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USE professional qualifications

SPA YUI

The present document is applied to SPA tanks of YUI series commercialized by May 2021.



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## I. Introduction

*C.P.A. srl thank you for the preference granted and wishes you to fully enjoy the relaxing action and invigorating our YUI SPA.*

The YUI hot tub is designed to make the most of the operations of use by the end user. The setting operations are assigned entirely to the specialist installer at the start of the tank (for further information see the installation and starting manual). The user is only required to set the desired temperature and choose which device to activate once immersed in the tank.

The filtration takes place continuously throughout the operating period to maintain high water quality in the tank, through an automatic management of the filtration and heating cycles, for a maximum of 12 hours on 24 once the desired temperature is reached. The control panel SP 800 allows easy programming of quiet periods for deactivation of the recirculation/filtering function during periods when it is necessary to minimize the acoustic contribution of the tank.

## II. Overview Command Keypad



## III. LCD display

The T80 touch pad features a large display consisting of four digits and two lines of text.

The display typically displays three quantities:



1. the current temperature of the SPA

2. the clock (day of the week and time)
3. the temperature (target) value


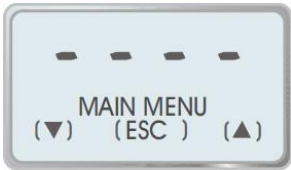





by default the current pool temperature is displayed by numerical digit and the text lines are dedicated to the clock and the set temperature.

This configuration can be modified by the user.

Each time a key is pressed the two lines of text will temporarily describe the status you have just selected. Similarly when the T80 controller performs a task, the text displayed describes what is happening. Each of these messages and the associated function is described in the following sections.

#### IV. Main menu parameters

Below is the sequence of the keys to press to access the main programming menu and related programming items:

	Press to view 
	Scroll through the menu items: <ol style="list-style-type: none"> <li>1. SET TEMP</li> <li>2. USER TIMER</li> <li>3. CLOCK</li> <li>4. USER ALARM</li> <li>5. SLEEP TIMES</li> <li>6. MAINT TIMERS</li> <li>7. MISC OPTIONS</li> <li>8. ADV. OPTIONS</li> <li>9. LD. DEFAULTS</li> </ol>
	Press access to the Configuration Sub-menu entry
	Press to set the desired value
	Press to store the modified value
	Press to exit menu

##### 1. Set Temp

To set the desired temperature

## 2. User Timer

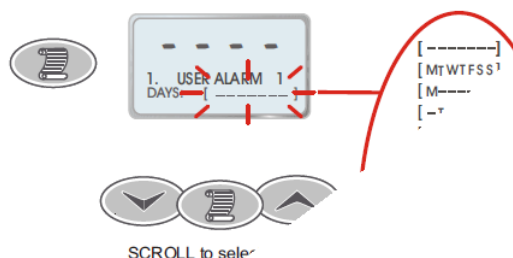
To set a timer with acoustic reminder: useful to set a maximum time of use

## 3. Clock

To set the current clock and day of the week

## 4. User Alarm

The SP800 panel allows you to set up to 9 acoustic alarms by associating them to the day and time of the seventh.





## 5. Sleep Times

To set the rest period of the tank per day (various selectable combinations) and time: in the period of "Silence" the tank will not perform any cycle of heating or filtration. After each rest period the T80 will activate each device for about 10" so as to avoid water stagnation in the pipes. The display will display the words: "PURGING PUMPS, PLEASE WAIT".

### ATTENTION

If any key is pressed in the moments before the start of the Silence period, the start will be postponed by 30 minutes and the status LED will be orange: the same will switch to the green color at the end of the 30' signaling the actual start of the period of Silence.

	Orange: starting of Silence period postponed
	Green: period of active silence

## 6. Maint Timers

The T80 controller has 9 programmable maintenance timers that will remind you when to perform regular scheduled maintenance, for example for cleaning the cartridge filter. Each timer can be configured to expire after 1- 255 weeks or be deactivated completely. All 9 timers are disabled by default.

