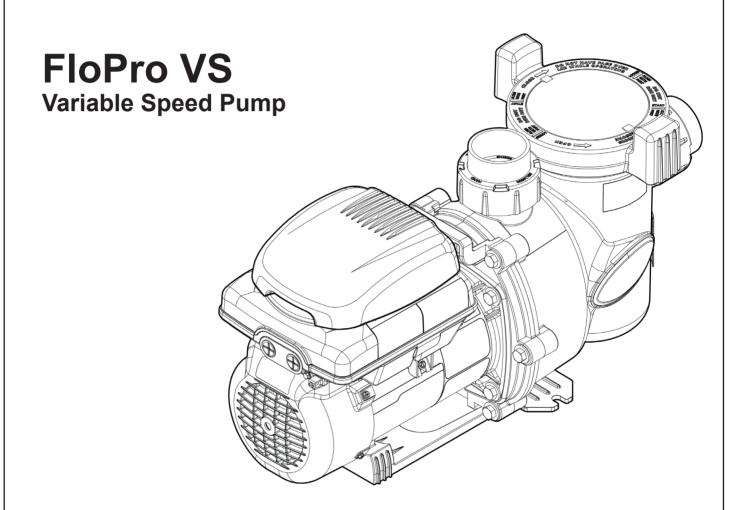


INSTALLATION AND OPERATION MANUAL





WARNING

FOR YOUR SAFETY: This product must be installed and serviced by a professional service technician, qualified in pool/spa installation. The procedures in this manual must be followed exactly. Improper installation and/or operation can create dangerous electrical hazards, which can cause high voltages to run through the electrical system, possibly causing death, serious injury or property damage. Improper installation and/or operation will void the warranty.



ATTENTION INSTALLER: This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.



Important Safety Instructions

READ AND FOLLOW ALL INSTRUCTIONS

All electrical work must be performed by a licensed electrician and conform to all national, state, and local codes. When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

WARNING

RISK OF SUCTION ENTRAPMENT HAZARD, WHICH, IF NOT AVOIDED, CAN RESULT IN SERIOUS INJURY OR DEATH. Do not block pump suction, as this can cause severe injury or death. Do not use this pump for wading pools, shallow pools, or spas containing bottom drains, unless the pump is connected to at least two (2) functioning suction outlets. Drain covers must be certified to the latest published edition of ANSI/ASME A112.19.8 or it's successor standard ANSI/APSP-16. In Australia AS1926.3 is also an acceptable standard.

WARNING

To reduce the risk of injury, do not permit children to use this product.

WARNING

A check valve can interfere with the proper operation of certain Suction Vacuum Release System (SVRS) products. To avoid possible entrapment hazard, serious injury, or death, make sure to review the operation/owners manual of your particular SVRS product before installing the check valve.

WARNING

To reduce the risk of property damage or injury, do not attempt to change the backwash (multiport, slide, or full flow) valve position with the pump running.

WARNING

Zodiac® Pumps are powered by a high-voltage electric motor and must be installed by a licensed or certified electrician or a qualified swimming pool service technician.

WARNING

The pump is for fixed installations only and to be used in conjunction with swimming pool equipment. (e.g. filters). The pump is to be installed in accordance with the relevant requirements of the Australian wiring rules AS/NZS 3000. Also refer to the installation instructions relating to the swimming pool equipment for which the pump will be an integral part. The pump is to be supplied through a residual current device (RCD) with a rated residual operating current of 30mA. If the supply cord is damaged it must be replaced by the manufacturer or its service agent or similarly qualified person in order to avoid hazard.

WARNING

Incorrectly installed equipment may fail, causing severe injury or property damage.

WARNING

- Do not connect system to an unregulated city water system or other external source of pressurized water producing pressures greater than 35 PSI.
- Trapped air in the system can cause the filter lid to be blown off, which can result in death, serious personal injury, or property damage. Be sure all air is out of the system before operating.



A WARNING

To minimize risk of severe injury or death, the filter and/or pump should not be subjected to the piping system pressurization test.

Local codes may require the pool piping system to be subjected to a pressure test. These requirements are generally not intended to apply to the pool equipment, such as filters or pumps.

Zodiac® pool equipment is pressure tested at the factory.

If, however, the WARNING cannot be followed and pressure testing of the piping system must include the filter and/or pump. BE SURE TO COMPLY WITH THE FOLLOWING SAFETY INSTRUCTIONS:

- Check all clamps, bolts, lids, lock rings, and system accessories to ensure they are properly installed and secured before testing.
- RELEASE ALL AIR in the system before testing.
- Water pressure for test must NOT EXCEED 35 PSI.
- Water temperature for test must NOT EXCEED 100°F (38°C).
- Limit test to 24 hours. After test, visually check system to be sure it is ready for operation.

Notice: These parameters apply to Zodiac equipment only. For non-Zodiac equipment, consult the equipment manufacturer.

WARNING

Chemical spills and fumes can weaken pool/spa equipment. Corrosion can cause filters and other equipment to fail, resulting in severe injury or property damage. Do not store pool chemicals near your equipment.

