Great pump made by LX

■Listed company: LINGXIAO PUMP ■Stock code： 002884

LXK SERIES SPA CONTROLS

INSTRUCTION MANUAL

BEFORE BEGINNING INSTALLATION PROCEDURES, PLS STUDY CAREFULLY THESE INSTALLATION AND OPERATING INSTRUCTIONS, AND KEEP IT IN CASE FOR REFERENCE.

GUANGDONG LINGXIAO PUMP
INDUSTRY CO.,LTD.

A BRIEF INTRODUCTION

Guang Dong Ling Xiao Pump Industry Co. Ltd. was established in 1977. In more than 40 years, we only focus on and specialize in motors and pumps manufacturing. Our company was listed on Shen Zhen SME stock market in July 11, 2017. The listed name is "Ling Xiao Pump Industry" and stock code is "002884".

The major products of Ling Xiao Pumps include stainless steel pumps, Hydro Massage Pumps, Clear Water Pumps, Submersible Pumps, Industrial In-line Pumps, Standard motors and so on. Our annual production capacity has more than 3.5 million pumps with the help of standardizing, specializing and Large-scale production line. Our sales network covers all around the world. Our pumps are widely used for Hydro Massage bathtub, swimming pool & SPA system, water treatment system, Cool/Hot water supply system, secondary constant pressure water supply system, fire-fighting water supply system, air conditioning / Geothermal water circulation system, wind power generation water circulation system, sewage system, rainwater collection system, spray system, underground water lifting system, landscape fountain system, sea water pumping, home supercharge and agricultural irrigation and other fields.

Ling Xiao Pumps is identified as a National High-Tech enterprise. Our company's test center has obtained the CNAS certification issued by China National Accreditation Service for Conformity Assessment, and has established provincial enterprise technology center, provincial electric pump engineering center, Guang Dong University Electric Pump Research Institute, German TUV witness laboratory, USA UL witness laboratory.

Ling Xiao Pumps has established an excellent product quality management system, and applied a strict inspection and testing process, from raw materials, parts procurement until finished electric pumps out of factory, to ensure excellent product quality, safety and reliability. Our company has passed the ISO9001 quality management system certification, ISO14001 environmental management system certification, European Union environmental protection system-RoHS certification issued by the Norwegian Classification Society (DNV). The whole pumps have obtained several safety certifications including USA UL & ETL, Germany TUV, Europe CE, Australia SAA, and China 3C.

Ling Xiao Pumps has a professional, dedicated global sales team and after-sales service team. We maintain an open attitude and forward-looking vision to face a dynamic market, insist continuous innovation guided by customers demand, and timely response to their request. In addition, we provide customers with cost-effective, safe and environmentally friendly products and quality services. Both domestic and foreign clients are warmly welcome to our company.

We adhere to our strategic policy "High-Quality, Competitive Prices, Brand, Win-Win" which shows our professionalism and core value. Further, we stick to our Corporate Mission "Great Pumps Made by LX", provide excellent service, and keep our promise like a Century-old enterprise by the help of the advantage of scale & quality.

DIRECTORY INDEX

Read and follow all instructions.

WARNING

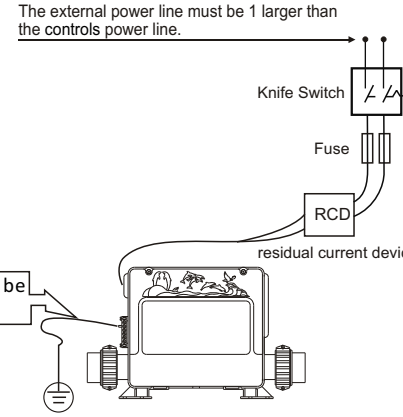
-Warning Risk of Electric Shock, the SPA controls must be Connected to grounding type receptable protected.

-The SPA controls is to be supplied by an isolating transformer or supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA.

- A suitable fuse (fuse protector) must be installed on the return circuit of SPA controls, the current of the fuse selected should be 2 times of the current marked on the name plate.

- All the wiring should be installed according to the local standard or low by professional electrician who hold the Electrician Skill Certificate.

SPA controls must be reliably earthed.



-Power connection can not be buried in the ground, wire positioning is necessary as to Avoid damage from mowing or other machine.

-To reduce the risk of electrical shock, once damaged cable is found and must be changed immediately.

-To reduce to risk of electrical shock, Any cable extension is not permitted.

- Don't load bearing flammable, explosive liquid.

-This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

-Children should be supervised to ensure that they do not play with the appliance.

-Type y attachment damaged supply cords to be replaced by the man ufacturer, service agent or similarly qualified person to avoid hazard.

I.POWER REQUIREMENTS

Single Service[3 wires(line,neutral,ground)]

220~240VAC,50/60Hz,1φ,32A,(Circuit Breaker rating = 40A max.)

3-Service [5 wires(line 1,line 2,line 3,neutral,ground)]

380~415VAC,50/60Hz,3φ,16A,(Circuit Breaker rating = 20A max each phase line.)

II.SYSTEM OUTPUT

PUMP1:

230VAC double speed (high / low speed) maximum current 12A, default working for 15 minutes.

PUMP2:

230VAC double speed (high / low speed) maximum current 12A, default working for 15 minutes.

PUMP3 :

230VAC double speed (high / low speed) maximum current 12A, default working for 15 minutes.

Air pump: 230VAC single speed maximum current 4A, default working for 15 minutes.

