POOL BASIC ***evo***

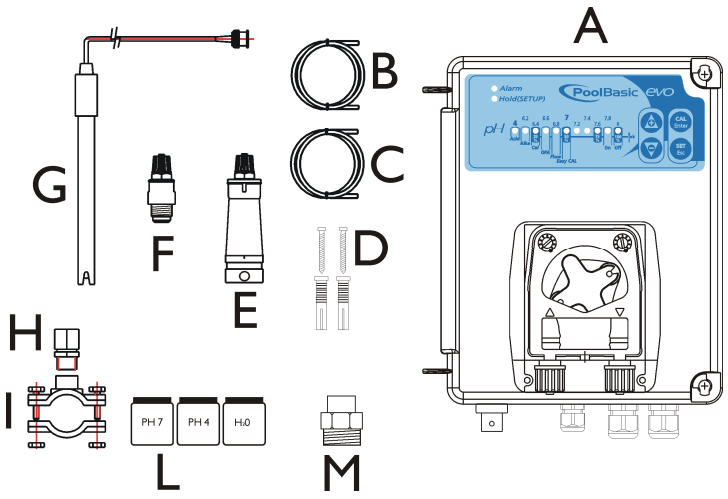
WARNINGS

!IMPORTANT!

Before carrying out <u>ANY</u> work inside control panel of the Pool Basic Evo device, make sure you disconnect it from the power supply.

FAILURE TO COMPLY WITH THE INSTRUCTIONS CONTAINED IN THIS MANUAL COULD CAUSE INJURY TO PEOPLE AND/OR DAMAGE TO THE APPLIANCE AND THE SYSTEM.

PACK CONTENTS



A) "Pool Basic" pH control device (standard model)
B) PVC Cristal 4x6 suction hose (4 m)
C) Polyethylene delivery hose (5 m)
D) Attachment screw (ϕ=6 mm)
E) Foot filter (PVC riser)
F) FPM duckbill valve (3/8" GAS)
G) SPH-1 pH electrode
H) PSS3 probe-socket (1/2" GAS)
I) Tapping saddle for securing PSS3 onto 2" hose (ϕ=50 mm)
L) pH 4, pH 7, H_2O buffer solution kit
M) Reducer for injection valve

The pH probe is a product subject to wear and tear and is therefore not covered by the warranty.

Chemical products:
Recommended for lowering pH => negative pH (with a sulphuric acid base)
Recommended for raising pH => positive pH (sodium carbonate or bicarbonate)

ABSOLUTELY not recommended => pure sulphuric acid

Note: These products are <u>DANGEROUS</u> (I A) and require special precautions during use, handling and storage.

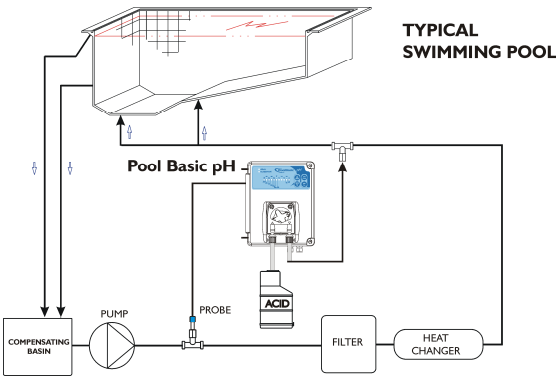
Pool Basic Evo was designed to regulate the pH of tanks up to 90 m^3.

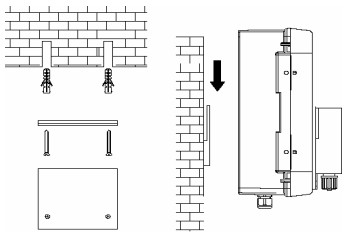
B **NEVER mix chemical products.**

B NEVER allow children or people who have not read this manual to use or tamper with Pool Basic Evo or any of its peripheral components (including chemical products).

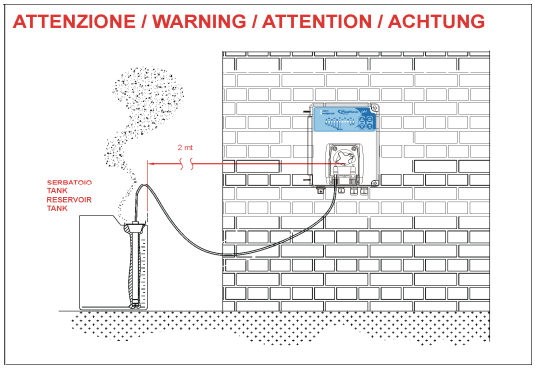
TECHNICAL SPECIFICATIONS

Dimensions (H – W – L)	234x162x108 mm	Maximum back-pressure	1,5 bar
Weight	1 kg	Pump state	Pause - Supply
Power supply 50 Hz	230 VAC	pH scale	6.2 pH – 8.0 pH
Consumption	7 W o 12,5 W	pH control range	0.0 pH – 14.0 pH
Pump flow rate	1,5 l/h; 5 l/h	Device precision	+/- 0.02 pH
Electrode regulation	Automatic		





Wall Mounting Setup



<u>Make sure that the injection pressure is below 1.5 bar.</u>

Use with salt chlorinator:

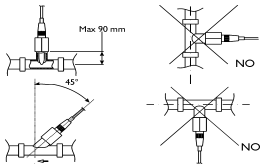
To prevent the risk of system malfunctioning or damage, observe the following instructions:

1/ Position the pH measuring probe prior to the chlorinator cell.

