

CONTROL PANEL USER MANUAL



UK CA EAC  CE

ASTRAL POOL 

VICTORIA SMART CONNECT VS

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You can download this document and the Quick Start Guide in PDF by scanning the QR code or by visiting www.astralpoolmanuals.com.



Recycling

This symbol is required by European Community Directive 2012/19/UE on WEEE (Waste Electrical and Electronic Equipment) and means that your appliance must not be thrown into a normal bin. It will be selectively collected for the purpose of reuse, recycling or transformation. Any substances it may contain which are potentially dangerous to the environment shall be eliminated or neutralised. Request information on recycling procedures from your retailer.

IMPORTANT SAFETY, INSTALLATION AND MAINTENANCE INFORMATION



This manual provides instructions for the control panel of the Victoria Smart Connect VS pump. It is recommended to consult it when starting up the pump, to understand and use the available internal functions, to set up the equipment and to identify and respond to errors.



- The units described in this Manual have been specially designed for the pre-filtering and recirculation of water in swimming pools.

- They should be operated using clean water at a temperature below 40 °C.



- The assembly, wiring and maintenance must be carried out by qualified service engineers authorized to do so who have read the installation and maintenance instructions carefully.

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or a lack of experience and know-how, unless they are under the supervision of an adult or have been given the instructions required on the use of the appliance by a person responsible for their safety. Children should be supervised to prevent them from playing with the appliance.



- Our pumps may only be assembled and installed in pools compliant with standard IEC/HD 60364-7-702 and domestic regulations in force. Should you have any queries, please contact your dealer.

- The pump cannot be installed in Zone 0 or Zone 1. You can see the diagrams in Figure 1 - Installation zones. This information is in the quick start guide of this pump (77946-0010X).

- The pump is intended to be used while fastened to a support or while secured in a specific location in a horizontal position.

- See Table 2 - Specifications for maximum pump pressure (H max.), in meters. This information is in the quick start guide of this pump (77946-0010X).

- The most common practice is to fit a sump with a suitable outlet for the water where flooding is likely to occur.

- If a self-priming pump is to be fitted above the water level, the pressure differential to the pump suction pipe should not be higher than 0.015 MPa (1.5 m H₂O). Make sure that the suction pipe is as short as possible, as a longer pipe increases suction time and the installation's load losses.

- Disconnect the device from the power supply, check that the load has completely stopped and wait for 5 minutes before doing any work on the device or the load used.

- Disconnect electricity and ground the pump before beginning electrical work.

- The unit should be connected to an alternating current supply (see data on the pump's rating plate) with a ground connection, protected by a residual current device (RCD) with a rated residual operating current that does not exceed 30 mA.

- A disconnecter must be fitted to the installation's fixed wiring in compliance with regulations on wiring.

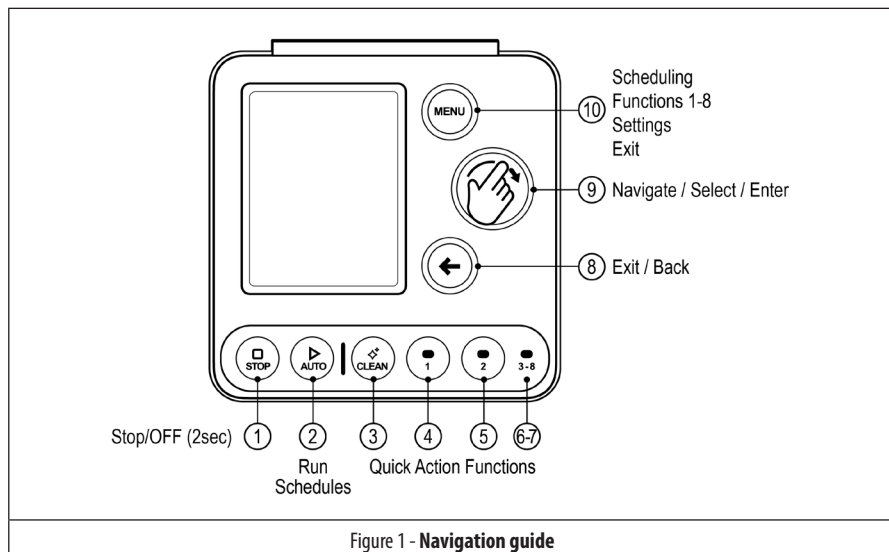


- Failure to heed these warnings can cause serious damage to the pool's components or serious injury to swimmers, including death.
- Observe the regulations in force on accident prevention.
- Before handling the pump, ensure that it is switched off and disconnected from the mains power supply.
- If the unit pump breaks down, do not try to repair it yourself. Contact a qualified service engineer.
- All modifications to the pump require prior authorization from the manufacturer. Original spare parts and accessories authorized by the manufacturer ensure greater safety. The pump manufacturer is exempt from all liability regarding any damage caused by unauthorized spare parts or accessories.
- Do not touch the fan or moving parts and do not place a rod or your fingers in the vicinity of the moving parts during operation of the appliance. Moving parts can cause serious injury or even death.
- Do not dry-run the pump or without water (this will void the warranty).
- Do not perform maintenance or repair work on the device with wet hands or if the appliance is wet.
- Do not immerse the device in water or mud.
- Pumps that do not bear label saying they are protected against freezing should not be left in the open air when weather conditions are extremely cold.
- Use a motor protector with magnetothermic protection. See the wiring specifications in Table 2 - Specifications. This information is in the quick start guide of this pump (77946-0010X).
- If the power cable becomes damaged, it must be replaced by a qualified service engineer in order to prevent hazards.
- The pump is not intended for commercial use and must be installed/maintained by a qualified service engineer.
- The assembly of the control panel on a wall must be carried out using a cable purchased by the service engineer and placed as far away as possible from areas likely to be splashed or accidentally come into contact with water. Otherwise, it can be fitted inside a cabinet with an IPX4 protection rating in order to minimize risks during maintenance work and cleaning.
- Do not submerge the control panel in water.