CIRC-PUMP : 230VAC single speed maximum current 2A programmable filtration cycle + Polling

OZONE : The maximum current 5A of 230VAC can be set circularly, and is matched with the CIRC-PUMP.

Spa Light 10VAC On/Off Maximum current 3A

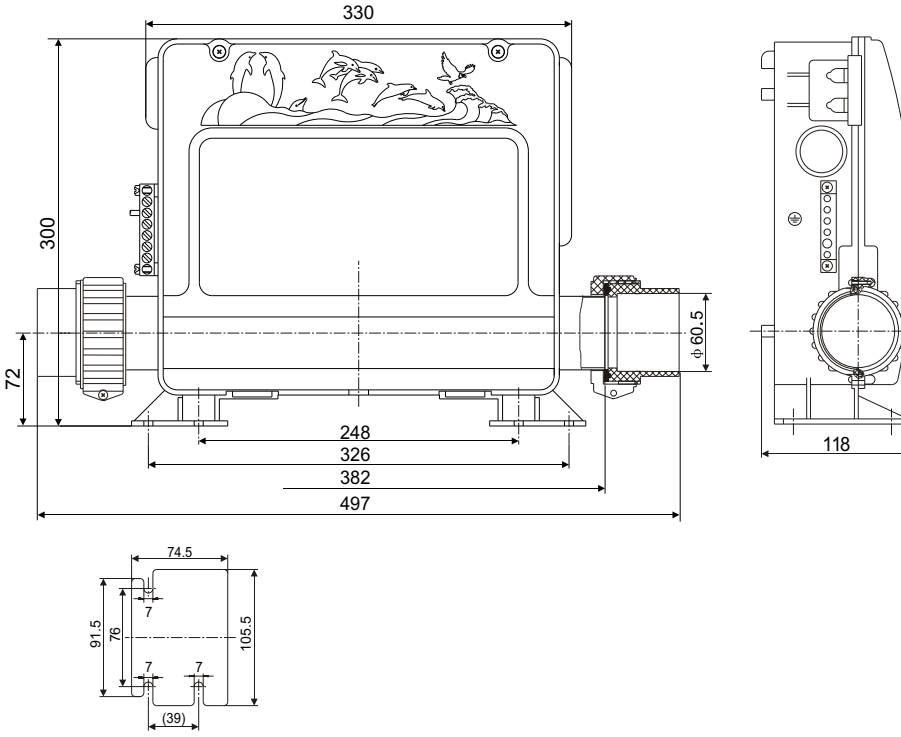
A/V (three-dimensional) : 230VAC Hot maximum current 3A is always on

HEATER : 240VAC max

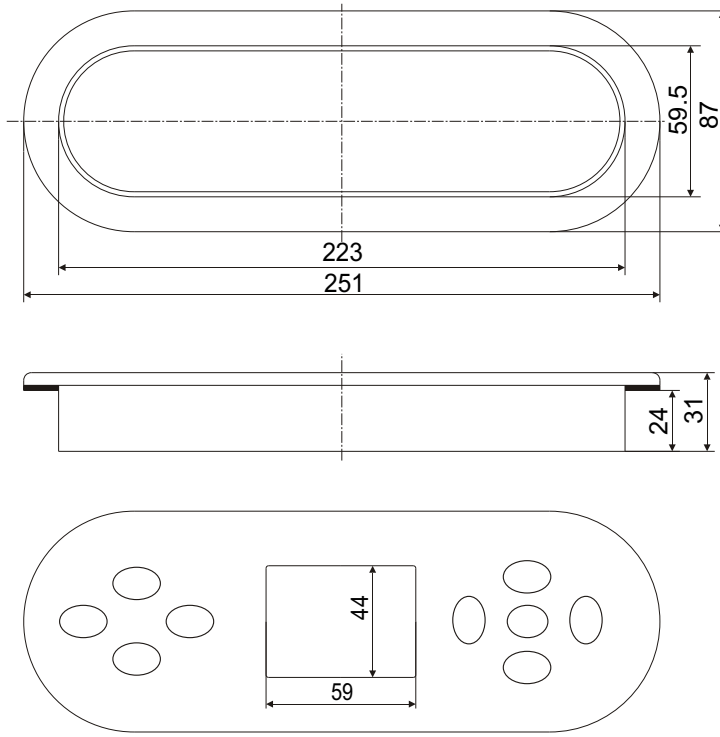
Model	Pump 1	Pump 2	Pump 3	CIRC-PUMP	Blower	AV system	Ozone	SPA Light	HEATER
LXK01	230V 2 speed	230V 2 speed	230V 2 speed	Optional	Optional	230V	230V	10V @3A MAX	230V

III. DIMENSION DRAWING FOR OUTLINE INSTALLATION

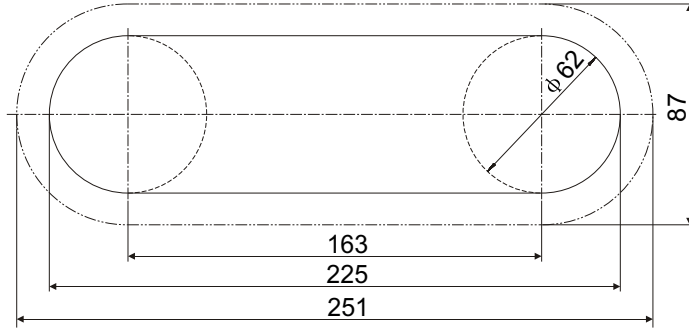
1. LXK controller installation dimensions drawing



