

BARACUDA®

THE TRUSTED NAME IN POOL CARE

IE2

HIGH EFFICIENCY
ELECTRICAL
MOTOR



titan2ss

Swimming Pool Pump

Installation & Operating Instructions



Thank you for choosing a Baracuda product.

This product has been manufactured using modern production methods and extensive quality assurance procedures, because our goal is to ensure that you, the customer, are satisfied with our products.

Fluidra is continually striving to further develop and improve its range of products; we therefore reserve the right to make alterations to the form, technical specifications and equipment level of our standard equipment. The information in this manual is therefore subject to change.



DECLARATION OF CONFORMITY

This product range conforms to the relevant Compulsory Specifications.

IMPORTANT SAFETY INSTRUCTIONS



Warning: Please make sure you observe the following safety instructions. Failure to observe the safety instructions may result in fatal injury.



Please read this instruction manual before using the product for the first time and keep in a safe place for future reference.

- In order to provide a hassle-free experience, we recommend the use of a qualified technician to complete the installations of our products, and to ensure that the installation complies with all relevant regulations.
- Please note - the electrical connection should be completed by a certified electrician (any non-compliance will result in the warranty being voided).
 - Installations must conform to SANS 10142 and all relevant local by-laws.
 - The pump must be supplied through a residual current device (RCD) with a rated residual operating current not exceeding 30mA in accordance with IEC 60335-2-41.
 - Do not modify the terminal lid and/or box of the pump.
 - The motor is initially supplied with an electrical cable which may be used for testing purposes only (please follow the guidelines in SANS 10142 for installation).
- The pump must be installed in a weatherproof, well ventilated enclosure.
- Allow sufficient space around the pump for ventilation and do not obstruct the motor fan.
- It is imperative that you do not store pool chemicals in this enclosure.
- The pump motor's Ingress Protection (IP) rating is indicated on the information plate situated on the pump. Please note - the pump is not submersible.
- Never run the pump dry, i.e. without water in the pre-filter.
- This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are under supervision or instruction concerning use of the product by a person responsible for their safety.
- Children should be supervised, at all times to ensure they do not play with or near the product.
- Only a qualified person/s, should perform repairs and/or maintenance work on the pump and motor, including any cabling work to the motor.

WARNINGS

- Failure to respect the warnings may cause serious damage to the pool equipment or cause serious injury, even death.
- The appliance is intended to be used only for swimming pools and spas; it must not be used for any purpose other than that for which it has been designed.
- It is important that the appliance is operated by people who are competent and qualified (both physically and mentally), after having read the instructions for use. All persons not meeting these criteria must not approach the appliance in order to avoid exposure to dangerous elements.
- Keep the appliance out of the reach of children.
- The appliance must be installed according to the manufacturer's instructions and in compliance with local standards. The installer is responsible for installing the appliance and for compliance with national installation regulations. Under no circumstances may the manufacturer be held liable in the event of failure to comply with applicable local installation standards, see also INSTALLATION.
- Incorrect installation and/or use may cause serious damage to property or serious injuries (possibly causing death).
- If the appliance suffers a malfunction, do not try to repair the appliance yourself. Instead contact a qualified technician for service.
- Refer to the warranty conditions for details of the permitted water balance values for operating the appliance.
- Defeating, eliminating or shunting any of the safety that may be a part of the device automatically voids the warranty, as does the use of unauthorized, third party replacement parts.
- Do not spray insecticide or any other chemical (flammable or non-flammable) in the direction of the appliance, as this may damage the body and cause a fire.

