Basic Time

WARNINGS
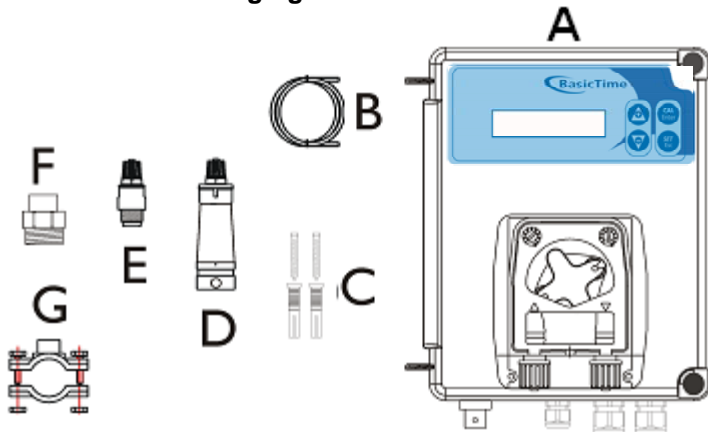### !ATTENTION!

Disconnect power supply before carrying out ANY operation inside the Basic Time regulator control panel.

NON-OBSERVANCE OF THE INSTRUCTIONS CONTAINED IN THE PRESENT MANUAL COULD CAUSE INJURY TO PEOPLE AND/OR DAMAGE TO THE DEVICE.

The Basic Time is a timed dosing system.

Contents of Packaging:

A) "Basic Time" Control System
B) Polyethylene delivery tube (5 m) X2
C) Screw plugs (ϕ=6 mm)
D) Bottom filter (PVC)
E) FPM non-return valve (3/8" GAS)
F) Adaptor for non-return valve
G) Mounting bracket for PSS3 2" inches (ϕ=50 mm)

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

- **The Basic Time System has been designed to regulate pools from 5 to 150 m³.**
- **NEVER mix chemical products**
- **NEVER allow children or people who have not read this manual to use or tamper with the Basic Time System or any of its peripheral components (including chemical products).**

TECHNICAL FEATURES

Dimensions (H –W – L)	234x162x108 mm	**Maximum back - pressure**	1.5 bar
Weight	1 kg	**Pump dosing**	Standby
Power (50-60 Hz)	100÷240 VAC	**Absorption**	8 W
Dosing Calibration	Manual		

Pump flow rate		
1	min 2.5 mL/h	Max 25 ml/h
2	min 15.1 mL/h	Max 151 ml/h
3	min 151.2 mL/h	Max 1,512 ml/h
4	min 540 mL/h	Max 5,400 ml/h
5	min 975 mL/h	Max 9,750 ml/h

Accessories upon request
Power (Step-Up)   12 – 24 (VAC – VDC)
Consumption (Step-Up)   10 W max
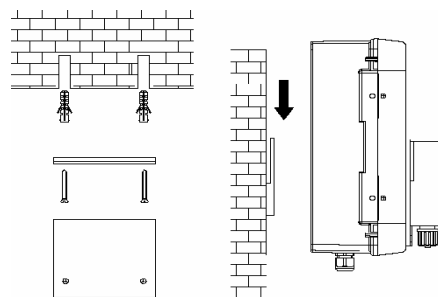
ASSEMBLY
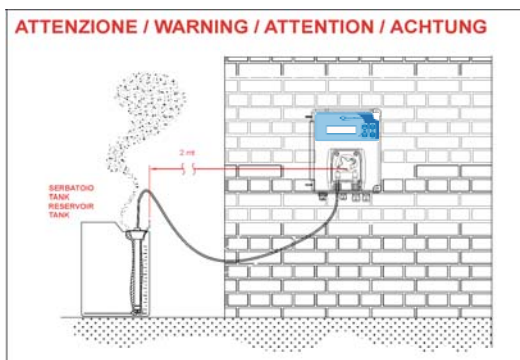
Make sure that the injection pressure is below 1.5 bar.

Electrical Connection:
Connect the power supply cable to the general power supply network and in parallel connect the Flow connector to the recirculation pump if present on the system; the Flow inlet (230 Vac) is connected to the Flow function, if enabled (ON) it allows the dosing to be activated when the system recirculation is present.

