

Pentair thanks you for placing your trust in the company and purchasing a SPEEDEO®, the variable speed pump control automaton, with 3 assignable pieces of equipment. SPEEDEO® will start up the correct speed of the connected variable speed pump according to the hydraulic requirements linked to the event.

Please carefully read this user manual to fully benefit from all of the functions of SPEEDEO®. Store it carefully so that it can be consulted at any time.



Declaration of conformity

Directives - Harmonised standards

Pentair International Sarl - Avenue de Sévelin 18 - 1004 Lausanne - Switzerland We declare, under our own responsibility, that the product meets the directives

RED 2014/53/EU SAFETY EN 62368-1:2014; EN 62311: 2008 EMC EN 301 489-1 V2.2.0; EN 301 489-3 V2.1.1; EN 55024; 2010 / A1; 2015 RADIO EN 300 220-2 V3.1.1

SPEEDEO (+ PARTS) SB-PF-SP0-003C

Other normative documents

PART NUMBERS: SB-SE-TEC-006A



Lausanne, 2019 07 01

Guillaume Goussé **European Operations Vice President** 



Product specifications: SB-PF-SPO-003C model Operating temperature: 0° to 40° C Maximum operating altitude: 2000 m Main box (internal use): IP 64

Operating hygrometry: 40% at 75° C Weight (excluding probes): 1.2 kg

Power supply: 230 V ~, 50 Hz Consumption: 3.2 W



#### Waste treatment of electronic devices at the end of their service life:

The crossed-out bin placed on the main parts which make up the product indicates that it must not be disposed of with household waste. It must be returned to an appropriate collection point for electronic device recycling (information available from the local household waste collection service). This product contains potentially dangerous substances which may have adverse effects on the environment and human health.

Customer Support: PISA, ITALY (8:30 A.M. to 4:30 P.M.) CET

website: www.pentairpooleurope.com

- Warranty (excluding probes and consumables): 2 years

© 2019 Pentair International LLC, All rights reserved

- The document is subject to change without notice

Trademarks and disclaimers: Speedeo®, Soleo® and Pentair® are trademarks and/or registered trademarks of Pentair and/or its affiliated companies. Unless indicated otherwise, names and brands of others that may be used in this document are not used to indicate an affiliation or endorsement between the owners of these names and brands and Pentair. Those names and brands may be the trademarks or the registered trademarks of these parties, or others.

#### PRESENTATION

> Possibilities for a pump with variable speeds	p 04
> Packaging contents / Functions of the device	p 06
> Description	p 06

#### **INSTALLATION - SPECIFIC POINTS**

> Fixing connections / hygiene	p 07
> Examples of installation types	p 09
> Water and air temperature probes	p 10
> Connection of IntelliFlo to IntelliBUS and other pumps with variable speeds	p 11
> Invertek convertor connection	p 13

#### MENUS

> Main menu / Radio menu	р 14
> Install / Heating pump / Information menu	p 15
> Filtration Length	р 16
> Filtration Speed / Set Time	р 17

#### **CONNECTIONS Inlets / Outlets**

> Inlet: connection for the end of a cover line / switch or remote control	p 18
> Outlet: connections for a controller and an IntelliChlor	p 19
> Outlet: connections for heating pump and solar heating	p 20
> Outlet: connections for lighting and a 3-way motorised valve	p 22
> Outlet: connections and automatic washing for a pneumatic valve	p 23
> Washing assisted by 6-way valve	p 24
> Navigating the menus	p 25

#### OTHERS

> Updating internal firmware / History menu	p 27
> pH / RedOx / chlorine ratio	p 28

#### IMPORTANT SAFETY GUIDELINES, READ AND FOLLOW ALL OF THE INSTRUCTIONS, KEEP THESE INSTRUCTIONS





- DANGER - INSTALLERS, POOL SPECIALISTS AND OWNERS MUST CAREFULLY READ THESE WARNINGS AND ALL INSTRUCTIONS BEFORE USING THIS PRODUCT.

