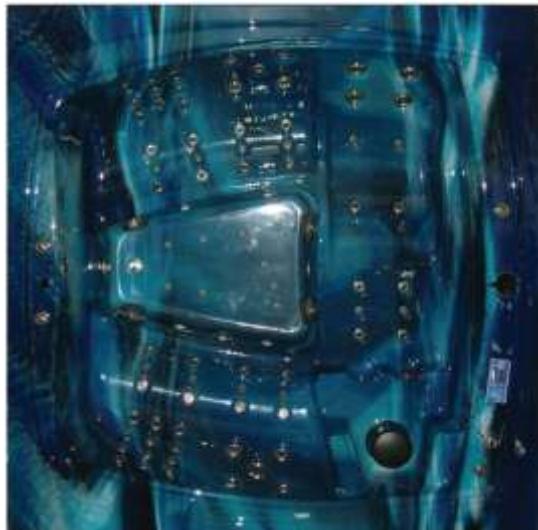


# VittrA

## MANUAL FOR SPA'S CLEANING, MAINTANANCE,PROGRAMMING AND LAYOUT



2012

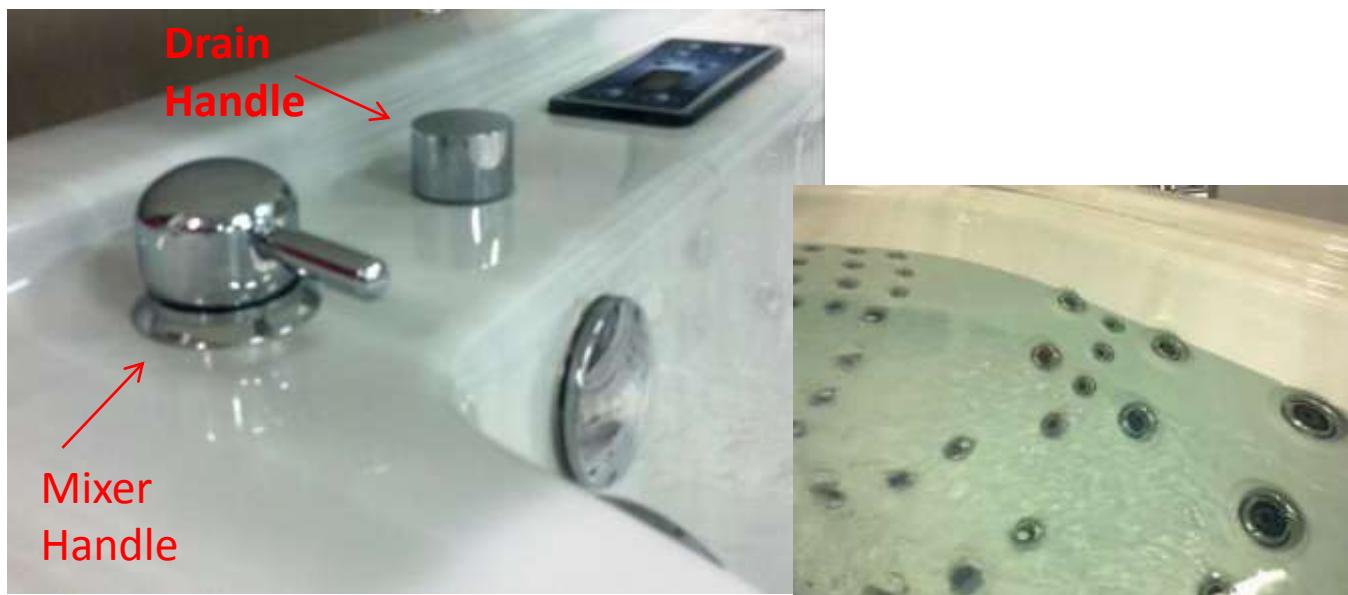
## WATER TREATMENT

SPA is equipped with a circulation system with filter and ozone system. Filter system and ozone system keeps your water clean and warm if SPA's is powered. If SPA is not powered there will be no water treatment mechanism active which will enable bacterias to live in SPA water.

Spa should not be powered off for long time when it is full with water ( more than 1 day ). When it needs to be powered down more than 2 days , it is strongly advised to drain SPA and keep it empty.

### How to fill the SPA ?

Fill your SPA allways with clean tap water, do not fill your spa from sea, lake , river or well. These water sources might have organisms inside which will decrease the performance of your SPA cycle system. Your SPA is equipped with an easy fill and drain system. If you have the water connections and drain connections done during installation you can fill and drain spa with one finger touch. By mixer handle you can fill your SPA and by drain handle you can turn the pop-up siphon to drain your SPA. SPA should be filled minimum over the level of water jets.



## WATER TREATMENT

### Do I need to add water to my SPA ?

Because of evaporation and by usage there will be some water loss on your SPA. You might have water splashes out of your SPA from massage jets if your water level is below your jets. Because of this reason you always need to keep your water level inside your SPA above jet level. That is why Vitra SPA is equipped with a built in mixer which you can fill it with one touch. Please make sure that you have the water connection done for the mixer during installation.

### When to change water of the SPA ?

The changing period of SPA water depends completely on the location and usage of your product. It is advised to change it between 3 months to 6 months depending on how often and where it is used. The determining signal for the replacements need is the clarity of water, if there is any bad smell and if there are any algae production in acrylic body.

### Do you need other chemicals to keep water clean ?

Although your SPA is equipped with filter and ozone system it is advised to use Chlorine-Bromine or some new SPA chemicals to keep your water in better conditions. The amount of material and how to use it depends completely on the product you use. For information you can check internet or DIY markets or Pool and SPA chemical suppliers .



