

# CONTROL BASIC **ASTRALPOOL**

**INSTRUCTIONS MANUAL** **EN**

**HANDBUCH** **DE**

**MANUAL DE INSTALACION** **ES**

**MANUEL D'INSTALLATION** **FR**

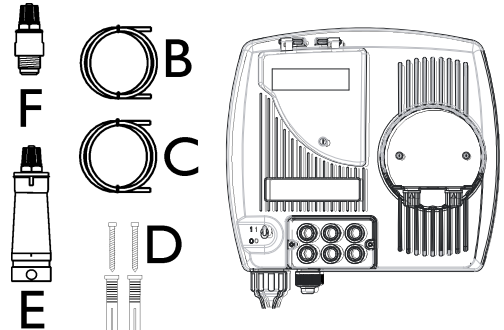
**MANUALE D'INSTALLAZIONE** **IT**

**MANUAL DE INSTALAÇÃO** **PT**

# CONTROL BASIC **ASTRALPOOL**

## PACK CONTENTS

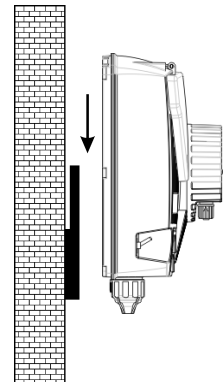
- A) "Basic **ASTRALPOOL**" pH / REDOX control device
- B) PVC Crystal 4x6 with suction device (2 m)
- C) Polyethylene delivery hose (3m)
- D) Attachment screw ( $\phi=6$  mm)
- E) Foot filter (PVC riser)
- F) FPM duckbill valve (3/8" GAS)



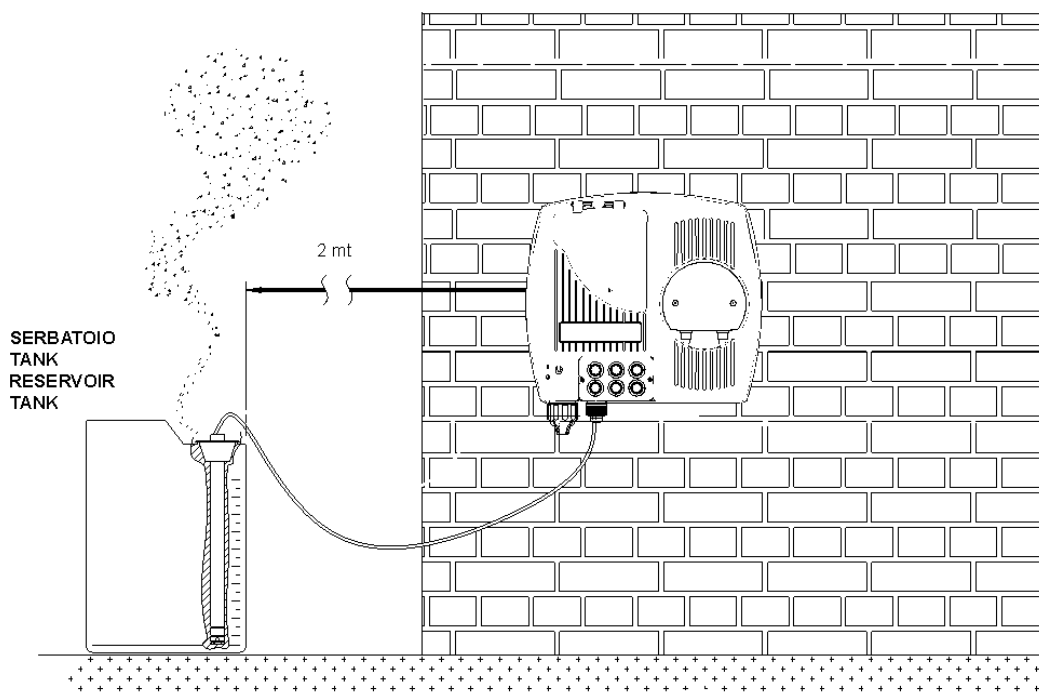
## TECHNICAL SPECIFICATIONS

Dimensions (H – W – L)	234x162x108 mm
Weight	1 kg
Power supply 50 Hz	230 VAC
Consumption	12 W or 18 W
Pump flow rate	1,5 l/h; 5 l/h
Maximum back-pressure	1,5 bar
Pump state	Pause - Supply
Measure scale	0 ÷ 14.0 pH; Redox 0 ÷ +1000 mV
Device precision	± 0,1 pH; ± 10 mV
Device accuracy	± 0,02 pH; ± 2 mV
Electrode regulation	Automatic

## Wall Mounting Setup




## ATTENZIONE / WARNING / ATTENTION / ACHTUNG





# Instruction Setting

## Functions:


- **Calibration**

- (Press  for 3 Seconds):
- Standard Routine calibration for 7 and 4 buffer solution


- **Set Point**

- Press 
  - Keep Press Set Key and adjust value with 

- **Sp\_7.4ph**

- Press  for 5 Seconds and run Program Setup:

- **Program**

- Press  to set the following Item

- **Configuration\_Pump**

- Adjust  pH or Redox

- **Language**

- (It's possible to have 5 language EN, IT, SP, DE, FR)

- **Flow**

- Adjust value with  and 
    - It's possible to enable(ON) or disable (OFF) signal input



- **Setpoint\_\_\_\_\_7.4ph**

- Adjust value with  and 
  - It's possible to adjust from 0 to 14 pH value and 0 to 1000 mV for Redox



- **Setpoint\_Type\_\_\_Acid**

- Adjust value  and 
  - It's possible to adjust Acid or Alkaline dosing and High or Low for Redox



○ **OFA\_Time\_\_\_\_\_off**

- Adjust value  and 
- It's possible to adjust OFA time in minutes

○ **Calibration\_\_\_7/4pH**

- Adjust value  and 
- It's possible to select 2 points 7 and 4 pH, 1 point only 7pH or function disable; for Redox function disable only.

○ **Man\_Temperature\_25°C\_**

- Adjust value  and 
- pH measure only.

- Save and escape Program setup with ESC key

○ **Exit\_\_\_\_\_save**

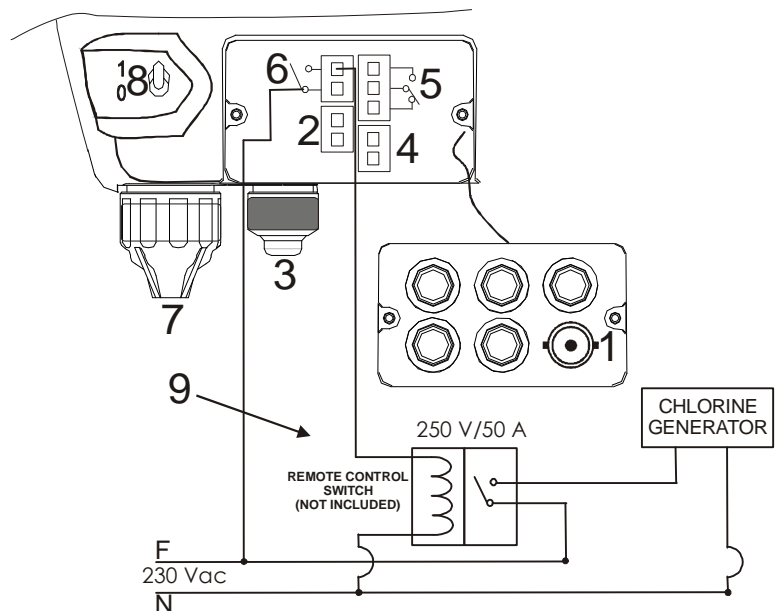
- Adjust value with  up or down key and confirm with 

- Priming Pump Keep Press  for 3 seconds

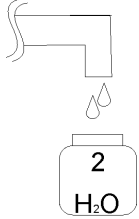
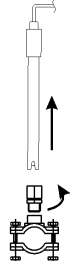
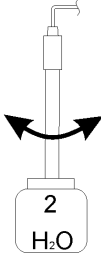
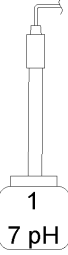


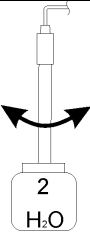
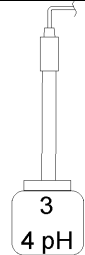

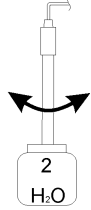


○ **Priming**

**Wire Connection:**

- 1) Input pH or Redox Probe
- 2) Input Temperature Probe (PT100)
- 3) Input Level Probe (Product Tank)
- 4) Input Flow Rate (High Voltage 230 Vac)
- 5) Output Relay Alarm remote (Dry contact, Relay 250 Vac 10 A)
- 6) Output Relay Drive Solenoid Valve (Dry contact, Relay 250 Vac 10 A)
- 7) Power Supply 230 Vac
- 8) Switch Power Supply
- 9) Connection to a chlorine generator (example)