- WARNING - Most countries regulate the construction, installation and operation of public swimming pools and spas, and the construction of residential pools and spas. It is important to comply with these regulations, many of which directly regulate the installation and use of this product. Consult your local building and health codes for more information.

- ATTENTION - This installation and user guide contains important information on the installation, operation and safety of this product. This guide should be provided to the owner and/or user of this product.

#### INSTALLATION

- DANGER - RISK OF ELECTRIC SHOCK or electrocution

BEFORE WORKING ON THIS DEVICE - Always cut the supply to the device at the circuit breaker before maintenance. Failure to do this may lead to death or serious injury to service staff, pool users or others, due to an electric shock.

- DANGER - SERIOUS BODILY INJURY OR DEATH CAN RESULT IF THIS PRODUCT IS NOT INSTALLED AND USED CORRECTLY.

- WARNING - Before installing this product, read and follow the warnings and instructions of this guide. Failing to follow these warnings and instructions may lead to serious injuries, death or material damage. Refer to www.pentairpooleurope.com for more information linked to this product.

- WARNING - Connect the device to a differential interrupter. If this system is used to control the underwater lighting devices, a differential interrupter must be installed upstream of these devices. Conductors downstream of the differential interrupter shall not occupy conduits, junction boxes or enclosures containing other conductors, except if the conductors are also protected by a differential interrupter. Refer to valid local codes for more details.

- WARNING - This product must be installed by an authorised or certified electrician or a qualified swimming pool professional. All of the applicable installation codes and local regulations must also be respected. Poor installation will create an electrical hazard which could result in serious injury or the death of pool users, installers or others due to electric shocks, and may also cause damage to property.

- DANGER - DISCONNECT THE SUPPLY CONNECTIONS BEFORE WORKING ON THIS DEVICE; ELECTRICAL POWER MAY BE SUPPLIED TO THE RELAY TERMINALS FROM OTHER SOURCES.

- WARNING - CHEMICAL BURN HAZARD: Make sure all pumps are switched off at the main circuit breakers at the domestic distribution board before drilling into any pipes. Set rules for all handling related to electrical aspects, water and chemical products. Group the supply pumps and chemical product tanks in a safe and secured area.

- WARNING - Do not use this product to control an automatic swimming pool cover. There is a risk that swimmers could become trapped under the cover.

- WARNING - Devices which are not intended for use in single-family dwellings may require additional safety equipment to comply with local regulations.

- DANGER - Except for remote controls, install components at a minimum of at least 1.5 m (5 feet) from the inside wall of the pool or spa.

- DANGER - This product is intended for use in swimming pool applications only.

- ATTENTION - A sufficient equipotential connection (min. 4.5 mm2 recommended), in accordance with local regulations, is obligatory for all metal components of the swimming pool, including the pool pump. This is necessary for the electrical safety as well as reduction of the corrosion risk.

- WARNING - : If the device is installed and / or used contrary to specifications and recommendations, the protections will be compromised.

#### USE

#### - DANGER - DO NOT LET CHILDREN OPERATE THIS EQUIPMENT.

- WARNING - Strictly respect the safety and handling procedures from the acid manufacturers, including protective measures for hands, body and eyes during transferring and using acid. Follow the prescribed safety precautions for handling muriatic acid intended for checking the water pH. Muriatic acid may cause serious physical harm and may damage the swimming pool equipment. Extra care must be taken when installing, maintaining and operating the acid pump feed systems. Acid is dangerous to handle and should be properly contained, transported, poured, stored and dispensed.

- WARNING - Check the pH and sanitizer levels of the water before using the pool and make sure the filtration device is not obstructed.

- WARNING - Periodically use an independent pH and chlorine testing kit to ensure that the pH and chlorine is at a safe level. If the pH and Oxidation Reduction Potential (ORP) or conductivity probes are broken, depleted or dirty with oils, lotions, or other contaminants, they can report inaccurate results to the system causing incorrect water chemistry, which could harm people or equipment.

- WARNING - Consult the device display daily to ensure there are no alarm messages.

