

HYDROMATIC RHMPC15 and HYDROMATIC RESTART RPC15ADS-IT ITALIAN PRESSURE CONTROLLERS PATENTED DESIGN

OPERATION

The Hydromatic electronic control senses when there is pressure reduction (due to a discharge tap being opened) and starts the pump and keeps the pump on while there is demand, to continuously provide pressure and flow, assuring constant flow and the correct on/off control of the pump. Hydromatic makes the pump stay on for all duration of the use (if the flow is over 1.5 L/min), and stops the pump about 15 seconds from the closing of the tap.

WARNING

The device can be used only with clean water.

CONSTRUCTION CHARACTERISTICS

- Inlet: male 1" (25MBSP)
- Outlet male 1" (25MBSP)
- Special non return valve to avoid surges
- Control system to avoid the possibility of operation without water (dry running control).
- Pressure gauge
- Manual start switch (RESET)
- Active LED (POWER)
- Pump-working LED (ON)
- No Water LED (FAILURE/NO WATER)

TECHNICAL CHARACTERISTICS

- Voltage 240V
- Max current 20(8)A
- Frequency 50HZ
- Protection Grade IP65
- Max water temperature 60°C
- Starting pressure 1.5-3bar
- Max pressure for use: 10ba

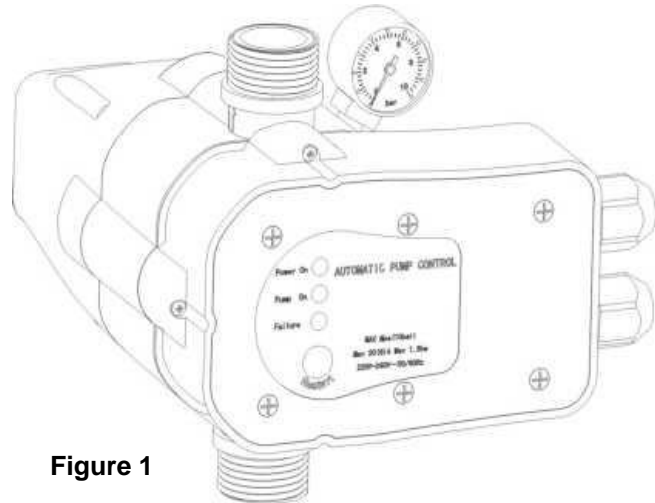


Figure 1

INSTALLATION

Before proceeding with the installation and the starting of the Hydromatic, it is essential to prime the pump correctly. The controller should be installed always in a vertical position (refer fig. 1 and 2). Avoid installing non-return valves closer than one metre from the Hydromatic, and do not install taps between the pump and the Hydromatic.

The following installation instructions are mandatory:

- Flexible hose with a barrel-union for connection, to protect the unit from possible damage due to movement and vibrations.
- Ball valves must be fitted on the suction and the discharge.
- A Y-Strainer or Prefilter must be fitted in the suction between the tank and the pump

HYDROMATIC CONTROLLER FUNCTION AND OPERATION:

The Hydromatic pump controller is designed to be almost completely automatic, and will restart itself if the pump runs out of water; you should not normally need to do anything. Instructions and basic function;

- a) Use for CLEAN rainwater only – you must fit a prefilter or Y-Strainer to the intake (suction pipe) of the pump
- b) Do not use a low quality generator for power supply as this may damage the electronics
- c) Protect from direct sunlight to avoid UV damage to the plastic
- d) The pump controller will stop the pump if there is no water in the pump, for the RHMPC15 model it then stays off until the reset button is pushed, or the power is turned off & on again.
- e) **HYDROMATIC RESTART ONLY:** It rechecks for water several times over the period of about 20 minutes – it makes the pump start each time, to try and “re-prime” itself (fill it back up with water) It might “crackle & gurgle” due to air in it, as it tries to restart.
- f) **HYDROMATIC RESTART ONLY:** If there is insufficient water to operate normally, the controller then switches off for 24 hours and tries again, and continue to do that every 24 hours until there is sufficient water and the pump can operate normally.
- g) If the restart happens in the middle of the night it can be annoying! In the morning, turn the power off & on again after 30 seconds and it will reset itself so it does the checking in daylight hours.
- i) You can reset the function back to the beginning anytime by pressing the reset button
- j) If it is many days before it rains again, turn off the power to the pump, at the power outlet
- k) Occasionally when the pump re-starts after a run-dry event, some air might come through the pipes, this is normal it is not a fault.