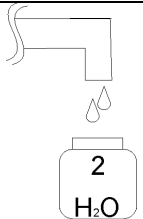
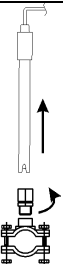
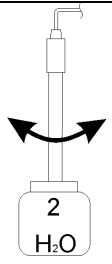
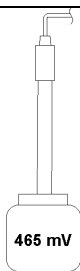


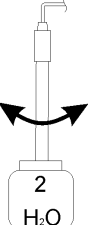
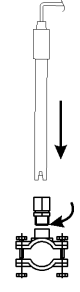

## pH Probe Calibration

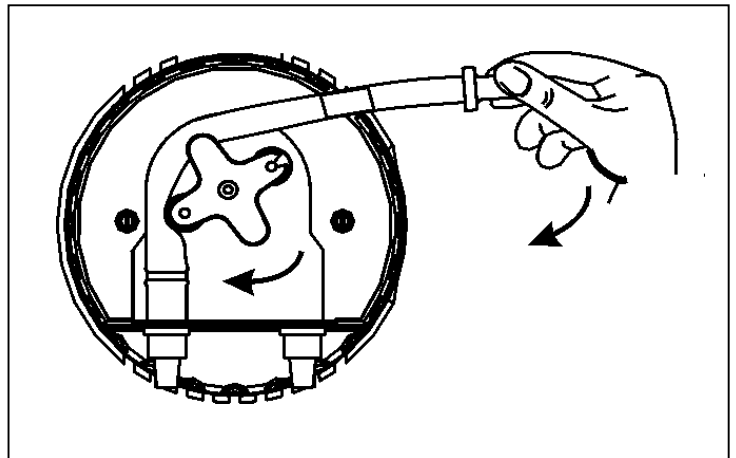
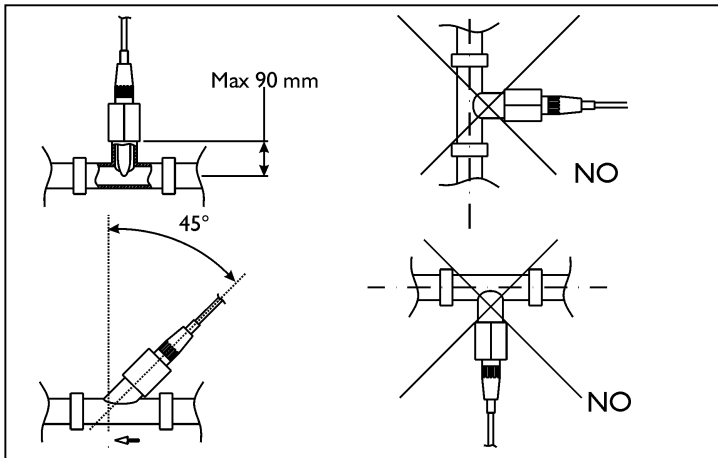
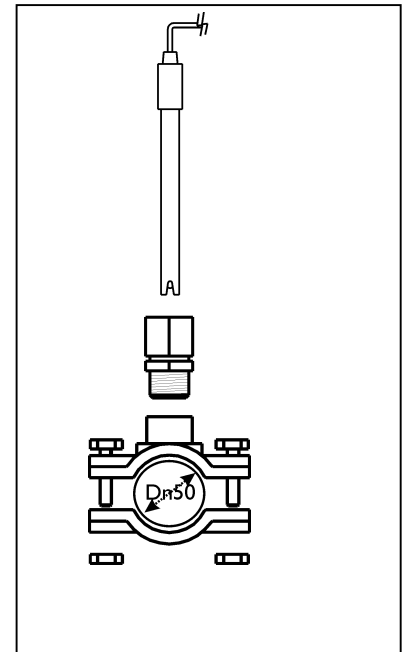
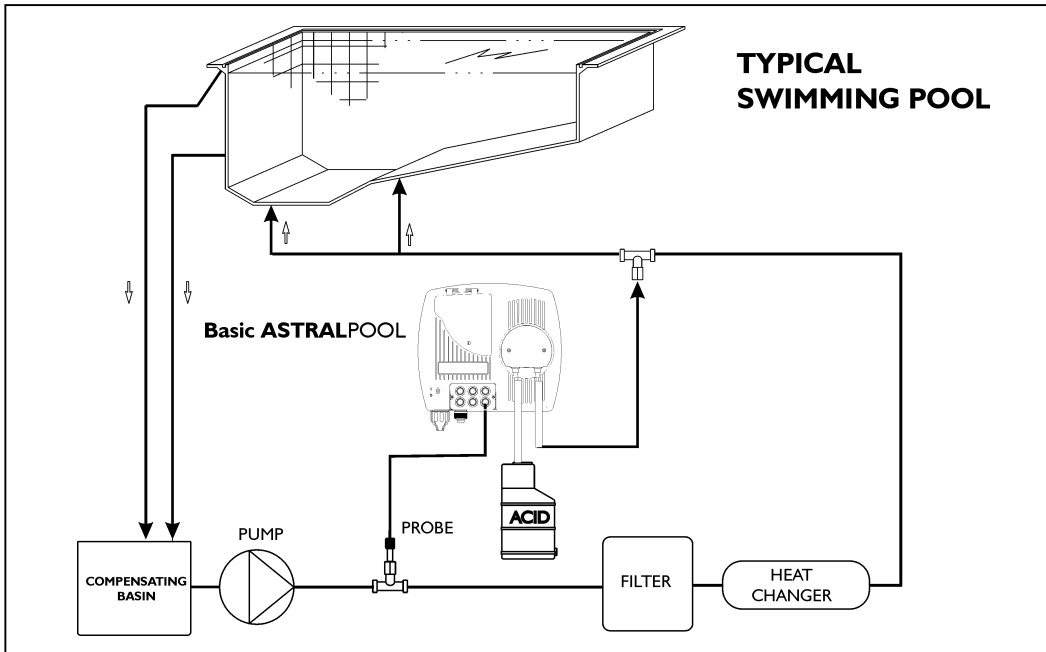
 <b>1</b>	 <b>2</b>	 <b>3</b> Wash
 <b>4</b> Keep probe into Buffer solution	<p><b>Calibration</b></p>  Press Cal Key 3 Seconds <b>5</b>	<p><b>7pH__Press_CAL</b></p>  Calibration During 1 minutes <b>Wait_____60s</b> <b>6</b>
<p><b>7pH_Quality_100%</b></p> Quality Probe <b>7</b>	 <b>8</b> Wash	 <b>9</b> Keep probe into Buffer solution
<p><b>4pH__Press_CAL</b></p>  Calibration During 1 minutes <b>Wait_____60s</b> <b>10</b>	<p><b>4pH_Quality_100%</b></p> Quality Probe <b>11</b>	 <b>12</b> Wash
 <b>13</b>	 Press Enter Key to save and exit <b>14</b>	<b>15</b> Normal Status

**Note:**

If you have setting Calibration = 7 pH the function has 1 point calibrate only 7 pH buffer solution.

## Redox Probe Calibration

<p>①</p> 	<p>②</p> 	<p>③</p>  <p style="text-align: center;">Wash</p>
<p>④</p>  <p style="text-align: center;">Keep probe into Buffer solution</p>	<p><b>Calibration</b></p>  <p style="text-align: center;">Press Cal Key 3 Seconds</p> <p>5</p>	<p><b>465mv__Press_CAL</b></p>  <p style="text-align: center;">Calibration During 1 minutes</p> <p><b>Wait_____60s</b></p> <p>6</p>
<p><b>465mv_Quality_100%</b></p> <p>Quality Probe</p> <p>7</p>	<p>⑧</p> 	<p>⑨</p> 
 <p style="text-align: center;">Press Cal Key 3 Secondù</p> <p>10</p>	<p style="text-align: center;">Normal Status</p> <p>11</p>	



Alarm	Display	Relay	Actions to do
Level	<b>Level___7,2_ph</b>	Alarm Relay Close	- Push Enter Key to open Alarm Relay - Restore Product tank
OFA First Alarm (time >70%)	<b>OFA_Alarm__7,2_ph</b>	Alarm Relay open	- Push Enter Key to reset
OFA Second Alarm (time =100%)	<b>OFA_STOP__7,2_ph</b>	Alarm Relay Close	- Push Enter Key to reset
Flow Rate	<b>Flow_____7,2_ph</b>	Alarm Relay open	- Restore Flow Rate
System Error	<b>Parameter_Error</b>	Alarm Relay Open	- Press Enter Key to replace Default parameter - Destroy Unit
Calibration Funciont	<b>Error_7_ph</b> <b>Error_4_ph</b> <b>Error_465_mV</b>	Alarm Relay open	- Restore Probe or Buffer solution and repeat calibration function

**Default parameters:**

- Language = **UK**
- Set Point value= **7,4 pH; 750mV (Rx)**
- Dosing Method = **Acid; Low (Rx)**
- Time OFA = **OFF**
- Calibration = **7/4 (2 point); 465mV (Rx)**
- Flow Input= **OFF**