- DANGER - Water temperatures greater than 37.7° C (100° F) are a health hazard. Prolonged immersion in hot water may induce hyperthermia. Hyperthermia occurs when the internal body temperature exceeds the normal temperature of 37° C (98.6 °F) by several degrees. Hyperthermia may produce the following effects: (1) Unawareness of impending danger. (2) Failure to perceive heat. (3) Failure to recognise the need to leave the spa. (4) Physical inability to leave the spa. (5) Harm to the foetus in pregnant women. (6) Unconsciousness leading to the risk of drowning. The use of alcohol, drugs or medicine is a factor which increases the risk of hyperthermia in hot tubs and spas.

- WARNING - When mixing acid with water, ALWAYS ADD THE ACID TO THE WATER. Never add water to the acid. When adding a chemical product to the swimming pool, carefully follow the manufacturer instructions.

- DANGER - DO NOT MIX SODIUM HYPOCHLORITE AND MURIATIC ACID.

- DANGER - Keep standard solutions away from children, ensure that the bottles are securely closed, store them in a dry and ventilated location and do not let them freeze. The pH 4 calibration solution is acidic.

#### Foreword: management possibilities for a pump with variable speed control

SPEEDEO is intended to optimally control (via dry contacts [of which one is shared and one is a controllable speed contact, a maximum of four]) the different rotation speeds of a variable speed filtration pump. There are usually 4 speeds: V1, V2, V3, V4. SPEEDEO makes it possible to launch up to 3 pieces of equipment, whose operation is linked to a speed. The rotation speeds at different speeds are directly pre-set on the control unit (drive) of the pump. SPEEDEO will therefore select the most appropriate power according to the requirements to save as much electricity as possibility without impairing the filtration quality.



- **Speed 1:** Permits minimal circulation. Speed V1 is used for frost protection and is selected when the cover is placed over the pool (if applicable). V1 will function 24h/day if the water  $T^{\circ} > +28.0 \text{ °C}$ . This speed is therefore used when there are no bathers in the pool.

- **Speed 2:** Permits circulation of a larger amount of water when the cover is stowed (if relevant). This speed is used when there are no bathers in the pool.

- **Speed 3:** Permits a strong flow of water when an accessory requires it. It is often chosen for a counter-current jet, heating, cascade, etc. It is triggered in accordance with the parameters, either by a timer or a wired remote control.

- **Speed 4:** Only used for backwashing of the filter. On some pumps, V4 cannot be adjusted and automatically represents the maximum power.

Example: typical day for a pool at 25.0°C in June in Europe



Consumption is roughly speed squared, so when the rotation regime is divided by 2, the electricity consumption of a pump is divided by 4! The average profit of SPEEDEO running a VS pump alongside a classic filtration of 1.5 cv is €450 per year (ERDF base rate in 2015).

#### Functions

#### Filtration control:

- By calculating the time according to the pool temperature (automatic mode).

- By programming a 24 hour cycle (makes it possible to benefit from off hours).

- By integrating the frost protection function (activation of the filtration below 3°C, modifiable value).

- By giving priority to the heating (if the value of this reference exceeds the set value, and if the filtration is cut, filtration starts in the next 15 minutes).

- Possibility to select the start time and end time of the filtration in automatic mode (to prevent noise at night). If SPEEDEO is connected to a SOLEO, this function is found on SOLEO.

- Possibility to increase or reduce the filtration time according to the use of the swimming pool (economical mode = pool with a low number of visitors, turbo mode = pool with a high number of visitors) or by default + or - 30% (value can be adjusted).

Possibility to change into "SHOCK" mode (forcing of the filtration and electrolyser for 24 hours).
 Possibility to change the speed according to the position of the pool cover (motorised cover) if there is a position contact connection on the dedicated inlet.

- Possibility to change the speed according to the position of a command (interrupter, end position sensor of the motorised cover).

#### Control of 3 devices:

- By synchronisation with operation of the pump (each connected device will only be authorised to operate if the filtration runs at a sufficient rate).

