

# Technical Information Bulletin

Date: 13.11.2017

## Concerning: Modifications on the 1" control valve for our residential ranges

Dear Customer,

In our continuous efforts to further improve the quality of our products, we are implementing the following modifications on the 1" Rotary control valve, used on all WholeHouse Filters and Oxydizer systems of the Slimline, Softena and Maxima range:

### 1. Electronic controller:

We have developed a brand new PCB platform that combines state-of-the-art design and components (like ARM processors). The new PCB platform offers us a lot of possibilities for future upgrades with regards to hardware (different displays, addition of WiFi, larger memory, more outputs, etc), as well as software. This changes has already been implemented for our residential products with a diaphragm control valve.

With the implementation of this upgraded PCB on the ProFlow range, we have added the following features to the electronic controller:

- Buzzer:** the new PCB has an integrated buzzer, that is used as:
  - an audible alarm for the salt level reminder and maintenance reminder functions;
  - a sound-signal whenever a button is pressed.The buzzer function can be enabled or disabled by the end-user in the Basic Settings programming mode.
- 2<sup>nd</sup> line on display:** on the 2<sup>nd</sup> line of the display, the total volume of water used since start-up is displayed.
- SuperCap for power backup:** the larger SuperCap keeps the clock running in the background for 15-20 hours in case of a power failure.
- 2<sup>nd</sup> auxiliary relay/contact;** as for the 1<sup>st</sup> auxiliary relay, the function can be programmed; the output voltage is 24 VDC, max. 500mA
- Transformer:**

Because of pending Energy Efficiency regulations we are switching from the current AC/AC transformer to a new AC/DC transformer. Advantages are:

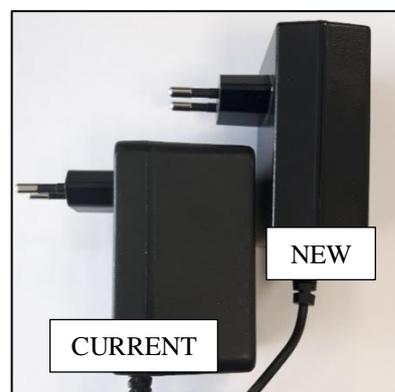
- higher efficiency / lower energy loss (< 0.5 watt)
- light weight;
- more compact.

**Note:** The connection plug on the outlet cord of the new AC/DC transformer is SMALLER than on the current AC/AC transformer, although it is similar model. This is done intentionally to avoid use of an incorrect transformer.

- Printed Circuit Board:**  
The PCB is modified to operate on DC current.

**Note:** This also implicates that the auxiliary contacts now output 24V DC instead of 24V AC; please keep this in mind when connecting any external devices to the auxiliary contact(s).

**Note:** The PCB will not get damaged when an incorrect transformer (AC instead of DC, and vice versa) is connected; it will simply not function.



### Important remarks:

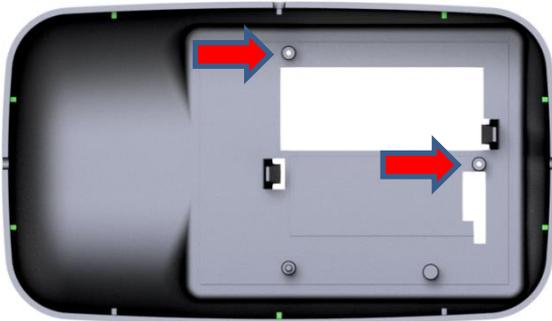
- for 1" control valves (Rotary): the new PCB (24 VDC) is **NOT** interchangeable with the current PCB (24 VAC); therefore new Part Number have been created...
- the user interface of the software itself doesn't change at all.

Below you can find an overview of the new 24 VDC PCB's for the 1" control valves (Rotary):

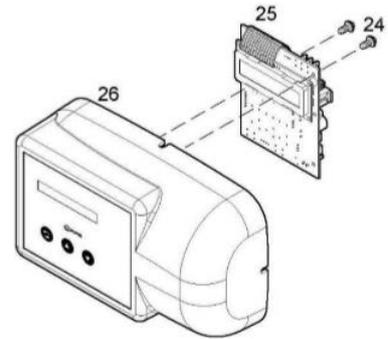
System configuration:	Part Number PCB	
	24 VAC (current version)	24 VDC (new version)
WHF	72703	74356
Oxydizer	74282	74358

## 2. Timer cover:

The timer cover has been modified by adding 2 extra alignment pins for the PCB; as a consequence, the PCB can now simply be 'snap-fitted' in place, without the need of any fixation screws:



New version with 'snap fit' fixation



Current version with fixation screws

This upgrade is introduced in our production as of 15 November 2017. So all WHF and Oxydizer systems of our Slimline, Softena and Maxima range with a production date as of 15/11/2017 are equipped with the new electronic controller and all above mentioned modifications.

Please do not hesitate to contact us if you need any additional information on this topic.

A handwritten signature in black ink, appearing to read 'Sofie Redig'.

Sofie Redig  
Technical Support