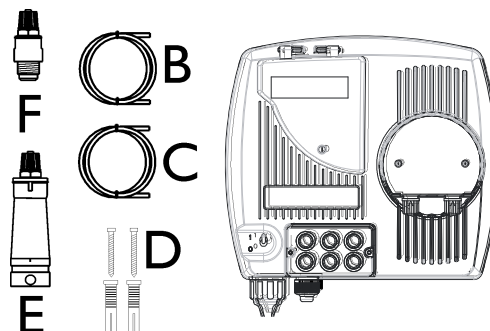
**To restore Default parameters run Following steps:**

- Power off Pool Basic unit
- Keeping Press UP and DOWN Key switch on the Power.
- The unit will flash **Init.default\_\_no**
- Press up **Init.default\_\_Yes**
- Enter Key to restore Default parameters

# CONTROL BASIC **ASTRALPOOL**

## Verpackungsinhalt

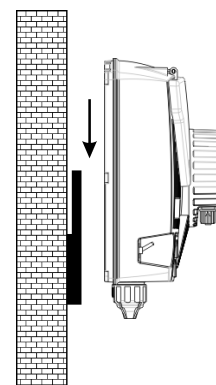
- A) "Basic **ASTRALPOOL**" pH / REDOX Kontrollsystem
- B) PVC-Schlauch Crystal 4x6 (2 m)
- C) Polyethylen-Schlauch (3 m)
- D) Schrauben mit Dübeln ( $\phi = 6$  mm)
- E) Fußfilter (PVC)
- F) Rückschlagventil aus FPM (3/8" GAS)



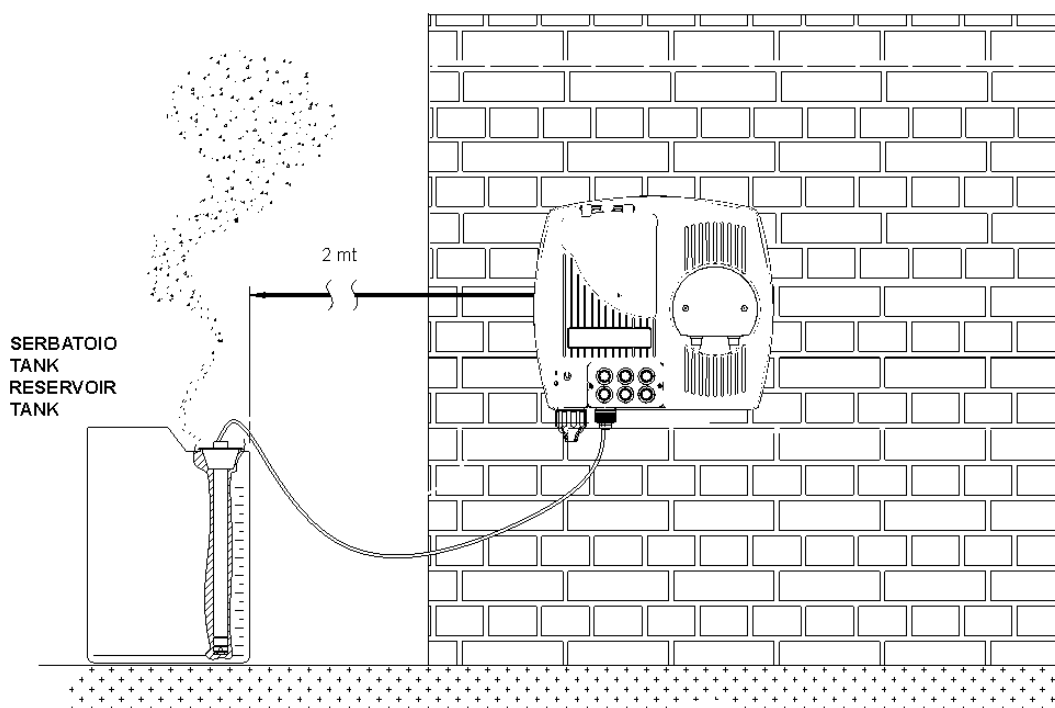
## TECHNISCHE DATEN

Abmessungen (H - B - T)	234x162x108 mm
Gewicht	1 kg
Spannungsversorgung	230 Vac
Verbrauch	12 W oder 18 W
Förderleistung der Pumpe	1,5 l/Std.; 5 l/Std.
Max. Gegendruck	1,5 bar
Pumpenstatus	Pause - Betrieb
Messskala	0 ÷ 14.0 pH; Redox 0 ÷ +1000mV
Messgenauigkeit	$\pm 0,1$ pH; $\pm 10$ mV
Genauigkeit Maß	$\pm 0,02$ pH; $\pm 2$ mV
Kalibrierung der Elektrode	automatisch

## Wandmontage



## ATTENZIONE / WARNING / ATTENTION / ACHTUNG








# Einstellungen

## Funktion:


- **Kalibrierung**

- 3 Sekunden lang die Taste  drücken
  - Standardabfolge der Kalibrierung für Pufferlösung mit pH-Wert 7 und 4.

- **Set Point**

- Taste  drücken
  - Die Taste Set Key gedrückt halten und den Wert über die Tasten  verändern.

- **Sp\_ 7.4ph\_\_\_\_\_**

- Die Tasten  (zusammen) 5 Sekunden lang gedrückt halten, um in das Konfigurationsmenü zu gelangen:

- **Parameter**

-  drücken, um die folgenden Punkte einzustellen


- **Konfig\_Pumpe**

- (pH oder Redox wählen)



- **Sprache**

- (Es können 5 Sprachen eingestellt werden EN, IT, SP, DE, FR)



- **Fluss**

- Über die Tasten  auswählen
- Der Durchflusseingang (Hochspannung), der parallel zur Rückförpumppe angeschlossen ist, kann aktiviert (ON) oder deaktiviert (OFF) werden.



- **Sollwert\_\_\_\_\_ 7.4ph**

- Über die Taste  auswählen und über  einstellen)
- Der Wert kann zwischen 0 und 14 pH oder für Redoxmessungen zwischen 0 und +1000 mV verändert werden.



- **Sollwert\_Typ\_\_Saure**

- Über die Taste  auswählen und über  einstellen
- Kann zur Dosierung einer alkalischen oder einer sauren Lösung oder für Redox auf High oder Low gestellt werden.



○ **OFA\_Zeit** \_\_\_\_\_ **off**

- Über die Taste  auswählen und über  einstellen
- Hier kann die OFA-Zeit (Zeit der Überdosierung in Minuten) verändert werden.

○ **Kalibration\_7/4pH**

- Über die Taste  auswählen und über  einstellen
- Die Abfolge der Kalibrierung kann auf 2 Punkte (7 und 4 pH), oder nur auf 1 Punkt (nur 7 pH) eingestellt oder die Funktion deaktiviert werden; für Redox haben wir 465 mV oder Funktion deaktiviert.

○ **Temperatur\_Man 25°C**

- Über die Taste  auswählen und über  einstellen
- Der Temperaturwert kann manuell eingegeben werden (nur bei der pH-Messung)

- Speichern und das Programmmenü über die Taste ESC verlassen.

○ **Verlassen** \_\_\_\_\_ **Sichern**

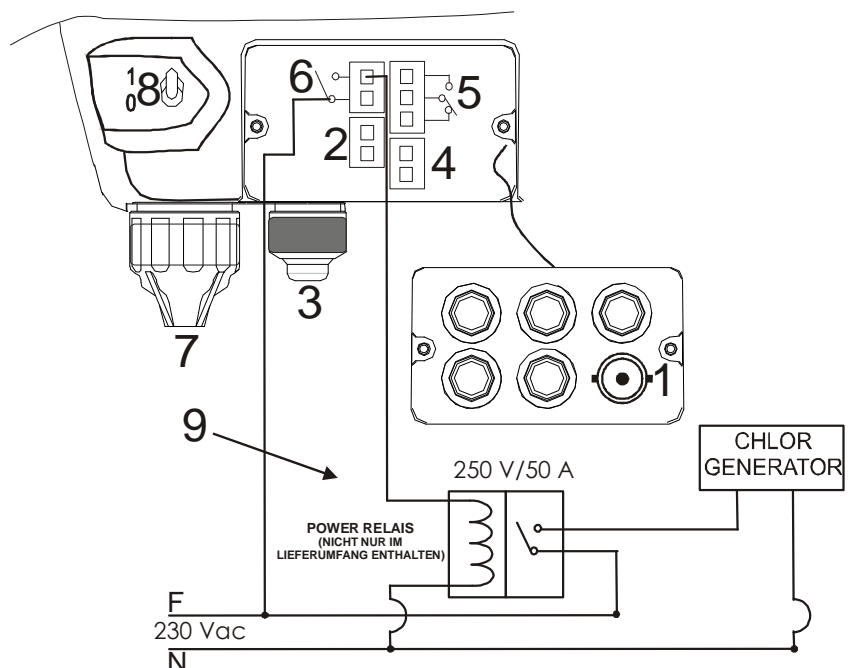
- Über die Taste  auswählen und über  einstellen