## Ozone Generator ?

Ozone generator has a life depending on how long it is used. In 24 hours filtering systems ozone generator has a life time of approxiametly 2 years. There is a green light on oznoe generator indicating it is functioning. You can see if the ozone generator is dead and needs to be replaced if the greenlight is not lid although circulation pump is running. It is adviced that replacement of ozone generator is done by technicians.



## FILTERS

Vitra SPA is eqiped with a filtering system with a cartridge filter. This filter needs to be replaced by time depending on the usage. Average period of filter is 2-6 months. You can check the filters performance. The particals on water surface is a good signal for the filter , if there are visible small on water surface your filter needs to replaced. The better way is to remove filter and inspect it visiually. Filters can be replaced by the SPA owners easly. You can replace the filter or clean it and use it longer.

## HOW TO CHANGE YOUR SPA FILTER



Remove the filter cap by turning



Remove the basket



Remove the old filter



You can either clean the filter by pressurised water or replace with a new one.  
The Vitra Spare part code for the filter is 5604660



Locate the new filter , make sure that it fits at the right position. Put back the basket and close filter cap.

## CLEANING

- Acrylic Body /Composite Panel/Jets: Acrylic body, panel and jets of the spa should be cleaned by only water. In case of strong stain and smear it is only advised to use cream cleaners which have no abrasive particles inside . Some special SPA cleaners are also available in the market.
- Heat Protection Cover : Heat protection cover should be cleaned with only water . In case of strong stain and smear it is only advised to use soap or cleaning materials ideal for both natural and fake leather.

## ELECTRIC CONNECTIONS

Below is the cable table required for the SPA's depending on the distance between SPA to the electric connection box. Vitra SPA'S don't have an start/stop button, the only way to turn SPA on and off is to use the fuse on the leakage current relay ( you can see below picture). This fuse box is located inside SPA pabnel covers so it is strictly adviced to have a fuse only connected to the SPA in the main power box of the house. An identical on/off button can be made by electrical technicians by customers request .



### ELECTRIC POWER AND WIRING TABLE

Voltage reduction limit from the main panel to the motor is 3% for motor circuits

Total Power P=(W) 9330 7830 6330

Max Current Drawn I=(A) 42

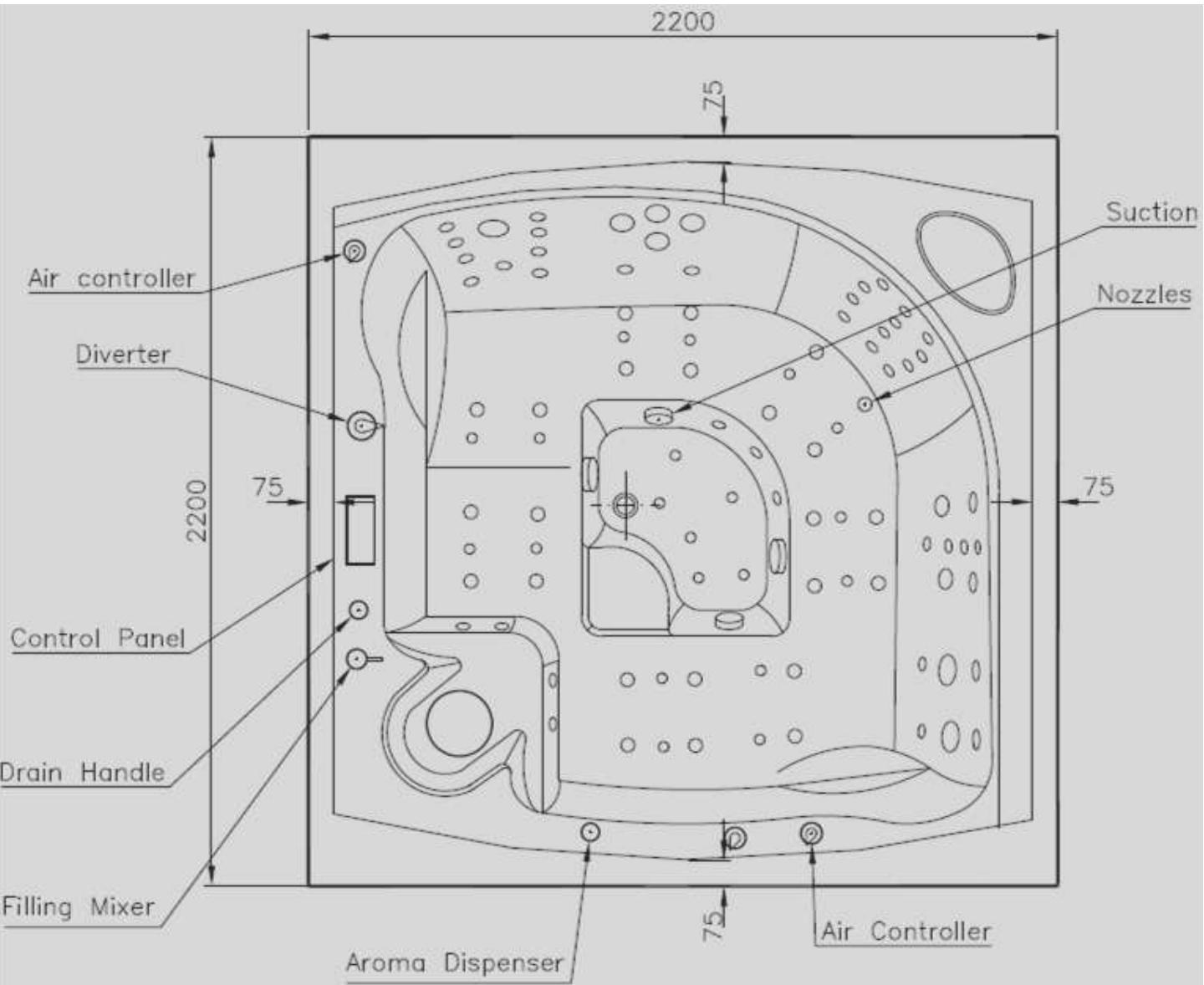
Distance of SPA to main elecric box (between)	36 29	CABLE SHOULD BE USED
0-25 m	2.85	3x6 mm <sup>2</sup> NYY
25-35 m	2.75	3x10 mm <sup>2</sup> NYY
35-60 m	2.89	3x10 mm <sup>2</sup> NYY
60-80 m	2.91	3x16 mm <sup>2</sup> NYY
80-100 m	2.75	3x25 mm <sup>2</sup> NYY