CAUTION

Do not start pump dry! Running the pump dry for any length of time will cause severe damage and will void the warranty.

CAUTION

This pump is for use with permanently installed pools and may also be used with hot tubs and spas, if so marked. Do not use with storable pools. A permanently installed pool is constructed in or on the ground or in a building, such that it cannot be readily disassembled for storage. A storable pool is constructed so that it may be readily disassembled for storage and reassembled to its original integrity.

CAUTION

Do not install beneath the skirt of a hot tub. The pump requires adequate ventilation to maintain air temperature at less than the maximum ambient temperature rating listed on the motor rating plate.

SAVE THESE INSTRUCTIONS





WARNING

SUCTION HAZARD. Can cause serious injury or death. Do not use this pump for wading pools, shallow pools, or spas containing bottom drains, unless pump is connected to at least two (2) functioning suction outlets.

WARNING

Pump suction is hazardous and can trap and drown or disembowel bathers. Do not use or operate swimming pools, spas, or hot tubs if a suction outlet cover is missing, broken, or loose. The following guidelines provide information for pump installation that minimizes risk of injury to users of pools, spas, and hot tubs:

Entrapment Protection - The pump suction system must provide protection against the hazards of suction entrapment.

Suction Outlet Covers - All suction outlets must have correctly installed, screw-fastened covers in place. All suction outlet (drain) covers must be properly maintained. They must be replaced if cracked, broken, or missing. Drain covers must be listed/certified to the latest published edition of ANSI®/ASME® A112.19.8 or its successor standard, ANSI/APSP-16. In Australia, AS1926.3 is also an acceptable standard. The pool must be shut down and bathers must be restricted from entering the pool until any cracked, broken, or missing drain covers are replaced.

Number of Suction Outlets Per Pump - Provide at least two (2) hydraulically-balanced suction outlets, with covers, as suction outlets for each circulating pump suction line. The centers of the suction outlets (suction outlets) on any one (1) suction line must be at least three (3) feet apart, center to center. See Figure 1.

The system *must* be built to include at least two (2) suction outlets (drains) connected to the pump whenever the pump is running. However, if two (2) suction outlets run into a single suction line, the single suction line may be equipped with a valve that will shut off both suction outlets from the pump. The system shall be constructed such that it shall not allow for separate or independent shutoff or isolation of each drain. See Figure 1.

Additional pumps can be connected to a single suction line as long as the requirements above are met.

Water Velocity - The maximum water velocity through the suction outlet assembly and its cover for any suction outlet must not exceed the suction outlet assembly and its cover's maximum design flow rate. The suction outlet (drain) assembly and its cover must comply with the latest version of ANSI®/ASME® A112.19.8, the standard for Suction Fittings For Use in Swimming Pools, Wading Pools, Spas,and Hot Tubs, or its successor standard, ANSI/ASME APSP-16. In Australia, AS1926.3 is also an acceptable standard.

Testing and Certification - Suction outlet covers must have been tested by a nationally recognized testing laboratory and found to comply with the latest published edition of ANSI/ASME A112.19.8 or its successor standard, ANSI/APSP-16, the standard for *Suction Fittings For Use in Swimming pools, Wading Pools, Spas, and Hot Tubs.* In Australia, AS1926.3 is also an acceptable standard.

Fittings - Fittings restrict flow; for best efficiency use fewest possible fittings (but at least two (2) suction outlets).

Avoid fittings that could cause an air trap.

Pool cleaner suction fittings must conform to applicable International Association of Plumbing and Mechanical Officials (IAPMO) standards.



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(i)

Are available in the appendices at the end of these instructions:

- Dimensions
- Description
- Performance graphs

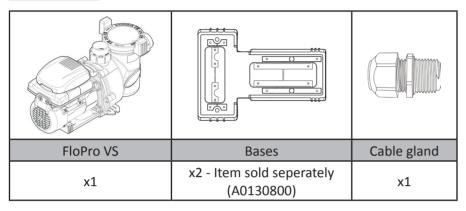


1. Information before installing

1.1 General delivery terms and conditions

All equipment, even postage and packing paid, travels at the risks and perils of the recipient. Written reserves should be made on the transporter's delivery documents if damage during transport is discovered by the recipient (confirmed by registered letter to the transporter within 48 hours).

1.2 Contents



1.3 Technical specifications

- Power: 1.65HP 1.2kW
- Operation at from 600 to 3450 rpm (settings per 10 rpm step)
- Number of programmable speeds: 8
- Flow rate at 8 metres hydraulic head: 400 litres/Minute at 3000 RPM
- Operating temperatures: from 2 to 50°C air, and 2 to 35°C water
- Protection index: IPX4

2. Installation

2.1 Selection of the location

- The pump must be installed:
 - before the filter, the heating system, or the water treatment,
 - at a minimum distance of 3.5 meters from the edge of the pool in order to avoid any projections of spray onto the appliance. Some standards allow for other distances. Refer to the regulations in effect in the country of installation.
 - ideally 30 cm below the water level,
 - outside areas liable to flooding, or on a base with drainage,
 - in a ventilated zone to allow for cooling.
- The pump must not be installed:
 - in an area subjected to water spray, rain, direct sunlight,
 - at more than 1 metre above the water level,
 - close to a heat source or to a source of inflammable gas.
- Install a check valve if the pump is installed above the water level.

