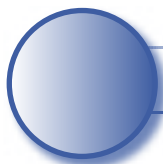


Congratulations on choosing our PRO PLUS semi-automatic water treatment system.

The Zodiac PRO PLUS combines a mineral purifier with a slow-acting chlorine tablet dispenser, thereby relieving the typical constraints of water treatment. From now on, you'll be able to make the most of your pool without any stress.

We recommend you read these instructions carefully before installing your PRO PLUS purification system.



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1

Description of your Pro Plus



List of parts

The following list itemises the contents of your Pro Plus package needed for installation.

Pro Plus system operation

When the pump and filtration system are running, the filtered water passes through the Pro Plus system.

The Pro Plus system combines two technologies:

- **A Pro Plus cartridge that integrates Nature² active mineral ceramic technology for treatment lasting six months.** The ceramic beads in the Pro Plus cartridge have a copper and silver coating. Silver attacks bacteria and viruses, whilst copper has an algicide effect. Silver is released into the pool at a continuous rate over a period of six months to maintain a permanent residual level and ensure perfect pool disinfection. Most of the copper is released when the cartridge is activated. The ceramic beads have the effect of clarifying the water due to their microporosity.

- **A chlorine dispenser, containing up to 10 slow-acting 250-gram chlorine tablets, so your Pro Plus remains effective for approximately 2 months (75 m³ pool).** Once the water has been treated in the Pro Plus cartridge, the chlorine dispenser continuously releases a required amount of chlorine into the pool water to ensure further disinfection and oxidation of bacteria.

Thanks to your Pro Plus system, all you need to do is maintain a chlorine level of 0.5 to 1 ppm (0.5 – 1 mg/litre) to guarantee total and constant pool disinfection, even when temperatures or the number of pool users are high.

Important : It is necessary to check pool water balance regularly to ensure the system runs at maximum performance.

The properties of balanced water:

pH	7 – 7,6 (ideal = 7.2 – 7.4; 6.8 for polyester pools)
Chlorine stabiliser (cyanuric acid)	25 – 75 ppm (25 – 75 mg/L)
TAC (total alkalinity)	8 – 15 °f (80 – 150 ppm)
TH (total hardness)	< 40 °f (< 400 ppm)
Free chlorine	0,5 – 1 ppm (0,5 – 1 mg/L)

2

Conditions of use

Pro G Plus is designed for **in-ground pools** with a volume of 40 to 170 m³ maximum.

CG25 cartridge: 40 to 90 m³
 CG35 cartridge: 90 to 130 m³
 CG45 cartridge: 130 to 170 m³

Pro A Plus is designed for **above-ground pools** and those using flexible hoses with a volume of 20 to 75 m³ maximum.

CA30 cartridge: 20 to 75 m³

The Pro Plus purifier comes with connections for installation using standard pipes:

- For the **Pro G Plus** purifier - connections for gluing to 50-mm diameter pipes.
 NB: The Pro G Plus can be fitted to 63-mm diameter piping using reducers.
- For the **Pro A Plus** purifier – screw connectors for pipes of 38 mm and 32 mm diameter (for 38 mm pipes, the ends will need to be sawn).

Warning! The Pro Plus purifier is not compatible with:

- Bromine and its derivatives.
- Chlorine-free disinfectants of the PHMB ('biguanides') type: Baquacil®, Revacil®, Oxyline®, etc.
- Products containing large quantities of copper (algicides, for example).
- The anti-stain product ALKORPLUS.

Pro Plus can be used safely and effectively with **any type of pool structure and pool surface:**

- Liners and reinforced PVC,
- Reinforced concrete covered with tiles, resin or paint,
- Polyester skins,
- Metal and resin frames.

Pro Plus can be used with **all types of filtration systems** (sand, cartridge or diatomite) and does not affect the way they work.