Short circuit current KA 6KA 6KA 6KA

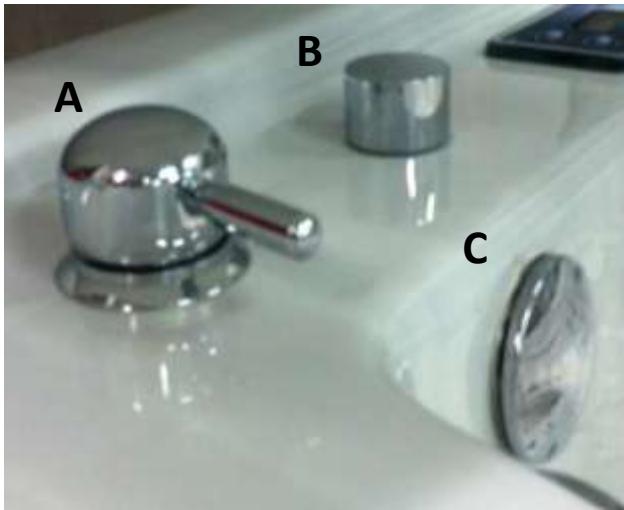
Fuse Type To be determined according to system starting resistances

Leakage current relay is provided on the product.

## SPA OVERVIEW



## PARTS OF YOUR SPA



Your Spa is equipped with an easy filling system and an easy drain system. If you have the water and drain connections done during installation you can fill your spa using the filling mixer (A) and drain your spa using the drain handle (B). Your SPA is also equipped with an overflow (C).



Your Spa is equipped with 3 air controllers. Air controllers regulates the massage strength of water jets by changing the air mix in the jets output. 3 different air controllers controls 3 different jet groups.



Your Spa is equipped with 1 diverter. This diverter diverts the power of pump 2 to 2 different areas of your SPA. When you press Jets2 button on your control panel pump 2 activates. You can forward all power to one lounge area or seats by turning diverter. When position diverter in middle as in picture you divert pump power equally to both areas.

## PARTS OF YOUR SPA

### AROMA BOX



Your SPA is equipped with an Aroma dispenser box. Aroma dispenser box delivers the smell of essences through water to Spa atmosphere. You will only have the smell delivered when Blower is on. Only solid aroma pills as in attached should be used. Do not use liquids in aroma dispenser box.

### JETS



Your SPA is equipped with water jets having different sizes and different functions. All water jets can be turned on and off individually by rotating the metal part. Only air can not be turned on and off.

## CONTROL PANEL



Turns Blower on/off.



Turns Jet Pump 1 on/off. Led indicator shows the pump is active



Turns Jet Pump 2 on/off. Led indicator shows the pump is active



Turns Lights on/off. Led indicator shows lights are on. Every push to lights button changes the color and mood of the SPA lights



Warm and Cool buttons are used to adjust temperature and also used as up/down keys in settings.



Mode is used to adjust programs



Heat LED is lit when heater is on.

## PROGRAMMING OF SPA

### Initial Start-up

Your spa will enter Priming Mode (Pr ) when it is energized. During Priming Mode, press “Jets” button(s) repeatedly and be sure all pumps are free of air. Priming Mode lasts less than 5 minutes. Press any of the “Mode”, “Warm” or “Cool” buttons to exit. After Priming Mode, the spa will run in Standard Mode (see Mode section).

### TEMP CONTROL (26°C - 40°C)

When the SPA is powered up you will see dashed lines on screen at the beginning. After 2 minutes you will see the actual temperature of water. The last measured water temperature is constantly displayed.



To display the set temperature, press “Warm” or “Cool” once. To change the set temperature, press a temperature button again before the display stops flashing. Each press of “Warm” or “Cool” will adjust the set temperature. After three seconds, the display will stop flashing and begin to display the current spa temperature.

### JETS

Press “Jets 1” to turn pump 1 on or off, “Jets 2” to turn pump 2 on or off . Pumps will turn off after 15 minutes, to turn them on you need to press buttons again.

### LIGHT

Press “Light” to operate the spa light. Each press changes the color and cycle program of spa light. Light turns off after 4 hours.

## PROGRAMMING OF SPA

### Mode/Prog Selection

Your SPA runs in three different modes. These modes are to decrease the energy consumption of the SPA according to customer usage behaviour. These three modes are “STANDARD” ; “ECONOMY” and “SLEEP”.

- Mode is changed by pressing “**Warm**” or “**Cool**”, then pressing “Mode”.
- STANDARD Mode maintains set temperature. “Std” will be displayed momentarily when you switch into Standard Mode.
- ECONOMY Mode heats the spa to the set temperature only during filter cycles. “Ecn” will display when water temp is not current, and will alternate with water temp when the pump is running.
- SLEEP Mode heats the spa to within 10°C/20°F of the set temperature only during filter cycles. “SLP” will display when water temp is not current, and will alternate with water temp when the pump is running.

For standard daily usage it is always advised to use STANDARD mode , for short time holidays or if you will not use the spa for some days ECONOMY mode can be chosen. For long time holidays it is better to use SLEEP mode for energy saving.