WARNING

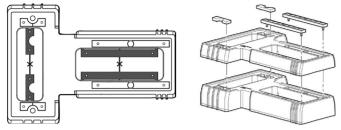
A check valve can interfere with the proper operation of certain Suction Vacuum Release System (SVRS) products. To avoid possible entrapment hazard, serious injury, or death, make sure to review the operation/owners manual of your particular SVRS product before installing the check valve.

- It must have easy access for any work to be carried out on the appliance.
- Use as few bends as possible.
- If installed below the level of the pool water, isolation/shutoff valves must be installed on the admission (suction) and discharge piping of the pump.

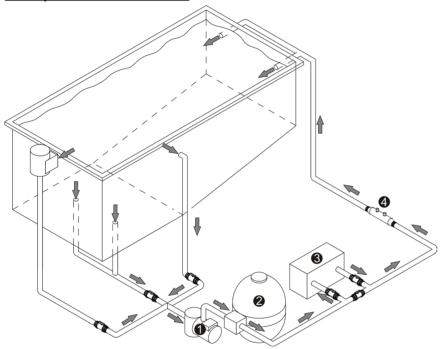


2.2 Installing the appliance

- Install on a stable, solid (concrete slab for example) and level surface.
- If necessary, use the optional bases not included (small base + spacers and large base, use only one, or both combined) to raise the pump to the level of the existing piping. Bases can be ordered seperately (A0130800).
- Screw the pump (and the base(s) if applicable) to the ground using suitable lag-screws.



2.3 Hydraulic connections



- 1: pump
- 2: filter
- 3: heating system
- 4: water treatment system



Follow the hydraulic connection direction (see § "Sizes" in the appendix).

Pipe	Maximum admission flow rate 1.8 metres/second	Maximum discharge flow rate at 2.4 metres/second
Ø 40 mm	8.5 m³/h	11.3 m³/h
Ø 50 mm	14 m³/h	19 m³/h

- Choose the piping size depending on the pool size and in compliance with locally applicable hydraulic rules.
- The performance graphs are available in the appendix for use in pipe sizing.
- The use of union fittings on the admission and discharge is recommended to make work on the appliance easier (the pump admission and discharge have a 2" interior threading).
- If more than 10 bends are to be installed on the hydraulic circuit, increase the pipe diameter.
- Avoid high points to facilitate priming.
- Make sure the hydraulic fittings are correctly tightened and that there are no leaks.
- The pipes must be supported to avoid any risk of breakage due to the weight of the water.



2.4 Electric connections

• The pump will only start when commanded by its user interface or an external controller (AguaLink® TRi for example).

WARNING

ELECTRICAL SHOCK HAZARD

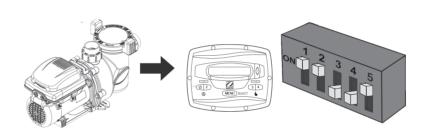
- Only a qualified and experienced technician is authorized to wire inside the appliance.
- · Loose terminals can cause the terminal block to heat and lead to the warranty being voided.
- If the power supply cable is damaged it should be replaced by a qualified technician.

a) Default Dip Switch Positions

- The user interface is fixed and wired to the pump in the factory.
- The pump communicates with its user interface using an RS485 cable.

Switch position	1	2	3	4	5
For control using the user interface	on	on	off	off	on





c) AquaLink TRi connection option

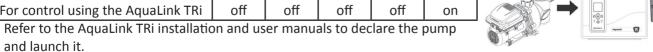
WARNING

ELECTRICAL SHOCK HAZARD

Turn off all switches and the main breaker in the Pump electrical circuit before starting the procedure. Failure to comply may cause a shock hazard, resulting in severe personal injury or death.

- Connection to an RS485 terminal block: 1 = red; 2 = black; 3 = yellow; 4 = green
- Do not cut the RS485 cable as this will result in not being able to reconnect the user interface to the pump and will make it impossible to reset the factory settings. The cable is fixed to the pump and cannot be removed or extended.
- Never lay these low-voltage cables in the same pipe as high-voltage cables.
- Open the electric compartment in front of the user interface by removing its screw and lifting the cover.
- Disconnect the RS485 terminal block and put it aside.
- Connect the supplied RS485 cable extension between the AquaLink® TRi and the pump using the RS485 terminal blocks.

Switch position	1	2	3	4	5
For control using the AquaLink TRi	off	off	off	off	on
Defects the Associated TDM contribution and contribution and the design of the contribution of the contrib					

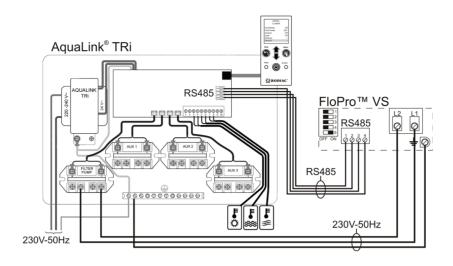




and launch it.