The Pro Plus purification system **adjusts the quantity of mineral elements released into the water according to the volume of your pool**, thanks to the special properties of the ceramic beads in the cartridge. The water will therefore, be treated equally effectively, whatever the capacity of your pool. **The cartridge will last six months** in any private, residential pool.

The **chlorine dispenser** compartment contains up to 10 slow-acting stabilised chlorine tablets, each of 250 grams, making your Pro Plus **effective for approximately 2 months** for a 75-m³ pool (under normal conditions of use).

3

Preparing for Pro Plus installation

Before installing your Pro Plus, remove any debris and algae from the water and clean the filter (backwash).



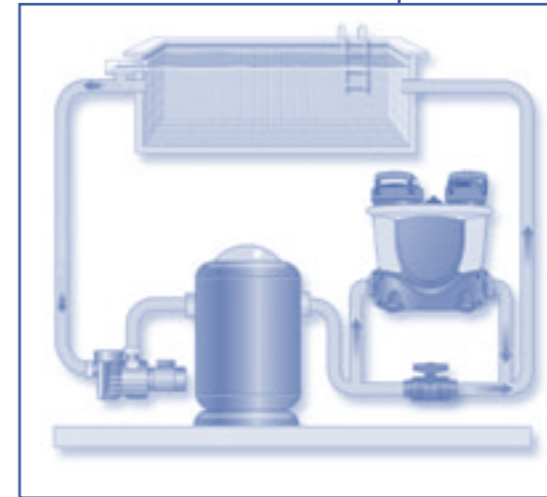
Important ! Make sure the water in your pool is clean and balanced before installing your new cartridge. The pH level should read 7.2 to 7.6, the TH between 10° and 30° (100 to 300 ppm), and Total Alkalinity between 8° and 15° (80 to 150 ppm). For further information on water balance, contact your Nature² dealer.

Normal levels	Problems	Effects	Solutions
PH normal level = between 7.2 and 7.6 (6.8 for polyester pools)	pH too low	-Deterioration of the lining of your pool. -Corrosion of metal parts in the pump and pipework.	Add pH +
	pH too high	-Deterioration of the lining of your pool. -Water turns cloudy. -Deterioration of filtering equipment.	Add pH -
TH normal level = 10° to 30° (100 to 300 ppm)	TH too low	-Water less stable. -Corrosive water.	Add TH +
	TH too high	Scale on the pool sides and bottom and inside the various pieces of equipment.	Add a scale sequestering agent.
TAC normal level = 8° to 15° (80 to 150 ppm)	TAC too low	No buffer effect, resulting in variations in pH, which can damage your pool's lining, as well as the filtration equipment.	Use TAC + (alkalinity corrector).
	TAC too high	-Formation of white deposits on the pool lining. -Sides can become rough and dull-looking. -Water becomes cloudy or whitish.	Add acid to reduce alkalinity.
Stabiliser (cyanuric acid) 20 to 75 ppm	Gradual accumulation in the water of the stabiliser in the tablets.	The effect of the chlorine is inhibited, even though you may get a correct reading.	Replace some of the water with fresh water.

4

Installation

Where's the best place to install the Pro Plus?



- On a hard, stable, horizontal base (ideally, a cement slab).
- In any event, after the filter, on the return pipe.
- Before any appliance that releases chemicals (chlorine dispenser, salt water chlorinator, pH metering pump, etc.).
- Before or after any heating appliance, as preferred.

Connecting the purifier to the filter circuit

To ensure efficient circulation of water in the purifier, installation should be either **in-line** or **on by-pass**, depending on the pump flow rate.

In-line installation

Pro G Plus (in-ground pools) and Pro A Plus (above-ground pools): for a flow of less than 18 m³/hour.

By-pass installation

Pro G Plus (in-ground pools) and Pro A Plus (above-ground pools): for a flow greater than 18 m³/hour. Fit a flow regulation valve onto the by-pass.

