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Aquagem IA23

Aquagem Inverstar IA23 Variable Speed Pool Pump User Manual

Model: IA23

1. INTRODUCTION

Thank you for choosing the Aquagem Inverstar IA23 Variable Speed Pool Pump. This pump utilizes advanced INVERTER technology to provide precise control over motor speed, offering significant energy savings, quieter operation, and extended product lifespan compared to traditional single-speed pumps. This manual provides essential information for the safe installation, operation, and maintenance of your pump. Please read it thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Failure to follow these instructions can result in serious injury or death.

- Always disconnect power to the pump before performing any service or maintenance.
- Installation must be performed by a qualified electrician and plumber in accordance with all local and national codes.
- Ensure the pump is installed on a solid, level surface, protected from excessive moisture and direct sunlight.
- Do not operate the pump if it is damaged or if any electrical components are exposed.
- Keep children and pets away from the pump during operation.
- Never run the pump dry. Ensure the pump is primed with water before starting.
- Use only original replacement parts.

3. PACKAGE CONTENTS

Please check the contents of your package. If any items are missing or damaged, contact your supplier immediately.

- Aquagem Inverstar IA23 Variable Speed Pool Pump
- User Manual (this document)
- Connection fittings (typically 2" / 63mm)
- Warranty Card

4. SETUP AND INSTALLATION

4.1. Placement

Position the pump as close to the pool as possible to minimize friction loss from plumbing. Ensure adequate ventilation around the pump for cooling. The pump should be installed below water level for optimal priming, or in a location that allows for easy manual priming.

4.2. Plumbing Connections

Connect the pool plumbing to the pump's inlet and outlet ports. The pump is designed for 2" / 63mm connections. Use appropriate PVC cement and primer for secure, leak-free joints. Ensure all connections are tight to prevent air leaks, which can affect pump performance and priming.

4.3. Electrical Connection

The Aquagem Inverstar IA23 pump is a single-phase unit and requires a dedicated electrical circuit. Connect the pump to a properly grounded power supply via an electrical cable, ensuring all wiring complies with local electrical codes. A Residual Current Device (RCD) or Ground Fault Circuit Interrupter (GFCI) is highly recommended for safety.

4.4. Priming the Pump

Before initial startup, the pump must be primed. Open the strainer basket lid, fill the basket with water until it overflows, then securely replace the lid. Ensure all valves leading to and from the pump are open. Once primed, the pump is ready for operation.



Figure 1: Aquagem Inverstar IA23 Variable Speed Pool Pump. This image shows the compact design of the pump, including its motor, wet end, and control panel. The inlet and outlet ports are visible, ready for plumbing connections.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

To power on the pump, ensure it is properly connected to the electrical supply and the main power switch is engaged. The pump's control panel will illuminate. To power off, use the designated power button on the control panel or disconnect the main power supply.

5.2. Adjusting Flow and Speed

The Inverstar IA23 pump allows for precise adjustment of motor speed and flow rate thanks to its INVERTER technology. Use the control panel to select desired operating speeds or pre-set programs. For daily filtration, a lower speed can be selected for quiet and energy-efficient operation. The pump can operate at 100% capacity for tasks requiring maximum flow.

5.3. Backwash Function

The pump features a convenient one-button backwash function. When performing a backwash on your filter, activate this function to temporarily run the pump at full capacity, ensuring effective cleaning of the filter media. Refer to your filter's manual for specific backwash procedures.

5.4. Current Consumption Display

The control panel displays the current electrical consumption, allowing you to monitor energy usage in real-time. This feature helps in optimizing pump speed for energy efficiency.

5.5. External Control (Modbus RS485)

For advanced integration with pool automation systems, the pump supports external control via Modbus RS485. Consult a qualified technician for setup and configuration of this feature.

6. MAINTENANCE

6.1. Strainer Basket Cleaning

Regularly inspect and clean the pump's strainer basket. Turn off the pump and close all necessary valves before opening the basket lid. Remove debris, rinse the basket, and replace it securely. A clogged basket can reduce pump efficiency and lead to damage.

6.2. Winterization

In regions with freezing temperatures, proper winterization is crucial. Drain all water from the pump and plumbing lines to prevent freeze damage. Store the pump in a dry, protected area if possible, or cover it adequately if left outdoors.

7. TROUBLESHOOTING

Before contacting customer support, please refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Pump does not start	No power; tripped breaker/GFCI; motor overload.	Check power supply, reset breaker/GFCI, allow motor to cool.
Low water flow	Clogged strainer basket; air leak in suction line; clogged filter.	Clean strainer basket, check for air leaks, backwash/clean filter.
Pump is noisy	Air leak; cavitation (running dry); foreign object in impeller.	Check for air leaks, ensure pump is primed, inspect impeller (with power off).
Pump loses prime	Air leak in suction line; low water level in pool.	Check all suction side connections, ensure adequate pool water level.

8. SPECIFICATIONS

Feature	Detail
Brand	Aquagem
Model Number	IA23
Power Source	Electric Cable (Single-phase)
Technology	INVERTER Variable Speed
Nominal Power	1.1 KW
Max Flow Rate	26 m ³ /h
Connection Dimensions	2" / 63 mm
External Control	Modbus RS485

9. WARRANTY AND SUPPORT

The Aquagem Inverstar IA23 Variable Speed Pool Pump comes with a **2-year warranty**. The motor specifically is covered by a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects under normal use and service.

For warranty claims, technical support, or inquiries, please contact your authorized Aquagem dealer or visit the official Aquagem website for contact information. Please have your proof of purchase and model number (IA23) ready when contacting support.