



JOYONWAY

PB557

Simplified operation instruction

简易操作说明书

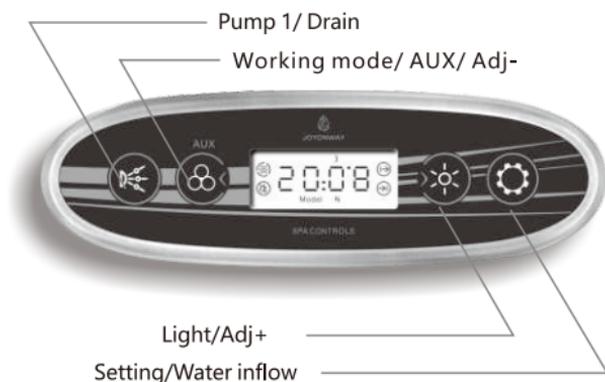


WARNING

1. Please connect power strictly according to the SPA power data plate.
2. Please do not turn the SPA power on until the water reaches water level line inside the tub.

WARNING

Please set time and date before using the SPA control system.



Main interface: the below two interfaces will be displayed in turn:



I. Functions

Pump 1

When the control system is powered on and not in sleeping mode, if pump 1 is set as single speed pump, then press the key to control the on /off of pump 1. If pump 1 is set as double speed pump, then press the key to control the low speed, high speed and turning off of pump 1.

Pump 1 will turn off automatically after running for a certain period of time.

Drain (when the control system is equipped with this function)

When the control system is powered on and not in sleeping mode, press the key for 2 seconds to control the on/ off of drain solenoid. When the drain solenoid is on, "  " will be displayed in the main interface.

Pump 2  (when the control system is equipped with this function)

When the control system is powered on and not in sleeping mode, or setting mode, press the key to control the on / off of pump 2

Pump 2 will turn off automatically after running for a certain period of time.

Blower  (when the control system is equipped with this function)

When the control system is powered on and not in sleeping mode, or setting mode, press the key to control the on / off of blower.

Blower will turn off automatically after running for 30 minutes.

Manual cycle pump  (when pump 1 is set as single speed pump and the system does not have pump 2 or blower function)

When the control system is powered on and not in sleeping mode, or setting mode, press the key to control manual cycle pump.

When heating cycle pump or timing water cycle or pump 1 is started, cycle pump can not be manually turned off.

Manual cycle pump will turn off automatically after running for a certain period of time.

Working mode 

When the system is powered on and not in setting mode, press the key for 2 seconds to switch the working mode.

The system has three working modes(the system being powered is considered as standard mode by default):

Standard mode (LCD displaying Model N): heating function will be valid in 24 hours. If system time falls in water cycle set time period, filtering water cycle function will be valid.

Economy mode (LCD displaying Model E): if system time falls in water cycle set time period, filtering water cycle function is valid; if system time falls in heating set time period, heating function will be valid. If system time is out of the set time period, freezing proof function will be started.

Sleeping mode (LCD displaying Model D): freezing proof will be started and other loads will be turned off and can not be controlled by keys.

Light 

When the control system is powered on and not in sleeping mode, or setting mode, press the key to control light. Press the key for 2 seconds to turn off the light in short time. Light will automatically turn off after working for 2 hours.

Light has two modes. In on/ off mode, light turning on and off are controlled. In RGB mode, the control regulation is as below:

- state 1 auto color change (color changing among state 2 to state 8 in cycle)
- state 2 red
- state 3 green
- state 4 yellow
- state 5 blue
- state 6 purple
- state 7 cyan
- state 8 white
- state 9 turning off

Water inflow  (when the system is equipped with this function)

When the control system is powered on and not in sleeping mode, press the key for 2 seconds to control the water inflow solenoid. When the water inflow solenoid is on, "☉" will be displayed in the main interface.

When water is detected in the system, water inflow solenoid will be turned off automatically.

Freezing proof

When water temperature is lower than 6°C (43°F) , heating will be started. When the temperature reaches 10°C (50°F) , heating will be turned off.

