

OPERATING LIMITS

Flow up to:	10 m ³ /h
Max. operating pressure:	10 bar
Max. discharge pressure:	1,5 to 3 bar
Temperature range:	0° to +60°C
Orifice ND (threaded):	G1
Max. current:	10 A
Protection :	IP 65

ADVANTAGES

- **VERSATILITY:**
 - Automatic starting and stopping
 - Water shortage protection
 - Anti-hammering safety
- **SIMPLICITY :**
 - Display of each function by means of lighted indicator lights and pressure gauge.
- **FLEXIBILITY :**
 - Starting pressure adjustable according to the available city water pressure.
- **RELIABILITY :**
 - Internal components resistant to corrosion

THEORY OF OPERATION

Automation

As soon as a valve opens, the pressure drops in the installation and the pump starts instantly at a 1.5 bar threshold, preset in the works. This threshold can be increased up to 3 bar on site depending on the city water pressure (or HR, HC). The operation of the pump will last provided there is a minimum flow rate through the network.

"Anti-hammering" safety

When the valve is closed, the pump stops automatically after a time delay of 3 to 5 seconds. This time delay dispenses with the need to install a tank.

Water shortage safety

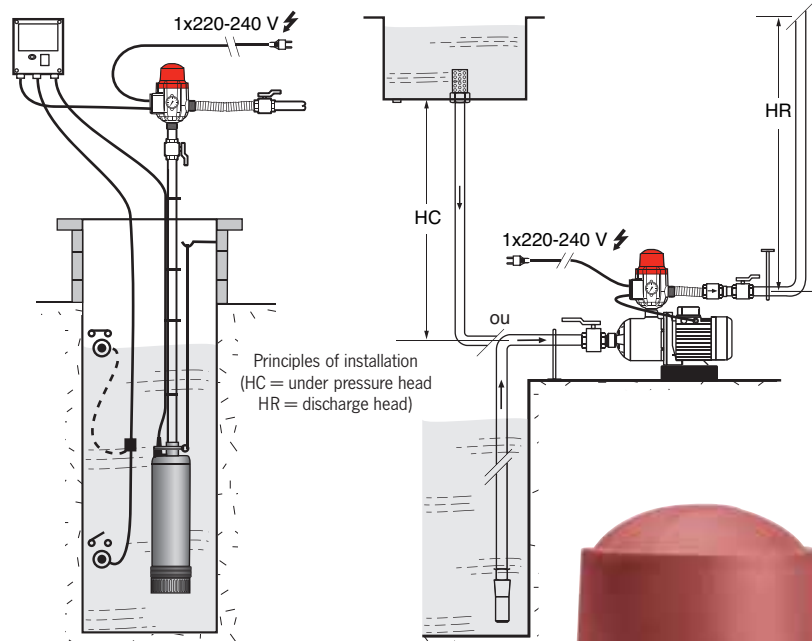
The logic control protects the pump against water shortage by stopping the motor. This stoppage is indicated by the lighting of the "alarm" lighted indicator. **Restarting of the pump must be activated manually using the "RESET" button.**

Even when a logic control is used, the characteristics of the pump will be preserved entirely. The self-priming function is ensured by holding the "RESET" key down during priming.

APPLICATIONS

Protection, control and automatic management of pump operation in a domestic water supply installation.

ACSON is recommended for every water supply installation for watering and washing. Use with a AQUASON, SPRINGSON, HYDROSON , all range of MULTI-H pumps.



• SPRINGSON PAC (equipped with ACSON device)



• ACSON

ACSON

Motor Mob

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DESIGN

ACSON is a hydraulic system designed for the automation and protection of pumps.

The pump engaging pressure can be adjusted between 1.5 and 3 bar.

A pressure gauge displays the pressure. The assembly is possible on right or left.

As a standard fitting, it comes with a non-return valve.

Power supply voltage: single-phase, 220-240 V.

STANDARD CONSTRUCTION

Main parts	Material
Housing	Composite
Membrane	Natural rubber*
Spring	Cadmium-plated steel
Non-return valve (suction)	Composite
Seals	Nitrile

* Food quality.