### Filter Cycles

Filter cycles are the moments that all pumps and blower runs for sometime to make all water in spa to move and be filtered. In filter cycles two things happen. First all the pumps and blowers activate automatically. Blower stops after 4 minutes. Massage pumps stops. But circulation pump continues running all the filter cycle long. This means by adjusting the filter cycle time and circulation pump behaviour( you will read about it next page) you adjust how long circulation pump may run in one day. Filter cycles have two can be adjusted from minimum 2 times 2 hours cycles to 24 hour cycles.

## PROGRAMMING OF SPA

This determines also the energy consumption. Adjustment of the filter cycles is completely dependent on the user. If the spa is used by only family members and not so often 4 hours filter cycle per day is enough. But if the SPA is used in a public place it is strongly advised to use longer filter times even continuous filter cycle. Filter cycle is dependent on the Circulation pump behaviour program. Filter program adjustment is done by users as described below. But it is strongly advised that Circulation pump behaviour program is done by a certified technician.

### Programming Filter Cycles

The first preset filter cycle begins 6 minutes after the spa is energized. The second preset filter cycle begins 12 hours later. Filter duration is programmable for 2, 4, 6, or 8 hours or for continuous filtration (indicated by “FILC” ).

The default filter time is 4 hours for your SPA. To program filter cycle, press “Warm” or “Cool”, then “Jets 1”. Press “Warm” or “Cool” to adjust. You will see FIL2;FIL4;FIL6;FIL8 . Numbers indicate the duration of each filter cycle. Press “Jets 1” to exit programming. In hot environments, the circ pump may turn off for 30 minute periods, except during filter cycles. At the beginning of each filter cycle all other equipment will run briefly to purge the plumbing.

### Programming Circulation Pump Behaviour

Your SPA is equipped with a separate circulation pump . Your SPA's circulation pump can be programmed for two different behaviours. These 2 programs determine how long the circulation pump runs. These two programs are :

- 24 hours circulation pump with 3F shut down
- Filter Pools only (Circ pump acts like pump1)

## Programing Circulation Pump Behaviour

24 hours circulation pump with 3F shut down : This mode is the preset mode of your SPA. In this behaviour circulation pump runs for 24 hours. Circulation pump only stops when the water temperature is 3 ° F, approxiametly 2°C, higher them adjusted temperature; or stops 30 minutes twice a day to cool down the pump. This means you will allways have the circulation pump running with ozone. This behaviour gives maximum purity and clean to water but off course it consumes energy.

Filter Pools only (Circ pump act like pump1) : This mode can be set from the control box. In this mode the circulation pump runs only in filter cycles or when it is needed to heat water. This means if yuo adjust filter cycles for 2 hours , the circulation pump will run only 4 hours a day and only run to heat up the water if it is needed. This behaviour is more energy saving one.

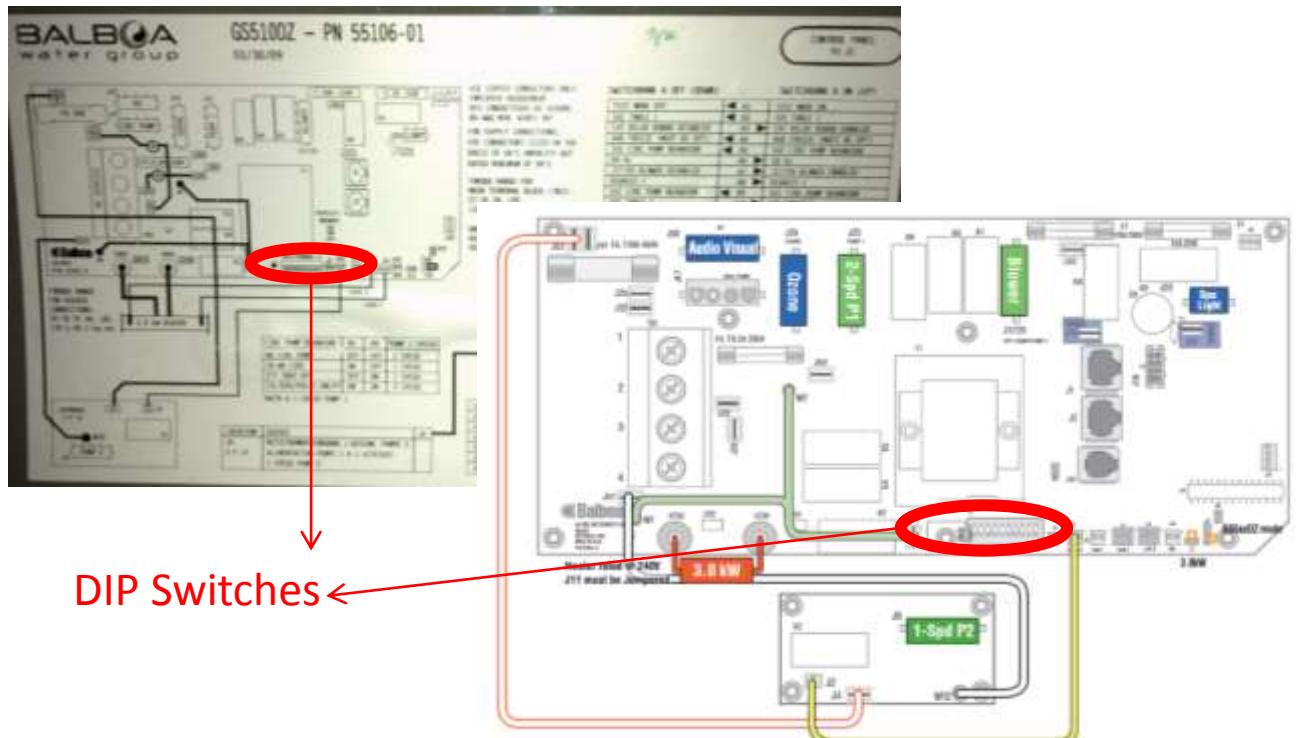
For public places like hotels , SPA centers , heatl clubs and etc. 24 hours circ mgiht be a need ; for home owners for family use filter pools only would be enough and you might save energy. You can also increase the working hours of circ pump from filter progeam as decribed before.