- Für die Funktion manuelles Ansaugen die Taste  3 Sekunden lang gedrückt halten

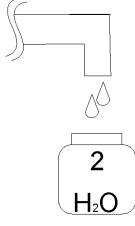
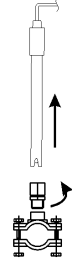
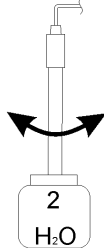
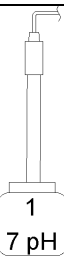


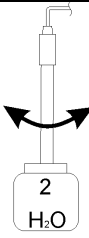
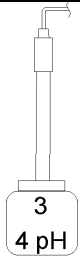

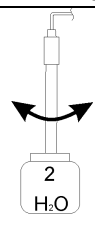


○ **Ansaugung** \_\_\_\_\_

- 1) Eingang pH- oder Redoxfühler
- 2) Eingang Temperaturfühler (PT100)
- 3) Eingang Füllstandssonde (Produkt im Produkttank)
- 4) Durchflusseingang, Durchfluss Rückförpumppe (elektrisches Signal 230 Vac)
- 5) Ausgang Alarmrelais (Kontakt sauber, Relais 250 Vac, 10 A Widerstandsbelastung)
- 6) Ausgang Relais für Elektroventil (Kontakt sauber, Relais 250 Vac, 10 A Widerstandsbelastung)
- 7) Stromversorgung 230 Vac 50 Hz.
- 8) Stromunterbrechungsschalter.
- 9) Der Anschluss an eine Chlor-Generator (beispiel)

**Anschluss der Kabel**



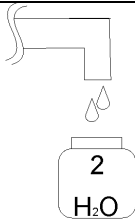
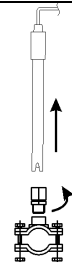
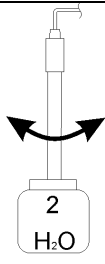
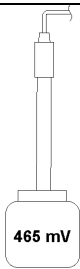


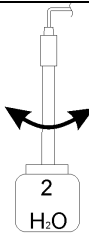
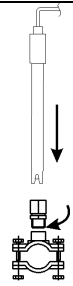

## Kalibrierung der pH-Sonde

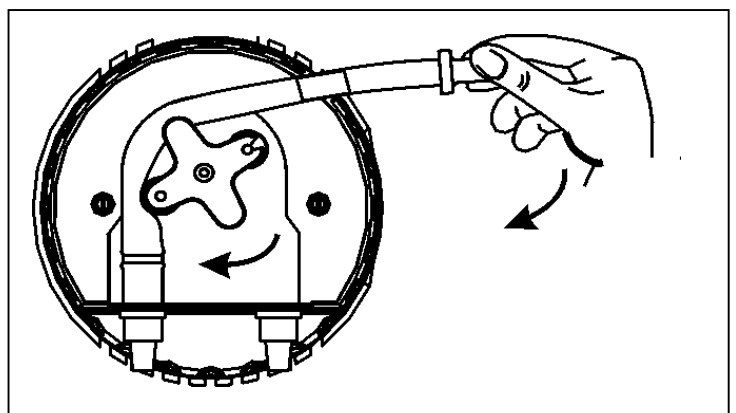
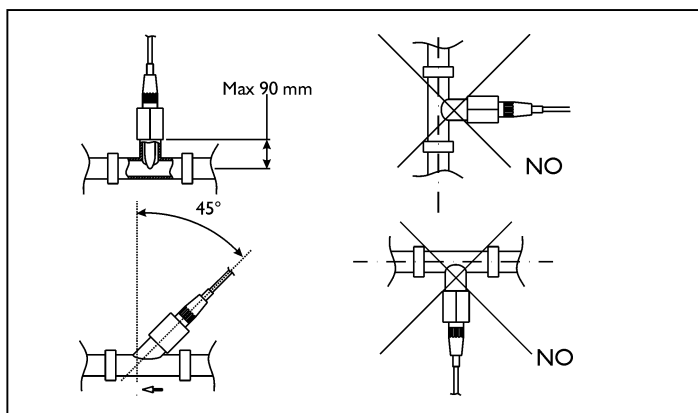
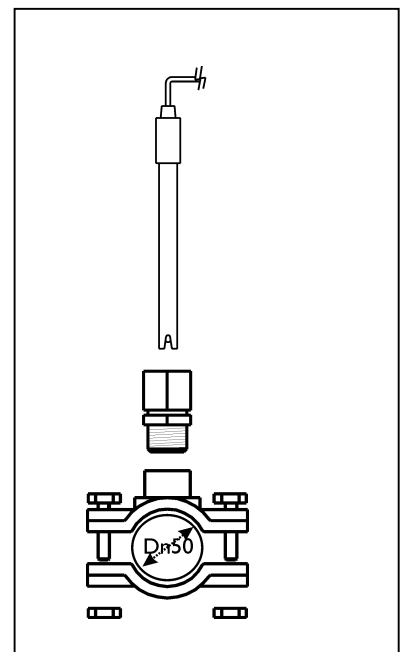
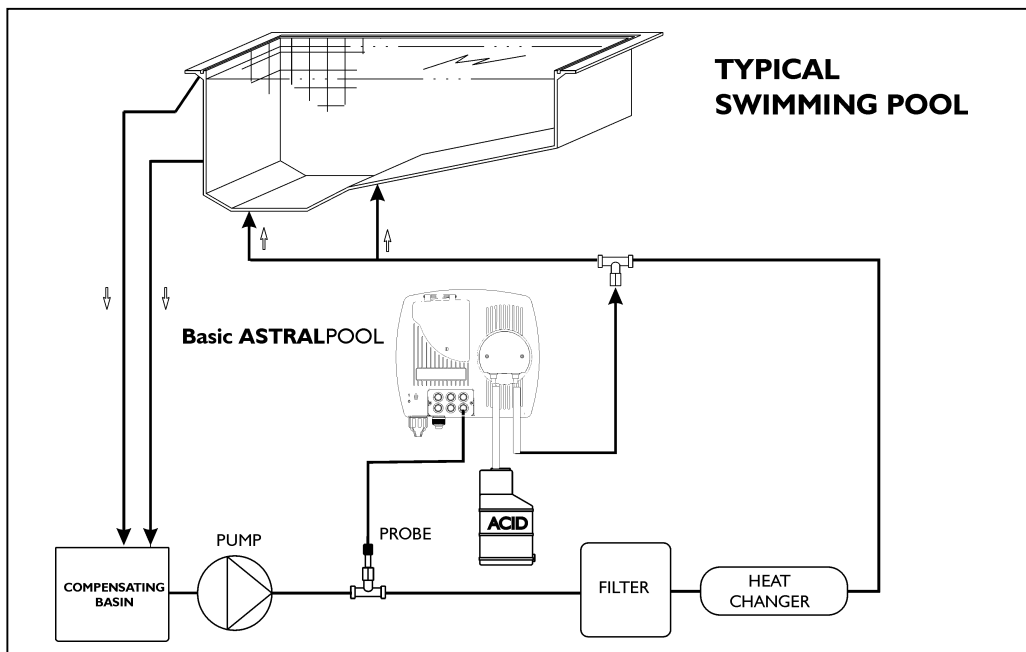
 <b>1</b>	 <b>2</b>	 <b>3</b> Die Sonde spülen
 <b>4</b> Die Sonde in die Pufferlösung halten	<p><b>Kalibration</b></p>  Die Taste KAL 3 Sekunden lang drücken <b>5</b>	<p><b>7pH_CAL_Drucken</b></p>  Die Kalibrierung dauert eine Minute <b>60s ___ Pause</b> <b>6</b>
<p><b>7pH_Qualitat_100%</b></p> Qualität der Sonde <b>7</b>	 <b>8</b> Die Sonde spülen	 <b>9</b> Die Sonde in die Pufferlösung halten
<p><b>4pH_CAL_Drucken</b></p>  Die Kalibrierung dauert eine Minute <b>60s ___ Pause</b> <b>10</b>	<p><b>4pH_Qualitat_100%</b></p> Qualität der Sonde <b>11</b>	 <b>12</b> Die Sonde spülen
 <b>13</b>	 Die Taste Key drücken, um die Kalibrierung zu verlassen und die Daten zu speichern <b>14</b>	Normaler Mess- und Kontrollstatus <b>15</b>

**Hinweis:**

Wenn wir die Funktion Kalibrierung = 7 pH einstellen, führt das System die Kalibrierung nur für den Punkt 7 pH aus.