To create the by-pass:

1. Fit a T-piece to the return pipe to direct some of the water to the Pro Plus purifier. Then connect the T to the purifier inlet.
2. Fit a control valve onto the main return pipe, after the first T and before the second T.
3. Open all valves completely (including the control valve).
4. Start the pump in order to direct the water through the new pipe. The control valve fitted to the return pipe between the two T-pieces regulates flow in the purifier. Set this control valve so the filter shows a maximum of 0.1 to 0.2 bar (1.5 to 3.0 psi) increase in pressure over the initial pressure shown prior to purifier installation.
5. Check the purifier for leaks and correct or repair any such parts.
6. Refer to the «start-up procedure».

Installing your Pro G Plus purifier



Diagram location	Part
A	Dispenser cap
B	Dispenser cap O-ring
C	Date indicator
D	Dispenser closing handwheel
E	Pro Plus body
F	Chlorinator cap
G	Chlorinator cap o-ring
H	Chlorinator closing handwheel
I	Regulator dial
J	Winter drains
K	Connections for gluing
L	Cartridges CG25 / CG35 / CG45

1. Locate the Inlet and Outlet, marked on the lower section of the purifier.

Warning! There is only one way to connect the Pro Plus – the inlet is marked on the same side as the Pro Plus cartridge, and the outlet is on the same side as the chlorine dispenser.

2. Glue into the inlet and outlet points one of the two connectors supplied and has been designed to fit the 50-mm diameter pipes of the Pro G Plus.

3. Use a standard pipe to connect the filter outlet duct to the purifier inlet and bond with a special adhesive for PVC pipes (by-pass installation if flow exceeds 18 m³/hour).

4. Using the same type of PVC pipe, connect the purifier outlet to the return pipe and bond with a special adhesive.

5. Allow the adhesives to set (total hardening time, as recommended by the manufacturer).

6. Place the caps flat on the top of the purifier.

7. Turn the two closing handwheels clockwise and tighten **without forcing them**.

8. Check that all connections have been completed correctly prior to inserting the cartridge in the purifier and the chlorine tablets in the dispenser.

9. Start the pool pump, ensuring there are no leaks and repairing any you may find. Check the purifier for leaks and correct or repair any such parts.

10. Refer to the «start-up procedure».



Installing your Pro A Plus purifier



Diagram location	Part
A	Dispenser cap
B	Dispenser cap O-ring
C	Date indicator
D	Dispenser closing handwheel
E	Pro Plus body
F	Chlorinator cap
G	Chlorinator cap o-ring
H	Chlorinator closing handwheel
I	Regulator dial
J	Winter drains
K	Screw connectors
L	Cartridge CA30

Items needed prior to starting:

- Stoppers for the return pipe, to prevent the pool from emptying during installation when replacing the cartridge.
- A flexible hose for connection to the filter, of the same diameter as the other pipes and hoses used for the pool's equipment.

1. Wrap Teflon tape around the thread of the pipe adaptors

as follows:

- Hold the adaptor in one hand with the thread towards you.
- Wrap Teflon tape clockwise eight to ten times around the thread.

2. Screw the two pipe adaptors into the lower part of the Pro Plus purifier **by hand**. Using a wrench, tighten fully with an extra half-turn.

3. If your pool is equipped with flexible hoses 38 mm (1 1/2") in diameter, **use a saw to remove the smaller diameter adaptor ends**, designed to fit 32-mm (1 1/4") diameter flexible hoses, to ensure that water flow is not slowed down.

4. Stop the pump and completely isolate the filtering equipment (to prevent the pool from emptying) by plugging up all pipes leading from the pool to the filtering equipment:

- Close all pool inlet valves.
- And/or use the winterising plugs to block the skimmer and all return pipes.

5. Disconnect the filter outlet pipe and connect it to the purifier outlet by fitting the pipe onto the adaptor (if flow is less than 18 m³/hour).

6. Fit a new section of pipe between the filter outlet and the purifier inlet. Use the collars supplied with the spare parts to strengthen the two end joints of this new section of pipe.