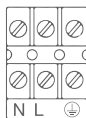
- The power supply to the appliance must be protected by a dedicated 30 mA residual current device, complying with the standards and regulations in force in the country in which it is installed.
- Before carrying out any operations, check that:
 - The voltage indicated on the appliance information plate corresponds to the mains voltage,
 - The power grid is adapted to the power requirements of the appliance, and is properly grounded.
 - In the event of abnormal operation or the release of odours from the appliance, turn it off immediately, unplug it from its power supply and contact a professional.
- Before any access to the appliance for any required service or maintenance, ensure that it is switched off and disconnected from the power supply.
- Do not disconnect and reconnect the appliance to the power supply when in operation.
- Do not attempt to carry out any service or maintenance with wet hands or while the appliance is wet.
- For any component or sub-assembly containing a battery: do not re-charge or dismantle the battery, or throw it into a fire. Do not expose it to high temperatures or direct sunlight.
- In stormy weather, switch off power supply to the appliance to prevent it from suffering lightning damage.
- Do not immerse the appliance in water or mud.
- This appliance is compatible with all types of water treatment used in swimming pools. Refer to the Baracuda® warranty conditions for details of the permitted water balance values.
- Never run the pump dry or without water as this will void the warranty.

INSTALLATION

- Position the pump on a firm, flat, level surface that is not exposed to flooding.
- A minimum of 50mm PVC pipe to be used on the suction and return lines.
- If solvent weld is used in the installation, allow 24 hours to dry, before running the pump for the first time.
- **A certified electrician must do the electrical connection in accordance with SANS 10142:**
 - The voltage of the mains supply to the pool distribution board must correspond to the indicated voltage of the product.
 - Follow all other guidelines in SANS 10142 for installation.
 - Ensure that there is no strain on the electrical cable.

CONNECTING THE MOTOR'S POWER SUPPLY

230 Vac - 50 Hz power supply= connection to the  (earth) and N-L terminals.



Close the electrical connection box, making sure that the seal is in place and tighten the cover screws.

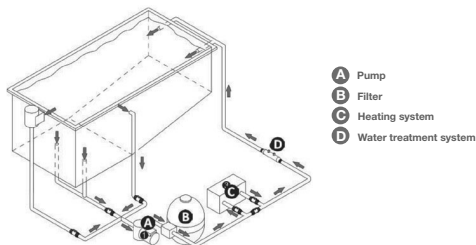
- Before starting the motor for the first time or after the pump has been drained, open the lid of the pump leaf basket and add water to fill the basket.
- Replace the lid and tighten by hand, ensuring that the lid O-ring / gasket is fitted correctly on the pump body.
- Do not over tighten the pump lid retainer(s).
- Weekly pool maintenance is required. It is important that the weir/skimmer baskets and/or any leaves or debris are removed from the pump basket before backwashing.
- The backwash and rinse procedure must be done, as a minimum, every week to maintain water clarity and ensure adequate filtration of your pool.

HYDRAULIC CONNECTIONS

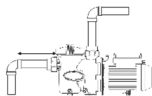


Respect the direction of hydraulic connection. (See page image.)

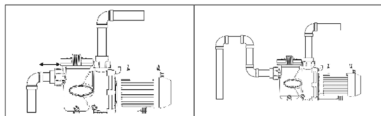
- Choose the dimension of the pipes according to the size of the pool and respecting the hydraulic rules which apply in the country of installation.
- For hydraulic connections, use either of the provided unions and the respective 50/63mm reducer to the respective pipe diameter.
Fit a check valve if the filter is installed above the water level.
- Fit suction and discharge isolation valves if the pump is installed below the water level.
- To help prevent difficulty in priming, install the suction pipe without high points, which can trap air.
- Check that the hydraulic connections are correctly tightened and that there are no leaks.
- The pipes must be supported to prevent any risk of breakage due to the weight of the water.



Use as few elbow joints as possible. If there needs to be more than 10 elbow joints on the hydraulic circuit, increase the pipe diameter.



- Suction pipe length = 4 x (2)



- Suction pipe too short
- Risk of cavitation
- Air retention
- Risk of incorrect pre- filter filling

ELECTRICAL INSTALLATION

A separate time clock or saltwater chlorinator with a timer is recommended to control the On/Off functions.