1. SYSTEM STARTUP

1.1 HOW TO USE THE CONTROL PANEL

The Victoria Smart Connect VS variable speed pump has a control panel to control on/off state and to set up, execute and display the pump's quick action functions, schedules, settings and configuration (Fig. 1).



1.1.1. CONTROL KEYS

1. Stop/Off: Press the Stop button for 2 seconds to switch the pump on (stop mode) or off. Note: Users also have the option to turn the pump on by pressing Auto/Clean or any quick action button for 2 seconds.

2. Auto mode: Press the Auto button to activate/deactivate the pre-programmed schedules, each with a specific RPM, start time, duration and day of the week (all or alternate, i.e. customized).

Quick action functions: Press the quick action buttons (QAB) to start-up the following programs:

3. Clean Mode: High-speed mode (100%) for dispensing chemicals, vacuuming or skimming the pool.

4. Button 1: High-speed mode (100%) for high flow rate filtration, spa jets and water features.

5. Button 2: Medium-speed mode (75%) for mid flow rate filtration, spa jets and water features.

6-7. Quick Action Functions 3-8:

- Speed 3: Low-speed mode (50%) for low rate filtration.
- Speeds 4–8: Not set by default.

8. Exit/Back Button: Press this button to exit without saving your changes. Every press of the button will go back one step in the Settings Menu.

9. Flywheel navigation: Turn the flywheel to scroll through the options available and press to view and select the option chosen.

10. Menu: Press the MENU button to check schedules, quick functions, or to modify settings. The Settings Menu can be accessed both when the pump is on or off.

1.1.2. LIGHT INDICATORS

The buttons Stop / Auto / Clean / 1 / 2 and QAF 3-8, located at the bottom of the control panel (Fig.2)

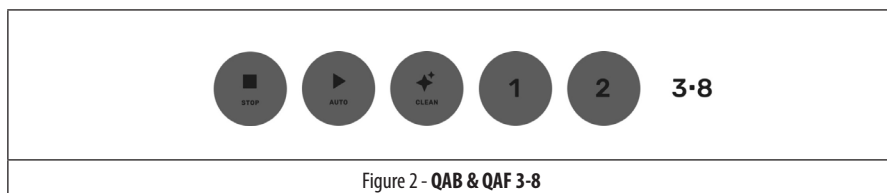


Figure 2 - QAB & QAF 3-8

act as light indicators, following a backlight colour code, which indicates the current active function of the pump (Table 1).

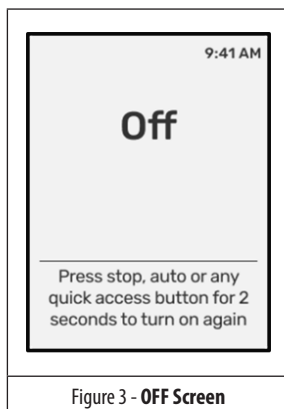
Indicator	Backlight colour (*)	Mode	Description of the state / active function
STOP	Yellow	Fixed	Pump is paused
	Red	Blinking	Pump is stopped
AUTO	Green	Fixed	Pump is running schedules
		Blinking	Pump is priming
	Red	Fixed	Pump is stopped
		Blinking	Pump is in an error state
CLEAN	Green	Fixed	Cleaning mode is running
		Blinking	Priming or customized mode
QAB: 1	Green	Fixed	Quick Action Function 1 is running
		Blinking	Priming or customized mode
QAB: 2	Green	Fixed	Quick Action Function 2 is running
		Blinking	Priming or customized mode
QAF: 3-8	Green	Fixed	Quick Action Function 3-8 is running
		Blinking	Priming or customized mode

Table 1 - Backlight colour code

(*) Additional note: when the backlight colour of any of the buttons or 3-8 light indicator is grey, the pump is in off mode and cannot do any operation, unless it is activated.

1.2 PUMP STARTUP

Ensure that the pump is plugged in. Once done, the system is loaded, this process off mode is enabled and the message "OFF" is displayed on the screen (Fig. 3).



In off mode, the pump can only be activated locally, by pressing any of the following buttons: Stop / Auto / Clean / 1 / 2 at least 2 seconds (Fig. 4). It cannot be activated remotely through Automation / dry contacts nor app. Then, the stop mode is enabled and the message "Stopped" is displayed on the screen (Fig. 5).



In stop mode, the pump can be turned on with a short press of the Stop / Auto / Clean / 1 / 2 buttons or remotely through automation/dry contacts or app.

If it is the first time that the pump is turned on, it starts running at default speed (high speed – QAF 1). But if it has been operating before it will restart at the last state, with the last configuration it had. To deactivate the pump and return to the off mode, press the Stop button at least 2 seconds.