The first four timers have specific names for specific tasks, but the other five are generic. Your installer can choose to use one or more custom programs for routine maintenance, not covered by the generic timer.

## 7. MISC OPTIONS

The Options menu contains parameters that allow you to customize the appearance of the T80 keypad on the edge of the tub. None of the options affect the basic control functions of the devices such as pump operation or heating.

## 8. Adv. Options

The Advanced Options menu contains settings that should only be changed after becoming familiar with the basic operation of the T80/1200. The default settings are generally optimal and there is no need to change them.

### I. HEAT CONTROL

Setting the temperature delta to reactivate the heater once the desired temperature has been reached:

1. TIGHT	0.25	2.50
2. NORMAL (default setting)	0.50	3.00
3. LOOSE	0.75	3.50
4. EXTRA LOOSE	1.00	4.00

For each setting you can choose between two values: the second value is the one recommended in normal domestic operating conditions.

### II. 2. FILT. PERIOD\*

Setting the minimum filtration period: Select every how many hours the system will start the filtration cycle at least once. You can set a value between 1 and 4 hours. The default value is 1 hour.

### III. 3. FILT. TIME\*

Setting the minimum duration of the filtration cycle: it is possible to set a value, in minutes, between 0 and 30. The default value is 10 minutes.

#### NOTE




By setting the FILT. 1 hour PERIOD and FILT. TIME over 30 minutes will obtain the maximum operating cycle of the circulating pump equal to 12 hours of operation of the circulating pump over 24 hours.

## 9. Ld. Defaults

To restore the factory values.

## V. Setting the language displayed

The information can be viewed in three different languages: English, German or French. To change the language:

- keep the On button pressed for four seconds, to display the selection menu.
- use the Up  and Down  keys to select the desired language.
- press the Selector  to confirm the display language selection.

## VI. Led indicators



**Auto/Water:** This LED is green when the automatic control is active and the circulation pump is in operation, it is deactivated when the pump operation is manually disabled (manual starting by the user).

### ATTENTION

If the indicator flashes, it means that the sensor for the presence of water does not detect water in the body of the heater: in this case on the LCD display flashes the word "WATER PRIMING, PLEASE WAIT" ("WATER GROOMING, PLEASE WAIT").



**Heater:** This LED lights up when the heater is on. The heater turns on and off as required by the controller in conjunction with the pump. The LED lights up in red when the heating is at maximum power, and orange when the heater is set to minimum. In the minimum position the electrical absorption is reduced to avoid the overload of the grid keeping the heating power at a reasonable level.



**Silence:** This LED lights up whenever the controller is in a preset period of Silence, this period is imposed by the user by means of a special timer. When the controller is paused the LED is green, but the color of the LED will change to orange if you wake up manually.

During the Silence state the LCD display will also show "Sleeping..." press a any key to reactivate the tub.



Function not currently used.

## VII. Onboard devices

### 1. Double speed pump

The double-speed pump supplied by YUI is also responsible for the circulation of water through the roughing basket, the cartridge filter and the heater. The operating cycle of the same is by factory setting on 24 hours, having the care to select the AUTO mode, using the dedicated button. It is however possible to intervene on the programming by programming the periods of "silence" can be set via the digital timer to the menu item SLEEP TIME.

This programming can be modified at will by the user, however it is recommended to contact the installer before any change so as to verify that the desired hourly programming does not affect the water quality.

### NOTE

The hours of automatic filtration must be closely related to the conditions installation temperature (open/closed), water temperature in the desired tank, number





of users and frequency of use and shall not be less than a minimum of 6 hours per day. See menu item Adv. Options.

The duration of the silence period is programmed at start-up by the installer following the instructions given by the user (see paragraph VII).



The YUI tub is equipped with nozzles dedicated to hydro massage, with combined action of air and water massage, present in the back of the seat and from the feet (see technical information sheet).  
To operate the pump, press the button on the control panel on the tank: act in the same way to stop the pump.

	On/off primary pump and automatic mode selection
	Pump speed variation: Low - recommended for circulation/filtration or mild massage Highi - for IDRO function with intense massage


This device stops automatically after 25 minutes (factory default).