2. Control panel outline dimensions drawing



2. Notching size for installing the control panel in SPA



IV. POWER WIRING DIAGRAM

1. When the input power is single-phase 230V, that is, only L1 and N wire are connected, jumper W1>(J1>J13 or J3>J14) supplies power for the PUMP1 branch, W2 (J2>J16 or J4>J15) , W3 (J17>J23), W4 (J18>J25) supplies power for the PUMP2 branch, W5 (J5>J33) and W6 (J34>J26) supplies power for the PUMP3 branch, W7 (J7>J19) is PUMP1 neutral wire (N), W8 (J9>J20) is AV neutral wire (N), W9 (J8 -J21) is Circ-PUMP/Ozone neutral wire (N), W10 (J10> J22) is PUMP2 neutral wire (N), Wll (J12>J24) is PUMP3 neutral wire (N), see Figure 1, 2, 3.

2. When the input power is three-phase 380V that is connected to L1/L2/L3 and N wire, remove the jumper Wl> (Jl>J13 or J3>J14), W5 (J5-J33), then L1 supplies power for heating HEATER and PUMP2, L2 supplies power for PUMP1/AV/CIRC-PUMP/OZONE, and L3 supplies power for PUMP3, see Figure 1, 2, 3.

3. See Figure 4 below for the control panel wiring

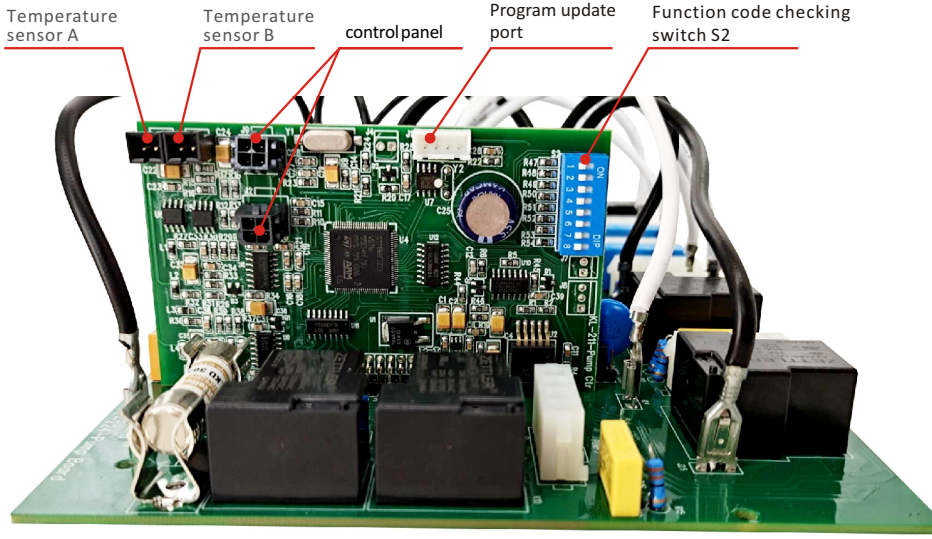
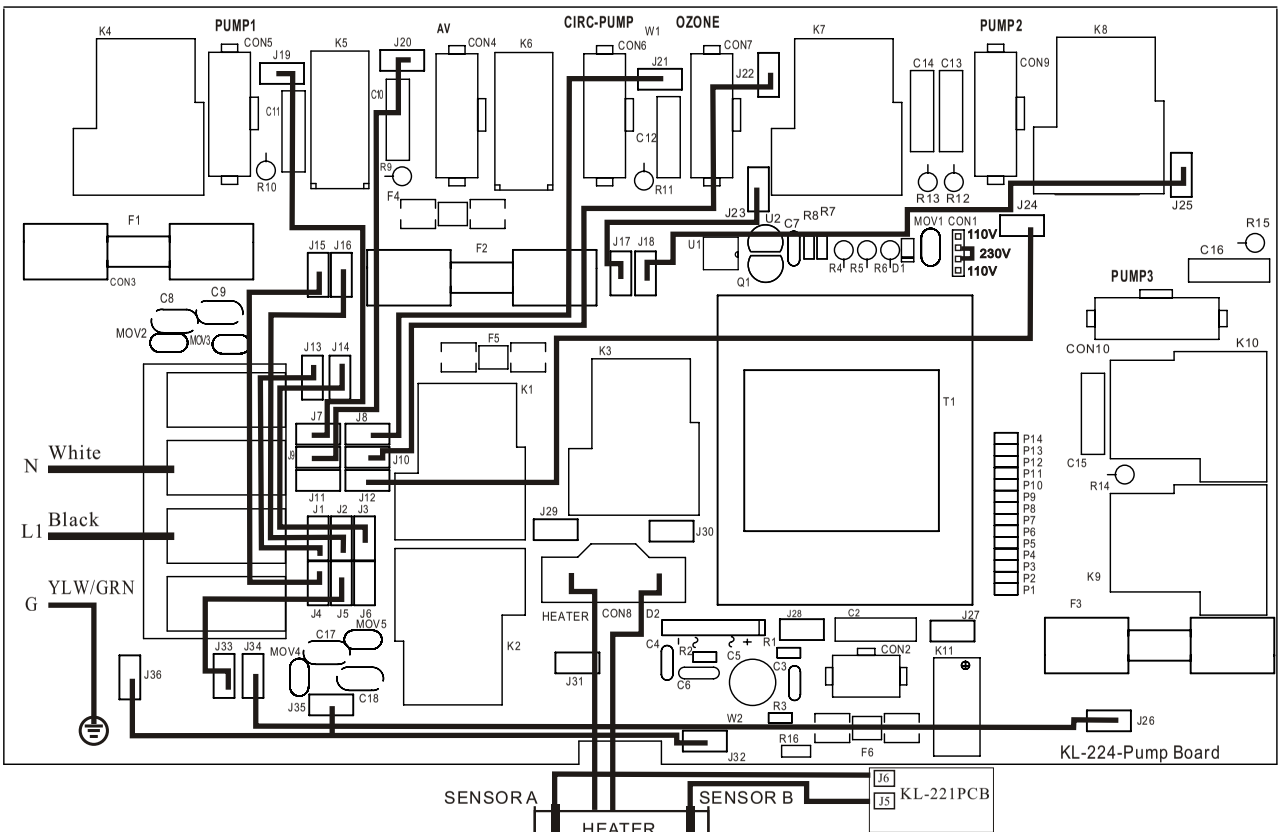