It is strongly adviced that you decide to have 24 hours circ pump or filter pools only before installation finished. Ask your techinician to do the change. Factory setting is allways 24 hours circ.

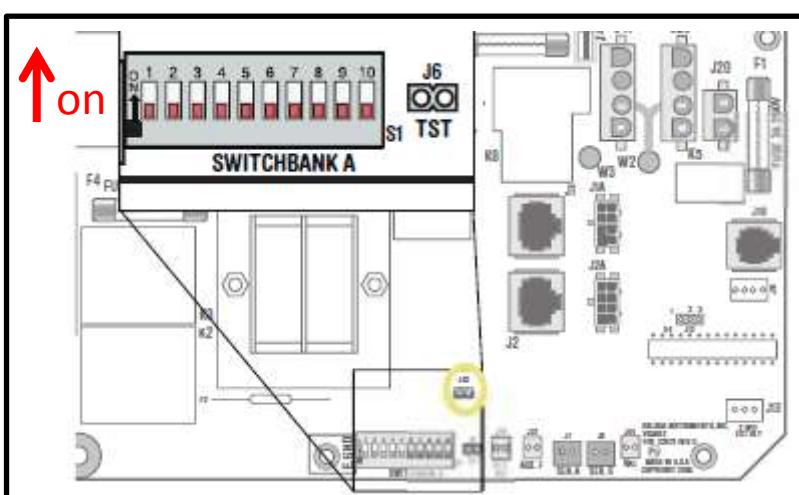
It is strongly adviced that a technician does the behaviour program. The adjustment is done by DIP switches inside your SPA' control box.

\*\* You should powerdown your SPA before you open the Cover of the control box.

Inside the control box cover you will see a scheme of the control box circuit board. The adjustment is done by the DIP swictches which is a red block on the circuit board. You can see its location in pictures.

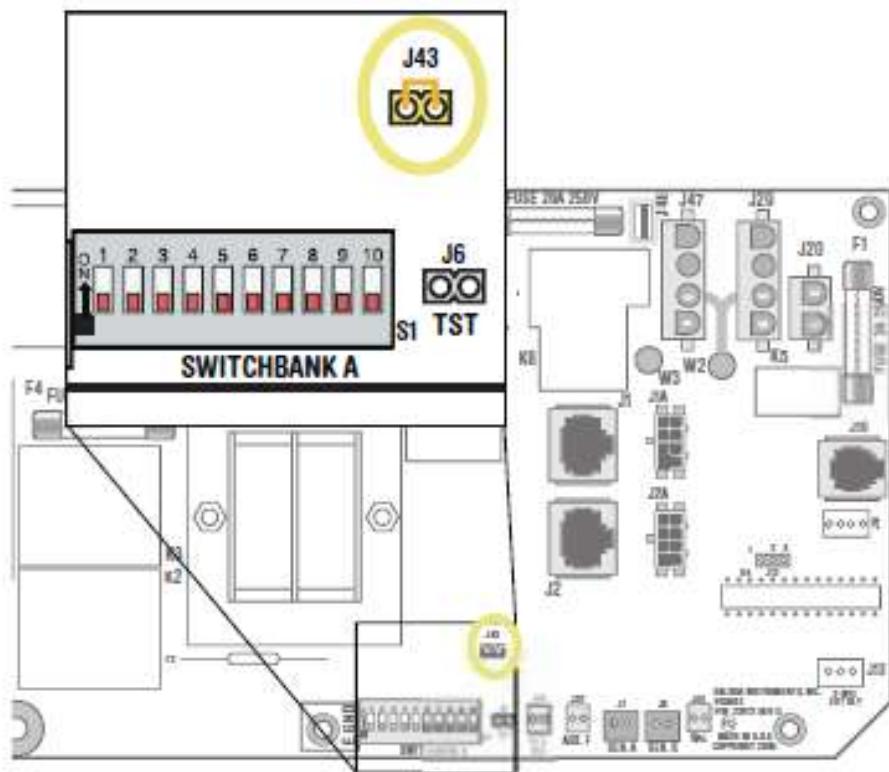


There are ten DIP switches. All of them are for different purposes. To change Circulation pump behaviour we use switch 5 and switch 9. To have 24 hours circ pump A5 should be off(down) and A9 should be on(up). To have circulation pump running in Filter cycles A5 should be on(up) and A9 should be off(down). Last stage you need to store dips switch setting to memory.



