



ES 4

EN **Instruction manual** *(translation)*

EN: EVIDENCE OF CONFORMITY

We declare, under our responsibility, that the products in this manual comply with the following directives and standards:

- Directive 2006/42/EC (Machine Security):
Standard EN 809

And they may not be put into service before the machines in which they will be incorporated are declared to comply with the provisions of Directives 2006/42/EC and 2014/35/EU.

UKCA CERTIFICATE OF CONFORMITY


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Safety and damage prevention instructions for people and equipment


(See figure 1)

A	Use the pump within the performance range indicated on the plate.
B	Attention to liquids and dangerous environments.
C	This equipment can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the dangers involved. Children must not play with the equipment. Cleaning and maintenance to be carried out by the user must not be carried out by children without supervision.
D	The pump may only be disassembled by authorized personnel.
E	Disconnect from the current before any maintenance intervention.
F	Attention to the formation of ice.

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Warning for the safety of people and things

The following symbols  together with a paragraph indicate the possibility of danger as a result of not respecting the corresponding prescriptions.

DANGER

Failure to warn of this prescription entails a risk of harm to people or things.

**ATTENTION**

Failure to comply with this requirement entails a risk of damage to the pump or the installation.

**1. GENERALITIES**

The instructions that we provide are intended for the correct installation and optimum performance of the automatic constant pressure water groups.



Please read these instructions before installation.

Save them for future reference

The pump is suitable for pumping clean water.

All the metallic components in contact with the liquid are made of stainless steel and the plastic components are of the type approved for the use of food liquids.

In application of European regulation 547/2012, the minimum efficiency index must be $MEI \geq 0.40$.

The reference value for the most efficient hydraulic pumps is $MEI > 0.70$.

Information on efficiency benchmarks can be found at:

<http://europump.net/uploads/Fingerprints.pdf>

The performance curves and their efficiency characteristics can be consulted in the technical catalogs and in www.espa.com.

2. HANDLING

Any maintenance operation on the pump must be carried out by specialized personnel after disconnecting from the electrical network.

The product must be handled with care and with adequate lifting means, since falls and shocks can damage it, even without external damage. See the diagrams for lifting the unpackaged product. (Fig.1). The operation of this hydraulic pump with puncture-variable work rates, it can be more efficient and economical if it is controlled, for example, by means

of a speed regulation control that adjusts the work of the pump to the system.
THE PUMP DOES NOT MUST NEVER RUN DRY.

3. INSTALLATION: COUPLING THE PUMP TO THE MOTOR.

The pump is suitable for coupling to a 4" submersible motor conforming to NEMA standards.

To obtain a correct coupling proceed as follows (Fig. 2): unscrew the fastening screws (B) and unhook the outer pump box (G) to remove the cable protection (A). Make sure the shaft, joint and mating surfaces are clean.

Place the motor (C) in a vertical position.

Couple the pump to the motor taking care to align the "cable grommet" opening in the lower bracket with the motor cable outlet.

Once the coupling has been made, screw the nuts (D) onto the tie rods (E) fixing the pump to the motor, tightening them in sequence according to the diagonals or with a tightening torque of 16-20 Nm. Extend the motor cable (F) along the pump (G) and cover it with the cable protection (A). Hook the cable protection to the box and fix it with the screws (B).

The manufacturer declines any responsibility for damage caused by wrong connections.

7. POSSIBLE FAULTS, CAUSES AND SOLUTIONS

If the engine does not start or water does not come out at the end of the pipe, try to discover the anomaly through the list of the most common faults and their possible solutions

- 1) The motor does not start.
- 2) The motor works but does not give flow.
- 3) The flow rate does not correspond to the given curve.
- 4) The engine stops and starts automatically.

4. MAINTENANCE



In times of frost, be careful to empty the pipes.
ATTENTION: in the event of a fault, the manipulation of the equipment can only be carried out by an authorized technical service.

The List of Official Technical Services can be found at www.espa.com.

5. PRODUCT DISPOSAL

When the time comes to dispose of the pump, it does not contain any toxic or polluting material. The main components are duly identified in order to proceed to selective scrapping.

This product or parts of it must be disposed of in an environmentally sound way, please use your local waste collection service.