2. SYSTEM FUNCTIONS

2.1 STARTUP FUNCTIONS

Every time the pump is turned on, as a previous step to start running, its own programmed system automatically runs the following functions to ensure the most efficient and safe performance of the pump into the filtration system of the pool.

PRIMING

Priming the pump involves filling the hydraulic side of the pump with water. It is recommended to allow the system to do the whole process without changing or turning off the pump.

This process helps to remove any air trapped in the hydraulic installation, allowing the pump to create the necessary suction to move water through the filtration system. At the same time, the dry run protection acts to prevent damage, so running the pump without water would cause overheating and could damage internal pump components.

There are 2 options, that can be switched, to prime the pump:

- Auto priming function: enabled by default. Parameters of execution:
 - Speed: high speed (100%), it cannot be modified.
 - Min. duration: 12 seconds if the pump is already primed.
 - Max. duration: up to 900 seconds (15 mins.). If the system reaches the max. time it changes to calibration mode.

It is possible to change the priming modes from Auto (by default) to Manual priming (go to section 4.3. Settings of this manual) and vice versa.

- Manual priming function: disabled by default. It allows the user to modify manually the priming parameters. Default parameters of execution:
 - Speed: high speed (100%), which can be modified.
 - Duration: 180 seconds (3 mins.)



Note: Please be aware that if manual priming is selected, it will be necessary to visually check that the pump is correctly primed. In case the pump is not correctly primed, the calibration function (explained next in this section) will not work properly.

DRY RUN PROTECTION

This is an implicit safety function, which protects the pump from running without water and prevents damage to internal components.

This protection is internally activated during the priming, so the dry run mode will never be shown (not displayed in the screen). It is enabled by default, but it can be manually disabled (go to section 4.3. Settings of this manual). Despite this option, it is not recommended to deactivate the dry run protection, as this could cause malfunction or damage to the pump.

Once primed, the dry run mode collects data of the pump and consequently can detect the 3 priming states that can occur:

- There is no water in the prefilter of the pump: this state results in pump stop and an alarm is displayed on the screen (see section 5. Alarms and warnings).
- There is water in the prefilter to continue with the pump priming process, but it is not fully primed: the dry run mode tries to keep on priming the pump until it is fully primed. If this is not possible, the process finishes when the maximum allowed priming time is reached. Then, the system automatically switches to calibration mode.
- Full priming: the prefilter is correctly primed and there is no trapped air in the installation. Then, the system automatically switches to calibration mode.



Note: Please be aware that if the maximum allowed priming time is reached and the pump is not fully primed, the next activated function (calibration) will not detect the real installation parameters, and the pump will not run at its optimal working point.

CALIBRATION MODE (FLOW CONTROL)

The calibration function is activated to optimize the actual flow range that the pump can deliver for a specific installation. To do so, the first step of the process is the registration of installation data by the control panel. The system then calculates the optimal flow range that can be adjusted. To see and adjust the min/max flow go to section 4.3. Settings of this manual.

Notice on the functionality for calculating the flow rate and its limitations. The flow-rate calculation function displays an estimated value, obtained from an internal algorithm, which is provided as a guideline only for adjusting and controlling the pump's operation.

The value displayed is not an exact measurement and may vary from the actual flow rate depending on the installation's characteristics and conditions. For most accurate, verifiable flow-rate measurements, the use of a duly calibrated flowmeter is recommended.

The calibration mode is activated automatically after the priming function (each time the pumps is turned on) or in case that a significant change in the current read by the inverter occurs (recalibration).

When this mode is running, the modes of control of the pump are disabled and no other internal function is available. It can only be stopped with the stop button.

The duration of this process is approximately 10 seconds.



It is highly recommended to let the system run all the starting up functions, so, please, be patient until the required process is finished. Following this good practice, you will ensure better efficiency of your pool equipment and prevent possible damages.

2.2 SPECIAL FUNCTIONS

FREEZE PROTECTION

It is a safety measure included in the internal system.

Freeze protection prevents pool equipment, plumbing, and water from freezing in cold weather. It is typically implemented to avoid costly damage from ice formation.

Freeze protection only works when the pump is inactive (off mode) as a preventive action. This function automatically turns on the pump in case of potential freeze, with the following default settings:

- Ambient temperature set point: 4°C or less
- Pump running time: 120 mins.
- Pump running speed: 50% (low speed)

RECOVERY MODE

During the pump normal operation, if the power is disconnected from the mains (due to manual unplugging, power outage, etc.), the pump will always return to the same mode and with the same configuration when switched back on.

2.3 AUTO SCHEDULES

This function allows the user to run time schedules by pressing the Auto QAB (Fig.6). This helps to improve the automation of the pool operation. Proper adjustment of the schedules according to the pool needs will ease the maintenance required.

To visualize existing preprogrammed schedules, create or edit a time schedule please go to [Menu → 4.1. Auto Schedules setup]. It is necessary to setup time of start, duration, speed, days of the week and name of the program.



Figure 6 - Auto Schedules

Schedules are displayed and run based on their start times. In case of overlapping, the one with the higher speed takes precedence.