#### SPEEDEO also makes it possible to visualise, on its screen (in the technical room):

- time

- water temperature
- operating speed (S1 to S4)
- status of the 3 outlets (S1 S2 S3, ON or OFF)
- air temperature (if second sensor present)

THEREFORE IN SUMMER AND WINTER, YOU NO LONGER NEED TO WORRY ABOUT YOUR FILTRATION AND YOU LIMIT THE INTERVENTIONS IN THE TECHNICAL ROOM TO A BARE MINIMUM.

#### Description



06

### Wall fixing

1 - This device is intended to be used inside, installed in a technical room which cannot be accessed by children.

- Set the device at a height lower than 2 m using three screws (4 to 5 mm diameter) in appropriate plugs for the type of support and fix the device vertically on a clean support which is able to bear a minimum vertical load of 5 kg.

Pierce three holes in accordance with the below dimensions then place 3 suitable plugs.

- 1 Tighten the screw at the top, leaving 2 mm under the screw head, then hang the device on this.
- 2 Place the 2 lower screws.
- 3 Add the 2 lower screw covers to ensure a full seal.



A safety cover which cannot be unclipped without a tool is positioned above the connectors which provide the voltage. > Place a flat screwdriver on the flat part of clips 2 and 3, while keeping pressure on to unclip it.



## Electrical connections regulation

- The device must be installed by a qualified technician according to valid local regulation - This device is permanently connected.

- The 2 poles of the power supply of the device is cut by its interrupter, which must be close and must remain accessible at all times.

- The device needs to be connected to the earth and its power supply needs to be protected by 16A 30 mA differential protection. This protection must be cut before any intervention on the device.

- Overvoltage category II (2,500 V peak) electrical device. If necessary, place overvoltage protection equipment before the device.

- The device must be placed close to the electrical cabinet to aid connections (3 m max.).



## Examples of installation types

- Inlet connections: Water temperature, cover presence sensor
- Outlet connections: Heating, electro-pneumatic valve, solenoid valve







#### **INSTALLATION OF THE AIR TEMPERATURE PROBE (OPTION)**

- If the air temperature probe is connected, it automatically becomes the reference value for freeze protection management (unless SPEEDO is connected to a SOLEO). The air temperature probe is placed outdoors, away from direct sunlight so that the measurement is not distorted. It can be easily moved due to its 6 m long cable.

1 - Mount it on a wall with screws. 2 - Mount it on a horizontal bar of a grate with a cable tie.





1 - Connect the cables to Inlet 2 in accordance with the diagram.

2 - Start the secured Install menu (on the main menu, press Esc and Valid at the same time for 3 secs. A star appears in the top right corner of the home screen).

3 - In the Inlets / E1-E2 sub-menu (in accordance with chosen terminal), select  $T^{\rm o}$  Air to indicate that a temperature sensor is connected to the corresponding inlet.





appears in the top right corner of the home screen).

3 - On the Filtration Speed / Type sub-menu, select 4 speeds and hold down Valid.

# PENTAIR VS1 (Superflo, Ultraflow, SuperMax and S5P2R): Connections and functions

Control the speeds S1 < S2 < S3 < S4 and S4 at 100% on the pump drive.</li>
 Set the DIP switches 1, 2, 3, 4 on the pump drive to ON.



1 - Connect the cables in accordance with the diagram.

2 - Start the secured Install menu (on the main menu, press Esc and Valid at the same time for 3 secs. A star appears in the top right corner of the home screen).

3 - On the Filtration Speed / Type sub-menu, select 4 speeds and hold down Valid.

# PENTAIR VS2 (Superflo, SuperMax, Ultraflow, S5P2R, Challenger and Whisperflo): Connections and functions

Control the speeds S1 < S2 < S3 < S4 and S4 at 100% on the pump drive.





## SPECK 90 Eco Motion: Connections and functions

On the pump, control the speeds N1 < N2 < N3 < N4 and N4 at 100% / 'EXTERNAL = FIX SPEED' and 'SIGNAL = CONTINUED'. - The pump functions for 5 minutes at maximum speed after starting.</p>



1 - Connect a 5 x 0.75 mm2 cable in accordance with the diagram.

2 - Start the secured Install menu (on the main menu, press Esc and Valid at the same time for 3 secs. A star appears in the top right corner of the home screen).