7. Place the caps flat on top of the purifier.

8. Remove all safety plugs and open all valves that were used to isolate the filter.

9. Start the pool pump and check for leaks, repairing any you may find.

10. Refer to the «start-up procedure».



5

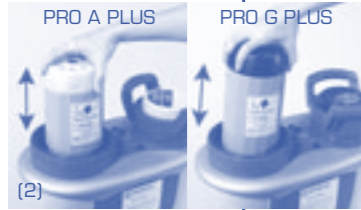
Pro Plus cartridge replacement



The cartridge should be replaced every six months; that is, six months after the last cartridge was installed (whether or not the pool has been used throughout that period).

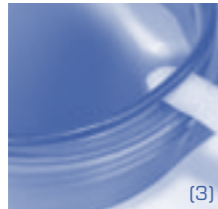
1. Stop the pool pump.

2. Close all valves located between the filter and the pool to prevent the pool from emptying.



3. Unscrew the purifier closing handwheel by turning it anti-clockwise and removing it. (1)

4. Lift and remove the purifier cap. It may be necessary to apply slight lateral pressure to the cap by moving it from side to side to dislodge it from its base. (2)



5. Take out the old cartridge. As it does not contain any hazardous substances, it can be thrown away with household waste. (2)

6. Check that the cap's O-ring is sitting correctly in the groove designed for that purpose at the base of the cap. (3)

7. Place the new cartridge in the purifier by inserting the two lugs inside the purifier base into the two openings at the base of the cartridge. (4)

8. Set the date indicator (located on the cartridge cap) to the month of installation, so that you will know when to replace the cartridge. (5)

9. Replace the purifier cap, close the handwheel and tighten clockwise **without forcing.**

10. Open all valves that were closed in order to isolate the purifier.

11. Start the pump again and check for leaks.

12. Refer to the start-up instructions.



6

Chlorine tablet replacement

Principle : Your chlorine dispenser is capable of storing a supply of slow-acting chlorine tablets. Pool water circulates in the compartment and picks up chlorine before returning to the pool. It is possible to store up to 10 slow-acting chlorine tablets of 250 grams each, making your Pro Plus treatment effective for approximately two months (for a 75 m³ pool).

Instructions for use: This chlorine dispenser has been designed to fit onto the return pipe, near the filter system.

Before running the chemical dispenser, the pool should have a residual chlorine level of 0.5 to 1 ppm.

The need for pool chemicals depends on how much use is made of the pool, on the sun and on the water temperature. For this purpose, a dial for regulating the pool's chlorination rate is located on the top of the purifier body,



between the two caps. It has 10 different settings to obtain the necessary concentration of active chlorine. To begin with, you will need to find the dial position yourself so as to adjust the necessary chlorination rate.

Check the active chlorine content of your pool from time to time.



WARNING: please read carefully

A number of precautions need to be taken when loading the compartment:

1. The Pro Plus chlorine dispenser has been designed for use with slow-acting "Trichloro-S-Triazinetrione" (trichloroisocyanuric acid) tablets only. To avoid the risk of fire or explosion, NEVER use these chlorine tablets in combination with other types of chlorine or with other chemicals.

Important! The use of any other product is strictly prohibited.

2. NEVER use several different types of product together in the appliance (algicides, shock treatment, etc.) - contact with chlorine may cause a dangerous chemical reaction.

3. Stop the pump and close all valves before opening the chlorine dispenser.

4. If the cover leaks, check the seal of the O-ring on the cap.

5. If there is a return valve, make sure it remains open (except when opening the appliance), this will prevent an accumulation of gas in the system.