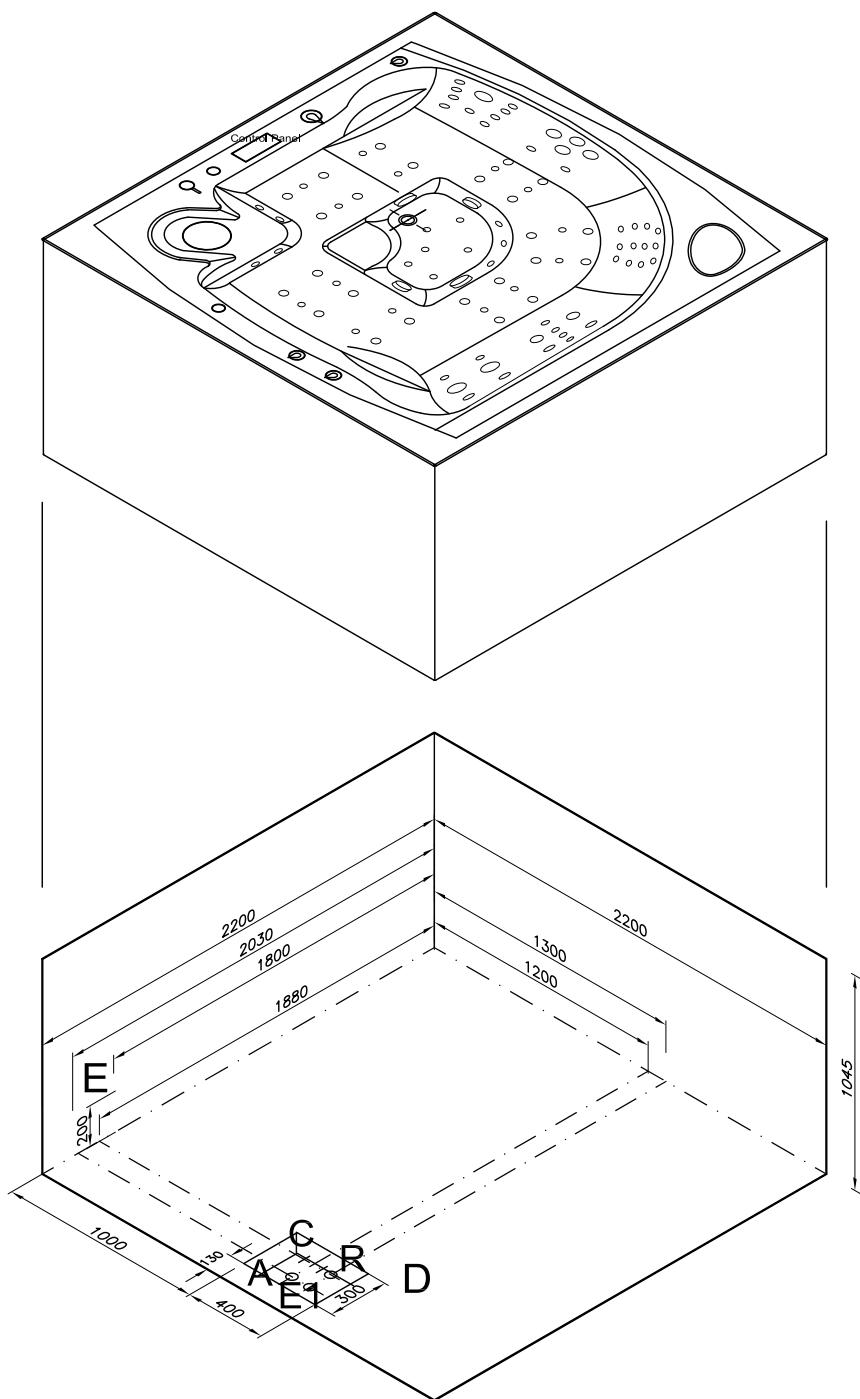
A5	A9	Circ Mode	Pump 1 Speed
OFF	OFF	Non circ	2 speed
ON	OFF	Circ "acts like Pump 1 low" (filters/polls/etc)	1-speed
OFF	ON	24 hours with 3°F shut-off	1-speed
ON	ON	24 hours with 3°F shut-off	2 speed

When you do any change in DIP switches you need to store it to memory of the control box. You save information with the J43 jumper on the control box just on the left corner of DIP switches.



Normally the black jumper piece is connected only on one pin of J43. after you change DIP switch settings put black jumper piece connect to both pins of J43 as in above illustration. Power up SPA , when spa is powered up wait until you see the “Pr” is displayed on control panel. When “Pr” is displayed on control panel Power down SPA again. Take black jumper piece again back to its location and only one pin is connected. Close the control box cover and you can power up SPA again. Your DIP switch settings is in memory.

## Well-Break Perspektive



A: Ø50 mm. Ideal depth for drain. The drain should not cut the muff. It should be left to remain at least 2 cm under the flooring.

C: Hot and cold water drainage measures. Should be made to remain at least 2 cm under the flooring.

D: Plumbing group collection cavity. Plumbing openings should be made to remain at least 2 cm under the flooring.

E: Electrical connection points (220 volt, 3x6 mm, 32 A)

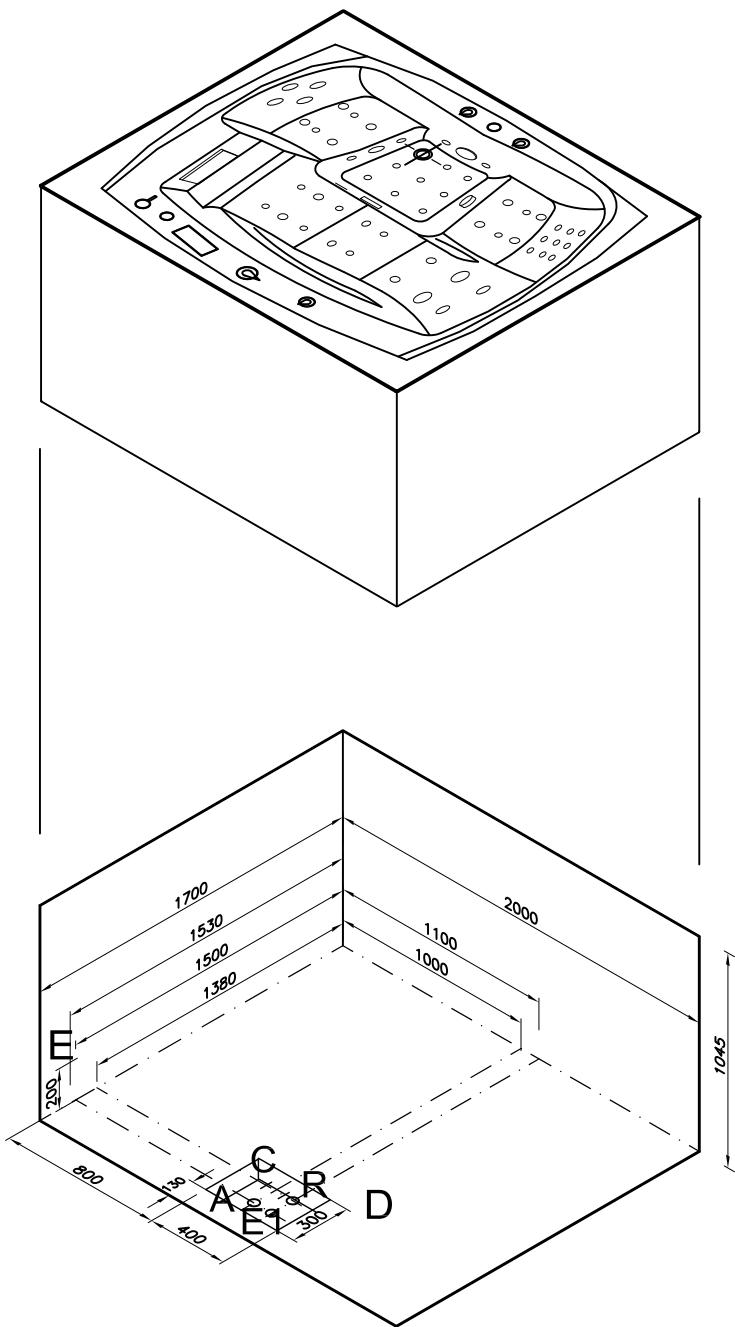
F: Coupling for discharging the water in the Spa with a hose from the outside.