Water level sensing (when the system is equipped with this function)

If the control system is equipped with water level sensing function, pump, cycle pump, and heating can only be started when there is water detected. If no water is detected in normal usage, the mentioned loads will be turned off.

Timing water cycle

When system works in standard and economy mode, timing water cycle is valid. In sleeping mode, timing water cycle is invalid.

The control system has two water cycle setting time periods. Before usage, please set the two time periods.

If the system time falls in either of the time periods, water cycle will be started. If the system time is in neither of the time periods, water cycle will be turned off.

Ozone

Ozone will be turned off when pump, blower, water inflow or draining is started.

When pump, blower, water inflow and draining are turned off and heating cycle pump or timing water cycle is started, ozone will be automatically started. When both heating cycle pump and timing water cycle are turned off, ozone will be turned off automatically.

Heating

Heating function will be started automatically in standard mode. In economy mode, it will start in set time periods. In sleeping mode, it will start when temperature is lower than 6°C.

When heating function is started, and water is detected(if system is equipped with water level sensing function), heating cycle pump will be started in ahead then heating will be started; if heating is turned off, heating cycle pump will be turned off after a while.

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II . Setting

Temperature unit

When the system is powered on and not in setting mode, press "⊕" and "⊖" at the same time for 2 seconds to change the temperature unit (°C or °F) . And system will store the temperature unit.

Temperature setting

When the system is powered on, press "⊕" till entering temperature setting interface. LCD will display with flash temperature unit. Press "⊖" and "⊗" to set the temperature value. And setting range is 10~40°C (50~104°F) . And system will store the set temperature value.

24°C

Clock setting

When the system is powered on, press "⊗" till entering clock hour setting. LCD will display the hour value with flash. Then press "⊗" and "⊗" to adjust the hour value.

17:30

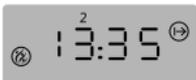
When the system is powered on, press "⊗" till entering clock minute setting. LCD will display minute value with flash. The press "⊗" and "⊗" to adjust the minute value.

Timing heating time period setting

timing heating time period 1
starting time setting interface



timing heating time period 1
ending time setting interface



timing heating time period 2
starting time setting interface

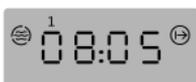


timing heating time period 2
ending time setting interface

"1" and "2" in LCD stand for time period 1 and time period 2. "→" and "→" in LCD stand for the starting and ending time of time period.

When system is powered on, press "⊗" till entering timing heating time period setting interface. The correspondent time value will flash. Press "⊗" and "⊗" to adjust the time.

The system will automatically store the value after timing heating time period setting.

Timing water cycle time period setting

timing water cycle time period 1
starting time setting interface



timing water cycle time period 1
ending time setting interface



timing water cycle time period 2
starting time setting interface



timing water cycle time period 2
ending time setting interface

"1" and "2" in LCD stand for time period 1 and time period 2. "⊞" and "⊟" in LCD stand for the starting and ending time of time period.

When system is powered on, press "⊞" till entering timing water cycle time period setting interface. The correspondent time value will flash. Press "⊞" and "⊟" to adjust the time.

The system will automatically store the value after timing water cycle time period setting.

III. System malfunction table

malfunction code	malfunction description	Solution
E1	temperature sensor malfunction	Please check temperature sensor and its connection. Replace it with a new one if necessary.
E2	Temperature surpassing the normal range	The system detects an over high temperature on the temperature sensor. This will happen when there is no water or water flow is too small inside the heating pipe and the heating function is started. Please ensure there is water inside the SPA. If the error happens frequently in several days, please contact manufacture or distributor for technical help. If the temperature detected by temperature sensor is too low, please pay attention to freezing protection.
E4	Thermostat disconnection	Thermostat disconnection indicates an over high temperature on the heating pipe. When heating is started, this error may happen when there is no water or water flow is too small inside the heating pipe. Please ensure there is water inside the SPA. If this error happens frequently in several days, please contact manufacture or distributor for technical help.
E5	Control panel and box communication malfunction	Please check the connection between the control panel and control box. Replacing them with new ones if necessary.