3 - On the Filtration Speed / Type sub-menu, select 4 speeds and hold down Valid.





### Radio menu (radio pairing between SOLEO and SPEEDEO)



This symbol (antenna) indicates that SPEEDEO is connected to a SOLEO.

The default radio channel is Channel 01 (same for SPEEDEO). The devices have a range of 30 m. A SOLEO and a SPEEDEO set on the same radio channel and at a distance maximum 30 m will automatically be paired. If several different Combi installations are close to each other, it is possible to shift the radio channel of one of the installations to one of the other 9 channels (2 to 10) to prevent interference. It is therefore important to choose the same channel number on the 2 devices to be paired.



If SPEEDEO is linked to a SOLEO, the SOLEO filtration outlet is only supplied with power when SPEEDEO starts the VS pump (whatever the speed). This SOLEO filtration outlet can for example be used to supply a UV light.

- Once SPEEDEO is linked to a SOLEO, the temperature values saved and displayed by SPEEDEO are picked up by the SOLEO.

#### Access to restricted access mode 'Install'

SPEEDEO controls the equipment in the technical room, and the wrong settings may have serious consequences for the safety of the pool. Because of this, access to certain initial configuration functions is reserved for professionals, or people whose experience enables them to modify these





#### 15

## Menu: Filtration Length (daily) / Algorithm

SPEEDEO proposes 4 different algorithms to suit different preferences concerning the ratio of the number of hours for filtration according to the water temperature.

## Once the SPEEDEO is linked to a SOLEO, this menu *Filtration Length* disappears. The SOLEO will manage the filtration length.



in the top right corner of the home screen).

2 - On the Filtration Length / Algorithmsub-menu, select your chosen mode.

## Menu: Filtration Length (daily) / Eco-Normal-Turbo Mode

This control increases or decreases the filtration time.

- **TURBO** increases the filtration time (modifiable factory setting: +30%) to compensate for a pump which is undersized with respect to the height of the pool, or to compensate for intensive pool use with more bathers than normal.

- **ECO** decreases the filtration time (modifiable factory setting: -30%) to compensate for a pump which is undersized with respect to the height of the pool, or to compensate for underactivity (e.g. a pool at a secondary residence which has not been used for a long period).

Home menu > Filtration Length menu:

-Node :	Normal
Algorithm :	USClass
Eco mode :	-30%
Turbo mode:	+30%

Start the secured *Install menu* (from the main menu, simultaneously hold down *Esc* and *Valid* for 3 secs. A star appears in the top right corner of the home screen).
 On the *Mode* sub-menu, choose between *Eco / Normal / Turbo*.
 If necessary, modify the coefficient *Eco* or *Turbo*.

## Menu: Filtration Length / Auto/On/Off/Timer/Shock Mode

## Once the SPEEDEO is linked to a SOLEO, this menu *Filtration Length* disappears. The SOLEO will manage the filtration length.

Home menu > Filtration Length menu:	Select current mode: AUTO = Automatically calculates the filtration length according to the water
-Filtration : ON Start : 05:00 Stop : AUTO mode : TURBO	temperature. <b>ON</b> = Filtration runs 24/7. <b>OFF</b> = Filtration stops ( <b>note - anti freeze mode becomes inactive</b> ). <b>TIMER</b> = Filtration runs during the selected time period (see below) <b>CHOC</b> = Activates 24-hour filtration. This function can be useful after the pool has been used by many visitors and when the pool temperature is high. At the end of the mode <b>CHOC</b> , SPEEDEO returns to normal <b>AUTO</b> .
This menu gives you control of the filtration s	start and end time, to control the level of noise linked to your pool (filtration noise),

for the sake of the neighbourhood. By default, leave **End** on **AUTO**. In **AUTO**. SPEEDEO calculates the filtration end time.



#### Time set menu

## • Once the SPEEDEO is linked to a SOLEO, this menu Setting the time disappears. The SOLEO will manage the time settings.

-Heure : 16 h Minute : 03 min Makes it possible to set the time of the device. If the power supply is interrupted for more than 30 min., reinstalling the time is necessary.