2/ To eliminate eddy currents, connect the pool water to an electrical ground point

3/ Position the product injection point after the chlorinator cell.

Positioning the probe:



For optimum probe reading, position it perpendicular to the tubing (probe cable extracted upward).

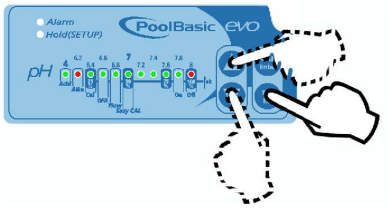
! The probe's angle of inclination must never exceed 45°from vertical.

Electrical wiring:

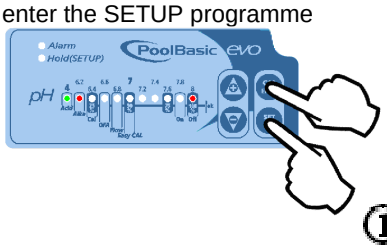
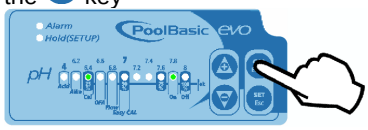
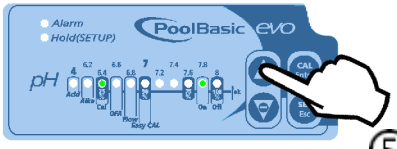
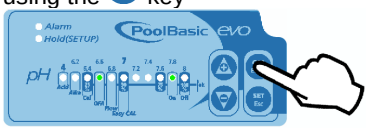
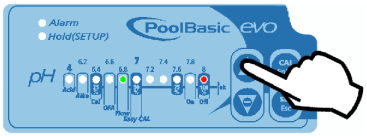
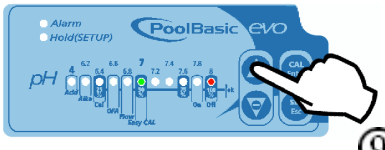
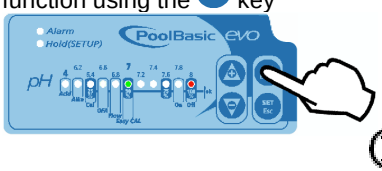
Connect the power supply cable to the mains and the servocontrol pre-wired cable to the auxiliary contact of the filter box (230 Vca)

Set Point adjustment

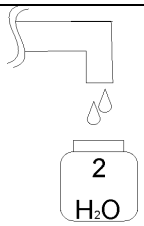
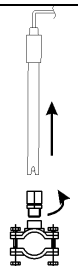
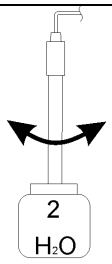
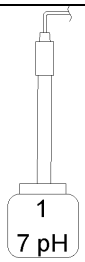
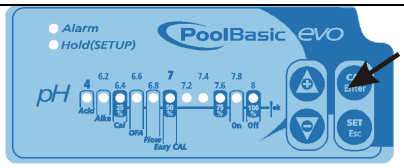
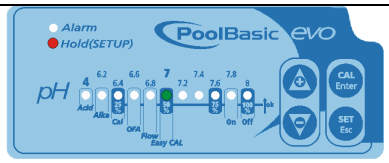
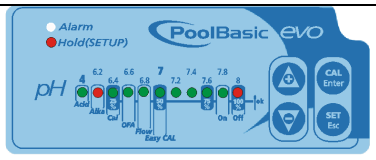
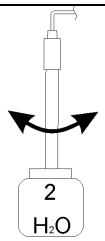
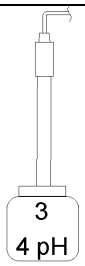
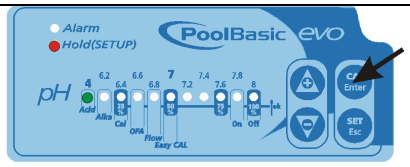
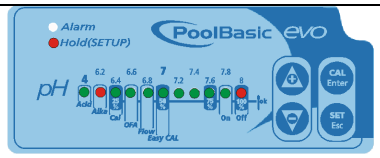
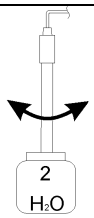
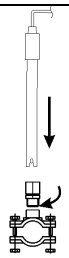
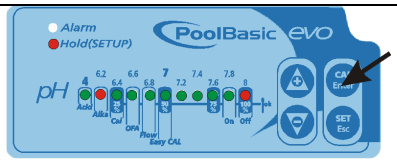
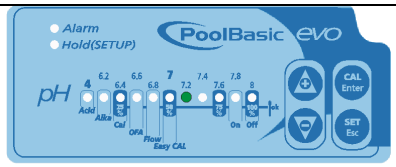
Keep the SET Esc key pressed down and set the desired value using the ▲ and ▼ keys.