## Kalibrierung der Redox-Sonde

<p>①</p> 	<p>②</p> 	<p>③</p>  <p>Die Sonde spülen</p>
<p>④</p>  <p>Die Sonde in die Pufferlösung halten</p>	<p><b>Kalibration</b></p>  <p>Die Taste Kal 3 Sekunden lang drücken</p> <p>5</p>	<p><b>465mv_CAL_Drucken</b></p>  <p>Die Kalibrierung dauert eine Minute</p> <p><b>60s_Pause</b></p> <p>6</p>
<p>7</p> <p><b>465mv_Qualitat_100%</b></p> <p>Qualität der Sonde</p>	<p>⑧</p>  <p>Die Sonde spülen</p>	<p>⑨</p> 
<p>10</p>  <p>Die Taste Kal 3 Sekunden lang drücken</p>	<p>11</p> <p>Normaler Mess- und Kontrollstatus</p>	



Alarm	Display	Relais	Was ist zu tun
Füllstandsalarm	<b>Fullstand__7,2_ph</b>	Alarm Relais geschlossen	- Die Taste Enter drücken, um den Alarm auszuschalten - Produkt im Produkttank auffüllen
Erster OFA-Alarm (Zeit >70%)	<b>Alarm_OFA_7,2_ph</b>	Alarm Relais geöffnet	- Die Taste Enter drücken, um den Alarm zu beseitigen
Zweiter OFA-Alarm (Zeit=100%)	<b>STOP_OFA_7,2_ph</b>	Alarm Relais geschlossen	- Die Taste Enter drücken, um den Alarm zu beseitigen
Wasserdurchfluss (Rückführungspumpe ausgeschaltet)	<b>Fluss__7,2_ph</b>	Alarm Relais geöffnet	- Wasserrückführungspumpe wieder einschalten.
Systemfehler	<b>Parameter_Error</b>	Alarm Relais geöffnet	- Enter drücken, um die Werkseinstellungen wieder herzustellen - System kaputt
Kalibrierfunktion	<b>Fehler_7_ph</b> <b>Fehler_4_ph</b> <b>Fehler_465_mv</b>	Alarm Relais geöffnet	- Die Sonde oder die Pufferlösung austauschen und die Kalibrierung wiederholen.

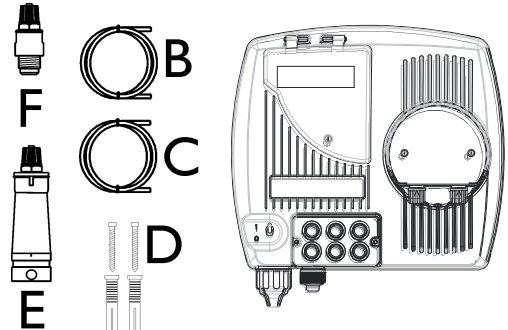
- Werkparameter:**
- Sprache = **UK (Englisch)**
  - SetPoint Wert = **7,4 pH; 750mV (Rx)**
  - Dosiermethode = **Säure; Niedrig (Rx)**
  - OFA-Zeit = **OFF**
  - Kalibrierung = **7/4 (2 Punkte); 465mV**
  - Durchflusseingang = **OFF**

- Um die Werkseinstellungen (Default) wieder herzustellen, wie folgt vorgehen:**
- Das Basic-System ausschalten
  - Die Taste UP (Aufwärts) und DOWN (Abwärts) gedrückt halten und das Basic-System einschalten.
  - Das System zeigt folgendes an: **Initial Strörung\_\_no**
  - UP (Aufwärts) drücken **Initial Strörung\_\_Yes**
  - Die Taste Enter drücken, um die Parameter wieder herzustellen.

# BASIC **ASTRALPOOL**

## Contenido de la caja

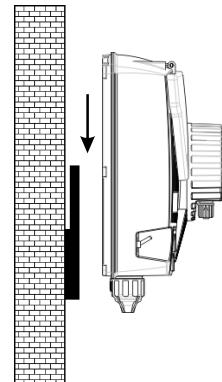
- A) Controlador "Basic **ASTRALPOOL**" pH / REDOX
- B) Tubo PVC cristal 4x6 mm para aspiración (2 m)
- C) Tubo PEAD 4x6 m para impulsión (3m)
- D) Tornillos ( $\phi=6$  mm)
- E) Válvula de pie (PVC )
- F) Válvula de inyección (labio) FPM (3/8" GAS)



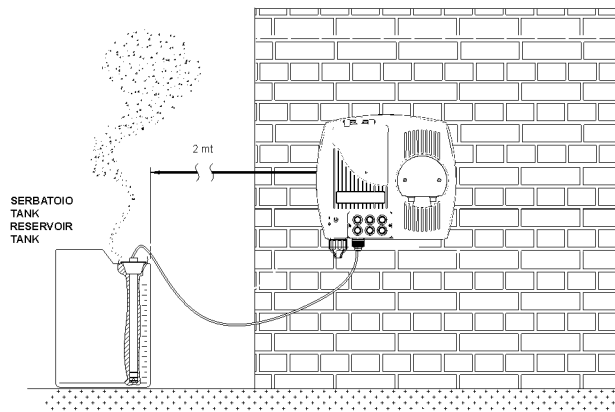
## DIMENSIONES

Dimensiones (H – W – L)	234x162x108 mm
Peso	1 Kg.
Alimentación 50 Hz	230 VAC
Consumo	12 W or 18 W
Caudal de la bomba	1,5 l/h; 5 l/h
Contrapresion maxima	1,5 bar
Estado de la bomba	Pausa - Alimentación
Rango medida	0 ÷ 14.0 pH; Redox 0 ÷ +1000 mV
Rango control pH	0.0 pH – 14.0 pH
Precision	+/- 0,2 pH; $\pm$ 3 mV
Regulación electrodo	Automatic

## MONTAJE PARED




## ATENCIÓN / ATTENZIONE / WARNING / ATTENTION / ACHTUNG





## Instrucciones

### Funciones:


- **Calibración**

- Presionar pulsador  durante 3 segundos
  - Rutina de calibración estándar para soluciones patrón pH 7 y pH4


- **Set Point ó Valor deseado**

- Presionar pulsador 
  - Mantener pulsado SET y con los pulsadores de subir y bajar  ajustar el valor deseado.

- **Sp\_7.4ph\_\_\_\_\_**

- Configuración de parámetros. Presionar juntos  durante 5 segundos



- **Program\_configuration**

- (Presionar  para las siguientes instrucciones)



- **Configuration\_pump\_\_\_\_\_**

- (Ajustar con subir ó bajar  pH o Redox ), pulsar  para salir



- **Language\_\_\_\_\_**

- Con Subir y Bajar  es posible elegir entre 5 idiomas EN, IT, SP, DE, FR
    - (Ajustar con subir ó bajar pH o Redox ), pulsar  para salir



- **Flow\_\_\_\_\_**

- Ajustar el valor con  y con los pulsadores de subir o bajar 
    - Es posible conectar (ON) o desconectar (OFF) la entrada de señal



- **setpoint\_\_\_\_\_7.4ph**

- Ajustar el valor con  y los pulsadores de subir o bajar 
  - Es posible ajustar desde 0 a 14 el valor de pH y 0 to 1000 mV para Redox



- **sp\_type\_\_\_\_\_acid**

- Ajustar el valor con  y los pulsadores de subir o bajar 
  - Es posible ajustar Acido (pH - ) o Alcalino ( pH + ) y Alto ( dosificacion oxidante ) o Bajo ( dosificacion reductor ) para Redox.



○ **Time\_ofa\_\_\_\_\_off**

- Ajustar el valor con  y los pulsadores de subir o bajar 
- Es posible ajustar el tiempo de OFA en minutos

○ **Calib\_\_\_\_\_7/4pH**

- Ajustar el valor con  y los pulsadores de subir o bajar 
- Es posible seleccionar 2 puntos pH7 y pH 4 , 1 punto solo pH7 o función desconectada; para Redox solo es posible desconectar la función.


○ **Man\_Temperature\_25°C\_**

- Ajustar el valor con  y los pulsadores de subir o bajar 
- Esta función solo esta disponible para la medida de pH.
- 

• Para salir y escapar del menú de programación pulsar la tecla ESC.

○ **Exit\_\_\_\_\_save**

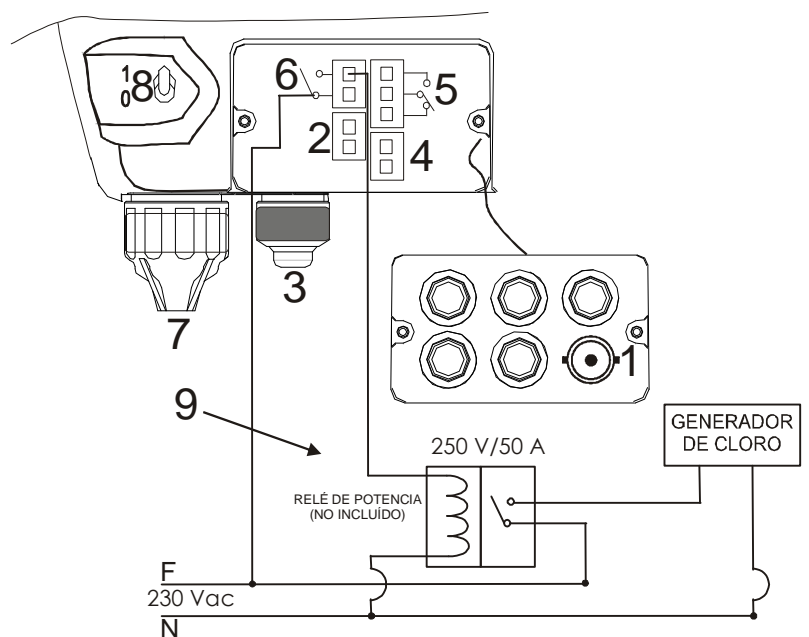
- Ajustar el valor con  y los pulsadores de subir o bajar 

• Para cebar ( cargar ) la bomba dosificadora presionar el pulsador  durante 3 segundos.