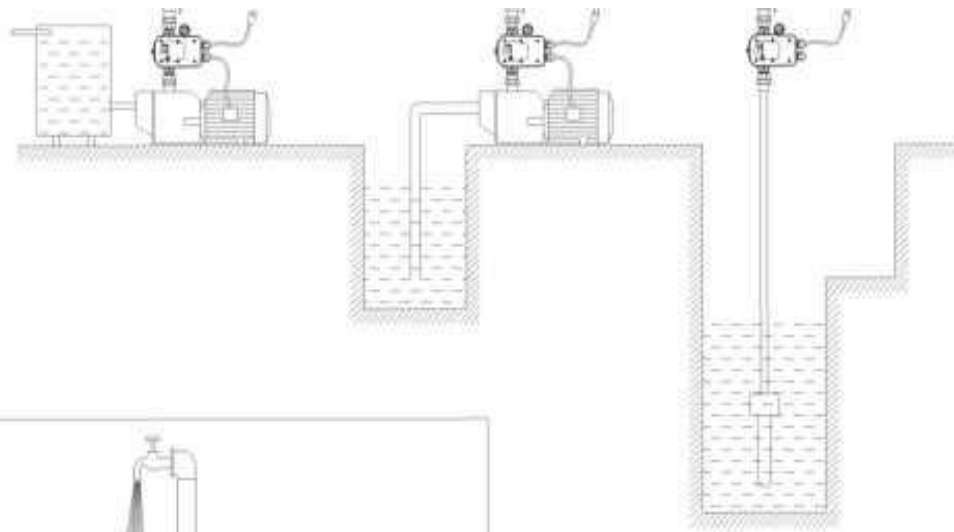


Fig.1

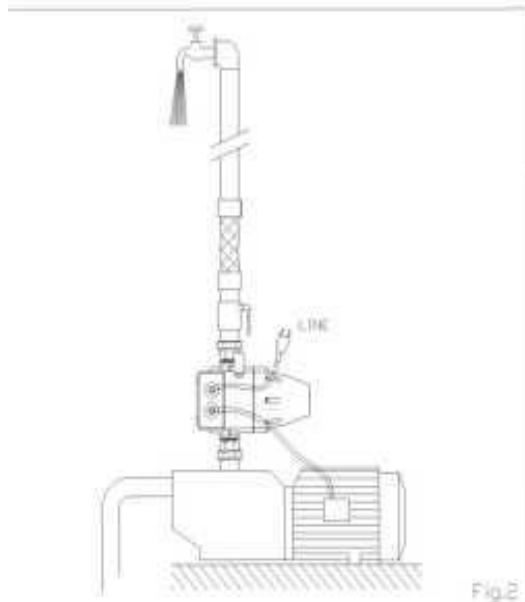


Fig.2



Fig.3

Wiring diagram for pump up to 2hp 220/204V
Schema per pompe con potenza fino a 2hp 220/240

Wiring diagram for pump higher 2hp 220/204V or three phase
Schema per pompe con potenza superiore a 2hp 220/240 o trifase

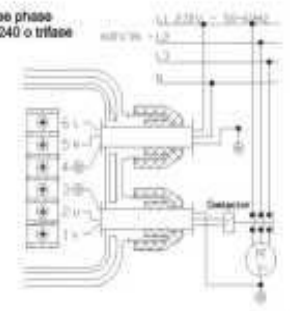
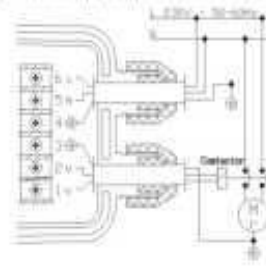
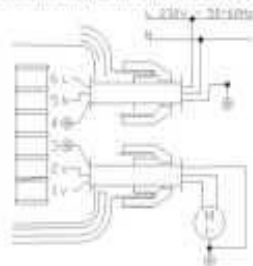


Fig.4

Figure 2

WARNING

Always install pumps with output of maximum pressure at least 1 bar higher than the minimum start-up pressure setting.

If the water column over the device is higher than 15m it is necessary to increase the start-up pressure.

Examples

Water column height	Start-up pressure setting	Pump must have max pressure equal or greater than:
20m	2.5 bar	3.5 bar
25m	3 bar	4 bar

To increase the start-up pressure:

- Connect and turn on the Hydromatic, wait until it stops.
- Open a tap slowly and observe the pressure gauge to identify at what pressure the pump starts.
- Turn the adjustment screw on the rear of the unit to the right.
- Recheck the start pressure as per Step 2 until the desired pressure is achieved.