警告

1. 请严格按照SPA接线图连接电源。
2. 在水位达到缸内水位标线之前请不要启动SPA控制器。

警告

在使用SPA控制器之前请先
设置日期和时间。



主界面如下：（以下两个界面交替显示）

**一、功能操作****水泵1**

在控制系统上电状态且不工作在睡眠模式的情况下，若水泵1配置为单速泵，通过触摸此键，控制水泵1的开和关，若水泵1配置为双速泵，通过触摸此键控制水泵1的低速、高速和关闭。

水泵1运行一段时间后，将会自动关闭。

排水 (控制系统配置了此功能)

在系统上电状态且不工作在睡眠模式下，通过触摸此键约2秒，可以控制排水电磁阀的打开和关闭。排水电磁阀打开时主界面上显示 “”

水泵2 (控制系统配置了此功能)

在控制系统上电状态下，不工作在睡眠模式且不在设置操作下，通过触摸此键，可以控制水泵2的打开和关闭。

水泵2运行一段时间后，将会自动关闭。

气泡泵 (控制系统配置了此功能)

在控制系统上电状态下，不工作在睡眠模式且不在设置操作下，通过触摸此键，可以控制气泡泵的打开和关闭。

气泡泵运行30分钟将自动关闭。

手动循环泵 (水泵1配置为单速水泵且系统无水泵2和气泡功能)

在控制系统上电状态下，不工作在睡眠模式且不在设置操作下，通过触摸此键，可以控制手动循环泵。

若加热循环泵或定时水循环启动或水泵1启动时，循环泵无法手动关闭。

手动循环泵运行一段时间后，将会自动关闭。

工作模式

在控制系统上电状态且不在设置操作下，通过触摸 “ ” 键约2秒，可以切换工作模式。

系统一共有三种工作模式（系统上电默认为标准模式），如下：

标准模式（液晶显示Model N）：加热功能在24小时均有效。系统时间在水循环设定时间段内，过滤水循环功能有效。

经济模式（液晶显示Model E）：系统时间在水循环设定时间段内，过滤水循环功能有效；系统时间在加热设定时间段内，加热功能有效；系统时间在设定时间段外，防冻保护启用。