○ **priming\_\_\_\_\_**

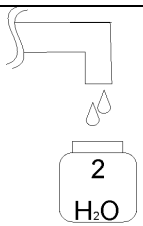
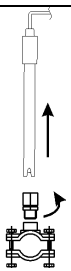
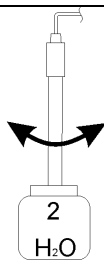
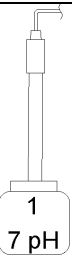


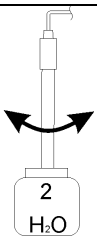
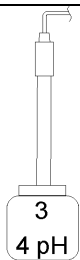

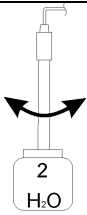


**Conexiones:**

- 1) **Input Probe**, connexion electrodo.
- 2) **Input Temp**, sensor temperatura (PT100) no incluida,
- 3) **Input Level**, control de nivel del tanque de producto químico, no incluido
- 4) **Input Flow**, entrada de control de recirculación (entrada de 230 Vac)
- 5) **Alarm Relay** rele de alarma libre de potencial 250Vac 10 A.
- 6) **S.V. Relay** Rele para control de electro válvula libre de potencial 250Vac 10A
- 7) Alimentación 230 Vac
- 8) Interruptor de paro – marcha.
- 9) Conexión a un generador de cloro (ejemplo).





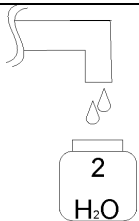
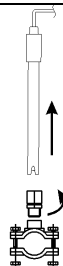
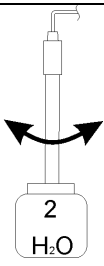
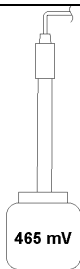


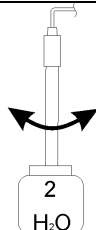


## Calibración electrodo de pH

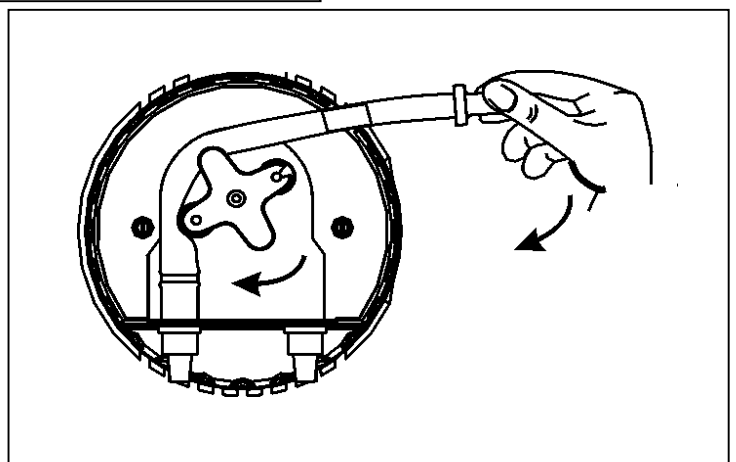
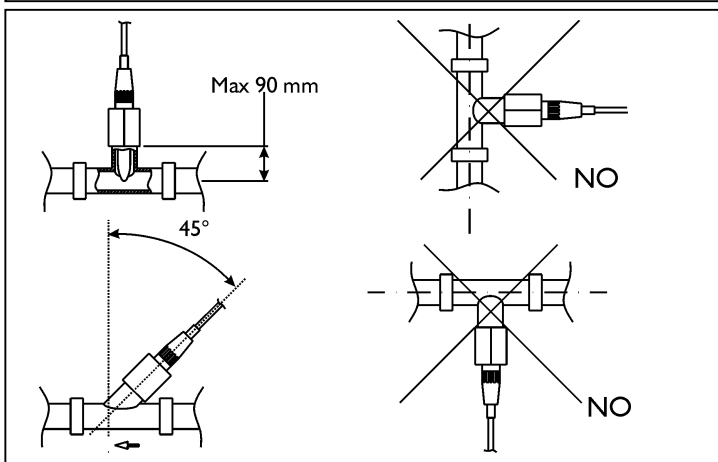
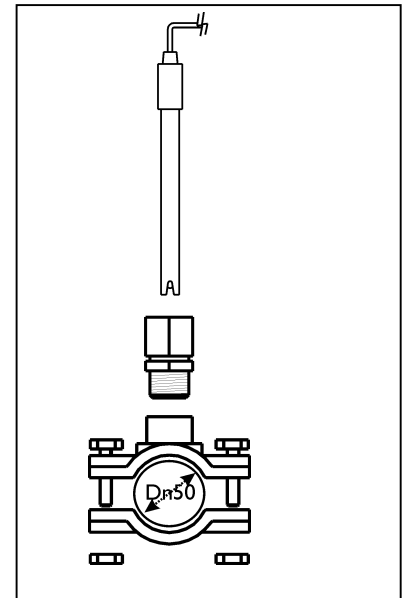
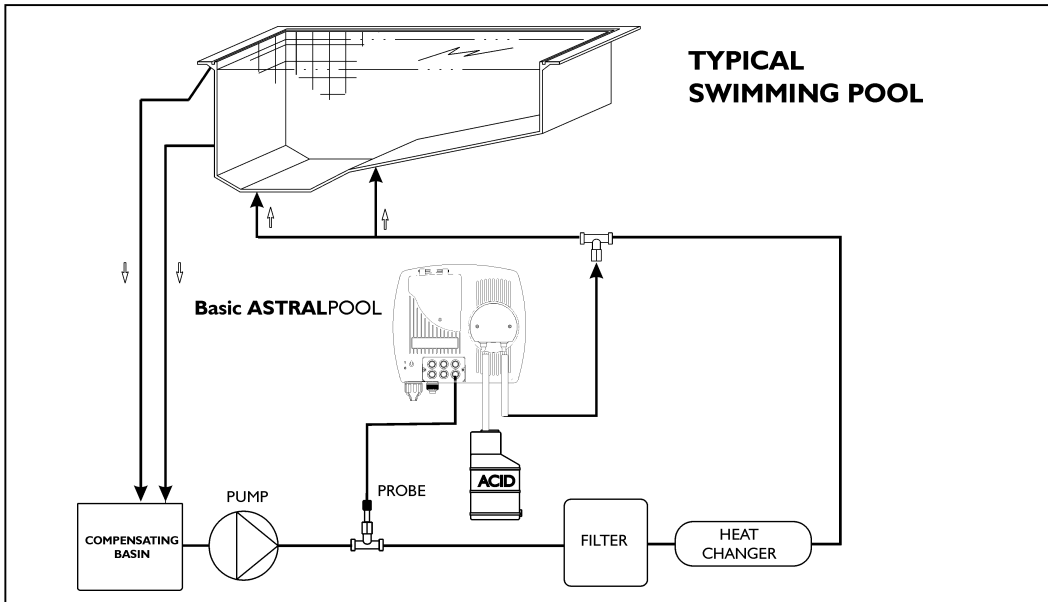
 <b>1</b>	 <b>2</b>	 <b>3</b> Lavar
 <b>4</b> Poner en la solución pH 7	<b>Calibración</b>  Pulsar CAL durante 3 segundos <b>5</b>	<b>Press_cal</b>  Duración de la calibración 1 min. <b>Espera 60s</b> <b>6</b>
<b>pH7_Calidad_100%</b>  Calidad electrodo <b>7</b>	 <b>8</b> Lavar	 <b>9</b> Poner en la solución pH 4
<b>pH 4_Press_cal</b>  Duración de la calibración 1 min. <b>Espera 60s</b> <b>10</b>	<b>pH4_Calidad_100%</b>  Calidad electrodo <b>11</b>	 <b>12</b> Lavar
 <b>13</b>	 Presionar ENTER para salvar y salir <b>14</b>	<b>15</b> Estado Normal

**Nota:**

Si en la configuración en el menú de calibración eligió 1 punto, solo precisará solución patrón pH7.

