

Introduction:

Thank you for purchasing a Spa Power 750 spa control system. This is Spa-Quip's mid range spa controller. It includes many of the best features from our top of the line models and some new features of its own, all in a very cost effective package.

Quick operating instructions:

(1) Pump Button:

The default state is Auto mode in which the pump and heater are controlled automatically to maintain the pool temperature and filtration. Four pushes on this button cycle the system as follows. (Three pushes if a single speed pump is fitted instead of two speed).

Push 1 = Auto off, Pump on (low), Heater automatic.

Push 2 = Auto off, Pump on (high), Heater automatic.

Push 3 = Auto off, Pump off, Heater off.

Push 4 = Auto on, Pump and Heater controlled automatically (back to default state).

Clean Up Cycle:

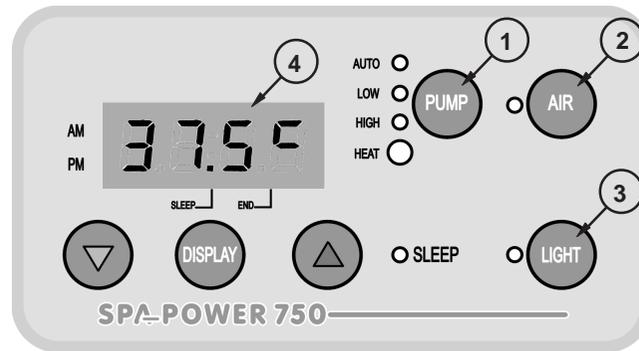
If desired, a clean up cycle can be initiated to filter the water after the pool has been used. This is achieved by pushing the pump button to leave auto mode and switch on the pump. The pump will run for 90 minutes circulating the water through the filter. The system will then return to auto mode by itself and maintain the temperature and filtration ready for the next time the pool is used.

Auto Sanitising (Filtration):

The Spa Power 750 monitors the total time the pump is running in normal pool operation. If the pump has run for only a short time it will automatically run the pump for an additional period every hour to maintain the filtration/sanitisation of the pool water. The minimum daily run time is user adjustable (see section 4). Filtration does not operate in sleep mode.

Ozone Output:

The Ozone control channel is completely automatic and no user controls are necessary. The Ozone control scheme can be configured for either a 24 hour ozone system which has its own pump or a system which relies on Pump1 to operate. The ozone generation is switched off while the pool is in use and comes on again automatically 30 minutes after the last push of the pump, air or light buttons.



(2) Auxiliary Air or Jets Button:

The default state is off.

Two pushes of this button cycle the output as follows.

Push 1 = Output on. Push 2 = Output off.

If left on, this accessory will automatically switch off 20 minutes after the last push of the pump, air or light buttons. In some installations using this accessory will cause the heater to switch off (loadshedding). This is in order to keep the total current used to a safe level.

(3) Light Button:

The default state is off. Pushing this button controls the light as follows.

Push 1 = Light on high.

Push 2 = Light on low (if dimmable light is enabled).

Push 3 = Light off.

If left on, the light will switch off by itself 30 minutes after the last push of the pump, air or light buttons.

(4) Digital Display & Controller Settings:

In normal operation the display can show six different parameters. These are...

- 1) Sensed pool temperature (not adjustable)
- 2) Target pool temperature (adjustable)
- 3) Daily minimum filtration time (adjustable)
- 4) Current time of day (clock) (adjustable)
- 5) Sleep start time (adjustable)
- 6) Sleep stop time (adjustable)

The Display button cycles the LCD display through these quantities. The display normally automatically returns to Sensed pool temperature after a few seconds but the Time of day (clock) display can be made to stay on the display by first selecting it using the display button and then pushing the up and down buttons simultaneously.

To adjust the controller settings first select the setting of interest using the Display button and then adjust it by pressing and holding the Up or Down button. There is a slight delay before the Up or Down buttons work in order to reduce the risk of accidental adjustment.

The different quantities can be recognised by the format of the display as shown here...

26.5°C	37.0°C
Pool Temperature	Set Temperature (point flashing)
F34F	10:45
Filtration time	Time of day (colon flashing)
12:00	7:00
Sleep start time	Sleep stop time

Sleep Function:

Sleep mode is used to silence the spa pool during your hours of sleep and is controlled by the built in clock. The clock will need to be set to the correct time of day the first time the unit is used or if it has been turned off for a long time. Default sleep settings are between 12pm & 7am. These times will be remembered however long the unit is turned off. The spa can be used within the sleep period, without changing any settings, by using the Pump button to take it out of Auto mode. If the sleep start and stop times are set to the same time then the sleep mode is deactivated. It is normal for the spa to run for a long period after sleep to recover heat lost over night, so the sleep stop time should be set about one hour before the spa is needed.

IMPORTANT:

Before using, check that the spa pool has been connected to a suitable weather protected supply equipped with a double polled isolating switch, which is of the correct rating and complies with the local wiring regulations.

When installing refer to your local wiring code. In particular refer to ECP 2 and ECP 25 (AS / NZ) and EN 60364-4-1 and EN 60364-7-1 (EU). The system must be installed in such a way that live parts are not accessible by a person in the pool.

This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.

Self Diagnostic Error Codes:

The Spa Power 750 controller has extensive self diagnostic capabilities. In the event of a problem it will sound an alarm and indicate an error number according to the nature of the problem. The alarm can be muted by pushing the Light button.

The error numbers and their meanings are listed below.

Error 1 (H2O) = PRIME FAILED

This is a special case. It is not necessarily a problem with the Spa Power 750 itself but indicates that no water is being detected in the heater housing. A push of the pump button will run the pump for 10 seconds to try to get water to the heater. If successful normal operation will resume. If unsuccessful Error 1 (H2O) will be indicated again.

Error 2 is not used.

Errors 3-8 are latching errors.

Operation will stop and will not continue until the controller is reset (switched off and on again at the main power).

Error 3 = STUCK BUTTON

This error indicates that one of the buttons in the control panel is stuck or has been held down for more than four minutes. This may be caused by water getting into the panel or by damage to the control panel or its cable.

Error 4 = NO WATER SENSOR

This error indicates a problem with the optical water sensor in the heater. It may be caused by the sensor being disconnected or by damage to the sensor.

Error 5 = OVERTEMPERATURE

This error indicates that the digital temperature sensor in the pool has detected a temperature of 45°C or more. This is not necessarily a problem with the Spa Power 750 itself. It might be caused by excessive pump use during hot weather. In this case reduce the filtration time set.

Error 6 = THERMAL CUT OUT TRIPPED

This error indicates that the safety electromechanical over temperature cut out on the heater has operated. This is not necessarily a problem with the Spa Power 750 itself. It might be caused by high temperatures during shipping or by disconnection or failure of the pump. This error can be cleared by waiting for the heater to cool below about 38°C and switching the power off and on again.

Error 7 = STUCK RELAY

This error indicates a problem with the heater control circuitry inside the unit.

Error 8 = NO TEMPERATURE DATA

This error indicates a problem with the digital temperature sensor in the pool. It might be caused by the sensor being disconnected or by damage to the sensor or its cable.



Dealer Stamp:

QUICK CARD USER GUIDE SPA POWER 750A&B SPA CONTROLLERS

Please read these instructions carefully
before use



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