### Inlet: connection for the end of a cover line





(i) The contact is closed when the cover is covering the pool

1 - Connect the cables in accordance with the diagram.

2 - Start the secured *Install menu* (from the main menu, simultaneously hold down *Esc* and *Valid* for 3 secs. A star appears in the top right corner of the home screen).

3 - On the *Inlets / E1-E2* sub-menu (in accordance with chosen terminal), select *COVER CONTACT* to indicate that a limit contact has been connected to the corresponding inlet.

4 - On the *Filtration Length / Cover Open* sub-menu, select **YES** so that filtration is carried out while the cover is open (the cover does not cover the pool). This is the primary function of the *Filtration Length / Start* setting (despite the setting of an hour from the start and/or end of filtration, if the cover does not cover the pool all day, filtration will run all day).

5 - On the Filtration Speed / Events / Cover Open sub-menu, select YES so that the filtration speed changes from S1 to S2.

#### Inlet: connection for a switch, a remote control...

It is possible to connect any type of dry contact inlet (switch, remote control, relay) which activates an outlet.



1 - Connect the cables in accordance with the diagram.

2 - Start the secured *Install menu* (from the main menu, simultaneously hold down *Esc* and *Valid* for 3 secs. A star appears in the top right corner of the home screen).

3 - On the *Inlets / E1-E2* sub-menu (in accordance with chosen terminal), select *OTHER* to indicate that a dry contact has been connected to the corresponding inlet.

## Inlet: connection for an air temperature probe (see p06)

## Outlet: control connection (chlorine or pH)



An outlet is a dry contact and does not supply any voltage.

1 - Connect the cables in accordance with the diagram.

2 - Start the secured *Install menu* (from the main menu, simultaneously hold down *Esc* and *Valid* for 3 secs. A star appears in the top right corner of the home screen).

3 - On the **Outlets / S1-S2-S3** sub-menu (in accordance with chosen terminal), select **CONTROL** to indicate that a control (any kind) has been connected to the corresponding outlet.

This contact is closed (active outlet) while the filtration is running, whatever the rotation speed. The connected control is guaranteed to function while the filtration pump is running.



## Outlet: heating connection



1 - Connect the cables in accordance with the chosen diagram.

2 - Start the secured *Install menu* (from the main menu, simultaneously hold down *Esc* and *Valid* for 3 secs. A star appears in the top right corner of the home screen).

3 - On the **Outlets** / **S1-S2-S3** sub-menu (in accordance with chosen terminal), select **HEATING PUMP** to indicate that a heating pump (any kind) has been connected to the corresponding outlet.

4 - Via Temperature menu > Heating pump :

> Select OFF to cut off the heating pump.

> Select *AUTO* to ensure that the temperature is controlled automatically. A menu *Setpoint* will then appear. > Select *Setpoints* to change the target value. A menu *Priority* will then appear. > Select *Priority* to activate or not. The priority will activate the filtration and heating pump, even if filtration has been stopped. Do not activate the priority when the heating pump has been activated, unless the filtration is running for another reason.

5 - Via *Temperature menu* > *Calibration* : Manual correction of the temperature concerned. Enables adjustment of temperature, using another thermometer as a reference.

6 - Via *Temperature menu* > *Anti freeze*: Temperature where filtration is forced to prevent the pool from freezing. The heating pump is not used for anti freeze protection.



## Outlet: solar heating connection



## Outlet: connection for lighting below 1,600 W



## Outlet: connection for a 3-way motorised valve (OTHER)



Connect the cables in accordance with the diagram.
 Start the secured *Install menu* (from the main menu, simultaneously hold down *Esc* and *Valid* for 3 secs. A star appears in the top right corner of the home screen).
 On the *Outlets / S1-S2-S3* sub-menu (in accordance with chosen terminal), select *OTHER* to indicate that a motorised valve is connected to the corresponding outlet.

An outlet is a dry contact and does not supply any voltage.