Figure 4

Wiring diagram 1.



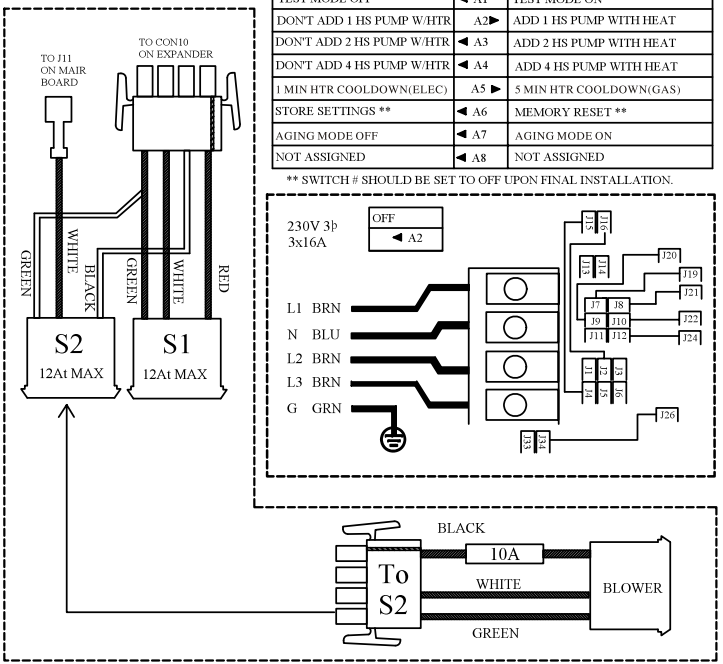
Wiring diagram 2.

SINGLE SERVICE 230V 1þ / 1x32A, THREE-SERVICE 230V 1þ / 3x16A

LOCATION	DEVICE
CON5	NETZSTROMVERSORGUNG 2-GESCHW.-PUMPE 1 ALIMENTATION POMPE 1 A 2 VITESSES 2-SPEED PUMP 1
CON9	AUX
CON2	10V BELEUCHTUNG ECLAIRAGE BAIN HYDRO SPA LIGHT
CON6	KREISLAUF PUMPE POMPE DE CIRCULATION CIRC PUMP
CON7	OZONGENERATOR GENERA TOROZONE OZONE GENERATOR
CON4	TV / AV

