REEFE

PUMPS AUSTRALIA

BETTER • FASTER • EASIER

AUTOMATIC

PRESSURE CONTROLLER

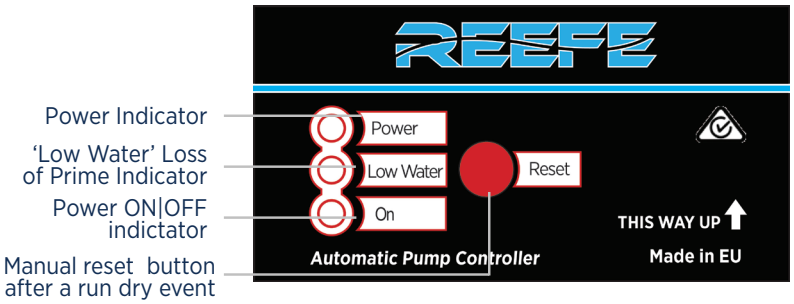
TECHNICAL DATA

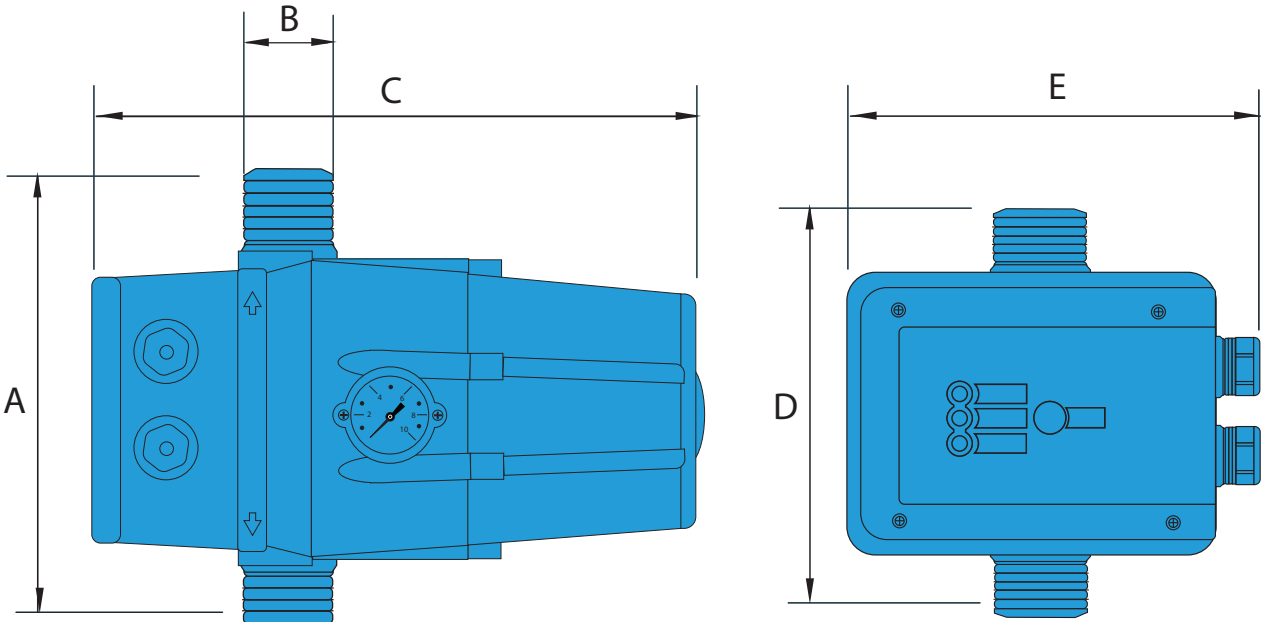
MODEL: RPC32E

CODE: 20876

CONTROL PANEL & **DIMENSIONS**

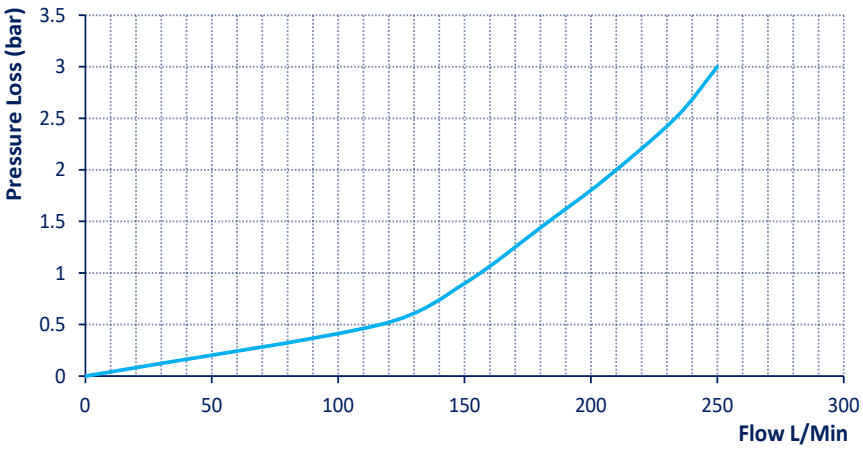
MODEL	DIMENSIONS (MM)				
	A	B	C	D	E
RPC32E	155	32	220	102	150





