WATER HOUSE®
Pumps & Garden

VSD DRIVE CONTROLLER

0.37–2.2 kW pump range

Water-cooled variable speed inverter

Automatic constant-pressure pump control

INSTRUCTION MANUAL

Read before installation and retain for reference.

WELCOME

Introduction & specifications

Thank you for choosing the Waterhouse VSD Drive Controller. The controller adjusts the speed of a compatible pump motor to help maintain a set water pressure as demand changes.

Technical specifications

Product type	Variable speed drive pump controller
Cooling technology	Water-cooled inverter
Compatible pump power	0.37–2.2 kW (product specifications)
Pump voltage	220 V (compatible motors)
Control method	Variable motor speed / constant pressure
Starting and stopping	Soft start / soft stop
Solar use	Suitable with compatible inverter supply
Supplied equipment	Controller only; pump not included

CHECK MOTOR COMPATIBILITY

The product title mentions 0.75–2.2 kW, while the specifications mention 0.37–2.2 kW. Confirm motor power, voltage, phase, rated current and controller model with Waterhouse before installation.

IMPORTANT

Safety instructions

1. Electrical installation and configuration must be carried out by a suitably qualified person in accordance with applicable regulations.
2. Isolate the power supply and verify that the equipment is safe before opening, connecting or servicing any electrical equipment.
3. Confirm the supply, motor phase, motor current and controller ratings before connection. Do not assume all 220 V motors are compatible.
4. Do not operate with damaged wiring, exposed terminals, water leaks or signs of overheating.
5. Use appropriate electrical protection, earthing and isolation for the complete installation.
6. Keep the controller within its manufacturer-specified environmental and operating limits.
7. Never bypass motor or system protection functions. Follow the pump manufacturer’s instructions.

WARNING – HIGH VOLTAGE

A variable speed drive contains hazardous electrical components. Stored energy may remain after disconnection. Follow the manufacturer’s specified isolation and discharge procedure before access.

SET-UP

Installation considerations

The following is a pre-installation checklist, not a terminal wiring or commissioning procedure. A verified manufacturer diagram and parameter guide were not available on the product listing.

1 Verify the pump

Check rated motor power, voltage, phase and full-load current against the exact controller label.

2 Check the system

Confirm plumbing, pressure sensing, water supply, isolation valves and protection are appropriate for variable-speed operation.

3 Confirm the electrical supply

Use the correct supply and protective devices. Solar operation requires a suitably designed inverter and power system; the controller does not connect directly to a solar panel.

4 Commission professionally

Have a qualified installer verify connections, set the desired pressure, configure motor parameters and test safe starting, stopping and fault responses.

INSTALLATION DOCUMENTATION REQUIRED

Terminal designations, wiring diagrams, pressure-setting controls, parameter values and fault-reset procedures must be obtained for the exact controller before commissioning.

IN USE

Operation & care

Automatic pressure control

When a tap opens, demand changes and the controller adjusts motor speed to help maintain the target pressure. As demand falls, motor speed can decrease; when water use stops, the controller can bring the pump to a controlled stop.

Soft start and stop

Motor speed changes gradually, helping reduce sudden pressure changes and mechanical stress in compatible systems.

Energy consumption

Energy savings depend on pump selection, the pressure setting, water demand and actual operating conditions.

Routine inspection

Keep the installation clean and inspect for leaks, abnormal noise, overheating and fault indications. Have any faults investigated by a qualified technician.

DO NOT GUESS CONTROLLER SETTINGS

Display symbols, fault codes, motor parameters and reset sequences vary between controllers. Refer to the original manufacturer’s documentation for the exact model.

QUICK FIXES

Troubleshooting

Pump will not start

Check that the water supply and system are available. Ask a qualified installer to inspect the supply, controller fault indication and motor compatibility.

Pressure fluctuates

Check for leaks, inadequate water supply or unsuitable pump selection. Have pressure settings and system design checked.

Frequent stopping or alarms

Do not repeatedly reset faults. Record any displayed error and have the installation inspected.

Unusual noise or overheating

Stop use safely and arrange professional inspection of the pump, motor and controller.

TECHNICAL SUPPORT

For unresolved problems, contact Waterhouse on 011 466 8250. Have the controller model, pump motor nameplate details and fault indication available.