NOTE

For a more intense massage in the back area it is also suggested to activate the dedicated blower using the AUX button.

2. Blower/Multi-speed Blower

The air jets of the chaise lounge are operated by an air compressor (Blower) that can be activated with the relative button of the keypad installed on the tank:

	Power on/off Multi-speed blower
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The blower, if not turned off, will still stop automatically after 25 minutes (factory default).


By pressing in sequence the button you can scroll in to set the different operating modes, as well as adjust the massage intensity.

### ATTENTION

Do not use effervescent aromatic tablets, or aromatic essences to be dissolved directly in the tank, unless specifically dedicated to use in SPA tanks: this could compromise the proper functioning of the tank by creating fouling or blockages in water circulation devices.

### 3. AUX


The auxiliary button is associated with a mono-speed blower dedicated to the back and feet, to be used in combination with the HIGH speed of the pump.

	Switching on/off auxiliary blower
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### 4. Multi-colored led headlight

The tank is equipped with a LED light that can be activated by means of the appropriate button on the control panel positioned at the edge of the tank.

Act on the star button in order to change its function (colour change, sequence, etc.) and to switch it off:

	<p>It is possible to change the operation of the device at each new pressure.</p> <ol style="list-style-type: none"> <li>1. Ignition</li> <li>2. Static change of color</li> <li>3. Continuous variation of color</li> <li>4. Change in progressive intensity</li> <li>5. Sudden change in intensity</li> <li>6. Time duration of color stationing</li> <li>7. Progressive color change without fading</li> <li>8. Shutdown</li> </ol> <p>The set values remain stored.</p>
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### 5. Heater

The tank is equipped with an electric heater (see technical information sheet). The action of the heater is programmed not to operate in conjunction with the massage pumps or with the blower, so as to reduce electrical consumption. Its operation is signalled by the lighting of an LED on the control panel positioned at the edge of the tank (see paragraph V).

The Heater is activated automatically when necessary in order to reach the desired temperature, which the user will have previously set, before entering the tank.








### VIII. Standard programming of the tank

Below is the standard programming procedure according to a model scheme suitable for the first start.





First set the clock on the exact time and temperature of the bath water to the desired value: The ideal recommended temperature is 32 - 36 °C. do not set the SPA with higher temperatures. Temperatures between 38 °C - 40 °C are normally tolerated by adults but not recommended.





Start up in accordance with the following steps:

#### 1. Setting the current time

	Press to view 
	Press until you see 
	Press to edit sub-entries: time, time, minutes and day of week format
	Set the desired value
	Press to store temperature









#### 2. Setting the desired temperature

	Press to view 
	Press until you see 

	Press to change the temperature
 	Set the desired value
	Press to store temperature

### 3. Setting the period of Silence.

The following procedure represents a standard example that will have to be modified on the needs of the final customer.

	Press to view 
	Press until you see 
	Press to change the subparameters: Time, Minutes and Day/I start period of silence then End of period time and minute
 	Set the desired values
	Press to memorize the program.

## IX. Secondary functions

### 1. Activation of the keyboard block

T80 touch pad buttons can be locked to prevent unauthorized users from using the SPA or changing set up options. With the active key lock the LCD display temporarily shows "Locked keys".

To activate the key lock press and hold simultaneously:



While doing this, the LCD display shows "HOLD KEYS TO ACTIVATE LOCK". You will need to hold for about three seconds before the lock is

activated. At this point the touch pad emits an acoustic signal and displays " KEYS LOCKED".

## 2. Deactivating the keyboard lock

Once the key lock is activated you need to press a sequence of buttons to disable it: Press each of the buttons listed in the unlock sequence, one at a time. The touch pad






beeps and temporarily displays "KEYS UNLOCKED" once the sequence has been inserted correctly.

Note: If the controller is switched off with the active keypad, it will be automatically removed on reboot.