There are different scenarios that can be found in the Auto mode:

• Current Schedule

A programmed schedule has already started, and the pump is running according to its programmed parameters (Fig. 7). If a QAF is activated during a schedule execution, it will be paused and resumed once the QAF finishes.

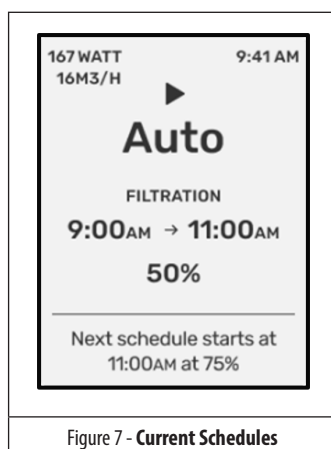


Figure 7 - Current Schedules

• No Current Schedules

When there are some preprogrammed schedules, but no one is currently running, the message: "No schedules are currently running" is shown and an indication of the starting time and speed is displayed at the footer (Fig. 8).

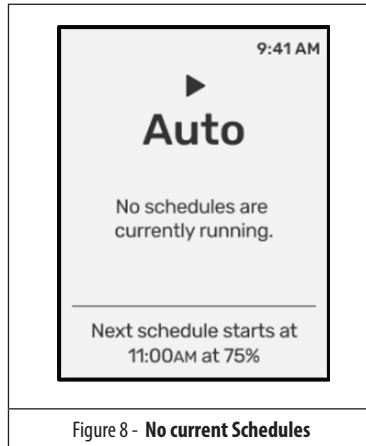


Figure 8 - No current Schedules

• No Schedules

When there are no schedules active at all an empty state message that guides to create a new schedule is displayed (Fig. 9).

This screen is only possible if the user has deleted or deactivated the default filtration schedules.

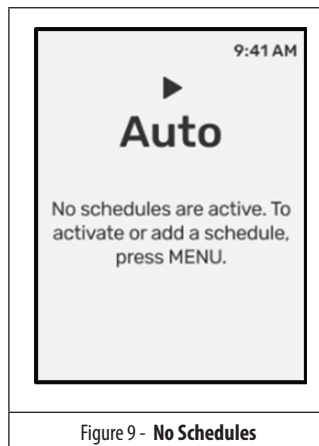


Figure 9 - No Schedules

By default, the pump remains in auto mode and activates any existing time schedule, if applicable.

In case of power outage or disconnection of the pump from the mains the current schedule remains paused until the power is restored. Then the scheduled task is resumed.

2.4 QUICK ACTION FUNCTIONS (QAF)

QAF are used for both short time duration and continuous running (unlimited time duration).



Figure 10 - Quick Action Functions

There are 3 QAF: Clean, 1, 2, which have a dedicated physical Quick Action Button (QAB) located at the bottom side of the control panel. The remaining QAFs (3 to 8) are virtual and can be activated by pressing [Menu → Quick Functions] and selecting the desired program. These physical and virtual buttons are shown in Fig. 10.

The default QAFs are the ones indicated in Fig. 11.

The default name, speed and time parameters for each QAF are the following:

• QAF "0"

- Name: "Clean"
- Duration: 1 hour
- Speed: 100%

Can be activated pressing the clean quick action button from the control panel.

• QAF "1"

- Name: "High speed"
- Duration: unlimited
- Speed: 100%

Can be activated pressing "1" quick action button from the control panel.

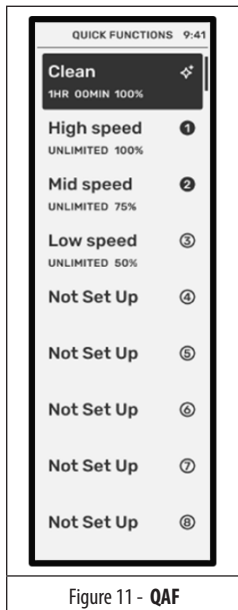


Figure 11 - QAF

- QAF "2"
- Name: "Medium speed"
- Duration: unlimited
- Speed: 75%

Can be activated pressing "2" quick action button from the control panel.

- QAF "3"
- Name: "Low speed"
- Duration: unlimited
- Speed: 50%

- QAF "4-8"
- Name: Not set up
- Duration: undefined
- Speed: undefined

While a QAF is running, it is possible to switch to another one.

To visualize, create or edit the QAFs, please go to Menu → 4.2. Quick Action Function setup section of this manual. It is necessary to setup the speed and duration of the program.

In case of power outage or disconnection of the pump from the mains the current QAF remains paused until the power is restored. Then, it is resumed.

3. MODES OF CONTROL

There are 3 types of control of the pump and its functions:

- Local control by control panel
- Remote control by Fluidra Pool Application
- Remote control by dry contacts

This manual is focused on the local control, by control panel.