PRESSURE LOSS DATA

MODEL	L/MIN	0	50	100	150	200	250
RPC32E	PRESSURE LOSS	0	0.25	0.5	1	1.9	3



OPERATION GUIDE &
INSTRUCTION MANUAL

READ CAREFULLY BEFORE MOUNTING AND USING THIS PRODUCT. FOR THE PUMP, REFER TO ITS MANUAL

OPERATION
The RPC32E Pressure controller orders the automatic start and stop of the water pump when opening or closing any tap or valve of the installation. When the water pump starts, it keeps running while any tap is opened in the system, giving a constant flow and pressure to the network.

CONSTRUCTION CHARACTERISTICS

Inlet male 1 1/4''
Outlet male 1 1/4''
Special non return valve which avoids surges
Security system avoiding the possibility for the machine to work without water
Pressure gauge
Manual start switch (RESET)
Tension LED (POWER)
Pump-working LED (ON)
Security system LED (LOW WATER)

TECHNICAL CHARACTERISTICS

Tension: ~220/240 V
Max. Intensity: 30(16)A
Frequency: 50/60 Hz
Protection: IP65
Max. temperature of water: 60° C
Max. Flow: 12.000 l/h
Starting pressure: 1,5 bar-2,5 bar
Max. pressure for use: 10 bar
Max. Pump power: 220/240V:3CV(2200W)

HYDRAULIC CONNECTION (Fig.1)
Before proceeding with the hydraulic connection it is essential to prime the pump correctly. The electronic controller should be installed always in horizontal position with the overmolded arrow pointing to the top, connecting the inlet opening (male 1 1/4 “) directly to the pump and the outlet opening (male 1 1/4”) to the network.
ATTENTION: the water column between the pump and the highest point of the installation depends on the starting pressure. Here below, we give you a list with the height of the column and the maximum pressure which must supplies the pump.

ELECTRIC CONNECTION (Fig. 2)
Check the power supply to be ~220 ±10% Vac, dismount the cover 1 of the electronic circuit, and make the connections as per diagram on plate 2. The RPC32E can be used with a single-phase pump with electrical input greater than 16 A.). In this case the electrical connections must be made as shown in the diagram, fig.3

WARNING
Bad connections may spoil the electronic circuit.
H07RN-F 3G1,5 type cables (Ø9÷12mm) must be used to ensure IP65 protection.

STARTING
1.- Be sure that the pump is correctly primed, then gently open one tap.
2.- Connect the electronic controller to the electric supply. The tension LED will turn on (POWER).
3.-The pump starts working automatically and within a period of 20-25 seconds the pressure gauge will reach approximately 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.

AUTOMATIC RESET FUNCTION
If the device goes into failure mode, this function will execute a series of automatic starts to attempt to restore operation without any manual intervention via the RESET button. The system operates as follows:

- 10 seconds after the controller senses loss of prime and
- turns off, it trys to restart for 10seconds,
- Stops for 30 seconds,
- Trys for 10 seconds,
- Stops for 30 seconds,
- Trys for 10 seconds,
- Then Stops for 24 hours.
- The pump will then try for 10 seconds, once every 24 hours from then on, and does not stop this cycle until there is water again.
- Disconnecting the pump from power will stop the pump from completing its periodic 24hr water check.