The user interface is deactivated when the pump is connected to the AquaLink TRi.





d) External "on/off" switch connection option

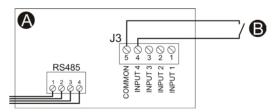
• You can connect to an external dry contact (B) to activate or deactivate a speed n the case of a backwash or the use of a booster pump.



To connect this function the user interface must be remote in order to pass the wire through the base cable pass-thru (see procedure §2.4.3.b).

In the case of connection to an external controller, the function will be proposed automatically.

- Access the electronic card on the back of the user interface (A).
- Connect the contact to the 2 terminals on the J3 connector: COMMON + INPUT1, 2, 3 or 4 depending on the speed you require to activated using the contact (INPUT1 = speed 1, INPUT 2 = speed 2, INPUT3 = speed 3, INPUT4 = speed 4).



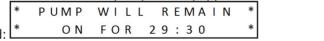
• When the contact is closed, the regulation interface will display: 1 2 : 3 0 PM R PM : 1 2 0 0 1 and the pump will start at the speed selected on the J3 connector.

REMOTE

ENABLED

• Speed 4, by default known as «booster pump», is equipped with a 30-minute timer. When the contact is opened, a

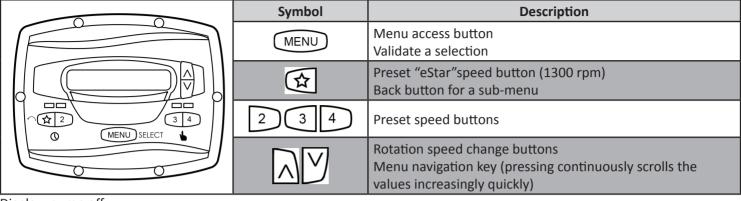
countdown is displayed:

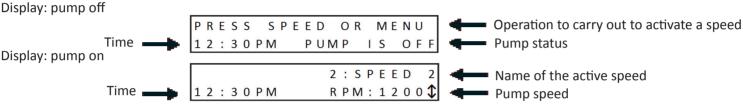




3. Use

3.1 User interface presentation







RPM = rotations per minute

 \updownarrow = indicates that it is possible to increase or lower the speed in steps of 10 using the \frown and \bigcirc keys. If the language displayed on the screen are not appropriate, see §3.4.3.d.

3.2 Checks before starting up

- Check that the hydraulic connections have been correctly tightened.
- Make sure the pump is stable, it must be level and flat.
- The electric cable must be routed away from sharp or hot items that could damage it.
- The plumbing system must be drained and must not contain any debris.
- The pump basket cover must be correctly closed (manually) and its seal must be clean and in place.
- Make sure the valves are open.

WARNING

RISK OF SUCTION ENTRAPMENT HAZARD, WHICH, IF NOT AVOIDED, CAN RESULT IN SERIOUS INJURY OR DEATH. Do not block pump suction, as this can cause severe injury or death. Do not use this pump for wading pools, shallow pools, or spas containing bottom drains, unless the pump is connected to at least two (2) functioning suction outlets. Drain covers must be certified to the latest published edition of ANSI®/ASME® A112.19.8, ANSI/APSP-16, or AS 1926.3

- In order to prevent risk of explosion which can cause property damange and serious injury, including loss of life, ensure that the plumbing system is cleared of any debris or blockages and is not subjected to excess pressures.
- · Never run the pump "dry", as this could risk damaging it.
- The basket cover must be closed manually (do not use tools).

3.3 Start up the appliance

- Start a speed, the pump always starts in "priming" mode (high speed).
- The pump is self priming. However, it is strongly recommended to fill the basket with water before starting up for the first time to facilitate the procedure.
- Purge any air that may be present in the filtering circuit using the purge that is normally on the filter (refer to the pool filter manual).
- The default priming speed is 2750 rpm, the mode runs for 3 minutes.
- To change the speed and/or timing, refer to §3.4.5.c.
- Check that there are no leaks on the hydraulic circuit.



The pump has a priming capacity, at sea level elevation, up to 3 metres above the pool water level (if the hydraulic circuit is perfectly sealed).



3.4 User interface settings and use

The user interface has a battery to keep the time and saved settings in memory when the pump is no longer connected to the electricity supply.

3.4.1 Locking/unlocking the keyboard

Press and of for 5 seconds:

* KEYPAD LOCKED * 12:30PM PUMP IS OFF displays as long as the keyboard is locked. To unlock, press and of for 5 seconds, the message disappears.