Setup Reference Table

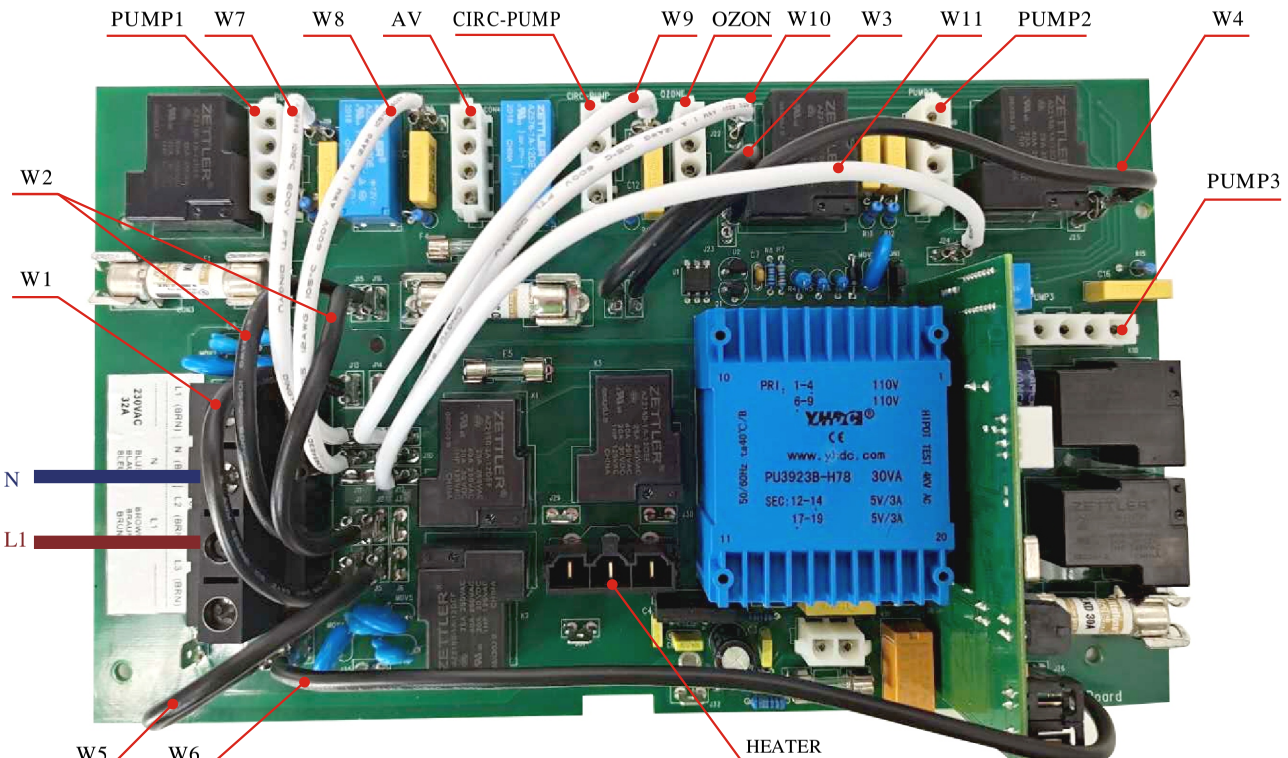
Setup #	Circ Pump	Pump 1	Pump 2	Pump 3	Blower	Temp Scale
1	None	2-Speed	2-Speed	2-Speed	None	℃
2	None	2-Speed	2-Speed	1-Speed	None	℃
3	None	2-Speed	2-Speed	None	1-Speed	℃
4	None	2-Speed	2-Speed	None	None	℃
5	None	2-Speed	1-Speed	1-Speed	1-Speed	℃
6	None	2-Speed	1-Speed	1-Speed	None	℃
7	Programmable Filtration + Polling	2-Speed	2-Speed	2-Speed	None	℃
8	Programmable Filtration + Polling	2-Speed	2-Speed	1-Speed	None	℃
9	Programmable Filtration + Polling	2-Speed	2-Speed	None	1-Speed	℃
10	Programmable Filtration + Polling	2-Speed	2-Speed	None	None	℃
11	Programmable Filtration + Polling	2-Speed	1-Speed	1-Speed	1-Speed	℃
12	Programmable Filtration + Polling	1-Speed	1-Speed	1-Speed	1-Speed	℃
13	Programmable Filtration + Polling	2-Speed	1-Speed	1-Speed	None	℃
14	Programmable Filtration + Polling	1-Speed	1-Speed	1-Speed	None	℃
15	None	2-Speed	2-Speed	1-Speed	1-Speed	℃
16	Programmable Filtration + Polling	2-Speed	2-Speed	1-Speed	1-Speed	℃
17	Programmable Filtration + Polling	1-Speed	1-Speed	None	1-Speed	℃
18	None	2-Speed	1-Speed	None	1-Speed	℃



TEST MODE OFF	◄ A1	TEST MODE ON
DON'T ADD 1 HS PUMP W/HTR	A2►	ADD 1 HS PUMP WITH HEAT
DON'T ADD 2 HS PUMP W/HTR	◄ A3	ADD 2 HS PUMP WITH HEAT
DON'T ADD 4 HS PUMP W/HTR	◄ A4	ADD 4 HS PUMP WITH HEAT
1 MIN HTR COOLDOWN(ELEC)	A5 ►	5 MIN HTR COOLDOWN(GAS)
STORE SETTINGS **	◄ A6	MEMORY RESET **
AGING MODE OFF	◄ A7	AGING MODE ON
NOT ASSIGNED	◄ A8	NOT ASSIGNED

** SWITCH # SHOULD BE SET TO OFF UPON FINAL INSTALLATION.

Wiring diagram 3.



V. Definition of Jumper

When CON1 P2 is short circuit to P3, it is defined as inputting single-phase 230VAC power supply, and when P1 is short circuit to P2 or P3 is short circuit to P4, it is defined as inputting single-phase 115VAC power supply.

Note: CON1 is on KL-224PCB.

Factory setting is 230V

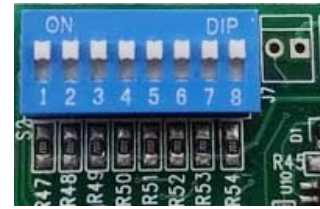
VI. System Function Configuration Selection

A total of 18 kinds of configurations are available for the system, and different configurations provide different equipment procurement demands. The change of configuration must be set by the SPA manufacturer. Please refer to the dip switch page for the method of changing. (Default setting: 1)

Setting	CIRC-PUMP	PUMP 1	PUMP 2	PUMP 3	Air pump	Temper
1	None	2-speed	2-speed #	2-speed &	None	℃
2	None	2-speed	2-speed #	1-speed &	None	℃
3	None	2-speed	2-speed &	None	1-speed #	℃
4	None	2-speed	2-speed #	None	None	℃
5	None	2-speed	1-speed *	1-speed *	1-speed #	℃
6	None	2-speed	1-speed #	1-speed &	None	℃
7	Programmable filter	2-speed	2speed #	2- speed	None	℃
8	Programmable filter	2-speed	2-speed #	1-speed &	None	℃
9	Programmable filter	2-speed	2-speed &	None	1-speed #	℃
10	Programmable filter	2-speed	2-speed #	None	None	℃
11	Programmable filter	2-speed	1-speed*	1-speed *	1-speed #	℃
12	Programmable filter	1-speed	1-speed*	1-speed *	1-speed #	℃
13	Programmable filter	2-speed	1-speed #	1-speed &	None	℃
14	Programmable filter	1-speed	1-speed #	1-speed &	None	℃
15	None	2-speed	2-speed #	1-speed **	1-speed **	℃
16	Programmable filter	2-speed	2-speed #	1-speed **	1-speed **	℃
17	Programmable filter	1-speed	1-speed &	None	1-speed #	℃
18	None	2-speed	1-speed &	None	1-speed #	℃

