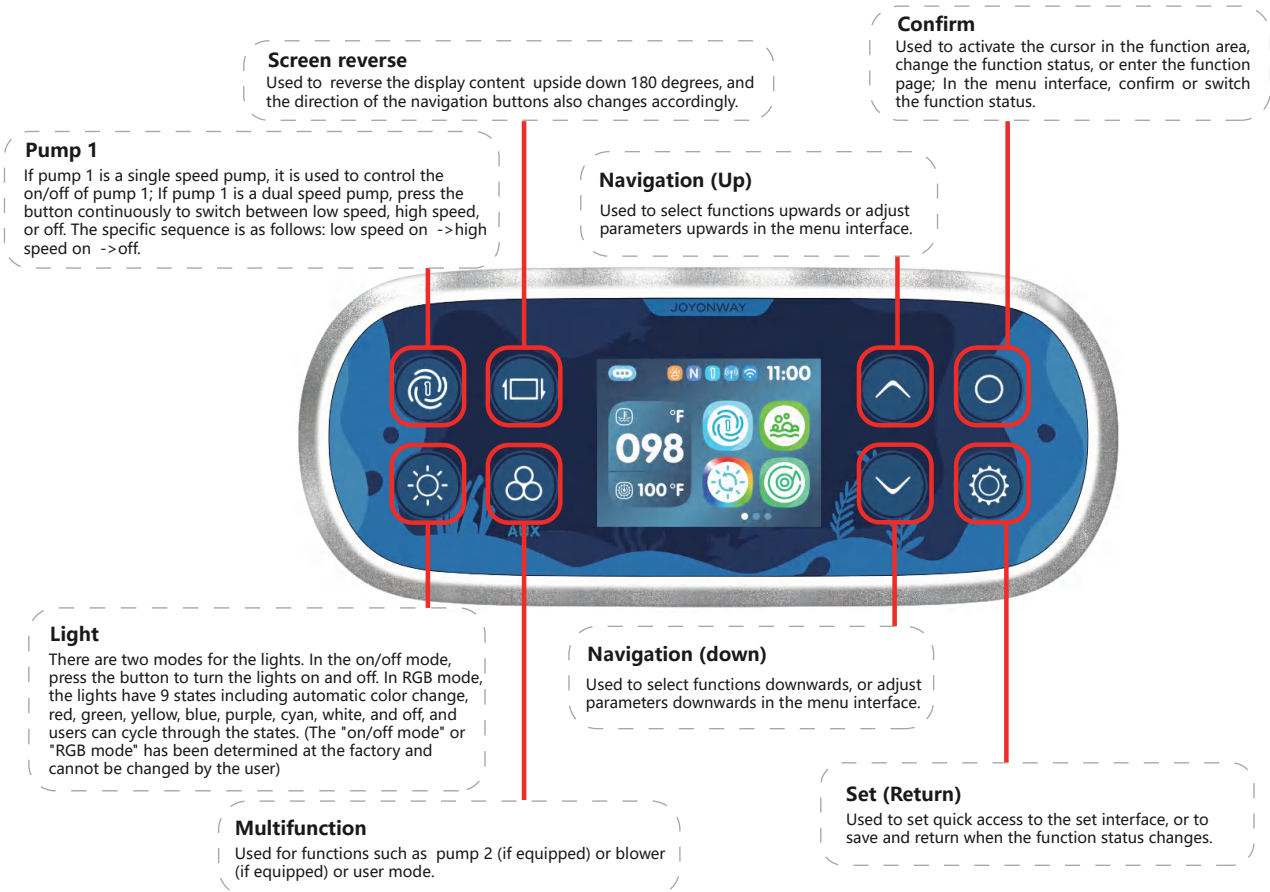
▼ 5V ≡ : When set down ▼ , the power output of the lamp is 5V

4、 Replaceable parts

Heating tube: 2KW heating tube 3KW heating tube 4KW heating tube	Fuse: Current 10A Position number F3
--	---