3.4.2 Starting or stopping a speed

Speed	Keys to start or stop a speed	Default speed
"eStar"speed		1300 rpm
Speed 2	2	2750 rpm
Speed 3	3	2750 rpm
Speed 4	4	2750 rpm
Speed 5, 6, 7 or 8	MENU then or then MENU to validate	2750 rpm

• When the pump is running it displays 1 2 : 3 0 PM R PM : 1 2 0 0 \$\frac{1}{2}\$ (speed n° and name, time, operating speed), and a led lights over the key corresponding to the speed.

2 : S P E E D

- For speeds 2, 3, 4, 5, 6, 7 and 8, you can modify the default speed by pressing or when the speed is running (from 600 to 3450 rpm). When a modification is made, it is saved automatically.
- To set the default "eStar" speed, please refer to §3.4.5.d.
- To stop the pump, press the key for the current speed (12), 2 or 4, or on MENU (speeds 5, 6, 7 or 8).

3.4.3 User menu

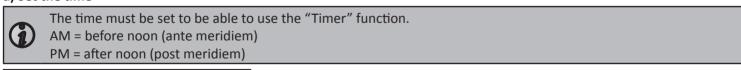
To access the user menu when the pump is stopped, press MENU for 5 seconds:

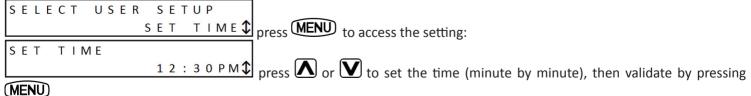
SELECT USER SETUP SET TIME \$

To scroll through the menu, use the \bigcap or \bigvee keys.

To exit the menu, press , or refrain from any action for 1 minute.

a) Set the time







b) Label speeds



Used to associate a name with a pre-programmed speed.

SELECT USER SETUP

LABEL SPEED press MENU to access the setting:

1: FILTRATION \$\Displays \text{ select the speed number you want to label using \infty or \infty, then press \infty

to validate:

SELECT LABEL TYPE GENERAL 1 SELECT LABEL TYPE CUSTOM 1

The "General" setting proposes a list of pre-defined labels: Filtration, Cleaning, Spa, Spa jets, Heating, Waterfall, Sheer descent (= water blade) or water feature.

The "Custom" setting allows to enter labels. To do this, modify the flashing character using the lacktriangle or lacktriangle keys, validate the character and move on to the next by pressing **MENU**.

The key is used to go back to the previous character.

To validate the label, the entire line must be filled, then press MENU to validate.

c) Display lighting



Used to adjust the screen back-lighting.

SELECT USER SETUP

DISPLAY LIGHT \$\press MENU to access the setting:

SELECT DISPLAY LIGHT

2 MIN TIMEOUT Choose the required setting and press MENU to validate:

2 min timeout	Turns off the back lighting after the user interface has been idle for 2 minutes	
Light off	No screen back lighting	
Light on	Screen back lighting always on	

d) Language



Used to choose the interface language.

USER SETUP LANGUAGE

LANGUAGE press MENU to access the setting:

ENGLISH Choose the required language (French, English, Spanish, Deutsch, Nederlands or

Italiano), then press MENU to validate.

e) Run duration



Used to determine how long the speed will run for a manual launch (no Timer), only available for speeds 3 and 4.

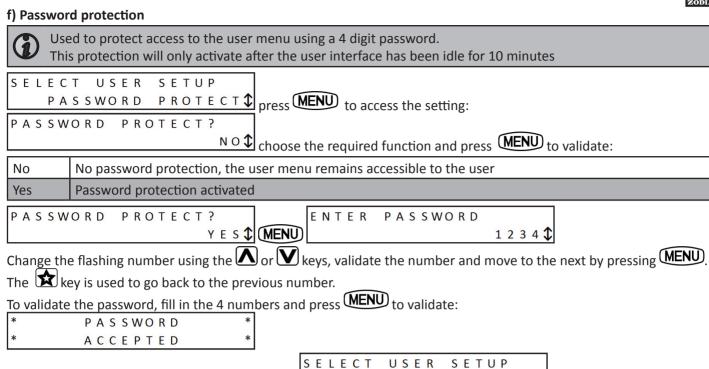
SELECT USER SETUP RUN DURATION \$\press MENU to access the setting: DURATION

4 : C L E A N E R C choose the required speed and press MENU to validate:

0:00 set the operating time using keys \triangle or \bigvee (up to 8 hours in 30 minute steps),

validate by pressing **MENU**.





To deactivate the password, return to the setting PASSWORD PROTECT by pressing MENU to access it:

CHANGE PASSWORD?

choose the required function and press MENU to validate:

No	The password remains unchanged and active	
Clear	Deactivates the password	
Change	Used to modify the password	

3.4.4 Timeclock



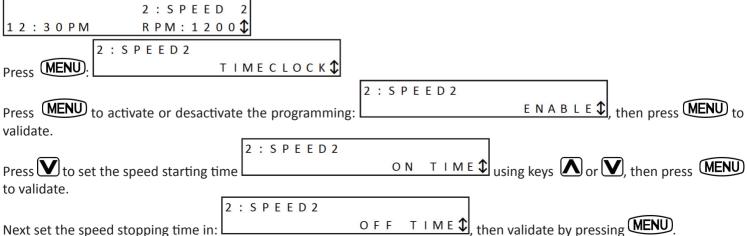
"Timers" (= named "Timeclock", used to programme pump starting and stopping times) can be programmed for speed 2 and "eStar".