Cell colo	Output interface
&	CON10
*	CON10/deconcentrator
**	CON1O/deconcentrator/air pump interface with fuse
#	CON9 /air pump interface with fuse

VII. FUNCTIONS OF DIP SWITCH



Dial switch physical picture

A1 TEST MODE

When it is ON, the main interface of the control panel will display the Test option, in this option, 18 kinds of configuration of SPA and the display status of temperature sensors A and B can be changed, and the error log can be viewed. It is OFF normally.

MASSAGE PUMP RESTRICTION

When A2 is ON, any one massage pump + heater work simultaneously, if the second massage pump is started, Then the heater will be stopped, and the massage pump won't be restricted at this time.

When A3 is ON, any two massage pumps + heater work simultaneously, if the third massage pump is started, then the heater will be stopped, and the massage pump won't be restricted at this time.

When A4 is ON, any four massage pumps + heater work simultaneously.

When A2 and A3 are ON, and A4 is OFF, any three massage pumps + heater work simultaneously, if the fourth massage pump is started, then the heater will be stopped When A2, A3 and A4 are OFF, and A4 is OFF, any zero massage pump + heater work simultaneously, if any massage pump is started, then the heater will be stopped.

A5 COOLING TIME

When it is ON, after heating is stopped, the cooling time is 5min (the time that the heating auxiliary pump works after heating is stopped).

When it is OFF, the cooling time is 1min after heating is stopped.

A6 MEMORY MANAGEMENT

When it is ON, restore the factory setting.

When it is OFF, read the memory. It must be OFF when the equipment is in normal use.

A7 AGEING MODE

When it is ON, the ageing mode is enabled, communication with the control panel is unavailable. Please see the Ageing Mode page for detailed information.

When it is OFF, the ageing mode is disabled, it must be OFF when the equipment is in normal use.

NOTES:

1. Under normal working, A6 and A7 must be OFF; except for A1, the status of other dip switches can only be monitored after restarting.
2. Massage pump refers to pump 1, 2, 3 high speed and air pump.

VIII. AGEING MODE

ENABLING METHOD:

Please see the Dip Switch page for the method of enabling it.

MAIN FUNCTIONS:

Test the running reliability of product hardware.

WORK CONTENT:

1. Circulating pump and SPA lamp are normally ON
2. Two high speed pumps and heater work simultaneously, if pump 3 has high speed pump, then pump 1 + pump 2 + heater and pump 2 + pump 3 + heater work circularly.

NOTES:

1. After this mode is enabled, all operations will be prohibited through the control panel.
2. If SPA lamp flashes at the frequency of once per second, it indicates that the heater is under overheat protection or at least one thermometer is damaged, then heating is not allowed.
3. This mode must be disabled under normal working, the dip switch A7 is OFF.

IX. HEATING MODE

READY MODE:

1. The equipment is controllable, SPA lamp will turn off automatically after it has been turned on for 240 minutes, and the pump will shut down automatically after it has kept working for 15 minutes.
2. The heating auxiliary pump (circular pump + pump 1) will detect heating about 1 minute after it is started, when the actual temperature is ≤0.5℃ of the set temperature: when Heating is started till the temperature is 0.5℃ higher than the set temperature: It stops heating.
3. During the cooling period after stopping heating, it won't detect the heating.
4. Heating detection will be started during the filter period.
5. Heating detection will be started if the changed setting temperature is higher than the previous set temperature.
6. Heating detection will be started again when heating has been stopped for about 30 minutes (manually set the temperature and start heating).

READY IN REST MODE

1. The starting condition is to mannually control pump 1 in Rest mode.
2. The ending condition is to manually change the heating mode or automatically stop after it has been started for 1 hour.
3. The work contents are basically the same as the Ready mode.

REST MODE

1. The heater can't work, except during the filter period.
2. The equipment is controllable, SPA lamp will turn off automatically after it has been turned on for 240 minutes, and the pump will shut down automatically after it has kept working for 15 minutes.
3. Heating detection will be enabled during the filter period, the start heating temperature will be 10℃ lower than the set temperature.

X. FILTER PERIOD

The self-diagnosis and claning of the equipment are valid under any heating mode.

PARAMETERS SETTING:
1. A total of two filter periods can be set, among which, the filter period 1 can not be disabled, but the filter period 2 can be disabled.
2. Parameters setting includ the starting time and the running time of the filter period.

WORK CONTENT:
1. After it is started, all equipment work for about 1 minute by turns, the pump runs at high speed, after all equipment completed working, the heating auxiliary pump (circulating pump) will be started.
2. Heating detection will be performed during the filter period, the heating start temperature is the current set temperatuure, the starting heating temperature is 10℃ lower than the set temperature in the Rest mode.
3. When the filter period is ending, in the Rest mode, the detection heating start temperature will return to the icing protection temperature 6.5℃, which keeps unchanged in other modes.

SHUTDOWN METHOD:
1. Waiting for the automatic ending of filtering period.
2. Change the current time display to before or after the filter period.