6. TECHNICAL CHARACTERISTICS

Liquid temperature: 1°C - 40°C
 Maximum amount of sand in suspension:..... 100 g/m³.
 Maximum immersion depth: 150 m

1	2	3	4	CAUSES	SOLUTIONS
X				lack of current	Check fuses and other protection devices
	X			Lowering of the water level in the well	Check that the pump is completely submerged
			X	voltage error	Check that the voltage corresponds to that marked on the nameplate
		X		Total manometric head higher than expected	Check geometric height plus head losses
X				Thermal protection intervention	Thermal reset or wait for cool down
	X			discharge pipe disconnected	Connect this pipe to the outlet of the pump
		X		Insufficient well flow	Put the gate valve to the outlet to reduce the flow rate of the pump
X				Stop due to level probes	Wait for well recovery
	X			Reverse Mounted Check Valve	Reverse the direction of the valve
		X		Wear on the hydraulic part	Contact an Official Technical Service
X				Cut power cord	Check the electrical cable

Fig.1

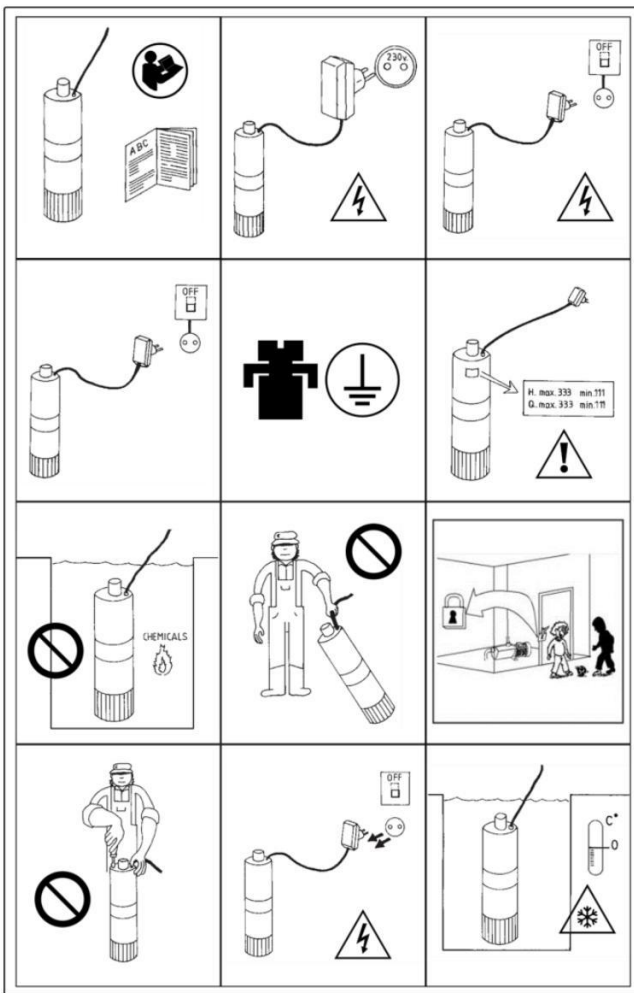
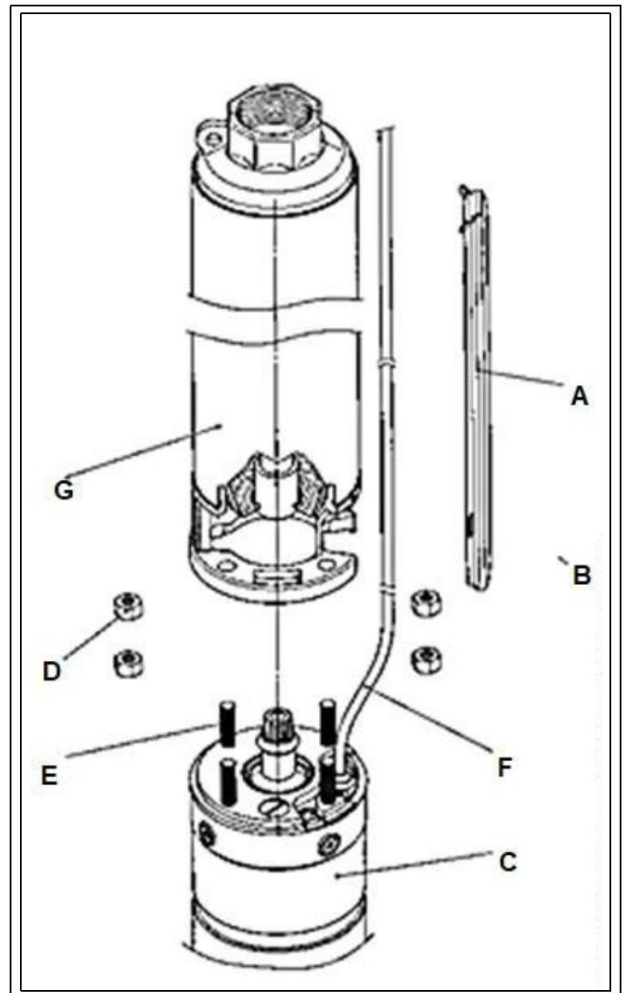


Fig.2



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