The "Timers" operate in the same way every day of the week.

WARNING

In order to prevent the risk of property damage or injury, it's strongly recommended to use "Timers" when the pump is not controlled externally so that the pump does not activate any speeds when power is restored after being interrupted.

To access the "Timeclock" menu, "eStar" or speed 2 must be running (depending on the speed you want to programme):





Press to exit from the menu.

• When the pump is running on a Timer, the led corresponding to the speed lights red and a clock appears on the screen:

(b) 2 : S P E E D 2 1 2 : 3 0 PM R PM : 1 2 0 0 **\$**

- When the pump is not running but a Timer is active, the led corresponding to the speed lights in green.
- 2 Timers can be activated at the same time. The highest speed Timer will have priority.
- The pump can be stopped manually when a Timer is running by pressing the button for the active speed. The Timer will resume its normal activity on the next cycle.
- If the pump is started manually and a Timer is active, it will stop at the end of the programmed Timer.

• To deactivate an active Timer, go to

2 : S P E E D 2

D I S A B L E

, then press

MENU to validate.

3.4.5 Service menu

To enter the service menu the pump must be stopped.

Press MENU, and 4 at the same time for 5 seconds:

SELECT SERVICE SETUP

LOAD DEFAULTS \$

To scroll through the menu, use the \(\bigcirc \) or \(\bigcirc \) keys.

To exit the menu, press , or refrain from al action for 1 minute.

a) Load defaults



Used to reset the factory settings.

Setting	By default	Possible values	
"eStar"speed	1300 rpm		
Speed 2, 3, 4, 5, 6, 7 and 8	2750 rpm	from 600 to 3450 rpm, per 10 rpm step	
Priming speed	2750 rpm		
Anti-freeze protection time	30 minutes	from 0 to 8 hours, per 30 minute step	
Priming time	3 minutes	from 1 to 5 minutes, per 1 minute step	

SELECT SERVICE SETUP

LOAD DEFAULTS

press MENU to access the setting:

NO\$

press or to select "yes", then press MENU to validate, your user interface

will have the factory settings.

b) Last fault

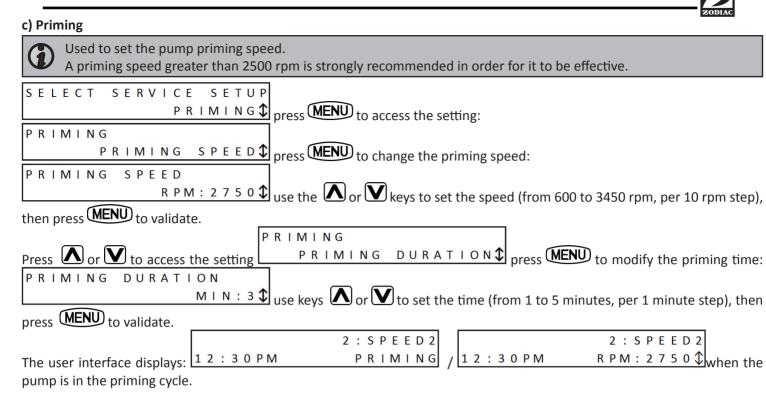
Used to view the 2 last pump faults.

SELECT SERVICE SETUP LAST FAULT press (MENU) to access the setting:

The screen will display the latest error messages. If there are none in memory *-----* will be displayed.

To delete the messages, press or **V**.

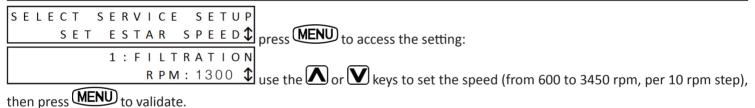




d) Set "eStar"speed



Used to define the pre-set "eStar" speed (by default known as «1: Filtration»).



e) Pump freeze protect



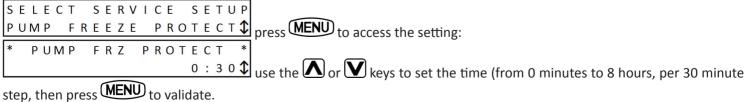
The pump measures the running motor temperature and estimates the water temperature.

It activates the "eStar" speed if the temperature is too low, to protect the pump from freezing. This setting is used to set the anti-freeze cycle time.

WARNING

Freeze protection is intended to protect equipment and plumbing for short periods of freezing only. It does this by activating the filtration pump and circulating the water to prevent freezing inside equipment or plumbing. Freeze protection does not guarantee that equipment will not be damaged by extended periods of freezing temperatures or power outages. In these conditions, the pool should be shut down completely (for example, drained of water and closed for the winter) until warmer weather exists.