REMOTE CONTROL BY FLUIDRA POOL APPLICATION

It must be remarked that the system has Wi-Fi / BT connectivity, so it can be remotely monitored and controlled from a smart device, via Fluidra corporate application: Fluidra Pool. It is available for Android and Apple Operative Systems, so it can be downloaded from the respective online stores:

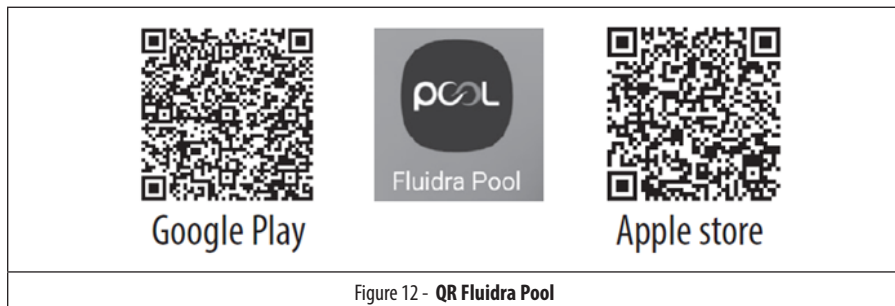


Figure 12 - QR Fluidra Pool

For additional details of the pairing process between the pump and a smart device, go to section 4.5 of the Quick Start Guide (77946-0010X) of this pump.

REMOTE CONTROL BY DRY CONTACTS

To run the pump, a relay or external switch from other pool devices, such as salt chlorinators, automatic covers, heat pumps, automatic valves can be connected through dry contacts and send digital inputs to this pump system to actuate it as if they were controllers.

Inversely, the pump can send digital outputs through the auxiliary relay to other pool devices, such as salt chlorinators or heat systems and act as a controller.

Commands from dry contacts take priority over commands from the control panel. Only basic commands from the control panel are active.

There is a total of 4 digital inputs by default:

1. Speed: 100%
2. Speed: 75%
3. Speed: 50%
4. Stop: NO

And there are 3 modes of control, that can be selected for each digital input: Speed, Flow and Stop.

For additional information on how to configure each digital input, go to section 4.3 Settings of this manual.

4. MAIN MENU: SCREEN NAVIGATION

To access to the main menu options press Menu button (Fig. 13) and you can find the main menu screen (Fig. 14), where it is displayed the 4 default / configured QAFs, schedules, other QAFs and settings.



Figure 13 - Main Menu Button

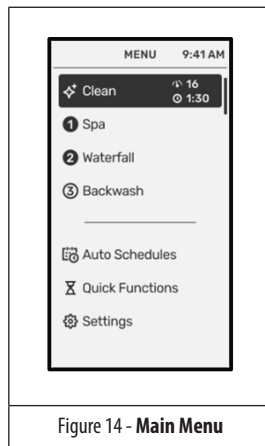


Figure 14 - Main Menu

When scrolling down the QAF, the speed and duration of each one are indicated. Select any of them to run it.

4.1. AUTO SCHEDULES SETUP

New schedule

When selecting for the first time [Menu → Auto Schedules], no preset time schedule appears by default, so it is necessary to create the desired ones, by selecting: “New schedule” option.

New schedules that are created are called filtration by default and they can be visualized ordered by starting time (Fig. 15).

The maximum number of schedules that can be created is 10. If this is reached, the “New Schedule” button is replaced with a text stating “Maximum number of schedules is reached, consider editing or removing an existing schedule”.

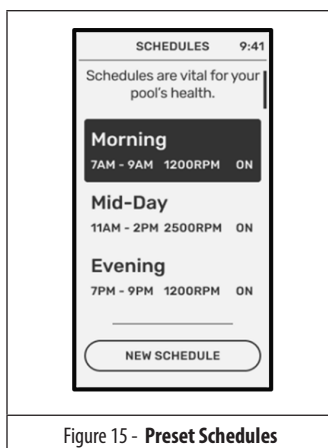


Figure 15 - Preset Schedules

Edit Schedules

If there are any preset schedules, they are displayed based on their start times. Click one of them get into the schedule menu (Fig.16).

Then click on the name to select one the presets or create a new one (next section).

The default name is filtration. If the speed has been used in other schedules of QAF, the system automatically assigns a new number after the name (e.g. Filtration 2). So, the settings are not linked.

To generate a custom name, the user must scroll down at the bottom of the name list and select the Custom option. Then, using a specific keyboard, enter the new name.



Figure 16 - Edit Schedule

Custom Days

Select "Days" option and then "All" or "Custom" options can be selected. In case of "custom" the exact days can be selected (Fig.17).

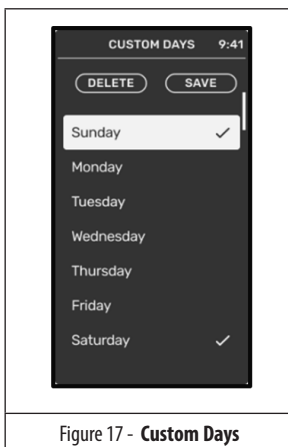


Figure 17 - Custom Days

4.2. QUICK FUNCTIONS (QAF) SETUP

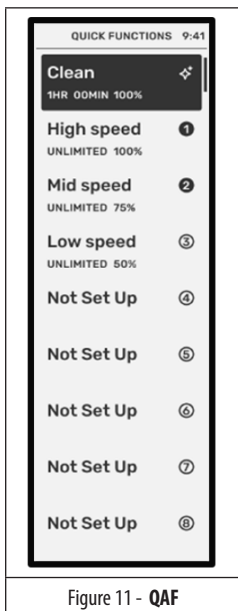


Figure 11 - QAF

When selecting [Menu → Quick functions], the quick functions menu appears (Fig.11), with the 4 preset QAF and the 4 Not Set Up QAF.