6. When filling the dispenser with new chlorine tablets, **we strongly advise you to avoid breathing in any chemical fumes escaping from the appliance.** Make sure **your eyes, skin and clothing are protected and do not come into contact with any chemicals.**

7. Never use a petroleum-based product to lubricate joints.

To insert chlorine tablets:

1. Stop the pool pump.

2. Close all valves located between the filter and the pool to prevent the pool from emptying.

3. Unscrew the dispenser closing handwheel by turning it anti-clockwise and removing it. (1)

Warning! Do not breathe in the fumes escaping from the appliance.

4. Lift up and remove the dispenser cap. It may be necessary to apply slight lateral pressure to the cap by moving it from side to side to dislodge it from its base.

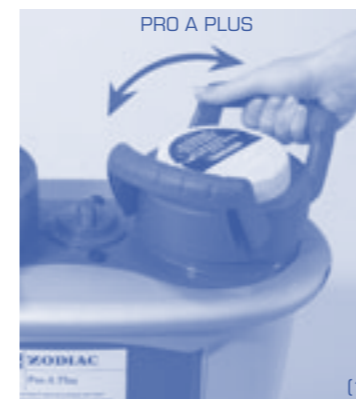
5. Insert the required number of slow-acting chlorine tablets (Tri-Chloro type) into the dispenser.

6. Put the dispenser cap and closing handwheel back on and tighten clockwise without forcing. If need be, turn the dial to adjust the chlorination rate. (2)

7. Open all valves that were closed to isolate the Pro Plus.

8. Turn the pool pump back on and check for leaks.

9. See Start-up instructions.



7

Start-up



- 1. Important :** To activate the Nature² Pro Plus cartridge, shock chlorinate after inserting the cartridge (using the quantities indicated on the chlorine tablet container in order to obtain a chlorine concentration of around 4 mg/L or 4 ppm).
2. Start the pool pump and filtration system and leave them running 24 hours a day for three or four days, or 6 hours a day for 14 days.
3. Keep the free chlorine level at 1 to 2 ppm during the activation period (4 or 14 days).
4. Following the activation period, allow the chlorine level to drop back down to 0.5 ppm (regular treatment). Keep the chlorine level at 0.5 to 1 ppm by means of the regulator dial (10 positions).

Important note :

This start-up procedure should be carried out when the appliance is installed and each time a new Nature² Pro Plus cartridge is fitted.

8

Winterising



If you intend winterising your pool, we recommend you carry out the following operations to prepare the Pro Plus for winter:

1. **Remove the Pro Plus cartridge and discard it** (ordinary waste bin, free of toxic products).
2. **Carefully remove any remaining chlorine tablets.**
3. **Remove and store the two winter drains safely and empty the dispenser.**
4. **Wash the Pro Plus thoroughly in water.**
5. **Keep the closing handwheels slightly loose.**

When preparing for the following swimming season and to ensure excellent water quality from the first use:

1. **Put the two winter drains back in place.**
2. **Prepare your pool** as usual.
3. Once the water has been balanced, **insert a new Pro Plus cartridge and chlorine tablets,** and follow the Pro Plus **Start-up** instructions.