OPERATION, MAINTENANCE & CARE



- **Switch the pump off before doing any maintenance, cleaning or other work.**
- **Only perform maintenance/care work that is mentioned in the instruction manual.**

- All other work must be performed by a qualified person.
- In the interest of safety and reliability, only use genuine Baracuda spare parts, in the event that pirate spare parts are used, the warranty will become null and void.
- Never run the pump dry, i.e. without water in pump wet end, as this will damage the pump.
- It is important to clean the pump leaf basket regularly.
- Clean plastic parts with a damp cloth. Cleaning agents can cause damage to the plastic parts.
- Do not spray down the electrical components with water.

- The pump is equipped with a thermal overload protection. If overload occurs during operation, the built in overload protection automatically deactivates the pump. The pump will switch on automatically after a cooling period of approximately 20 (twenty) minutes. Ensure the cause of the overload is identified and addressed . If the pump remains on a continuous locked situation causing thermal overload, the motor may eventually damage and burn out.
- Note that certain parts are subject to normal wear and tear, even when used properly and must be replaced in due time, depending on type and duration of use.

These include but are not limited to:

- Impeller
- Shaft Seal
- Motor Bearings
- Pump lid and O-ring
- Pump basket
- Diffuser
- All work listed in this manual must be performed regularly. If this maintenance work cannot be performed by the end-user, an authorised person must be commissioned to perform this work. If these operations are neglected, faults may arise which are the responsibility of the user.

These include:

- Damage to the motor, due to untimely or inadequate maintenance or cleaning of the cooling fan cover
- Corrosive or other damage caused by incorrect storage of chemicals in pump enclosure
- Damage due to the use of spare parts which are not original Baracuda parts
- Damage due to maintenance and repair work not carried out by qualified technicians
- To avoid personal injury do not have the pool pump running whilst there are people in the pool/spa.

SERVICE & REPAIR PARTS

Refer all service to your local agent or dealer as their knowledge of your equipment makes them the best qualified source of information.

Order all repair parts through your dealer.

Give the following information when ordering repair parts:

1. Unit nameplate data or serial number on label.
2. Description of part.

TROUBLESHOOTING

MOTOR DOES NOT START

1. Disconnect switch or circuit breaker in off position
2. Fuses blown or thermal overload open
3. Locked motor shaft
4. Motor windings burned out
5. Defective starting switch inside single phase motor
6. Disconnected or defective wiring
7. Low voltage

PUMP DOES NOT REACH FULL SPEED

1. Low voltage
2. Pump connected for wrong voltage

MOTOR OVERHEATS (protector trips)

1. Low voltage
2. Motor windings connected for wrong voltage on dual voltage model
3. Inadequate ventilation

PUMP DELIVERS NO WATER

1. Pump is not primed
2. Closed valve in suction or discharge line
3. Leakage or air into suction system
4. Impeller clogged

LEAKAGE OF WATER AT SHAFT

1. Shaft seal requires replacement

LOW PUMP CAPACITY

1. Valve in suction or discharge line partly closed
2. Suction or discharge line partly plugged
3. Suction or discharge line too small
4. Plugged basket in skimmer or hair and lint strainer
5. Dirty filter
6. Impeller clogged

HIGH PUMP PRESSURE

1. Discharge valve or inlet fittings closed too much
2. Return lines too small
3. Dirty filters

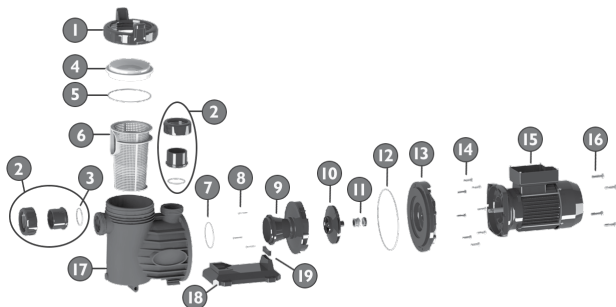
NOISY PUMP AND MOTOR

1. Plugged basket in skimmer or hair in lint strainer
2. Worn motor bearings
3. Valve in suction line partly closed
4. Suction line partly plugged
5. Vacuum hose plugged or too small
6. Pump not supported properly