R: Radio - Satellite Connection

Fitting openings should be prepared so to remain at least 2 cm under the flooring.

The control panel should be taken as reference for the positioning of the product and infrastructure fitting.

# Well-Fit Perspektive



A: Ø50 mm. Ideal depth for drain. The drain should not cut the muff. It should be left to remain at least 2 cm under the flooring.

C: Hot and cold water drainage measures. Should be made to remain at least 2 cm under the flooring.

D: Plumbing group collection cavity. Plumbing openings should be made to remain at least 2 cm under the flooring.

E: Electrical connection points (220 volt, 3x8 mm, 32 A)

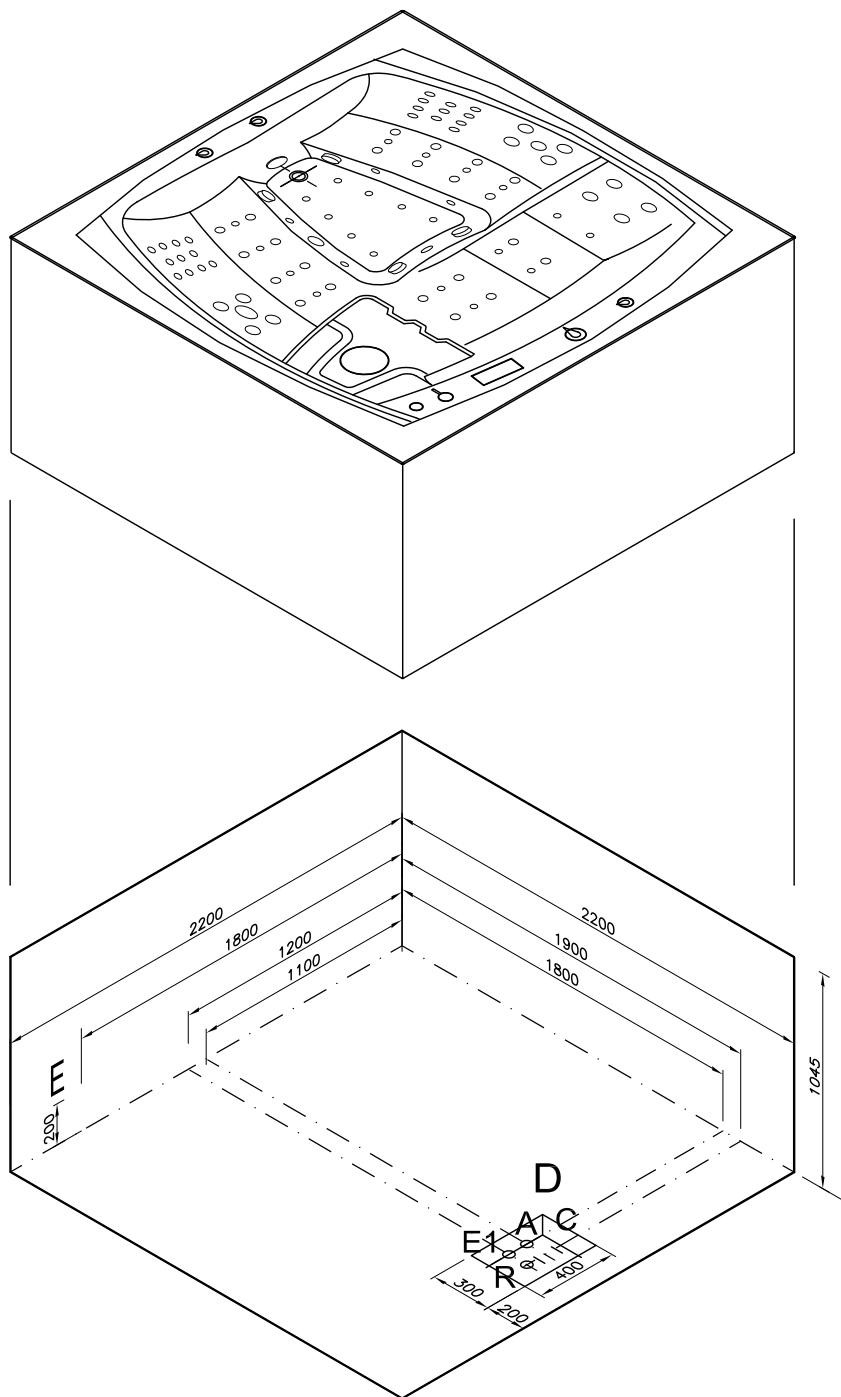
F: Coupling for discharging the water in the Spa with a hose from the outside.