Edit Quick Action Function

When any existing quick action function is selected, it can be edited through its setup menu (e.g. Fig.18). The options are name, mode (speed / flow), setpoint duration.

Selecting the delete option clears any QAF and displays it as 'Not set up' in the Quick functions' menu. Clean QAF is an exception and cannot be deleted (Fig. 18).



Figure 18 - Edit QAF

New Quick Action Function

To create a new QAF, select one of the 8 options of the QAF menu that is “Not set up”. Again, it can be edited through its setup menu (Fig. 19).

In “name” option, the description can be selected from preset names list. By default, the name is set to QAF + a number associated.

The last item on the list is “Custom Name”. Once this option is selected, a keyboard appears, to create a customized name.

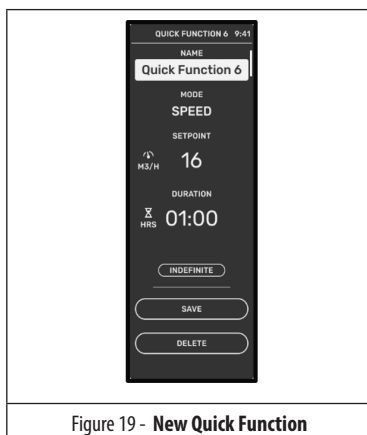


Figure 19 - New Quick Function

4.3. SETTINGS

When selecting [Menu → Settings], a menu with the 11 functions / configurations appears (Fig.20). All this can be set up, according to this section.

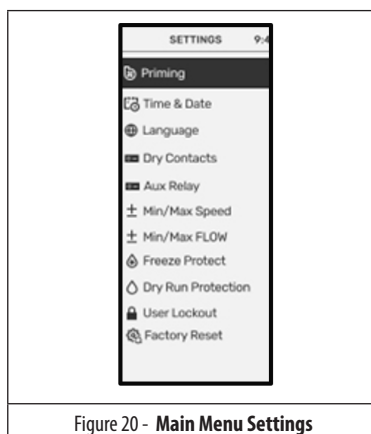


Figure 20 - Main Menu Settings

Priming Setup

This setting allows the user to change the priming mode. By default, the "Auto" option is enabled (Fig. 21), meaning that the default parameters (defined in Section 2.1, Startup Functions) are executed. It is recommended to keep the priming mode set to "Auto" unless the user has a clear understanding of the priming process and performs it manually based on experience, as described in the same section of this manual.

Regarding the manual priming set it is important to note that it is possible to adjust the speed and duration using the flywheel (Fig. 22).

Be aware that, while the manual mode is active, the pump will use the customized values each time it primes.

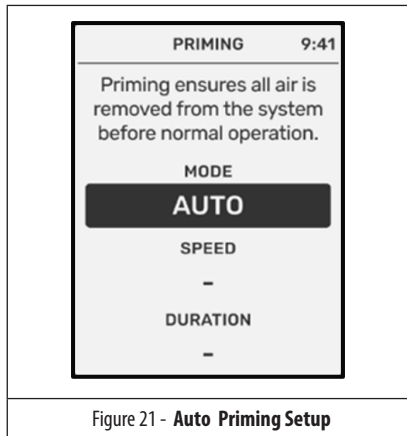


Figure 21 - Auto Priming Setup

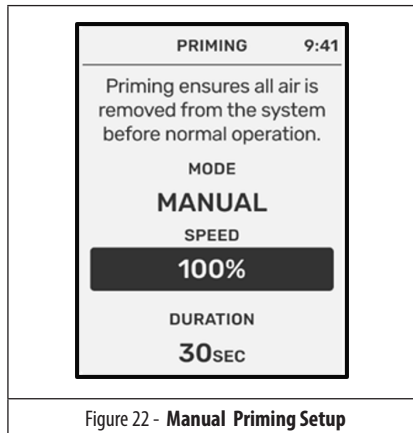


Figure 22 - Manual Priming Setup

Time & Date Setup

This setting allows the user to adjust the internal clock's time and date through its dedicated menu (Fig. 23). It is not recommended to change these values manually; once the pump is connected to a smart device, the time and date are automatically synchronized to the correct values.

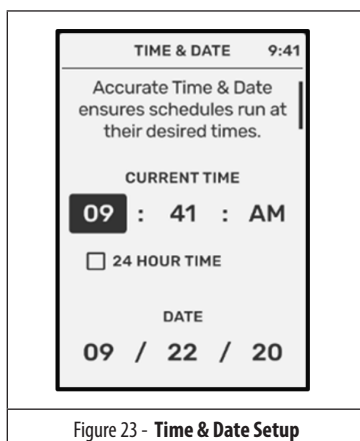


Figure 23 - Time & Date Setup

Language Setup

This setting allows the user to select the control panel system language. There are currently 11 languages currently available (Fig. 24)

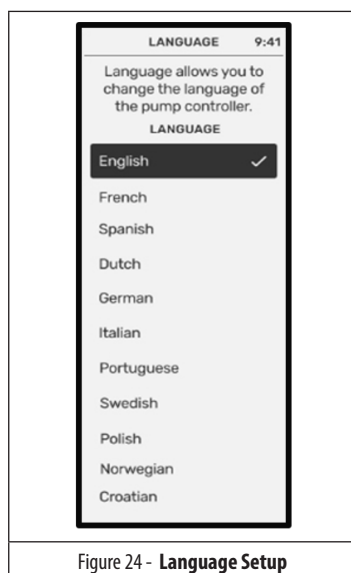


Figure 24 - Language Setup

Dry Contacts Setup

This setting allows the user to change the operating mode for each dry contact (Fig. 25). The default modes are described in Section 3, Modes of Control, of this manual.