## Outlet: connection for a pneumatic valve (FILTER WASHING)



# Assisted backwash: Backwash support for the filter on the 6-way valve.

## SPEEDEO supports you in washing the filter by chronologically proposing the different required steps.

Welcome menu > Filter Washing:



1 - On the **Filter washing** sub-menu, enter the filtration length (factory pre-set at 100 hours), which activates the alert requesting filter washing, the desired washing time length (factory pre-set at 70 secs) and enter the desired filter rinsing time length (factory pre-set at 20 secs). These time lengths can be personalised by following the recommendations for your installation.

Filtration menu > Filter Washing > Manual backwash: VALID

Valid' to P	Press VALID to start the procedure.
Put into position 1 backwash + Valid. ?	Put the 6-way valve in the 'Rinsing' position and then hold down VALID.
	SPEEDEO starts the filtration pump for the length of time entered into the <b>Vashing: XX secs</b> .
IIIIIIIIIIIIIIIIIIIIIII I Stop I I filtration I IIIIIIIIIIIIIIII	PEEDEO has stopped the filtration pump. This display lasts for 2 seconds.
Put into position ! Put into position ! Put into position ! Put into position ! Put into position !	Put the 6-way valve in the 'Rinsing' position and then hold down VALID.
a minaring in a	PEEDEO starts the filtration pump for the length of time entered into the <b>Rinsing field: XX secs</b> .
I Stop L S I filtration I S	PEEDEO has stopped the filtration pump. This display lasts for 2 seconds.
PUT INTO DOSITION !	Put the 6-way valve in the 'Filtration' position and then hold down <b>VALID</b> . The procedure is finished.

## Navigation menus (1/2)

- Filtration length (only in solo mode without Soleo)
  - Filtration: AUTO, SHOCK, TIMER, OFF, ON
  - \_\_\_\_\_ Start: 07:00
  - End: Auto
  - —— mode: Eco, Normal, Turbo
  - ORP priority: ON, OFF
  - Algorithm: t=T VS, BlueVS, T/2Cla, BluCla
  - Eco mode: -30%
  - Turbo mode: +30%
  - Antifreeze: +3°C
  - Cover open: YES, NO

#### - Filtration speed

- Type: Mono speed, 3 speeds, 4 speeds, 4 speeds + stop, 3 speeds+ stop
- —— mode: AUTO, MANUAL
- ——— Speed: S1, S2, S3, S4
  - ----- Events
    - Forced filtration: YES, NO
    - ------ S2 timer: YES, NO
    - S3 timer: YES, NO
    - Cover open: YES, NO
    - Heating: YES, NO
      - S3 inlet 1: YES, NO

#### - Filter washing

- —— Manual backwash: 'Valid' to start washing
- —— Filtration: 100 h
- —— Washing: 70 secs
- Rinsing: 30 secs
- Auto washing: YES, NO

#### - Inlets

- E1: LIGHTING, OTHER, COVER CONTACT, NOT CONNECTED
  - E2: Air T°, Solar T°, COVER CONTACT, NOT CONNECTED

#### - Outlets

- S1: LIGHTING, NC, WEEKLY SHOCK, OTHER, FILTER WASHING, CONTROL, HEATING, SOLAR
  S2: LIGHTING, NC, WEEKLY SHOCK, OTHER, FILTER WASHING, CONTROL, HEATING, SOLAR
  S3: LIGHTING, NC, WEEKLY SHOCK, OTHER, FILTER WASHING, CONTROL, HEATING, SOLAR
- Setting the time

— Time: 11 hrs

- Minute: 55 min.

## Navigation menus (2/2)



26

## How to update the internal firmware





1 - Access the secured DAILY HISTORY menu by holding down Esc :



Variations in the RedOx (ORP) according to the pH and the chlorine rate in water without a stabiliser at a temperature of 18°C.



#### General maintenance.

Clean the outside with a dry microfiber cloth. Do not use solvent, abrasive or acid.



#### PENTAIR INTERNATIONAL LLC,

Ave. de Sevellin 18, CH-1004 - LAUSANNE, Switzerland

Copyright - Limited License: except as specifically permitted herein, no portion of the content on this document may be reproduced in any form or by any mean without the prior written permission of Pentair International SRL.