睡眠模式（液晶显示Model D）：防冻保护启用，其他负载均关闭且不能通过按键控制。

水底灯

在系统上电状态下，不工作在睡眠模式且不在设置操作下，通过触摸此键，可以控制水底灯。触摸此键2秒，可以快速关闭水底灯。水底灯开启2个小时后也将会自动关闭。

水底灯有两种模式。在开关模式下，控制水底灯的打开和关闭。在RGB模式下，控制规律如下：

状态1 自动变色（在以下状态2-8之间循环变色）

状态2 红色

状态3 绿色

状态4 黄色

状态5 蓝色

状态6 紫色

状态7 青色

状态8 白色

状态9 关闭

进水 （系统配置了此功能）

在系统上电状态下，不工作在睡眠模式下，通过触摸此键约2秒，可以控制进水电磁阀，进水阀打开时这主界面显示 “”。

系统检测到有水时，将自动关闭进水电磁阀。

防冻保护

水温低于6°C (43°F)，开启加热功能；温度达到10°C (50°F)，关闭加热功能。

水位感应功能（系统配置了此功能）

若控制系统配置了水位检测功能，水泵，循环泵，恒温需在检测到有水时才能开启；若正常使用中检测到无水，以上负载将关闭。

定时水循环

系统工作在标准模式和经济模式时，定时水循环有效；工作在睡眠模式时，定时水循环无效

系统有2个水循环设定时间段，在使用此功能前，请根据具体需求设定2个时间段。

系统时间若处于任意一个时间段内，水循环将启动；系统时间若均不在2个时间段内，水循环将关闭。

臭氧消毒

水泵、气泵、进水、排水负载开启时，臭氧消毒关闭。

在水泵、气泵、进水、排水负载关闭状态下，加热循环泵或定时水循环启动时，臭氧消毒自动打开；加热循环泵和定时水循环都关闭时，臭氧消毒自动关闭；

恒温加热

恒温加热功能在标准模式下自动启动，在经济模式下，将在设定时间段范围内启动，在睡眠模式下，在水温低于6°C时启动。

恒温加热功能启动后，系统检测到有水时（配置了水位检测功能），加热循环泵提前启动，稍后恒温器工作；若恒温加热功能关闭，加热循环泵稍后关闭。

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二、设置操作

温度单位

在系统上电状态且不在设置操作下，同时触摸“”和“”键2秒，可改变温度单位（°C或°F）。系统将对温度单位进行存储。

设置温度

在系统上电状态下，触摸“”键，直到进入设置温度界面，液晶闪烁显示温度单位字符，此时触摸“”和“”可以调整设定温度值，可设定范围为：10~40°C（50~104°F），系统将会存储用户设置的温度

24°C

设置时钟

在系统上电状态下，触摸“”键，直到进入设置时钟小时操作，液晶闪烁显示小时字符。此时触摸“”和“”可以调整小时。

17:30

在系统上电状态下，触摸“”键，直到进入设置时钟分钟操作，液晶闪烁显示分钟字符，此时触摸“”和“”可以调整分钟。

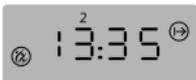
设置定时恒温时间段



定时恒温时间段1的开始时间设置界面



定时恒温时间段1的结束时间设置界面



定时恒温时间段2的开始时间设置界面



定时恒温时间段2的结束时间设置界面

液晶显示“1”、“2”表示时间段1、时间段2。液晶显示“”、“”表示时间段的开始时间、结束时间。

在系统上电状态下，触摸“”键，直到进入设置定时恒温时间段界面，相应时间闪烁显示时，触摸“”和“”调整时间。

在设定了定时恒温时间段后，系统将会自动保存。

设置定时水循环时间段



定时水循环时间段1的开始时间设置界面



定时水循环时间段1的结束时间设置界面



定时水循环时间段2的开始时间设置界面



定时水循环时间段2的结束时间设置界面

液晶显示“1”、“2”表示时间段1、时间段2。液晶显示“⊖”、“⊕”表示时间段的开始时间、结束时间。

在系统上电状态下，触摸“⊗”键，直到进入设置定时水循环时间段操作，相应时间闪烁显示时，触摸“⊖”和“⊕”调整时间。

在设定了定时水循环时间段后，系统将会自动保存。

三、系统故障表格

故障代码	故障信息	处理方法
E1	温度传感器故障	请检查温度传感器及其连接，必要时更换。
E2	温度超出正常范围	控制系统检测到温度传感器的温度过高。在恒温器启动时，当加热管中无水或水流较小时就可能出现此故障，请保证 SPA 缸中有水。如果在几天时间内多次出现此信息，请联系服务商或生产商。 控制系统检测到温度传感器的温度太低。请注意防冻。
E4	温控器跳开	表示加热管的温度太高。在恒温器启动时，当加热管中无水或水流较小时就可能出现此故障，请保证 SPA 缸中有水。如果在几天时间内多次出现此故障，请联系服务商或生产商。
E5	面板和主机通讯故障	请检查控制面板和控制主机之间的连接线，必要时更换。



JOYONWAY

—— 君乐美 ——

升旭液压（中国）有限公司东莞分公司
Sun Hydraulics (China) Co.,Ltd. Dongguan Branch

ADD: Room 302, Building 10, 38 Dongke Road, Dongcheng Street,
Dongguan city, Guangdong Province

公司地址: 广东省东莞市东城街道东科路38号10栋302室

国内座机/TEL: +86 (755) 26010705 26010708

海外座机/Sale Tel: +86 (755) 26554068 26010859

海外手机/Oversea sales: (+86) 13925211653

国内手机/China sales: (+86) 13602626203

传真/FAX: +86 (755) 26010704

邮编/P.C.: 523749

网址/WEB: www.joyonway.com

邮箱/E-mail: sale1@joyonway.com

售后服务/AFTER-SALES SERVICE :

国内电话/China TEL: (+86) 13510031581

海外电话/Oversea TEL: (+86) 13510031501

邮箱/E-mail: service1@joyonway.com