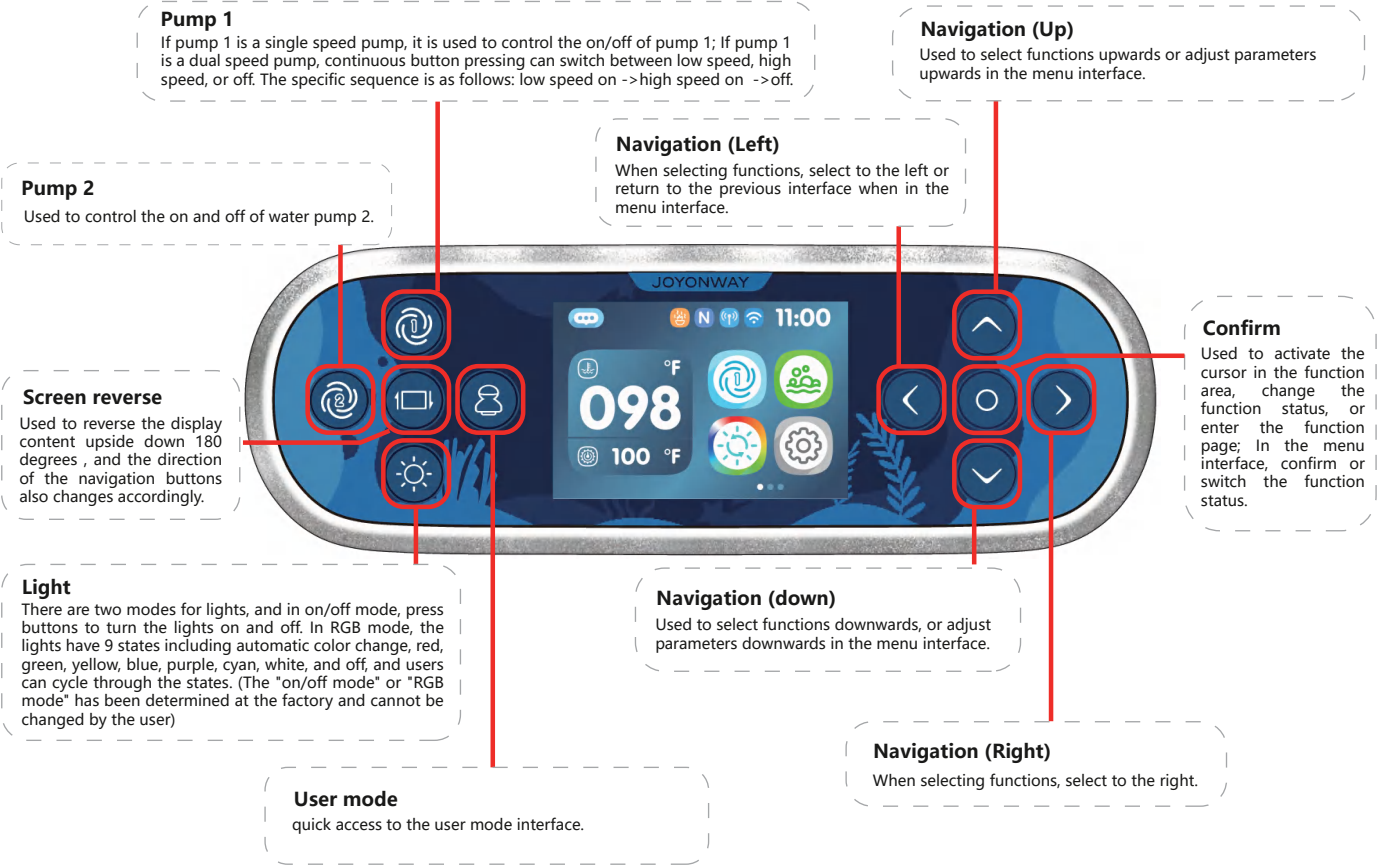
PB562/PB562 Plus control panel

2.4 inch TFT color display screen, 8 capacitive touch buttons.



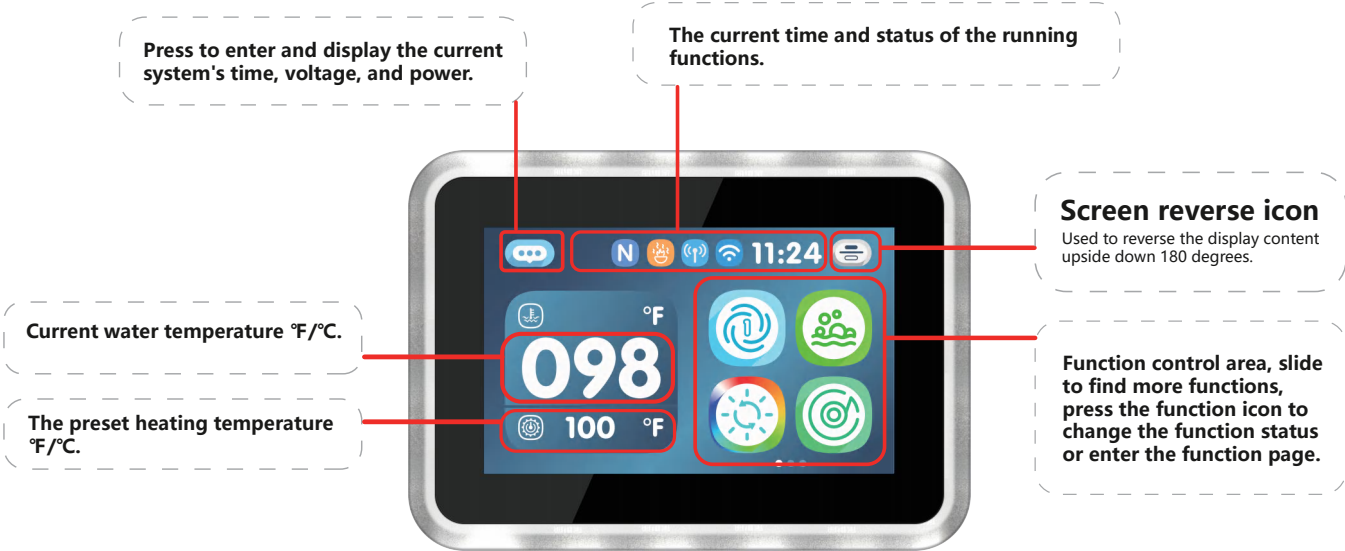
PB563/PB563 Plus control panel control panel

3.5 inch TFT color display screen, 10 capacitive touch buttons



PB565/PB565 Plus control panel control panel

5.0 inch TFT color display screen, screen touch operation





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