ENGLISH

OPERATION

The electronic controller COMPACT 2 orders the automatic start and stop of the water pump when opening and closing any tap or valve of the installation. When the water pump starts, it keeps running while exists any tap opened in the system, giving a constant flow and pressure to the network.

CONSTRUCTION CHARACTERISTICS

- Inlet male: 1"
- Outlet male: 1"
- Special non return valve which avoids surges.
- Security system avoiding the possibility for the machine to work without water.
- Pressure gauge **(optional).**
- Manual start switch (RESET).
- Tension led (POWER).
- Pump-working led (ON).
- Security system led (FAILURE).

TECHNICAL CHARACTERISTICS

- Tension:	~220/240 V or ~115/125 V
- Max. intensity:	10(6)A
- Frequency:	50/60 Hz
- Protection:	IP 65
- Max. temperature of water:	60° C
- Max. flow:	10.000 l/h
- Starting pressure:	Mod. F: 1,5 bar
	Mod. R: 1,5 -2,5 bar
- Max. pressure of use:	10 bar
- Max. power of pump: 220/240V:	1,5CV(1100W)
	115/125V: 1CV(735W)

! HYDRAULIC CONNECTION (Fig.2)

Before proceeding with hydraulic connection it is essential to prime the pump correctly. The COMPACT 2 should be installed in a vertical position, thus connecting the inlet opening (male 1") directly to the pump outlet; and the outlet (male 1") to the network. The following accessoires are recommended: Flexible with a disassembling link for network connection, protecting the set from possible flexion charges and vibrations. Ball valve which permits the isolation of the pump from the installation.

REMARKS

The water column between the pump and the highest point of use should not exceed 10m for the **COMPACT 2 Model F** and the pump should supply a minimum pressure of 2,5 bar.

In case of using points until 20 m you must use the **COMPACT 2 Model R**. The adjustment of starting pressure is made by a screw placed in the back of the COMPACT 2 (FIG 5). Read the indicated pressure showed in the pressure gauge when the pump starts and perform on the screw according to the wished side. EXAMPLE:

USING HEIGHT	ADJUSTMENT PRESSURE	MINIMUM PUMP PRESSURE
10 m	1,5 BAR (ORIGIN)	2,5 BAR
15 m	1,8 BAR	3 BAR
20 m	2,3 BAR	4 BAR

This operation only adjusts the starting pressure, not the working pressure of the installation, which only depends on the pump features.

*These heights are between the device and the highest point of use. To work at more height, mount the device out of the pump at the desired position.

ELECTRIC CONNECTION (Fig.3)

Check the power supply to be ~220/240 V or ~115/125V. Dismount the cover of the electronic circuit and make the connections as per diagram on plate 2. The COMPACT 2 can also be used for three-phase or single-phase pumps with intensities higher than 10 A, by means of an auxiliary contact (minimum contacts capacity of 4 kW or 5,5 HP coil 220V). In this case the connections will have to be made according to scheme in Fig. 4.

WARNING

Bad connections may spoil the electronic circuit.

! STARTING

1.- Be sure that the pump is correctly primed, then gently open one tap of the installation.

2.- Conect the COMPACT 2 to electric supply, the tensionled will lit (POWER).

3.- The pump starts working automatically and within a period of 20-25 seconds the pressure will reach aproximately, the maximum pressure provided by the pump. During its working the corresponding led (ON) will be on.

4.- Close the tap indicated on point 1. After 10-12 seconds, the pump will stop, The tension led (POWER) will be the only one to remain on. Any problem after this procedure will be due to a defective pump priming.

POSSIBLE PROBLEMS

1.- PUMP DOES NOT STOP:

A) Water leak higher than 1 l/min. at some point: check that all the used taps are closed.

B) Breakdown on the electronic card: proceed to its substitution.

C) Incorrect electric connection: verify the connections according to Fig.3.

2.- PUMP DOES NOT START:

A) Not enough water supply, the security system has been activated and the led (FAILURE) is on: check the the water supply and reset the pump through the manual reset switch (RESET).

B) Pump is blocked: led (FAILURE) is on, the security system is activated. When we act on the manual start switch (RESET) the led (ON) is activated but the pump does not work: contact with your dealer.

C) Failure in the electronic circuit: switch off the pump from the power supply, wait a few seconds and turn it on again, the pump should start, if it does not start then replace the electronic circuit.