NOTES:
1. Before starting the equipment, the previous status of the equipment will be recorded, and the previous equipment status will be restored after working by turns.
2. The heater may be possibly turned off when the massage pump is started, see the dip switch page for details.

XI. TEMPERATURE CHARACTERISTICS

Temperature is displayed in ℃ and ℉, system default is ℃.
Set the heating temperature zone:
High temperature zone: Default is 21℃, which can be adjusted in the range of 10~37 ℃ in the main interface
Low temperature zone: Default is 38℃, which can be adjusted in the range of 26.5~40 ℃ in the main interface
Temperature conversion relationship:

℃	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
℉	39	41	43	45	46	48	50	52	54	55	57	59	61	63	64

℃	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
℉	66	68	70	72	73	75	77	79	81	82	84	86	88	90	91

℃	34	35	36	37	38	39	40	41	42	43	44	45			
℉	93	95	97	99	100	102	104	105	107	109	111	113			

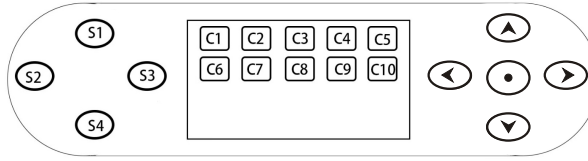
The freezing protection temperature is 6.5℃, the icing protection temperature is 0℃, the overheat protection temperature is 45℃

XII. PANEL BUTTONS DISTRIBUTION AND SETTINGS

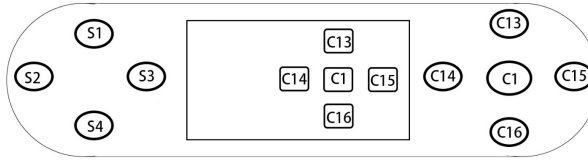
1. Buttons distribution table

ITEM	CONTROL THE PUMP	CONTROL BUTTON
1	PUMP1 2-speed PUMP1	JETS1
2	PUMP2 2-speed PUMP2	JETS2
3	PUMP3 2-speed PUMP3 /Air pump	AUX
4	SPA Light	LIGHT

2. Priming Mode interface and Spa interface



3. Shortcuts interface



4. Button operation configuration table

Features	setup 1 2&6	setup 3&18	setup 4	setup 5&15	setup7 8 13&14	setup 9&17	setup 10	setup11 12&16
C1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C2	Jets1	Jets1	Jets1	Jets1	Jets1	Jets1	Jets1	Jets1
C3	Jets2	Jets2	Jets2	Jets2	Jets2	Jets2	Jets2	Jets2
C4	Jets3	Light	Light	Jets3	Jets3	Light	Light	Jets3
C5	Light	Invert	Invert	Light	Light	Invert	Invert	Light
C6	Invert	Blower	Undefined	Invert	Invert	Blower	Circ	Invert
C7	Undefined	Undefined	Undefined	Blower	Circ	Circ	Undefined	Blower
C8	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Circ
C9	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
C10	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
C11	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
C12	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
C13	Jets1	Jets1	Jets1	Jets1	Jets1	Jets1	Jets1	Jets1
C14	Jets2	Jets2	Jets2	Jets2	Jets2	Jets2	Jets2	Jets2
C15	Jets3	Blower	Undefined	Jets3	Jets3	Blower	Undefined	Jets3
C16	Light	Light	Light	Light	Light	Light	Light	Light
S1	Jets1	Jets1	Jets1	Jets1	Jets1	Jets1	Jets1	Jets1
S2	Jets2	Jets2	Jets2	Jets2	Jets2	Jets2	Jets2	Jets2
S3	Jets3	Blower	Invert	Blower	Jets3	Blower	Invert	Jets3
S4	Light	Light	Light	Light	Light	Light	Light	Light

N/A Jets1 Jets2 Jets3 Light Invert Blower
Circ Undefined

XIII. MESSAGE PROMPT

The system message will be prompted periodically. Press the Neglect button in the main interface to do not prompt this time

MS01 tests pH value	prompt frequency: Once every 7 days
MS02 test disinfectant	prompt frequency: Once every 7 days
MS03 clean the filter	prompt frequency: Once every 30 days
MS04 test GFCI(or RCD)	prompt frequency: Once every 30 days
MS05 replace water	prompt frequency: Once every 90 days
MS06 clean the cover	prompt frequency: Once every 180 days
MS07 check the wood product	prompt frequency: Once every 180 days
MS08 replace the filter	prompt frequency: Once every 365 days

XIV. DETECTION OF ABNORMALITIES

1. If serious abnormality occurs, all equipment will stop working, and the SPA indicator flashes at the frequency of once per second.
2. The error information will be displayed in the control panel, if the error can be neglected, then the Neglection button will appear, press it to recover the equipment to normal working.
3. Abnormalities storage, the equipment can save 32 abnormalities circularly, which can be viewed in the control panel.

ER01 temperature sensor A faulty

Serious fault, please contact the manufacturer to repair or replace it.

ER02 temperature sensor B faulty

Serious fault, please contact the manufacturer to repair or replace it.

ER03 temperature sensors A and B,

Serious fault, please contact the manufacturer to repair or replace them.

ER04 overheat protection (hardware)

Serious fault, the temperature sensor detects tht the temperature is >45℃; , it can be automatically restored after the temperature has dropped.