## 3. LCD panel contrast adjustment

The brightness can be adjusted manually. To adjust the contrast, follow the following steps:

- 1) hold down the button  ;
- 2) with the button pressed, press the Up  or Down  buttons to darken or lighten the contrast, at will;
- 3) Once the contrast adjustment is over release the lighting button and the new setting will be saved.

## 4. Rotation of display display

Simultaneously press buttons



## X. Self-diagnosis

The switchboards of the SP series are equipped with an automatic auto diagnostic system: the main malfunction codes are reported below.

### NOTE

The signal shall be accompanied by an audible signal, which may be muted

by pressing the button  Selector.

The audible alarm is automatically silent after four minutes.

**ATTENTION**

with any error between 3 and 8 the SPA stops until the controller T80 is reset by pressing simultaneously 4 keys, as in the following figure:



## XI. Error codes

### 1. Error 1 ("PRIME FAILED")

Failed loading is a special case. This is not necessarily a problem with the T80 controller, but indicates that water is not detected in the heater body. By pressing the Down button the main pump will start for a duration of 10 seconds to try to load the exchanger. If successful, normal operation will resume. If not, the error will be shown again on the display again. It is advisable to contact the installer.

### 2. Error 2 - not used.

### 3. Error 3 ("BUTTON STUCK")

This error indicates that one or more touchpad buttons is locked or has been pressed for more than a minute. This can be caused by incorrect cover laying or damage to the touch pad itself. Provare a resettare la SPA. Se il problema persiste contattare il vostro installatore.

### 4. Error 4 ("NO WATER SENSOR")

This error indicates a problem with the optical sensor for the presence of water in the heater. The problem can be caused by disconnecting the sensor or damage to the sensor itself. Try resetting the controller. If the problem persists contact your installer.

### 5. Errore 5 ("OVER TEMP")

This error indicates that the digital temperature sensor in the heater detected a temperature equal to or greater than 45 °C. This may not be a problem of the T80. It may be caused by excessive use of hydro pumps in hot conditions or failure of the pump. Turn off the controller and wait for the time necessary for the water and the sensor to cool down. If the problem persists contact your installer.

### 6. Error 6 ("THERMAL CUT OUT")

This error indicates the actuation of the electromechanical protection for the overtemperature.

This is not necessarily a T80 problem. There may have been an overheating of the air around the sensor due to high temperatures during shipping or a failure of the circulation pump. This alarm will only be eliminated when the heater sensor has cooled down to about 38.

C. The apparatus must then be restored before it can resume operation (switch off and return to power).

#### 7. Error 7 ("STUCK RELAY")

This error indicates a problem with the heater circuit. Please contact your installer.

#### 8. Error 8 ("NO DATA TEMP")

This error indicates a problem with the digital temperature sensor of the heater. The sensor may have been disconnected or damaged. Try to reset the SPA. If the problem persists contact your installer.

#### 9. Error di 9 ("CLOCK FAULT")

This error indicates a problem with the clock inside the T80. Try to reset the SPA. If the problem persists contact your installer.

## XII. Water treatment

### NOTE

The dosages and methods of use of chemicals for water treatment must be entrusted to specialized personnel: the following indications are to be considered as general references and should therefore be adapted to the characteristics of the specific tank and its use.

For this reason, in order to maintain a good water quality in the tank it will be necessary to adjust the periods and duration of filtration according to the type of use, the frequency, the number of users and the value of the set temperature. It is good to adjust to increase the parameter FILT TIME and FILT PERIOD in a manner proportional to the frequency of use and to the increase of the water temperature in the tank.

To prevent the formation of bacteria and algae it is recommended to keep in the tank an appropriate level of disinfectant product. For domestic use, under normal operating conditions, this concentration shall be between 1,2 and 2 ppm.

If the tank is subject to long periods of inactivity it is recommended to replace, at the new restart, the water in the tank or, if it cannot be replaced, to intervene in the restoration of water quality by treatment with appropriate products. In this sense it is advisable to carry out a shock treatment, also called "shock" treatment, based on disinfection product, such as bromine, chlorine or active oxygen.

To carry out these operations, follow the instructions on the packaging of the product or, if possible, contact a qualified professional.