The pump must be protected and properly winterized when freezing temperatures are expected. Allowing the pump to freeze will cause severe damage and will void the warranty.



step, then press to validate. To deactivate the function, set the time to "0:00".

f) Pump type



This setting is used to determine the maximum authorised pump speed depending on the selected type. It is recommended not to change this setting to keep optimum pump performances.

SELECT SERVICE SETUP

TYPE\$ press MENU to access the setting:

PUMP TYPE

e P U M P 6 0 H z \updownarrow use the or very keys to select "ePUMP 60Hz" (maximum speed by default = 3450

rpm) or "ePUMP 50Hz" (maximum speed by default = 2850 rpm), then press MENU to validate.

g) Display power usage



You can display the pump's electricity consumption while running (in Watts). This setting is only displayed on the screen when the pump is running.

SELECT SERVICE SETUP

POWER USAGE press MENU to access the setting:

NO \$\tag{\text{wse keys}} \omega \text{or} \text{V} to select "YES" or "NO" then press MENU to validate.

To deactivate the function press "NO".

When the function is active, the user interface alternatively displays: 1 2 : 3 0 PM 2: SPEED2

PWR:

RPM: 10001

h) Set minimum limit

12:30 PM



This is used to limit the pump's minimum operating speed. The user will no longer be able to set the pre-defined speeds 2, 3, 4, 5, 6, 7 and 8 slower than this speed. The default speed is 600 rpm.

SELECT SERVICE SETUP

SET MIN LIMIT press MENU to access the setting:

5 8 W

R PM: 6 0 0 \updownarrow use the or \bigvee keys to set the speed (from 600 to 3450 rpm, per 10 rpm step),

then press MENU to validate.

i) Set maximum limit



This is used to limit the pump's maximum operating speed. The user will no longer be able to set the pre-defined speeds 2, 3, 4, 5, 6, 7 and 8 faster than this speed. The default speed is 3450 rpm.

SELECT SERVICE SETUP SET MAX LIMIT

SET MAX LIMIT press MENU to access the setting:

R PM: 3.4.5.0. use the or \mathbf{V} keys to set the speed (from 600 to 3450 rpm, per 10 rpm step),

then press MENU to validate.



4. Maintenance

4.1 Maintenance instructions

WARNING

It is recommended to carry out general servicing of the appliance on winterizing and restarting in order to check it is in good working order and maintain its performances, as well as to prevent certain possible defects. These actions are the user's responsibility and must be carried out by a qualidied technician.

- Make sure no foreign bodies enter the pump or the electric compartment.
- Clean the outside of the appliance, do not use solvent based products.
- Check that the use interface is in working order.
- Check that metal casing is connected to the ground.
- Check the tightness of the electric wire connections and the cleanliness of the electric control box.
- Clean the basket, the lid and its seal regularly.
- Make sure the basket is correctly fitted, otherwise it could prevent the hermetic closure of the lid.

4.2 Winterizing

A WARNING

Freeze protection is intended to protect equipment and plumbing for short periods of freezing only. It does this by activating the filtration pump and circulating the water to prevent freezing inside equipment or plumbing. Freeze protection does not guarantee that equipment will not be damaged by extended periods of freezing temperatures or power outages. In these conditions, the pool should be shut down completely (for example, drained of water and closed for the winter) until warmer weather exists.

The pump must be protected and properly winterized when freezing temperatures are expected. Allowing the pump to freeze will cause severe damage and will void the warranty. To avoid condensation damaging the appliance, do not cover it hermetically.

- If the pump is located beneath the water level, shut off the isolation valves on the admission and discharge.
- Drain the pump (using the 2 drainage screws) and the hydraulic circuit by following the pool manufacturer's instructions.
- Remove the 2 drainage screws and put them aside to be refitted when the pool is restarted.
- It is recommended to disconnect the electric power cable, and then to unscrew the hydraulic fittings to store the pump in a dry location protected from freezing.



5. Troubleshooting

Malfunction	Possible causes	Solutions
The water is not circulating properly	Dirty basket and/or filterIncorrectly set valves	Clean the basket and/or filterAdjust the valves
There are air bubbles in the basket	 Air is blocked in the circuit The pool water level is too low The pump lid is incorrectly sealed 	 Purge the circuit Check the water level, add water if necessary Check the cover and seal are airtight
There are air intakes	 The fittings are not properly tightened The fitting seals are incorrectly positioned or damaged 	Tighten the fittingsChange the seals
There is no air in the circuit but the pressure is low	There is debris stuck inside the pump	 Remove the debris manually by opening the lid and removing the basket If debris remains, the pump will need to be dismantled to access the impeller Warning: these operations must be carried out by a qualified technician
If there is no debris in the pump but the pressure is low	 The pump impeller and diffuser are worn Electric problem Worn seal 	 Have the impeller and diffuser replaced by a qualified technician Have the electric installation checked by a qualified technician Replace the seal
There is a water leak between the motor and the pump body	The mechanical packing is damaged or defective	 Replace the mechanical packing Warning: these operations must be carried out by a qualified technician
Malfunction	Possible causes	Solutions
The pump heats and sometimes switches off	 Bad air circulation around the motor Bad electric connections Current variations are too high 	 Check that the motor is correctly ventilated for cooling Check the electric connections Have the electric circuit checked by a qualified technician
The pump will not start	 There is no power supply to the pump The user interface cable is damaged The pump address is incorrectly configured The user interface displays an error message 	 Check the electric connections Check the condition of the user interface cable Check the switch configurations (see §2.4.4)
There is nothing on the user interface or the external controller display	 The pump address is incorrectly configured The user interface cable is damaged, or has a loose connection 	 Check the switch configurations (see §2.4.4) Check the condition of the user interface cable
The user interface displays "PUMP NOT CONNECTED"	 The user interface cable is damaged, or has a loose connection The pump address is incorrectly configured 	 Check the condition of the user interface cable Check the switch configurations (see §2.4.4)