D) Not electrical supply: check the proper electric feeding. The tension led (POWER) should be on.

E) Not enough pump pressure: the security system has been activated and the corresponding led (FAILURE) is on. Check that the pump pressure was at least 1 bar higher than the starting pressure for the model F, and for the model R follow the table in HYDRAULIC CONNECTION.

F) Air in the pump aspiration: Pressure lower that the nominal or constants oscillations. The security system will act by stopping the pump, the LED (FAILURE) will be on. Check the sealing of the connections and the O-ring of the aspiration conduct.

3.- PUMP STARTS AND STOPS REPEATEDLY:

Small leak in some point of the installation: Verify possible taps or WC tank leaks and repair them.

! INSTALLATION OF THE PRESSURE GAUGE (Fig. 1) (OPTIONAL)

The pressure gauge has an O-ring and two fixing screws. The pressure gauge must be mounted in the side with the three holes, one big central hole and two more little for fixing the gauge by means of the two supplied screws. Previously you should remove the screw located in the central hole and then introduce the cylindrical connector of the pressure gauge. Then fix the pressure gauge with the two screws supplied with it.

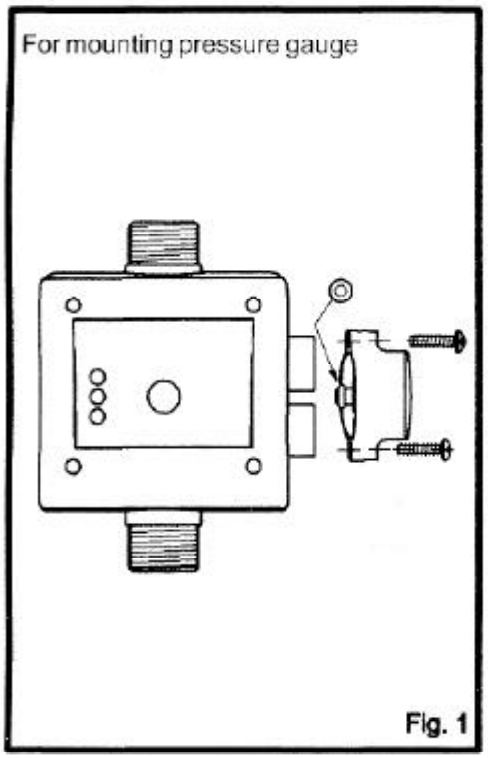

Fig. 1

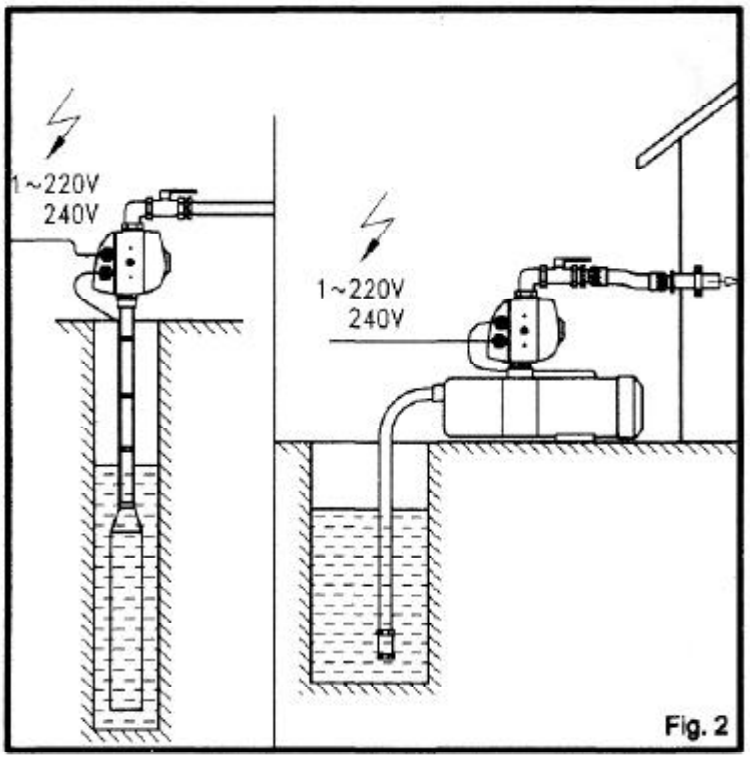

Fig. 2

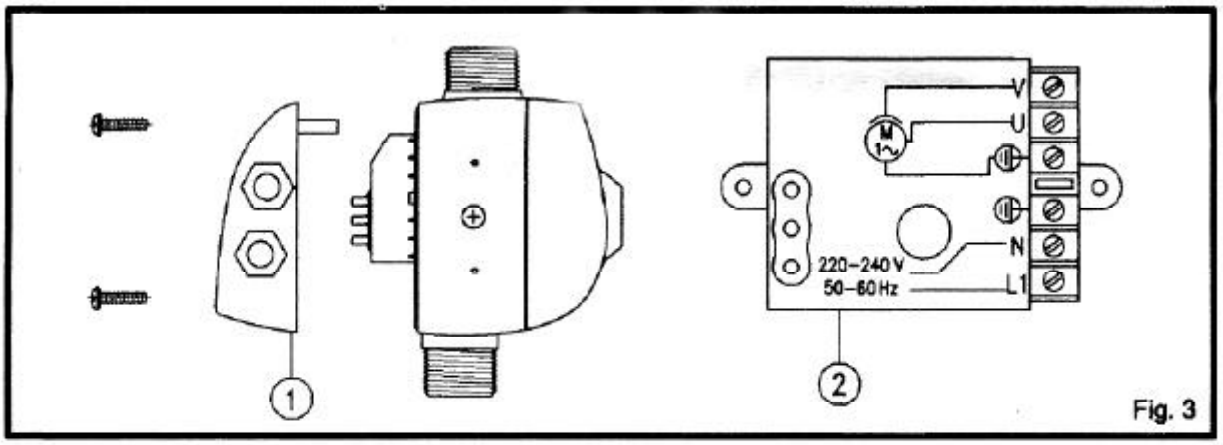

Fig. 3

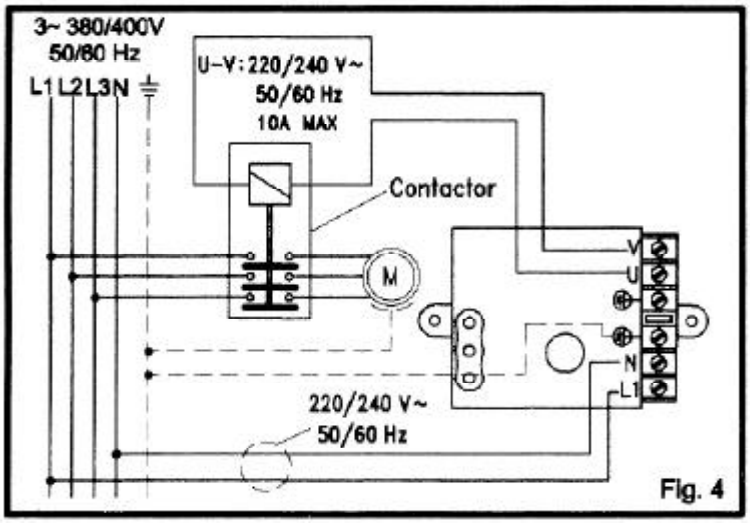

Fig. 4

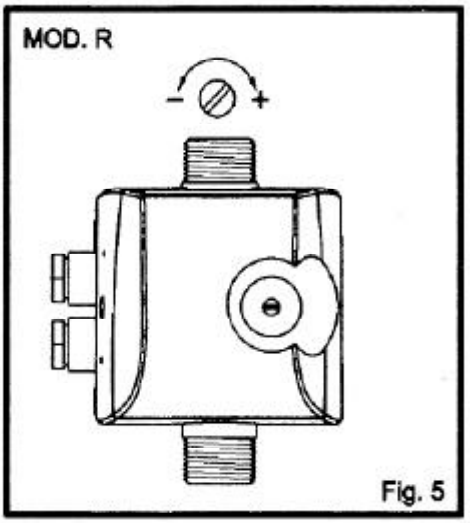

Fig. 5

SAFETY PRECAUTIONS

⚠	**DANGER**	Warms that failure to observe the precautions involves a risk of electric shock.
⚠	**DANGER**	Warms that failure to observe the precautions involves a risk of damage to persons and/or things.
!	**WARNING**	Warms that failure to observe the precautions involves the risk of damaging the pressure assemblies and/or the plant.