### **XIII. Recommendations**

- Do not set a desired temperature above 37 ° C, to contain electricity consumption and not expose yourself to health risk.

- Always cover the tank with isothermal coverage during the night period or those of long use, so as to reduce thermal dispersion and therefore electricity consumption.
  - Do not use in the tank foaming products and flavorings dissolved in water so as to keep clean the hydraulic pipes of the tank circuit and prevent malfunctions.
  - For cleaning use non-aggressive or corrosive products, which affect the finishing layer of fiberglass (see label of cleaning products).
  - The user must identify a qualified person who can manage and conduct the installation, in particular as regards operations:
    - o Loading and unloading of bath water.
    - o Water heating temperature programming.
    - o Verification of system functionality.
    - o Control of various water treatment parameters.
  - The user, unless he does not belong to the category of persons described above, shall be limited to operate according to the following, avoiding any other intervention, ensuring, before starting the plant, that it has been designed for correct operation and that the temperature of the water is that desired.
  - In the event of a failure or malfunction, he must simply disconnect the system, operating on the general switches installed in an accessible area, and then require the intervention of specialized technicians.

C.P.A. srl declines all responsibility in the event that the operations provided for in the installation manual and in the following paragraph VI - Water treatment - are not carried out by specialized personnel.



#### **XIV. Note ed Avvertenze**

The installation, if installed by qualified personnel in accordance with the provisions of the installation manual, does not present any risk to the user. Safety, however, is also linked to proper use, as provided for in this manual, while the user must delegate to qualified personnel the setting/programming/maintenance operations. It is important to ensure that the personnel in charge of the installation or management of the plant are qualified in relation to the provisions of the law, and in particular that, after installation, the declaration of conformity is issued in accordance with the laws in force.

With regard to the adequacy of the electrical system and connections, please refer to the installation and starting manual. Periodically, however, it must be verified that the differential switch of the system to which the SPA is connected is efficient.

The C.P.A. srl declines all liability for damages arising from the failure to comply with the following provisions:

- o Do not use water at temperatures above 40 °C.
- o The tolerability to hot water varies from person to person.
- o Pregnant women and young children should not use the SPA bath without first consulting a doctor and the water temperature must be below 38°.
- o Be very careful when you are alone in the spa: staying immersed for a long time in hot water can cause nausea, dizziness and fainting. If you intend to use the SPA tub for periods of more than 10 years, make sure that the water temperature is lower. This is also suitable for children.
- o People with heart, diabetes, hypertension or hypotension, or other health problems should not use the spa without first consulting their doctor.
- o Do not use the SPA bath after taking alcohol, drugs or medicines that induce drowsiness or that can raise/lower blood pressure.

- o People under medical care should consult a doctor before using the SPA tub, since some medicines may induce drowsiness, while others may affect the heart rate, blood pressure, circulation.
- o With the wet floor it is recommended to pay particular attention to entering and leaving the SPA tub.
- o Electrical equipment (radio, hair dryer, etc.) shall not be used near the SPA bath.
- o During the use of the SPA bath, the head, body and clothing must be kept at a distance of at least 40 cm from the intake vents; long hair must be collected and properly stopped.
- o Do not start the spa if the protection grids are broken or missing. Contact your installer to get the appropriate spare parts. Use only original spare parts.
- o Never start the Jacuzzi pumps and/or the heater if the water level in the tub does not exceeds that of the highest hydro jets.
- o Do not use the SPA bath during the treatment of superchloration (or treatment "shock"): wait until the level of free chlorine has dropped to normal levels (refer to the chapter - Water treatment).
- o Always switch off the master switch before emptying the SPA bath (winter rest, etc.).

The information contained in this document may vary at the discretion of the claimant, without notice, together with the changes of the product in question to this document: it will be the responsibility of the customer at the time of the order to verify the persistent correspondence of the product to the information sheet. The C.P.A. s.r.l. assumes no responsibility for any problems arising from incorrect interpretation of the text.

C.P.A. s.r.l. also declines all responsibility for possible inaccuracies contained in this manual, if due to printing or transcription errors.