Connect the level probe (included in the package) to the "Level Probe" connector (Arrow).
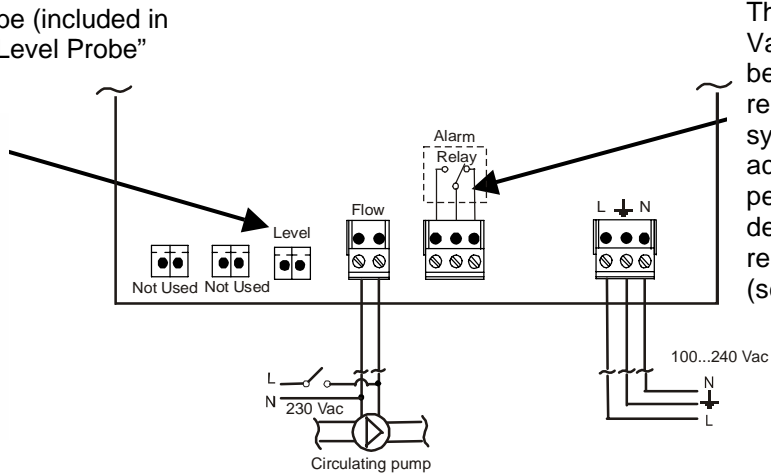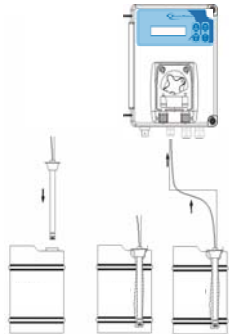
The S.V. (Solenoid Valve) terminals can be connected to the relay, an external system that can activate or delay the peristaltic pump depending on the relay management (see **Weekly Prog.**).
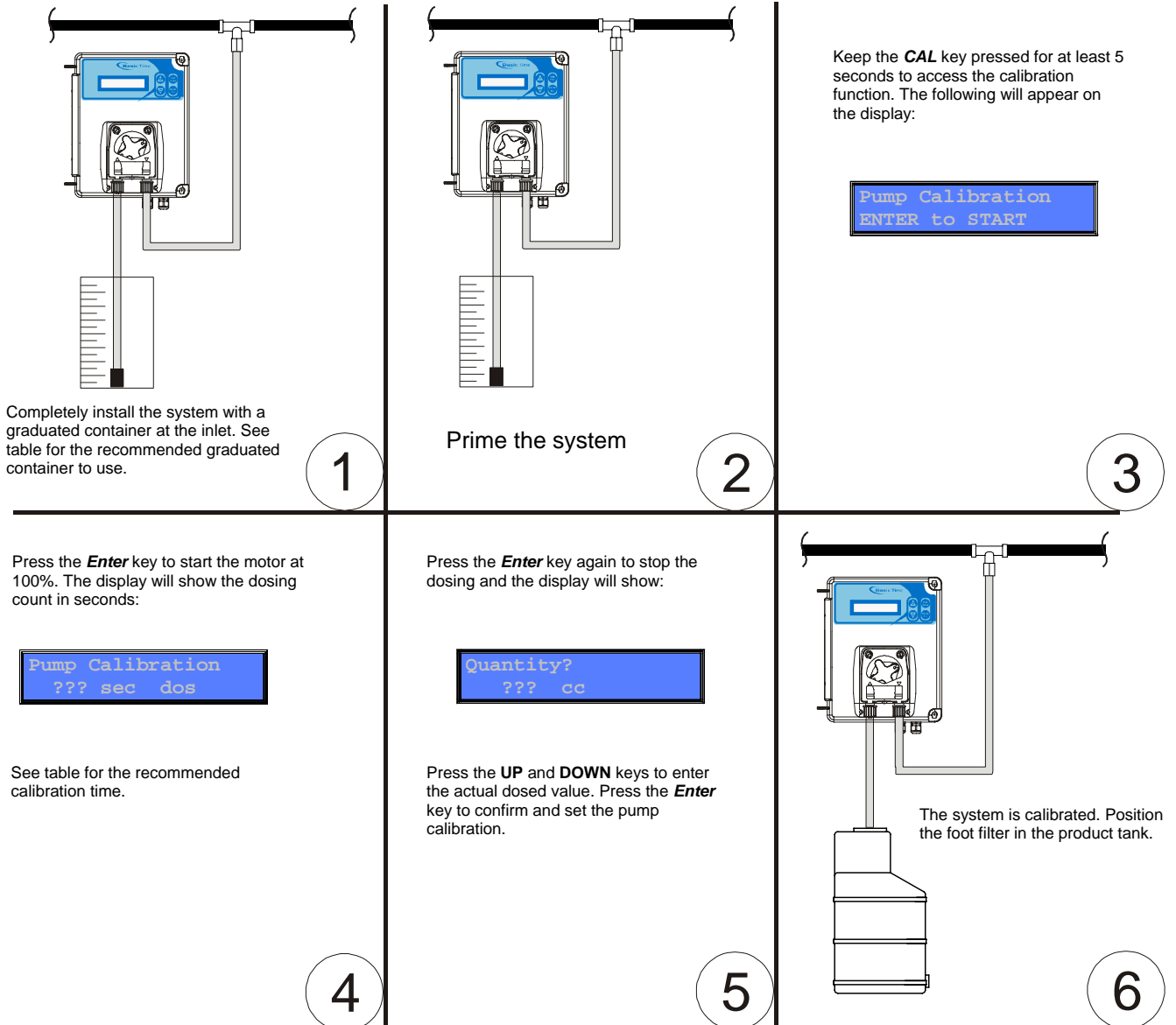