9

Troubleshooting

	Problem	You notice	Solution
CLOUDY WATER	Defective filtration	Low flow in the filter.	1. Clean the filter (backwash) and, if need be, replace the filtering medium (sand, etc.). 2. Run the filtration system for 24 hours. 3. Increase the daily filtering period.
	Algae growth	Cloudy water with a greenish tinge.	Carry out a shock chlorination treatment and brush the sides of the pool.
	Badly balanced water	1. Water too hard. 2. Alkalinity too high. 3. pH too high. 4. TDS (total dissolved solids) too high.	Balance the pool water.
ALGAE	Green algae	1. Insufficient or inactive oxidants. 2. Water circulation inadequate.	1. Check and adjust the pH level. 2. Carry out a shock chlorination treatment. 3. Brush the pool sides, if necessary. 4. Check the stabiliser level (using the special analysis kit). Drain off some of the water, if necessary.
	Black or mustard algae	1. Insufficient or inactive oxidants. 2. Water circulation inadequate.	1. Brush affected areas. 2. Carry out a shock chlorination treatment, then add some algicide. 3. Brush and vacuum until completely removed.
STAINS	Blue/green Red/Brown Black	Copper or iron as the result of corrosion of equipment or of the water used to fill the pool.	1. Adjust pH and alkalinity to within recommended levels. 2. Brush stained areas well. 3. Add a metal sequestering agent and run the filter system. 4. After 12 hours, carry out a shock chlorination treatment.
	Metal parts dull	1. High mineral content in the water used to fill the pool. 2. Incorrect water balance.	1. Clean with a cloth and mild detergent. 2. Test the water for its various mineral contents and use a sequestering agent, if necessary. 3. Keep the water correctly balanced.
DEPOSITS	Lime deposits on inner surfaces	pH or alkalinity too high.	Adjust the pH or alkalinity to within recommended levels.
		Total dissolved solids (TDS) too high.	1. Replace some of the water with fresh water. 2. If the water is too hard, use a product to reduce scale formation.
FILTER EQUIPMENT	No flow through the purifier	Filter dirty (pressure at least 0.5 bar higher than normal).	Clean the filter (backwash).
		Baskets full.	Remove all leaves and debris from the baskets, especially when it has rained or after windy weather.
	The purifier leaks	O-rings missing or incorrectly positioned.	Check that O-rings are correctly lodged in their groove.
Faulty pipework.		Find the source of the leak in the pipework.	

A/ Conditions

All our technical experience and concern for quality have been used in the manufacture of our equipment, which is subject to stringent quality control tests.

Our models are regularly updated and improved to make the most of technological advances. It is understood that these improvements cannot be added to previous models within the context of our guarantee.

If, in spite of all the care and expertise used in the manufacture of our products, you were to have need of the guarantee, you should be aware that it only applies to the free replacement of faulty parts. Transport and labour costs remain your (the consumers') responsibility.

B/ Period of guarantee

The body of your PRO PLUS purifier is covered by an unconditional guarantee: whatever the causes of its deterioration, it will be repaired or exchanged within a period of 36 months following your purchase.

C/ Guarantee exclusions

Since the Pro Plus cartridge is a consumable item (6 months' life), it is only covered against manufacturing faults detected at the time of installation. It is understood that chlorine tablets are not covered by the guarantee, as they are chemical consumable items that are not manufactured by Zodiac Pool Care Europe.

Zodiac Pool Care Europe can in no way be held responsible for deterioration of the Pro Plus system due to the use of unsuitable chemicals.

D/ Subject of the Guarantee

This appliance has been designed specifically for the European, North African, Near and Middle Eastern markets and may not be sold outside those areas. Moreover, this appliance is not covered by guarantee outside Europe.

During the aforementioned guarantee period, any part acknowledged to be faulty will be repaired or exchanged by the manufacturer with a part that is new or in correct working order.

In all events, transport and labour costs shall remain the responsibility of the user. In the event of a return to the workshop, return transport costs shall be the responsibility of the user, whilst labour costs shall remain the responsibility of the manufacturer. Any downtime and loss of use of an appliance in the event of a repair shall not give any entitlement to compensation. Whatever the circumstances, the statutory guarantee shall continue to apply by virtue of Article 4 of Decree No. 78-464 dated 24th March 1978. The statutory guarantee of article 1641 of the civil code remains applicable.

E/ Transport damage

Appliances always travel at the user's own risk. Before taking delivery of the appliance, the user should check that it is in perfect condition and, if necessary, express any reservations on the haulage contractor's delivery slip. Zodiac Pool Care Europe cannot be held liable in this respect.

F/ Applicable laws and disputes

This guarantee is governed by French law and by any European directives or international treaties that are applicable in France and in force at the time of any claim. In the event of a disagreement in relation to its interpretation or fulfilment, power of jurisdiction shall be assigned solely to the law courts of France.