## Calibración electrodo de Redox

<p>1</p> 	<p>2</p> 	<p>3</p>  <p>Lavar</p>
<p>4</p>  <p>Keep probe into Buffer solution</p>	<p><b>Calibración</b></p>  <p>Pulsar CAL durante 3 segundos</p> <p>5</p>	<p><b>465mv__Press_cal</b></p>  <p>Duración de la calibración 1 min.</p> <p><b>Esperar_____60s_____</b></p> <p>6</p>
<p>7</p> <p><b>465mv_Calidad_100%</b></p> <p>Calidad electrodo</p>	<p>8</p> 	<p>9</p> 
<p>10</p>  <p>Presionar CAL durante 3 segundos</p>	<p>11</p> <p>Estado Normal.</p>	



Alarma	Display	Rele	Acciones a hacer
Level	<b>level___7,2_ph</b>	Rele de alarma cerrado	- Pulsar Enter para abrir el rele de alarma. - Rellenar el deposito de producto químico
OFA First Alarm (time >70%)	<b>ofa_alarm__7,2_ph</b>	Rele de alarma abierto	- Pulsar Enter para aceptar.
OFA Second Alarm (time =100%)	<b>ofa_stop__7,2_ph</b>	Rele de alarma cerrado	- Pulsar Enter para acepta
Flow Rate	<b>Flow_____7,2_ph</b>	Rele de alarma abierto	- Restaurar el caudal o recirculación.
System Error	<b>Parameter_error</b>	Rele de alarma abierto.	- Presione Enter para sustituir el valor defectuoso - Equipo averiado. - Posible obstrucción de la inyección
Calibration Funciont	<b>Error_7_ph</b> <b>Error_4_ph</b>	Rele de alarma abierto.	- Sustituir el electrodo o solución patrón y repetir la calibración.

**Parámetros de fabrica:**

- Idioma = **UK**
- Set Point= **7,4 pH**
- Tipo de dosificación = **Acid**
- Tiempo OFA = **OFF**
- Calibración = **7/4 points)**
- Entrada de caudal **OFF**

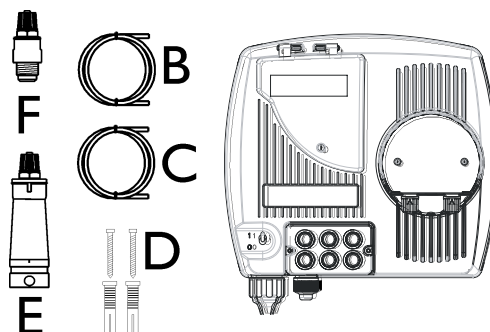
**Restaurar valores de fabrica:**

- Desconectar la unidad electricamente
- Manteniendo pulsado subir y bajar dar corriente a la unidad.
- En el display parpadea **Init.default\_\_no**
- Presionar el pulsador subir **Init.default\_\_Yes**
- Presionar el pulsador Enter para restaurar los valores de fabrica..

# CONTROL BASIC ASTRALPOOL

## Contenu de l'emballage

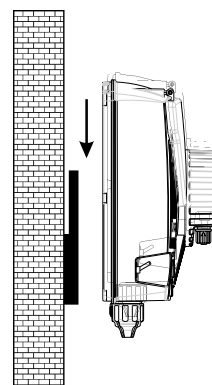
- A) "Basic ASTRALPOOL" système de contrôle de pH / REDOX
- B) Tuyau PVC Crystal 4x6 (2 mètres)
- C) Tuyau Polyéthylène (3 mètres)
- D) Vis avec chevilles ( $\phi = 6$  mm)
- E) Filtre d'aspiration (PVC)
- F) Clapet de non-retour en Viton FPM (3/8" GAZ)



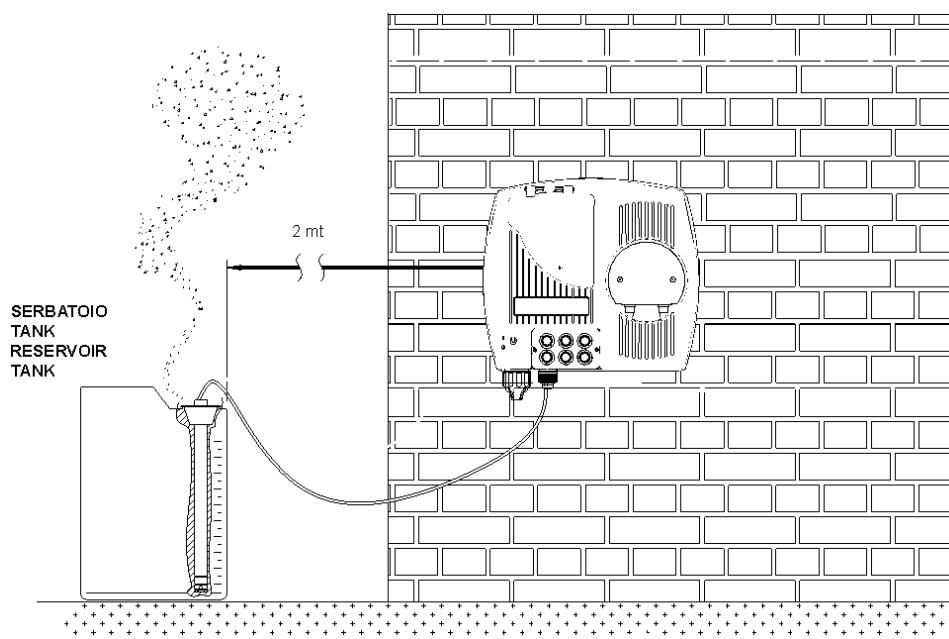
## SPÉCIFICATIONS TECHNIQUES

Dimensions (H – L – P)	234x162x108 mm
Poids	1 kg
Alimentation	230 VC.A.
Consommation	12 W ou 18 W
Débit de la pompe	1,5 l/h ; 5 l/h
Contre-pression maximale	1,5 bar
État de la pompe	Pause - Activation
Échelle de mesure	0 ÷ 14,0 pH ou Redox 0 ÷ +1000 mV
Précision de la mesure	$\pm 0,1$ pH; $\pm 10$ mV
Mesure d'exactitude	$\pm 0,02$ pH; $\pm 2$ mV
Étalonnage de l'électrode	Automatique

## Fixation murale




## ATTENZIONE / WARNING / ATTENTION / ACHTUNG




## Réglages

### Fonction :


- **Étalonnage**

- Appuyer sur la touche  pendant 3 secondes
  - Séquence Standard étalonnage pour la solution tampon 7 et 4 pH.

- **Set Point ou point de consigne**

- appuyer sur la touche 
  - Maintenir la touche Set Key appuyée et modifier la valeur par les flèches

- **Sp\_7.4ph**

- Appuyer sur les touches  Setup (en même temps) pendant 5 secondes pour activer le menu configuration:

- **Parametres**

- Appuyer sur  pour programmer les paramètres ci-après

- **Config\_Pompe**

- (Sélectionner  pH ou Rédox)



- **Langue**

- (On peut régler 5 différentes langues EN, IT, SP, DE, FR)



- **Niveau**

- (Appuyer sur les flèches Haut et Bas)
- On peut activer (ON) ou désactiver (OFF) l'entrée Flux (haute tension) connectée en parallèle à la pompe de circulation

- **Consigne \_\_\_\_7.4ph**

- Sélectionner avec la touche  et programmer avec flèche 
- On peut modifier la valeur de 0 à 14 pH ou de 0 à +1000 mV pour la mesure du potentiel Rédox.



- **Produit\_Dose\_\_Acide**

- Sélectionner avec la touche  et programmer avec flèche 
- On peut le modifier pour dosages Acides ou Alcalins ou High (haut) ou Low (bas) pour le potentiel Rédox.



○ **Temps\_OFA\_\_\_\_\_off**

- Sélectionner avec la touche  et programmer avec flèche 
- On peut modifier le temps OFA (minutes), temps de surdosage

○ **Calibrace\_\_7/4pH**

- (Sélectionner avec la touche  et programmer avec flèche 
- On peut modifier la séquence de calibrage pour 2 points (7 et 4 pH), pour 1 point uniquement 7pH ou désactiver la fonction ; pour la mesure du potentiel Rédox, le choix est entre 465 mV et fonction désactivée.


○ **Correction\_Temp\_25°C**

- Sélectionner avec la touche  et programmer avec flèche 
- On peut programmer la valeur de température manuelle (uniquement pour la mesure du pH).

- Enregistrer puis quitter le menu Programme avec la touche ESC.