ACSON AND PUMPS

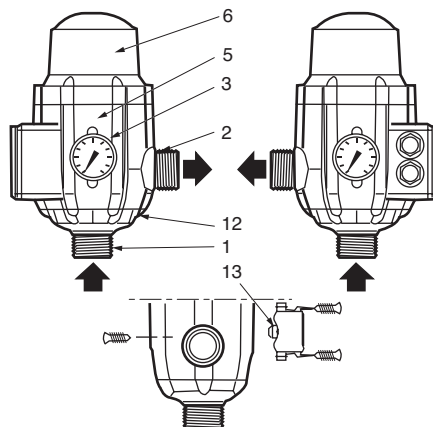
ACSON is designed to automate surface pumps (SPRINGSOON, HYDROSON, MULTI-H) and well pumps (AQUASON) designed to pump clear water.

It can be connected either directly to the pump discharge (if DNR = G1) or to a rigid pipe between the pump and the ACSON.

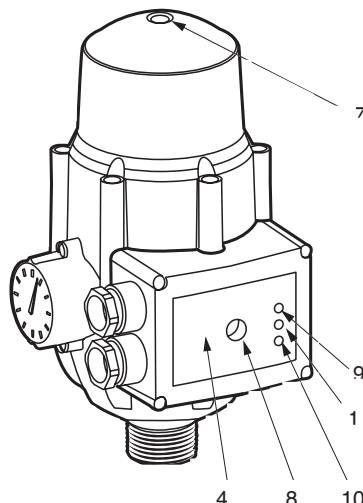
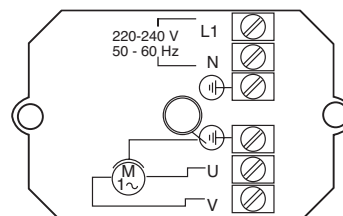
To avoid any constraints affecting the ACSON housing, it is advisable to use a flexible pipe on the discharge side.

ACSON can be used with a pump connected to the city water network without a water shortage protection device (city water pressure less than or equal to 1 bar) because it is incorporated into the logic control system. For this reason, a non-return valve on the discharge between the pump and the logic control is pointless.

DESCRIPTION



- 01 - Suction orifice with integrated non-return valve.
- 02 - Discharge orifice
- 03 - Pressure gauge (0 - 10 bar). Assembly possible on right or left.
- 04 - Electric unit with electronic board incorporating water shortage protection by motor stoppage and pump and network connecting box.
- 05 - Hydraulic chamber with membrane.
- 06 - Compensation chamber with spring.
- 07 - Pump tripping pressure adjusting screw.
- 08 - Reset button (RESET).
- 09 - Power indicator light (POWER).
- 10 - Pump operating indicator light (ON)
- 11 - Safety system activation indicator light (ALARM).
- 12 - Internal cover
- 13 - Pressure gauge access



FEATURES

a) Electrical

- ACSON is designed to operate on 220-240 V, 50 Hz or 60 Hz single-phase current (3-phase current possible, consult us).
- Connections to terminal block by stuffing box

b) Installation

- In vertical position only.
- Direct connection to pump discharge port or to rigid pipe between pump and ACSON.

c) Conditioning

- Supplied in cardboard pack with assembly manual.

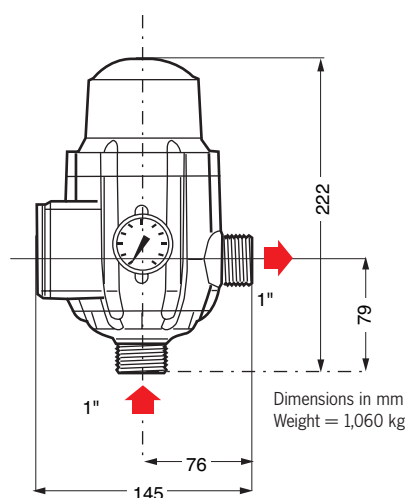
d) Maintenance

- Standard replacement of equipment recognized to be defective during its warranty period.

ACSON OPTION KIT including:

- Electric cable for connection between motor and logic controller (l = 0,6 m).
- Electric cable with standardized connector (2 pole + ground) for connection to ground (l = 1,5 m).
- ØG1 flexible hose for link between logic controller and installation water supply.

DIMENSIONS



ACSON is factory preset to 1.5 bar.

ORDER REF.

KIT ACSON

ARTICLE REFERENCE

4046703