6. Registering the product

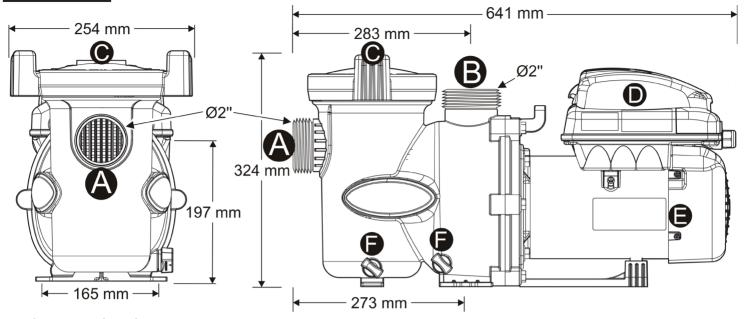
Register your product on our website: **www.zodiac.com.au**

- You will be the first to be informed of new Zodiac® products and special offers,
- You can help us to constantly improve our product quality.





Dimensions



Weight pump only: 17kg

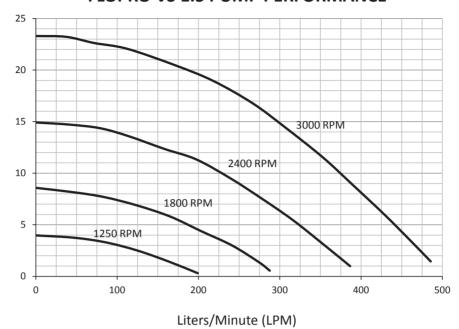
Description

_	
Α	Water admission
В	Water discharge
С	Pre-filter cover
D	User interface
Ε	Pump motor
F	Drain



Performance graphs

FLOPRO VS 1.5 PUMP PERFORMANCE



Hydraulic head (mCE)

Zodiac FloPro Pool Pump Warranty

This Zodiac FloPro Series pool pump was carefully inspected before shipment from our warehouse. Upon unpacking, if any part is missing or found to be defective, please notify your dealer immediately.

Zodiac Group Australia Pty Ltd warrants the FloPro Series pool pump to be free from defects in materials and workmanship for a period of 3 years from date of purchase and 1 year on the mechanical seal for domestic applications. The warranty is applicable to the asia pacific region only.

This limited warranty excludes the following;

- 1) Replacement of parts which fail or become defective as a result of improper installation, negligence, misuse, abuse or tampering by unauthorized personnel.
- 2) Lightning or other acts of nature
- 3) Damage or malfunction of the unit resulting from improper water chemistry balance.
- 4) Scaling, freezing, or other conditions causing inadequate water circulation
- 5) Normal wear and tear
- 6) Inadequate ventilation
- 7) Running the pump dry
- 8) The use of non-factory authorized parts or accessories in conjunction with the product(s)
- 9) Operating the product(s) at water flow rates outside the published minimum and maximum specification.

To obtain warranty replacement or repair, the unit should be returned to the place of purchase. When submitting a claim, always supply serial number, evidence of purchase date, retailer and brief description of the problem/ defects encountered. Zodiac Group Australia Pty Ltd reserves the right to repair or replace all defective or worn parts covered by this warranty, through the place of purchase. Where the purchaser sends the units to the place of purchase by post or courier for repair or replacement, freight is the responsibility of the purchaser.

Zodiac and/or its authorized service centres may seek reimbursement of any costs incurred by them (including labour charges) when the product or relevant part is found to be in good working order or if the warranty claim is invalid.

Zodiac Group Australia Pty Ltd assumes no responsibility for any warranties or representations made by other individuals or businesses beyond the express terms contained in this limited warranty.

The warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty will remain the property of Zodiac Group Australia Pty Ltd.

Commercial Applications

The Zodiac FloPro series pool pump is warranted for a period of 12 months for all parts from the date of the first consumer purchase. Should any parts fail as a result of such defects within the 12 month period, Zodiac will warrant it free of charge. Any associated travel charges are not included.





<u>Notes</u>



<u>Notes</u>

Zodiac Group Australia Pty Ltd

ABN 87 002 641 965, 219 Woodpark Rd, Smithfield NSW 2164, Australia

Ph: 1300 763 021