Adjustment (Setup)

Press the CAL Enter and SET Esc keys (simultaneously) for 5 seconds to enter the SETUP programme 	*Acid* enables you to dose an acid product (negative pH) *Alka* enables you to dose an alkaline product (positive pH). Set using the CAL Enter key 	Press the ▲ key twice to progress to the *Cal* light 
Block or authorise calibration using the CAL Enter key 	Press the ▲ key to progress to the *OFA light* (see page 4) 	Block or authorise the OFA alarm using the CAL Enter key 
Press the ▲ key to progress to the *Flow* light (see page 4) 	Block or authorise the Flow function using the CAL Enter key 	Press the ▲ key to progress to the *Easy Cal* light 
Block or authorise the Easy Cal function using the CAL Enter key 	Confirm and exit the setup menu using the SET Esc key 	

Probe Calibration

1  	2 	3  Wash
4  Keep probe into Buffer solution	5  Press Cal Key 5 Seconds	6  Please Wait Calibration During 1 minute
7  Quality Probe	8  Wash	9  Keep probe into Buffer solution
10  Press Enter Key and calibrate second point 4 pH buffer solution Please Wait during 1 minute	11  Quality Probe	12  Wash
13 	14  Press Enter Key to save and exit	15  Normal Status

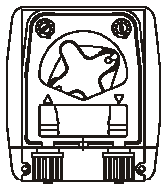
Note:
If you have setting EASY CAL the calibration function has 1 point calibrate only 7 pH buffer solution.

The pump:

When the regulation device must be stored, clean water should be pumped through the hose in order to rinse it. Then position the roller arm at 45°, turning it **clockwise**.
These two precautions will facilitate subsequent reactivation of the device.

Keep away from freezing conditions.

The probe:

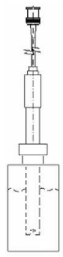


Extract the pH probe from the relative probe holder. Replace it in the original bottle filled with tap water. If necessary, close the probe holder using a plug the size of a 5 euro cent coin.

! Keep away from freezing conditions, intense heat and direct sunlight.

! DO NOT INSERT EXCESSIVE QUANTITIES of chemical product above the probe.

As the pH electrode is comprised of glass elements, handle it with care.



The alarms

OFA (overdose alarm):

First OFA alarm: the **ALARM** light flashes; activation after 3 consecutive dosing cycles in which the set value was not reached; the system continues to guarantee the measurement and dosing functions.

Second OFA alarm: the **ALARM** light flashes and the **Hold** light comes on; the dosing pump is blocked. The alarm is activated after 4 consecutive dosing cycles in which the set level was not reached; to return to normal operation, press the CAL Enter: button: the device resets the alarms and returns to normal measuring and dosing mode.

Flow: presence of incoming flow (enslavement by the filter pump).

Alarm	Leds	Relay	Actions to do
Level	Alarm led Flashing Hold led light ON	Alarm Relay Close	- Push CAL Enter Key to open Alarm Relay - Restore Product tank
Out Range measure	Alarm led Flashing	Alarm Relay Close	- Push CAL Enter Key to open Alarm Relay - Replace Measure pH
OFA First Alarm (time >28 min)	Alarm led Flashing	Alarm Relay open	- Push CAL Enter Key to reset
OFA Second Alarm (time >40 min)	Alarm led Flashing Hold led light ON	Alarm Relay Close	- Push CAL Enter Key to reset
Flow Rate	Hold led light ON	Alarm Relay open	- Restore Flow Rate
Calibration Function	Alarm led Flashing Hold led light Flashing	Alarm Relay open	- Restore Probe or Buffer solution and repet calibration function
System Error	All leds Flashing	Alarm Relay open	Push CAL Enter Key to retry initialization

Default parameters:

- Set Point value= **7,4 pH**
- Dosing Method = **Acid**
- Calibration = **ON**
- OFA = **OFF**
- Flow Rate= **ON**
- Easy Calibration = **OFF**

To restore Default parameters run Following steps:

- Power off Pool Basic unit
- Keep Press ▲ with ▼ Key and Power On
- The unit flashing all leds
- Press CAL Enter Key to restore Default parameters.