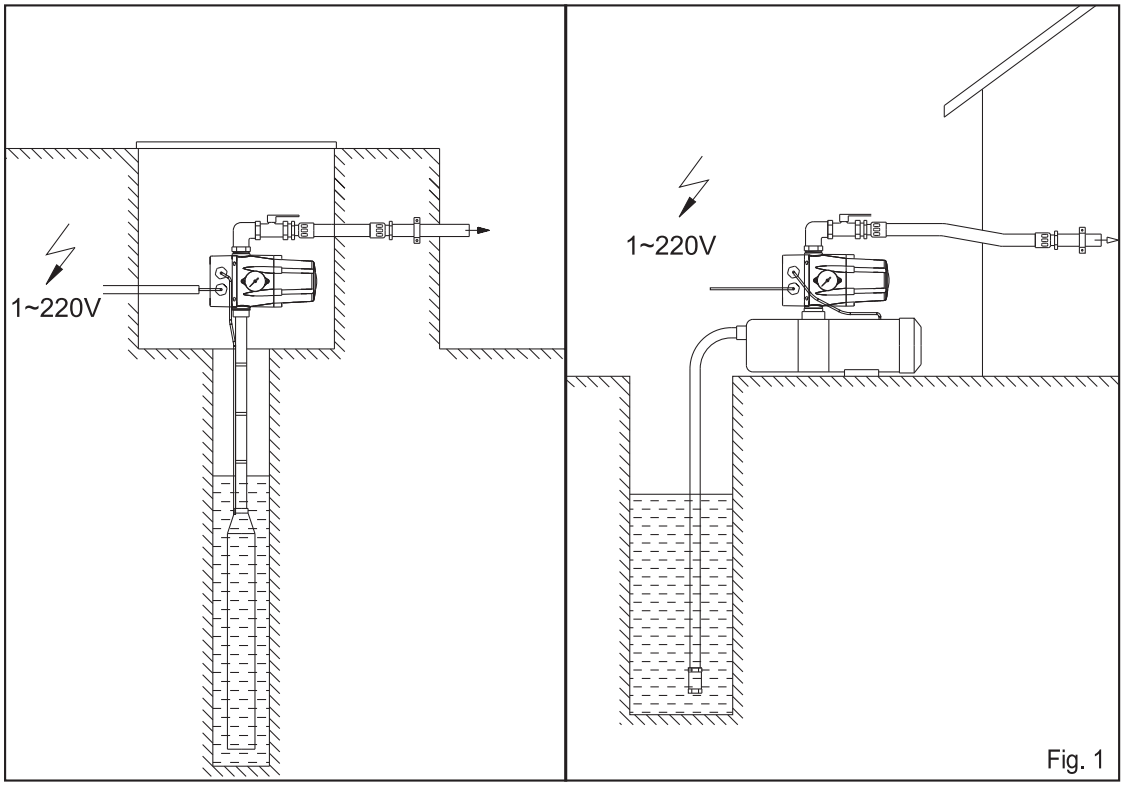


Fig. 1

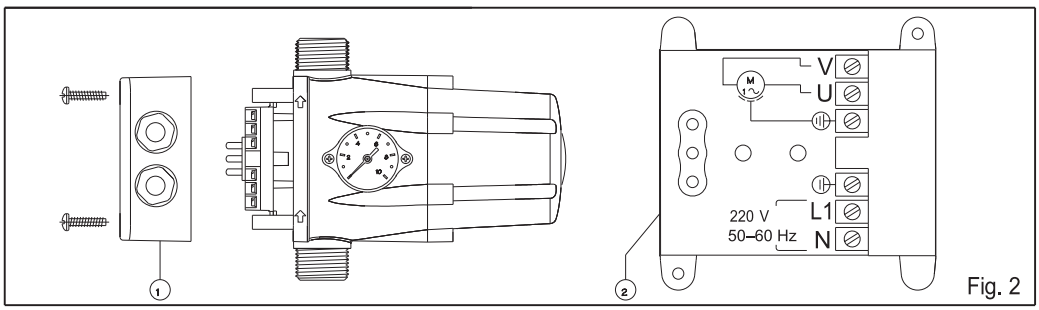


Fig. 2

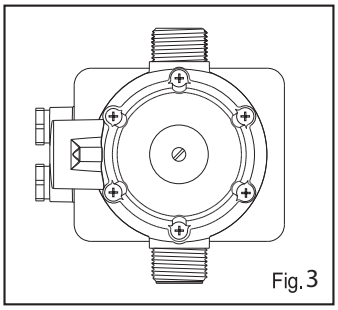


Fig. 3

TROUBLESHOOTING GUIDE

1. Pump does not stop:

a. Water leak higher than 1,5 l/min. at some point:
b. Check the installation, taps, WC, etc. To check toilets, ensure the stop cock is closed completely, do not use a visual check as this may be misleading.
c. Manual start switch (RESET) is blocked:
d. Act on it several times, in case the problem persists consult your dealer.
e. Breakdown on the electronic card: proceed to its substitution.
f. Incorrect electric connection:
g. 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 water supply and restart the pump through the reset switch (RESET).
b. The pump is not hydraulically primed. The safety system against dry operation has been activated and the LED (LOW WATER) is on:
Fill with water the inlet, drain the water surplus in the installation opening a faucet located to he same level of the pump - to diminish the pressure of the water column over the flow sensor - and restore the operation mode using the pushbutton RESET.
c. Pump is blocked:
LED (LOW WATER) 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: Consult your dealer.
d. Failure in the electronic circuit:
Switch off power supply, wait a few seconds and turn it on again. If the pump does not start immediately then replace the circuit.
e. Not electrical supply:
Check the proper electric feeding. The tension LED (POWER) should be on.
f. Not enough pump pressure:
The security system has been activated and the corresponding LED (LOW WATER) is on. Check that the pump pressure is the one shown in the hydraulic connection table.
g. Air in the pump aspiration:
The pressure gauge will indicate a pressure lower than the nominal or constant oscillations. The security system will act by stopping the pump, the LED (LOW WATER) will be on.Check the sealing of the connections and O-ring of the aspiration conduct.

3. The pump starts and stops repeatedly:

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