R: Radio - Satellite Connection

Fitting openings should be prepared so to remain at least 2 cm under the flooring.

The control panel should be taken as reference for the positioning of the product and infrastructure fitting.

# Well-Nature Perspektive



**A:** Ø50 mm. Ideal depth for drain. The drain should not cut the muff. It should be left to remain at least 2 cm under the flooring.

**C:** Hot and cold water drainage measures. Should be made to remain at least 2 cm under the flooring.

**D:** Plumbing group collection cavity. Plumbing openings should be made to remain at least 2 cm under the flooring.

**E:** Electrical connection points (220 volt, 3x6 mm, 32 A)

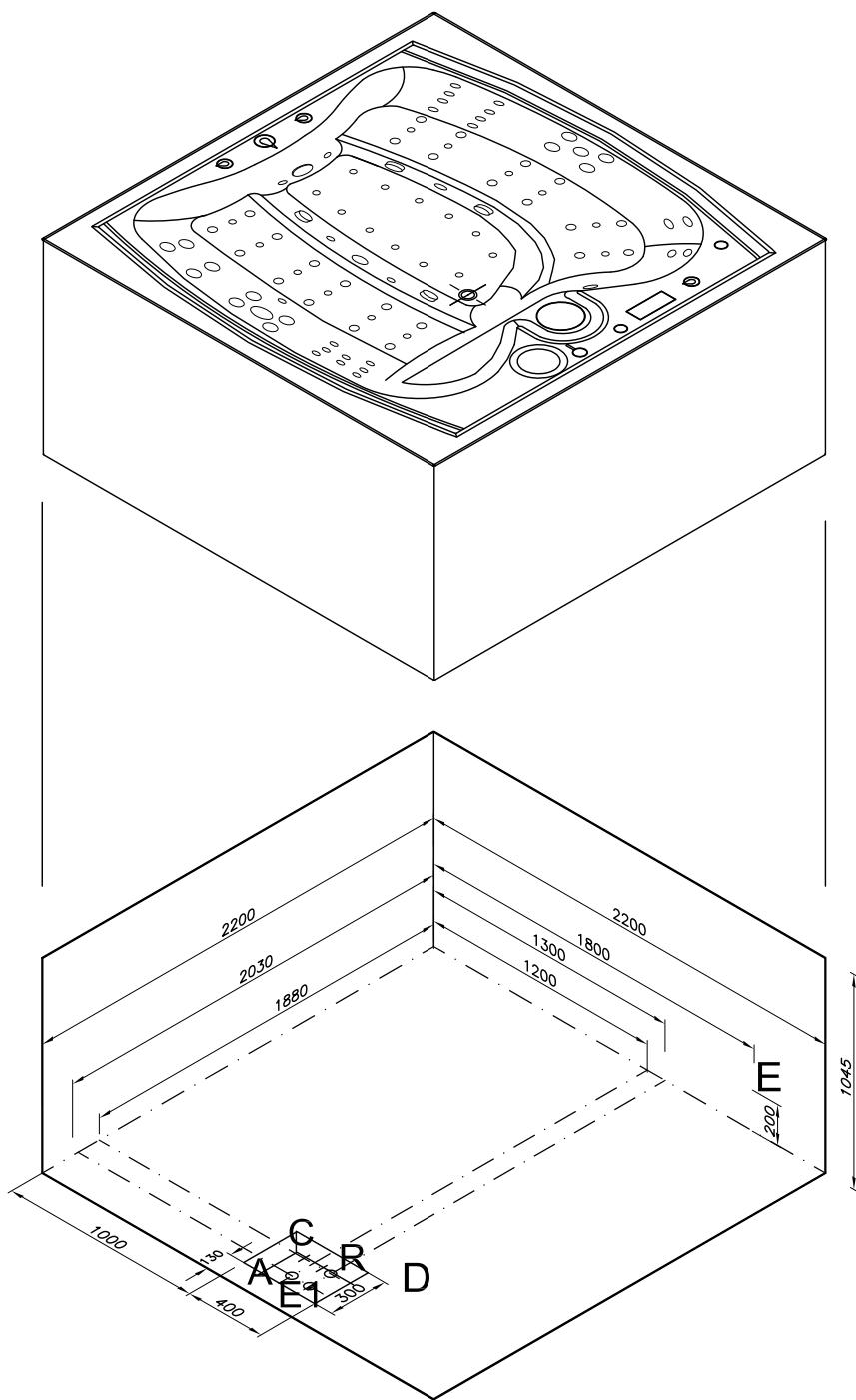
**F:** Coupling for discharging the water in the Spa with a hose from the outside.

**R:** Radio - Satellite Connection

Fitting openings should be prepared so to remain at least 2 cm under the flooring.

The control panel should be taken as reference for the positioning of the product and infrastructure fitting.

Well-Joy  
Perspektive



A: Ø50 mm. Ideal depth for drain. The drain should not cut the muff. It should be left to remain at least 2 cm under the flooring.

C: Hot and cold water drainage measures. Should be made to remain at least 2 cm under the flooring.

D: Plumbing group collection cavity. Plumbing openings should be made to remain at least 2 cm under the flooring.

E: Electrical connection points (220 volt, 3x6 mm, 32 A)

F: Coupling for discharging the water in the Spa with a hose from the outside.

R: Radio - Satellite Connection

Fitting openings should be prepared so to remain at least 2 cm under the flooring.

The control panel should be taken as reference for the positioning of the product and infrastructure fitting.