- Speed mode: Can be adjusted within the configured minimum and maximum speed setpoints (%) (Fig. 26).
- Flow mode: Can be adjusted within the configured minimum and maximum flow limits (m³/h).
- Stop mode: Can be configured as NO (Normally Open) or NC (Normally Closed):
 - NO: The pump turns OFF when the external contact closes.
 - NC: The pump turns OFF when the external contact opens.

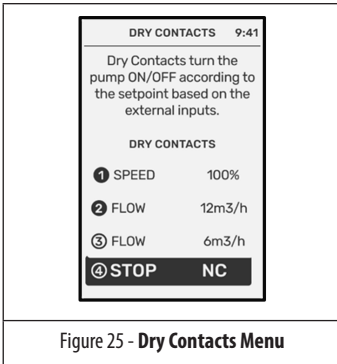


Figure 25 - Dry Contacts Menu

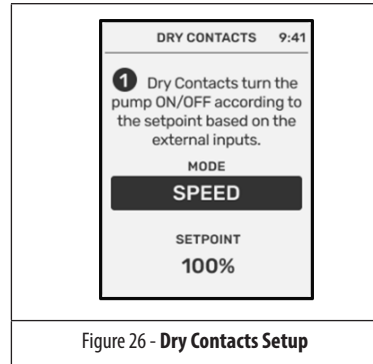


Figure 26 - Dry Contacts Setup

Auxiliary Relay Setup

The auxiliary relay provides an output signal from the pump to other pool devices based on the pump speed. In this settings menu (Fig. 27), the speed setpoint can be adjusted, defining the specific value at which the pump switches the external device between the ON and OFF states.

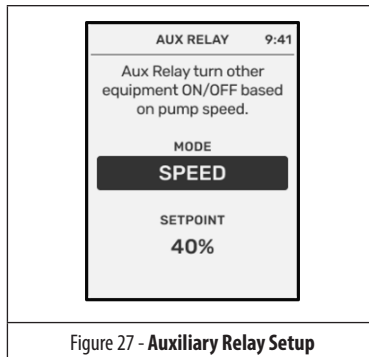


Figure 27 - Auxiliary Relay Setup

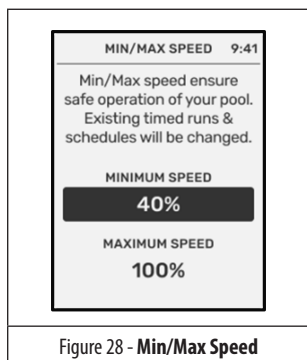


Figure 28 - Min/Max Speed

Min/Max speed Setup

Considering that the allowed speed range for this pump is 40-100% (Min / Max). This setting allows the user to select other speed limits than the default ones:

- Minimum speed: 40%
- Maximum speed: 100%

Select each option in the Min / Max speed setting menu (Fig. 28) and adjust the speed through the flywheel.

Then, the QAFs and the schedules are adjusted according to these new limits.

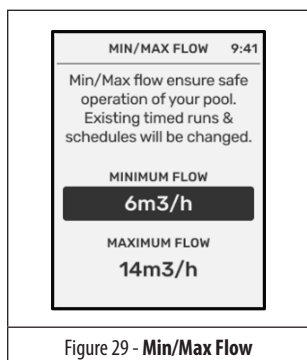


Figure 29 - Min/Max Flow

Min/Max flow Setup

Once the system calibration is completed and the installation parameters are stored, the minimum and maximum flow limits are automatically defined by the system. This setting allows the user to manually adjust these limits based on operational experience. Select each option in the Min / Max flow setting menu (Fig. 29) and adjust the speed through the flywheel.

Then, the QAFs and the schedules are adjusted according to these new limits.

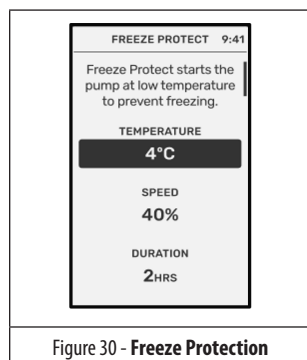


Figure 30 - Freeze Protection

Freeze protection Setup

This setting allows the user to configure the freeze protection parameters through the function's menu (Fig. 30). The available limits are as follows:

- Temperature: 2 °C to 6 °C (default: 4 °C).
- Duration: Adjustable in 0.5 hour steps, ranging from 0 h to 10 h (default: 2 h). If the duration is set to 0 h, the freeze protection function is disabled.
- Speed: 20% to 100% (default: 50%), limited by the configured minimum and maximum speed settings.

Dry Run Protection Setup

This setting allows the user to enable or disable the dry-run protection described earlier in Section 2.1, Startup Functions through the function's menu (Fig. 31). The available options are "Enabled" and "Disabled". However, it is strongly recommended not to disable this feature.