Programming

The programming menu can be accessed by simultaneously pressing the *Enter* and *Esc* keys for at least 5 seconds.
If a password other than 0000 is set, the system will ask for the password to access the programming menu.
Upon release of the keys the display will show:

Display	*Settings*
Language **English**	EN, FR, DE, ES, IT
Weekly Timer	10 programmable schedules for dosing are accessed.
Advanced	Four submenus are accessed with *Advanced*: • Clock • Calibration • Flow • Password

Access the submenu with the *Enter* key.

Calibration Function

Completely install the system with a graduated container at the inlet. See table for the recommended graduated container to use.

1

Prime the system

2

Keep the **CAL** key pressed for at least 5 seconds to access the calibration function. The following will appear on the display:

```
Pump Calibration
ENTER to START
```

3

Press the *Enter* key to start the motor at 100%. The display will show the dosing count in seconds:

```
Pump Calibration
   ??? sec  dos
```

See table for the recommended calibration time.

4

Press the *Enter* key again to stop the dosing and the display will show:

```
Quantity?
   ???  cc
```

Press the **UP** and **DOWN** keys to enter the actual dosed value. Press the *Enter* key to confirm and set the pump calibration.

5

The system is calibrated. Position the foot filter in the product tank.

6

Version	Recommended duration Calibration	Container capacity
2,5 - 25 ml/h	1200 seconds	25 cc
15,1 - 151 ml/h	300 seconds	25 cc
151,2 - 1512 ml/h	60 seconds	100 cc
540 - 5400 ml/h	60 seconds	100 cc
975 - 9750 ml/h	45 seconds	150 cc

Note: The calibration function allows more precise dosing.

Weekly programming submenu display

```
PROG01      LMMGVSD
 00.00      -------
```

Settings

The programs can be scrolled through with the *UP* and *DOWN* keys.
Parameter modifications can be accessed with the *Enter* key:

```
PROG01      hh.mm
Time        08.00
```
Dosing start time

The dosing start time can be set using the **UP** and **DOWN** keys and confirming using *Enter*.

```
PROG01
Quantity    120 cc
```
Quantity to be dosed

This parameter sets the quantity do be dosed. The **UP** and **DOWN** keys set the desired quantity which is confirmed with the **Enter** key. The maximum quantity which can be set is equal to the maximum flow rate of the pump (maximum dosage of 1h at 100%). For example, if the pump has a flow rate of 1500cc/h, the maximum quantity which can be set is 1500 * 1 = 1500cc = 1.5l. If the dosing is carried out at the minimum (10%), its duration will be 10 times higher (10h). This limitation prevents the possibility of setting dosings whose duration is too long.

To set a higher quantity at the maximum flow rate of the pump, it is sufficient to set two consecutive programmes.

If the chosen model has a maximum settable quantity above 1 litre, the display will show the quantity in l (litres) when exceeding 999cc, e.g. 1.12l.

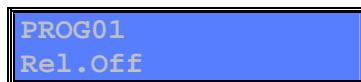| Version	Settable quantity
25cc / h	0 – 25cc
151cc / h	0 – 150cc
1512cc / h	0 – 1.5l
5400cc / h	0 – 5.4l
9750cc / h	0 – 9750cc

```
PROG01          100%
Duration    01:00:00
```
Dosing % / Duration

Once the dosing quantity has been fixed, it is possible to choose the pump speed expressed as a percentage (from 10 to 100%) which automatically fixes the duration of the dosing itself. For example, if the quantity set is 1.5l with a 1500cc/h pump carrying out dosing at 100%, it will last for 1h. Setting dosing at 50%, the duration will be 2h and so on.

