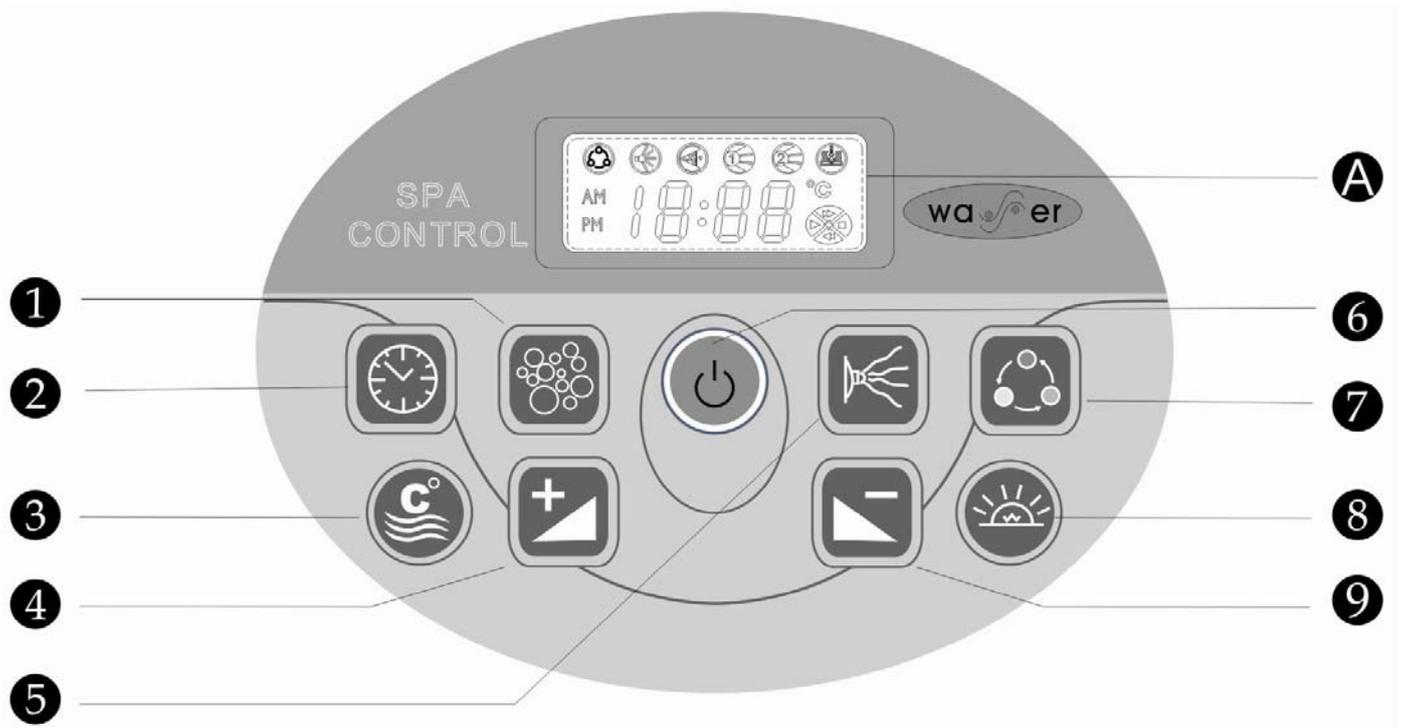


# TM42-A Control System



1. Blower

2. Real time clock

3. Heater

4. Temp/Time setting Up

5. Pump 1 and 2

6. Power on/off

7. Colour changer

8. Light

9. Temp/Time setting Down

A. LCD display

# Instructions for TM42 control system

## Warning

- A. Installation is only to be made by qualified persons.
- B. Read the instructions carefully before beginning the installation.
- C. We are not responsible if the product does not work or is damaged when the instructions are not followed during installation.
- D. Ensure that the system is not damaged during transportation when it is unpacked.

## Note!

- A. Do not connect the power before the installation is complete.
- B. Install a maintenance switch close to the control system for use during maintenance work.
- C. An earth switch must be installed. Check that the earth switch works when the power is connected.

## Functional description

### 1. Power On/Off

#### A. Power On

The system is activated by pressing the button  on the panel; a background light on the LCD display shows the actual temperature. When the system is activated, all functions can be controlled from the control panel.

#### B. Power Off

If no buttons are used within one hour, the system will deactivate automatically. The LCD display is then dark. All other functions are locked and can only be activated by pressing . The system can also be switched off by pressing . Heat and Filtration works according to what has been programmed in, and the temperature can be shown by pressing .

### 2. Heater

The heater is adjusted using the buttons  and  between 5-43 °C, but by placing an extra thermostat in the heater that disconnects at 40 °C it is possible to raise the temperature even higher. Pressing one of the buttons once will decrease or increase the temperature by one degree. With every new adjustment the °C icon in the display will flash for a few seconds. When the flashing stops, the temperature is adjusted to the new degree. If the temperature sinks 1 °C below the set value, the heater and circulation pump will start. The water temperature will automatically keep to the set value.

### 3. Pump 1 and 2

The circulation pump is automatically started when heating or filtration is activated. The display then shows the icon for the circulation pump with the addition 1. The pump can also be activated by pressing once at . By pressing twice the pump 2 for massage will be activated if it has been

installed and an icon can be seen on the display with the number 2. Pressing  one more time will stop both pumps. NOTE! Pump 1 will not stop if heating or filtration is activated.

4. Blower (Air pump) 

The bubble system is started by once pressing  and stops automatically after 30 minutes if it is not stopped by pressing the button.

5. Light 

If there is a lamp, it will be activated with the button . The lamp will automatically change colour if such a model is installed. If the lamp is not switched off manually, it will automatically switch off after 30 minutes.

6. Light colour switch 

If the lamp is switched on, it can also be stopped with any colour by pressing the button .

7. Adjustment of the system , , , 

If the power is disconnected and switched on again, or the first time the system is started, the temperature is set at 37 °C and the start- and stop time for filtration between 10.00-12.00 (in the morning). The clock must be set according to local time. See description below.

As described under “Heater” the temperature is set using the buttons  and . These buttons are also used for setting the clock and filtration time. In order to come to the setting mode, the button  is pressed until the time in the LCD display starts to flash. The time is according to the “pm and am” system where **am** stands for the time between 0.00 – 12.00 (night-morning, 00.00-12.00) and **pm** 0.00-12.00 (afternoon-evening, 12.00-24.00). The first icon flashing is the clock and hours that are set using the buttons  and . Pressing  once will take you forward to minutes that are also set using  and . Pressing  once more will take you to the start time for filtration where also hours will appear first; set using  and . Pressing  once more will take you to the start time for filtration where also hours will appear first, set using the buttons  and . The stop time will appear as next, and the setting takes place according to the above mentioned. As the last option the word "SPA" will appear on the display. If nothing is done within 8 seconds, the chosen values will be selected. NOTE! If you stay longer than 8 seconds in any of the setting modes, the system will automatically adjust itself back to the original and the temperature will be shown on the display. In order to redo some adjustment, you must start again by pressing the button .