ATTENTION

If the adjustment screw is too heavy to turn, turn power off and release the pressure in the system by opening a tap to discharge some water, and then adjust the screw.

ELECTRIC CONNECTION

Hydromatic can directly control single-phase pumps up to 1.5kW – 8Amp - 240V.

WARNING

Bad connections will damage the electronic circuit. Where hard-wired, the installation must be completed by a licensed electrician, and include a safety switch (RCD) having a residual operating current not less than 30mA.

STARTING

After the pump is primed, turn the power on, the pump should start immediately and the green led (Power on) and the yellow led (Pump on) will switch on. After 20 second if all outlet taps are closed, the pump and the yellow led will go off, the pressure gauge will indicate the stored pressure. If during the normal working the water should cease to flow, Hydromatic will stop the pump after 7-9 sec. To restore operation, prime the pump and press RESET.

POSSIBLE PROBLEMS

Pump doesn't stop:

- There is a leakage somewhere in the discharge system, check all taps, pipes & toilet cisterns.
- RESET button is locked, press it several times.
- The inner flow-switch is blocked by debris, remove the Hydromatic and clean it, and fit a Y-Strainer or Prefilter in the suction between the tank and the pump – this is a condition of warranty.
- The electronic board has failed, have a qualified person remove the electronic board box and substitute it with a new one, or replace the complete unit.

The pump doesn't start:

- Water column is higher than 15m, increase start-up pressure.
- Red led is on;
 - o Pump is not correctly primed – fill the bowl of the pump with water – if it is suction lift (sucking up out of a below ground tank or tank that is below the level of the pump) check that the suction pipe has water in it – very often the footvalve in the tank will leak the water backwards and then the pump will run dry and the Hydromatic will turn it off due to no water. This situation is not a fault with the unit, it is not warranty.
 - o Or the pump doesn't develop the minimum pressure required (2,5 bar)
 - o Or the inner membrane is broken (the device has a leakage of water in its rear part)
 - o Or the pump capacitor is broken
 - o Or the pump is blocked
 - o Or the electronic circuit is has tripped
 - o For all of the above, take steps to rectify accordingly, electrical work must only be performed by qualified personal.

The Pump starts and stops continuously

- There is a little leakage somewhere in the discharge system, check all taps, pipes & toilet cisterns. If the leak cannot be found, have a qualified person install a pressure tank (pressure cell).
- If the flow is lower than 1.5 L/min (for example a drinking water-filter tap) the pump will stop & start – this is nto a fault, it is not a warranty problem. To prevent this, have a qualified person install a pressure tank (pressure cell).
- Pump doesn't develop enough pressure, check the pump, refer to the instruction manual of the pump.
- Electronic board is faulty, have a qualified person remove the electronic board box and substitute it with a new one, or replace the complete unit.

INSTALLATION CHECKLIST: MUST BE FILLED IN FOR WARRANTY TO APPLY

Installer Name _____ Qualification: _____ (write Owner if applicable)

Phone Number: _____ If installed by a Plumber or Electrician, Licence No: _____

Installation Address: _____

Tick the boxes as the item is completed/correct, put n/a if not applicable;

-] The Pump that the Hydromatic is fitted to is no larger than 1.5KW / 8Amp and has a 240V motor.
-] The Pump & Hydromatic are being used for an appropriate purpose for which it is intended, according to the instructions
-] The Power Circuit the Pump & Hydromatic is connected to is RCD (Safety Switch) Protected
-] The Hydromatic is installed upright, as per Figure 1, page 1
-] A Y-Strainer or Pre-filter is installed in the suction pipe to prevent particles entering the Pump & Hydromatic
-] All swarf has been removed from the tank after cutting openings etc.
-] Barrel Unions are fitted on the pipe connections for easy removal & replacement
-] A Ball Valve or Gate Valve is fitted to the suction pipe (the pipe from tank to pump)
-] Pipe is sized appropriately for the application (diameter and length)
-] The installation is constructed so the Pump & Hydromatic can be easily removed or replaced.
-] If applicable: The Pump & Hydromatic is installed in accordance with National & Local Plumbing Regulations
-] The Electrical Supply cable is plugged into a Power Outlet that is in accordance with the current standard of Electrical Safety Regulations AS/NZS 3000 – or the Pump & Hydromatic has been wired directly to the power circuit by a Licenced Electrician.
-] The Pump has been primed (filled with water) started, tested, and operates correctly.
-] The suction & discharge pipes, connections, barrel-union on the pump, and toilet cisterns (if connected) have been checked for leaks.
-] The Pump & Hydromatic is protected from sunlight & rain, with a suitable vented pump-cover or enclosure.
-] If applicable: The Owner has been shown how to re-prime and re-set the pump (re-fill the pump with water if it runs dry)