AIR BUBBLES AT INLET FITTINGS

1. Leakage of air into suction line at connections or valve stem
2. Cover gasket of hair and lint strainer needs cleaning
3. Low water level in pool

PUMP PARTS



*Codes may change

NO	COMPONENT PART NO.	DESCRIPTION	QTY
1	500-6413	TITAN 2 PUMP LID LOCK RING	1
2a	110-5170	TITAN 2 PUMP UNION COMPLETE 50mm	2
2b	110-5171	TITAN 2 PUMP UNION COMPLETE 63mm	2
3	110-5123	TITAN 2 PUMP UNION O'RING	2
4	500-6412	TITAN 2 PUMP LID	1
5	500-6414	TITAN 2 PUMP LID O'RING	1
6	500-6031	TITAN 2 PUMP BASKET	1
7	500-6326	TITAN 2 PUMP DIFFUSER O'RING	1
8	500-6053	TITAN 2 DIFFUSER SCREW M4X25	3
9	500-6322	TITAN 2 PUMP DIFFUSER	1
10a	500-6438	TITAN 2 PUMP IMPELLER WITH INSERT 0.37Kw	1
10b	500-6331	TITAN 2 PUMP IMPELLER WITH INSERT 0.55Kw	1
10c	500-6335	TITAN 2 PUMP IMPELLER WITH INSERT 0.75Kw	1
10d	500-6402	TITAN 2 PUMP IMPELLER WITH INSERT 1.1Kw	1
11	500-6165	TITAN 2 PUMP SHAFT SEAL 3/4"	1
12	500-6062	TITAN 2 PUMP FLANGE O'RING	1
13	500-6321	TITAN 2 PUMP SEAL PLATE	1
14	500-6325	TITAN 2 FLANGE BOLT SS M6X40	8
15a	500-0051	TITAN 2 BARESHAFT MOTOR 0.37Kw 240V	1
15b	500-1063	TITAN 2 BARESHAFT MOTOR 0.55Kw 240V	1
15c	500-2067	TITAN 2 BARESHAFT MOTOR 0.75Kw 240V	1
15d	500-3067	TITAN 2 BARESHAFT MOTOR 1.1Kw 240V	1
16	500-6327	TITAN 2 FLANGE BOLT SS M8X30	4
17	500-6409	TITAN 2 PUMP BODY	1
18	500-6398	TITAN 2 PUMP FOOT PIECE	1
19	500-6213	TITAN 2 WEDGE 1HP	1

FLUIDRA

Please fill out all your details to ensure your warranty is registered.

Name & Surname:

Physical Address:

Landline:

Mobile:

Email:

Product:

Model:

Store purchased at:

Serial No:

Date of purchase:

Date Installed:

Signature:

Fluidra would like to communicate with you in order to provide you, our valued customer, with up to the minute water-related news - together with our latest products. Please indicate below if you would like us to keep in touch.

May Fluidra communicate with you?

Please tick the appropriate box

YES

NO

Preferred method of communication?

Please tick the appropriate box

Email

SMS

Telephone

Thank you for completing your warranty registration.

To serve you better, Fluidra will send you information on products, current swimming pool legislations and special offers.

SCAN ME



EXCEPTIONAL AFTER SALES SUPPORT

Scan the QR Code to get more information on the full range of Baracuda products and to register your warranty.

Happy Swimming!

For more information visit:
www.baracuda.co.za or call 086 088 7665

Dealer / Store Stamp

**DEVELOPED, TESTED AND MADE
IN SOUTH AFRICA**

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