ER05 overheat protection (software)

Serious fault, the temperature sensor detects that the temperature is >45℃, it can be automatically restored after the temperature has dropped.

ER06 temperature sensor is out of sync

Ordinary fault, the temperature difference detected by two temperature sensors is over 2℃ , at this time, the circulating pump will work continuously, the heater will stop working, and the fault can be restored automatically.

ER07 icing

Serious fault, the temperature sensor detects that the temperature is ≤0℃, the equipment is unable to be started. It can be automatically stored after the temperature has rised.

ER08 possible water shortage (dry burn)

Serious fault, it can be neglected in the main interface, heating will be detected again, it can not be restored automatically.

ER09 temperature reaches the lowest state

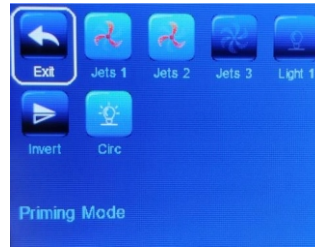
Ordinary fault, ice point protection is enabled, each pump high speed and air pump start for 30 seconds by turn, the heater is started.

XV.Operating instructions of control panel

1. Main interface: The main interface has five operations: real time temperature a display, set temperature display, time a display, ozone status display (display when opening), heating mode display, temperature range display, AB sensor temperature display and navigation bar.
Attention: The Test mode will be displayed only when the dial switch A1 is turned to ON, which is the first from the bottom of the menu option on the right. This option is only open to developers or maintainers in order to integrate 18 configurations into one software management. After all configuration settings are completed, A1 dial switch is turned to OFF, and Test is not displayed.

Main interface diagram

2. Priming Mode interface: This interface is the one that appears when the SPA control head is initially entered. According to 18 kinds of setup to determine the corresponding configuration of the calendar configuration table, see the appendix. The corresponding operation can be carried out by selecting the corresponding icon. (There is no operation in 30s or press Exit to exit the Priming Mode to enter the main interface)

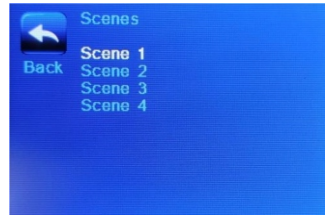


Priming Mode interface diagram

3. Control panel options interface: It is basically the same as the Priming Mode interface (except for the heating mode displayed in the lower left corner), and the corresponding icon can be operated.

Options interface

4. Scenes option interface: This menu option has four scene buttons
Operation method: Short press to send the scene, and long press for 4 seconds to save the current scene.
Operation phenomenon: If the current scene option has not been saved, "no such a scene" will be displayed when the scene is sent. If the scene has been saved, "send success" will be displayed, and "store success" will be displayed when the scene is saved successfully.



Scenes options interface

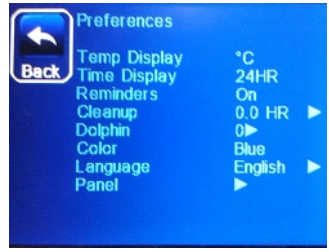
5. Shortcuts option interface: The interface is a shortcut key identification interface. The five positions of the interface correspond to the five keys on the right side of the control head, and the positions are one-to-one. The shortcut operation objects displayed by the shortcut keys will be displayed according to the Setups.

Shortcuts options interface

6. Option interface of Settings This menu option is a setting option. Two temperature ranges including Low and High are available for Temp Range, Ready or Rest heating mode is supported in Heat Mode, the time is supported in the Time of Day , corresponding contents of filtering synchronization are supported to be set in Filter Cycles, screen flipping is supported to be set in Invert Panel, the locking is supported in the Lock, Keep Hold to keep current working state, and press the Utilities after entering the error log, etc., and set some information, press Prefrences to set the switching of 8 languages, display 12 / 24 hours in Centigrade / Fahrenheit , background color conversion and other preferences, information system information.

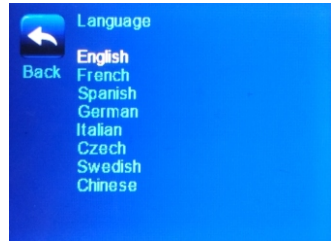
Option interface of Settings

7. Option interface of Preferences The options of this menu are preference options, including Temp Display for temperature display, Time Display for time display, Reminders for reminder function, CLeanup for cleaning setting, Dolphin for address setting, Color for color setting, Language for language setting, and Panel for panel setting.



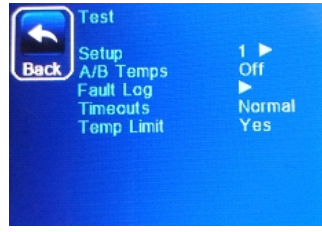
Option interface of Preferences

8. Language options interface: In the language interface, eight languages can be selected, namely: English, French, Spanish, German, Italian, Czech, Swedish, and Chinese. Note: This product uses English as the default language.



Language options interface diagram

9. Test option interface: The Test option is an option used by the staff and can not be used by customers. In the Setup mode, you can select 18 control modes (including 18 working modes), A/ B Temps, Timeouts, and Temp Limit .



Test options interface diagram

GUANGDONG LINGXIAO PUMP
INDUSTRY CO.,LTD.
add:NO.117Chunjiang Road Yangchun City GD.China
P.C:529600
Tel:（0662）7707230、7707238
Fax:（0662）7707231
http://www.lingxiao.com.cn
http://www.lxpump.com.cn
E-mail:Sales@lingxiao.com.cn

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