The bottom right part of the display shows the time necessary for dosing at that given speed.

```
PROG01
Rel.Off
```
Relay management*

- **Off:** relay deactivated
- **Before:** the relay is activated before the motor (adjustable time 0-999sec.) and is deactivated simultaneously.
- **After:** the relay and the motor are activated simultaneously, but deactivation of the relay is delayed (adjustable time 0-999 sec.).

*If the two programmes are superimposed and one of them envisages activation, **THE RELAY IS ACTIVATED**.

```
PROG01      MTWTFSS
Weekly     -x--x-x
```

Weekly calendar

You can set the activation of the programme selected in the various days of the week. Parameters can be modified by activating the modification using the *Enter* key, selecting the value with the *UP* and *DOWN* keys and confirming it with the *Enter* key. The upper part of the display shows the days of the week as a reference and underneath an X to identify the activation.

Display Advanced Submenu	*Settings*
```Clock Lun 21:42```	With this item of the menu you can set the system date and time. Change the settings by pressing the *Enter* key and select the values using the *UP* and *DOWN* keys. To confirm press *Enter*.
```Calibration On```	You can activate or deactivate the calibration function.
```Flow On```	You can activate or deactivate the Flow function.
```Password 0```	The password can be modified with the UP and DOWN keys, by choosing an incremental value between 0 and 9999.

Standard view

During normal operation, the display will show the dosing quantity which will decrease slowly until it finishes.

```
Lun   10.23    100%
PROG 1        130 cc
```
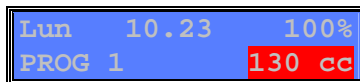
View with active relay

When the relay is activated an **R** will appear on screen as follows:

```
Lun   10.23    100%
PROG 1  R     130 cc
```

MODE Function – Display set parameters

The current pump parameters are accessed by pressing the *Esc* key for at least 5 seconds By keeping the Mode button pressed for at least 5 seconds.
Upon release of the key the display will show:

Display	*Settings*
```Mon 12345678910 12:04```	The *UP* and *DOWN* keys scroll through the list of programs. The days of the week can be scrolled in this way with the *Enter* key (if the selected dosing is active on the day selected, the activation hour and the quantity to be dosed will be displayed, otherwise "**NO**")

If pump activation is to occur within the time frame in which a dosing is planned, the pump will dose for the remaining time relative to that dosing program.
If 2 or more programs overlap, the system will follow the program with the higher index.

Exit Menu:
To exit from the programming Menu, press the *Esc* key, and the system will display:

| *Display*	*Settings*
Exit Save	Exit and save changes with *Enter*.
Exit No Save	Exit and do not save changes with *Enter*.
Password 0	Enter the password (if set) to exit and save changes.

Priming
Priming is activated and deactivated through a side three-position switch (OFF – ON – MOM).
With the switch in the ON position, the system is on and ready for operation.

When the switch is on the OFF position, the pump goes on standby.
The pump:

When the regulation device is stored, it is recommended to pump clean water to rinse the tube.
Then, position the roller holder at 45°, rotating it **clockwise**.
These two precautions will facilitate the subsequent reactivation of the unit.
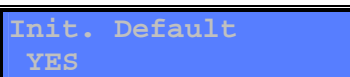
Keep away from frost.
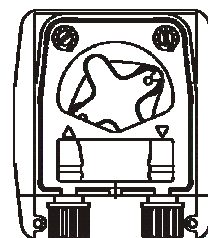
Alarms
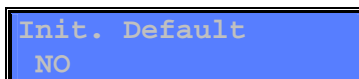**Flow:** presence of inlet flow (slave-operated by the filtering pump).

Alarm Displayed	Description	Solutions
Level	Low level alarm	- Restore product
Flow	Instrument waiting	- Restore Flow
Parameter Error	Parameter Errors	- Press *Enter* to restore parameters
Clock Fail	Clock error	-Press *Enter* to restore operation

To restore the initial parameters (Default), perform the following steps:

- Turn off the instrument
- Hold down the *UP* and *DOWN* keys to turn on the instrument.
- The instrument will display

> Init. Default
 YES

- Press the *UP* or *DOWN* keys to avoid resetting the default parameters

> Init. Default
 NO

- Press *Enter* to confirm

Default Parameters:
Language: English
Dosing: 100%
Weekly Timer: Empty
Advance:
      Time: Maintain the set time
      Calibration: Enabled
      Flow: disabled
      Password 0000 (Disabled)