Signed by the Installer: _____ Date Installed: ____/____/____

2 YEAR WARRANTY CONDITIONS

1. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. If you are a consumer as defined by the Australian Consumer Law, you are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The following conditions form part of the instructions and do not over-ride your statutory rights.
2. This warranty against defects covers failure due to manufacturing defects within a 2 Year period from the date of original purchase, for REEFE™ Hydromatic Pressure Controllers purchased and used in mainland Australia. In the case of a failure covered by warranty within a 2 Year period from the date of original purchase, the Hydromatic Pressure Controller will be repaired or replaced - or you can return it to the place of purchase for a refund.
3. Faults or losses or failure caused due to: Accidents, misuse, lack of maintenance, not following these instructions, damage caused by lightning strike/power surges/spikes/brownouts/operating the Hydromatic Pressure Controller on power other than 240volts 50Hz mains power/operating the pump on power supplied by a domestic generator - are not covered by warranty.
4. The warranty only covers the Hydromatic Pressure Controller, it does not include the Pump that it is connected to, refer to the supplier of that pump.
5. Warranty will be void if any tampering or removal of identification labels or electrical cables has occurred, or any non-genuine parts have been fitted, or repairs have been carried out by unqualified persons. No warranty applies for goods sold or used for HIRE or RENT or LEASE
6. If an exact replacement is not available, the closest equivalent product will be supplied at our discretion.
7. This product is guaranteed as fit for the purpose of starting & stopping suitable sized pumps that are used for CLEAN FRESH WATER and for NO OTHER USE. Performance data quoted is generally from test data and does not take into account factors in the installation such as loss of pressure and flow due to pipework & pipe-fittings & valves.
8. IMPORTANT: No electrical appliances last forever. Therefore ALL installations must be constructed to allow the owner to easily remove the Hydromatic Pressure Controller for servicing, and to easily remove for replacement, warranty replacement or upgrading. The installation must NOT be constructed in such a manner that specialized tools, or paid tradespersons, or external paid contractors, are required to be engaged in order to remove and/or replace and/or refit the Hydromatic Pressure Controller. Warranty replacement does not normally include costs of removal and re-installation as we have no control over the method of installation.
9. Before installing or servicing disconnect from the power supply. All pumps & Hydromatic Pressure Controller must be installed using barrel-union connections to facilitate easy servicing or replacement. A ball-valve or gate-valve must be fitted on the suction, and the Town-water backup supply where fitted. Additionally a Y-Strainer or Pre-filter must be installed on the suction to prevent particles entering the pump. This instruction is a condition of warranty; all warranty is void if this instruction is not followed.
10. This Hydromatic Pressure Controller is not to be used as your sole water supply. For critical applications where loss of water supply could cause serious consequences, use a DUAL PUMP System so you have a backup water supply or use a TOWN-WATER BACK-UP System.
11. This Hydromatic Pressure Controller MUST NOT be installed in any manner that if it were to leak that it would cause damage or loss to property or persons. It MUST be installed in a well-ventilated and drained area. All warranty is void if this condition is not heeded and no liability can be accepted in the case of damage or loss caused by failing to comply with this condition.
12. The Pump & Hydromatic Pressure Controller must be connected to a suitable circuit with an integral RCD (safety switch) in the circuit breaker. All warranty is void if this instruction is not followed.
13. In the case of a fault, refer to the Trouble Shooting Guide first. If these steps do not rectify the problem, then return the faulty appliance to the original place of purchase with proof of purchase, and the installation checklist above, for replacement or refund. Alternatively you can mail us at PO BOX 650 MORNINGSIDE QLD 4170 or send an email to sales@ascento.com.au with copy of your purchase receipt, and the installation checklist above, a description of the problem, and your name and address and phone number - we will review your request and send you a replacement directly if we accept your warranty claim. Or call us on 1800807604 with the above information; however we will always require a copy of your purchase receipt and the installation checklist above. Do not send the product to us unless we ask you to do so.
14. This warranty does not exclude any non-excludable rights according to Australian Law. However any condition that is made void by Australian Law does not void the remaining conditions, which shall stand unaltered.

PRIVACY STATEMENT

We will not use your address or phone or fax number, or email address for marketing without your express permission. We will not sell or provide it to any other third party for the purpose of marketing.

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