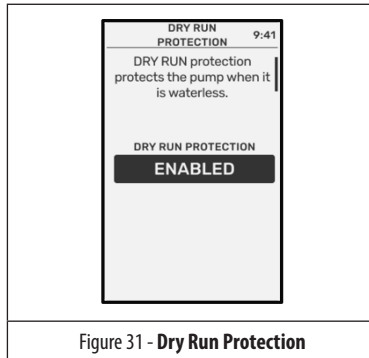


Figure 31 - Dry Run Protection

User Lockout Setup

This setting provides a lock for the main settings to protect them from unintended modifications. By default, the selected option is "None" (Fig. 32). Rotate the flywheel to select "Long Press," then choose either "All Protected" or "All Protected Except QFA" (Fig. 33). When these options are enabled, the specified settings cannot be accessed. To unlock any function press the "Menu+Back" QAB for 2 seconds.

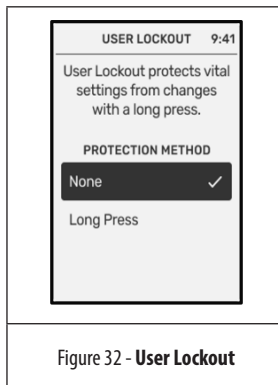


Figure 32 - User Lockout

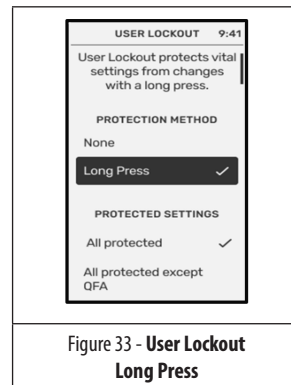
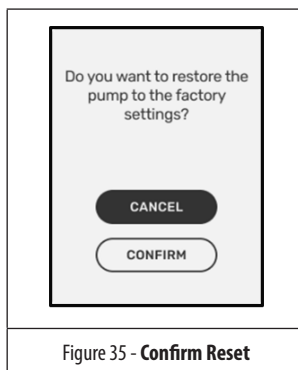
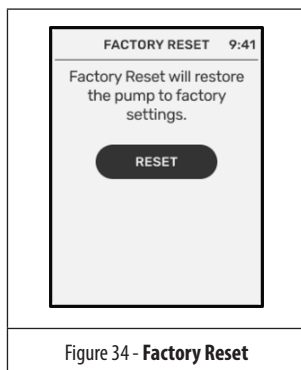


Figure 33 - User Lockout Long Press

Factory Reset Setup

Selecting "Factory Reset" and then "Reset" option (Fig. 34) restores the pump settings to the original factory configuration. By default, the "Cancel" option is selected. Rotate the flywheel and select "Confirm" to restore the factory settings (Fig.35).



5. ALARMS & WARNINGS

Table 2 provides an overview of possible alarms and warnings, and the initial steps that can be taken to resolve them. Alarms are displayed on the control panel as EXX codes, while warnings appear as pop-up messages without a code.

The pump can operate without being connected. However, to receive OTA firmware updates (improvements and fixes), the pump must be connected to the Internet. Updates are installed automatically when the pump is connected. We recommend keeping the product connected, especially after installation and after long periods offline.

Only a qualified service engineer with experience is authorized to carry out any work, including the wiring in the pump.

Code	Problem description	Action
E01	Inverter protection activated	Check the system / Contact technical service
E02	Overcurrent detected during acceleration phase	Check the system / Contact technical service
E03	Overcurrent detected during deceleration phase	Check the system / Contact technical service
E04	Overcurrent detected at constant speed	Check the system / Contact technical service
E05	Overvoltage detected during acceleration	Check the system / Contact technical service
E06	Overvoltage detected during deceleration	Check the system / Contact technical service
E07	Overvoltage detected at constant speed	Check the system / Contact technical service
E08	Undervoltage in power supply detected	Check the power supply
E09	Motor overload detected	Clean filter and check the device
E10	Inverter overload detected	Check the power supply
E11	Phase loss at input	Check wiring and motor
E12	Phase fault at output	Check wiring and motor
E14	Overheating	Check the system / Contact technical service
E16	Communication fault	Check the system / Contact technical service
E17	Monitoring fault	Check the system / Contact technical service
E24	Inverter system fault	Check the system / Contact technical service
E25	Fault due to lack of water at pump suction	Check installation / Contact technical service
E26	Very high ambient temperature detected	Check the system / Contact technical service
E27	Overpower detected	Check the system / Contact technical service
E29	Power supply overvoltage detected	Check the system / Contact technical service
Warning 1	Maximum value is below the minimum allowed	Minimum allowed will be used
Warning 2	Minimum value is above the maximum allowed	Maximum allowed will be used
Warning 3	Setpoint not reached due to possible obstruction in the installation	Check filter or prefilter
Warning 4	Device is externally controlled. Cannot stop.	Informative. No action required
Warning 5	Anti-freeze protection activated. Cannot stop	Automatic deactivation when the set temperature limit is exceeded. Informative, no action required.
Warning 6	High temperature. Speed is reduced for safety	Will reset when normalized
Warning 7	Function not allowed	Informative. No action required
Warning 8	Reduced pump performance	Check the system

Table 2 - Alarms and warnings

INQUIDE S.A.U.
Passeig de Sanllehy, 25
08213 Polinyà
(Barcelona) Spain

www.fluidra.com

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