○ **Exit\_Sauvegarder**

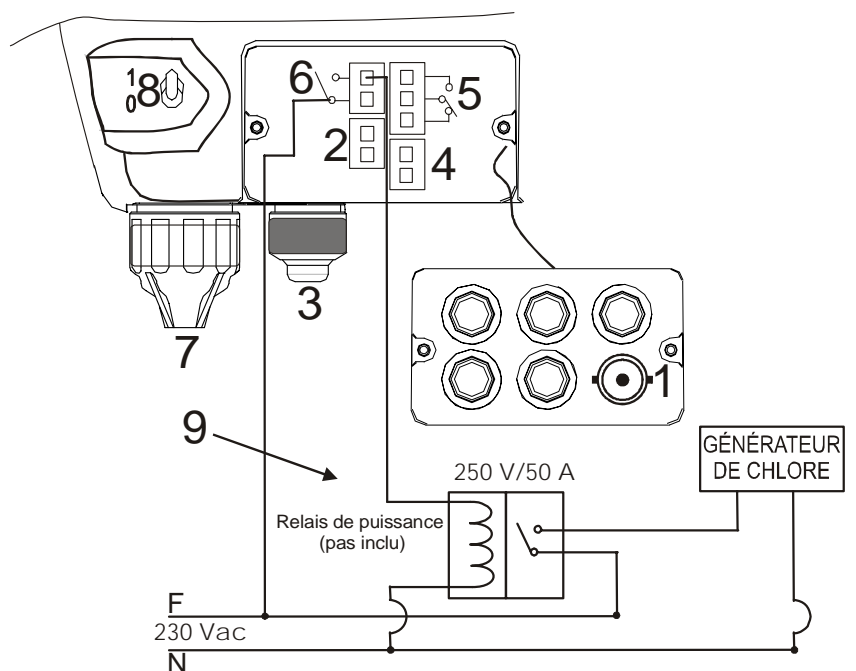
- Sélectionner avec la touche  et programmer avec flèche 

- Pour la Fonction amorçage en manuel, maintenir la touche flèche  appuyée pendant 3 secondes

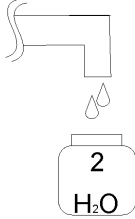
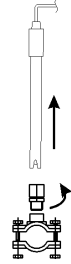
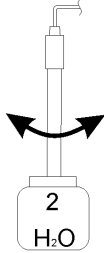
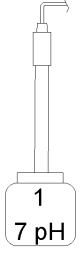


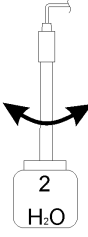
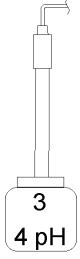

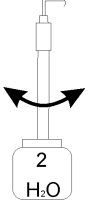
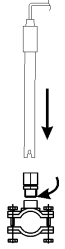

○ **Amorçage**

**Connexion des câbles :**

- 1) Entrée sonde pH ou Redox
- 2) Entrée Sonde Température (PT100)
- 3) Entrée sonde de niveau (Produit dans le Bidon)
- 4) Entrée Flow, débit pompe de recirculation (signal électrique 230 Vc.a.)
- 5) Sortie Relais Alarme à distance (Contact libre, Relais 250 Vc.a. 10 A résistif)
- 6) Sortie Relais Alarme pour électrovanne (Contact libre, Relais 250 Vc.a. 10 A résistif)
- 7) Alimentation 230 Vc.a. 50 Hz.
- 8) Interrupteur d'alimentation
- 9) Connexion à un générateur de chlore (par exemple)



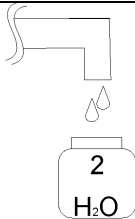
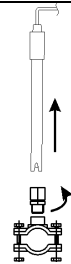
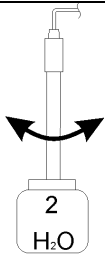
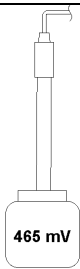



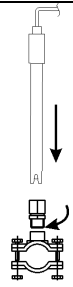

## Calibrage Sonde pH

<p>①</p> 	<p>②</p> 	<p>③</p>  <p>Laver la sonde</p>
<p>④</p>  <p>Maintenir la sonde dans la solution tampon</p>	<p><b>Calibrage</b></p>  <p>Appuyer sur la touche CAL pendant 3 secondes):</p> <p>5</p>	<p><b>7pH_Presser_CAL</b></p>  <p>Le calibrage dure une minute. <b>Patienter ___ 60s</b></p> <p>6</p>
<p><b>7pH_Qualite'_100%</b></p> <p>Qualité de la sonde</p> <p>7</p>	<p>⑧</p>  <p>Laver la sonde</p>	<p>⑨</p>  <p>Maintenir la sonde dans la solution tampon</p>
<p><b>4pH_Presser_CAL</b></p>  <p>Le calibrage dure une minute. <b>Patienter ___ 60s</b></p> <p>10</p>	<p><b>4pH_Qualite'_100%</b></p> <p>Qualité de la sonde</p> <p>11</p>	<p>⑫</p>  <p>Laver la sonde</p>
<p>⑬</p> 	 <p>Appuyer sur la touche Key pour quitter et enregistrer les données</p> <p>14</p>	<p>État Normal de mesure et contrôle</p> <p>15</p>

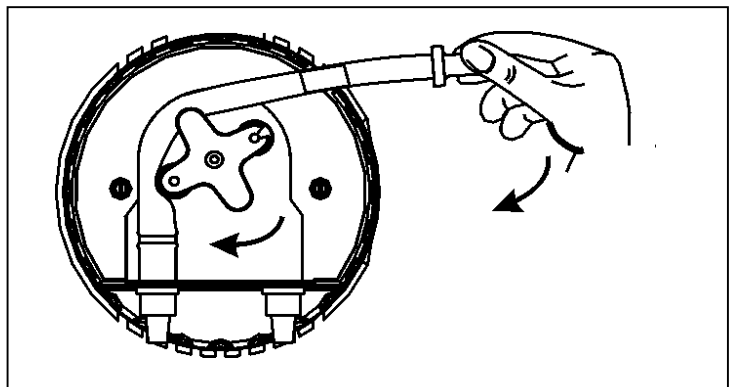
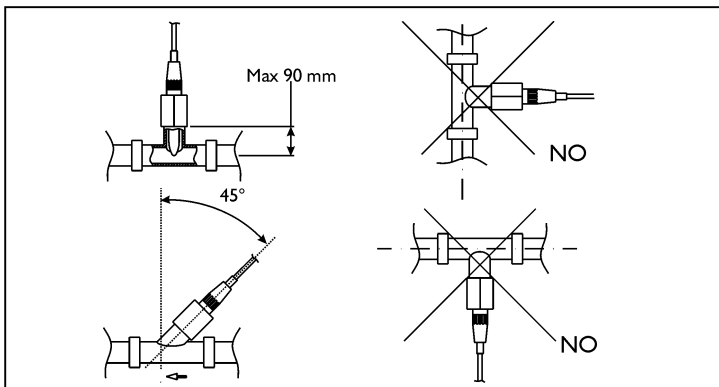
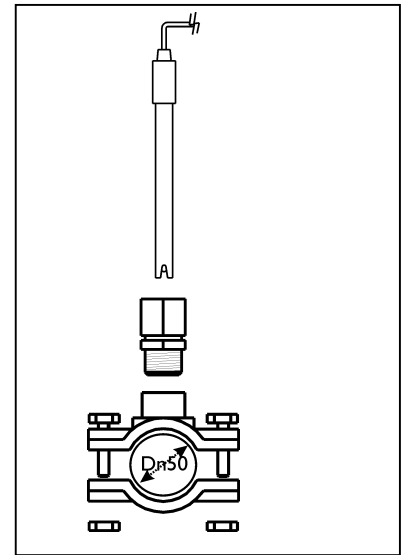
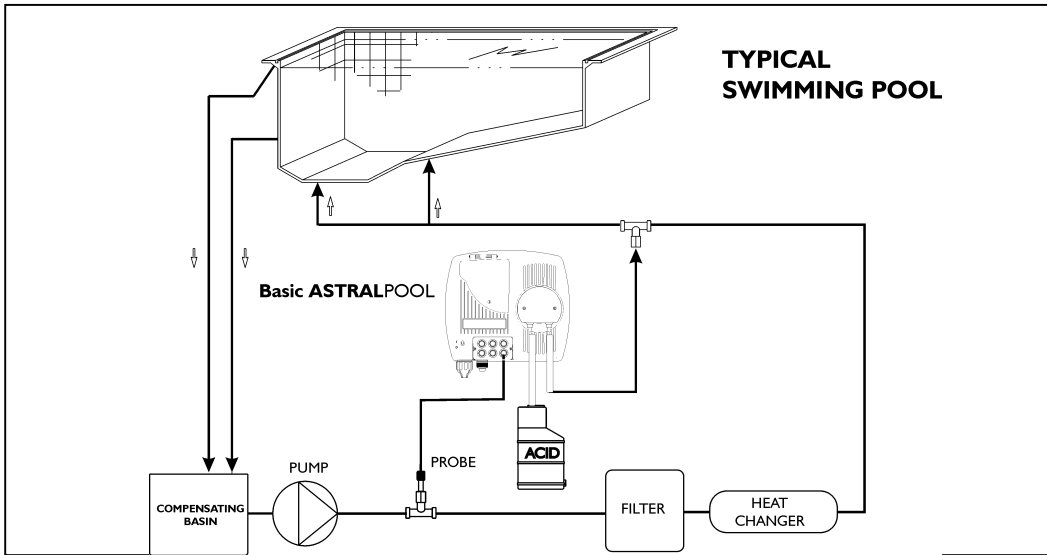
**Remarque:**

Si l'on programme la fonction Calibrage = 7 pH, le système n'effectue le calibrage que pour le point 7 pH.

## Calibrage sonde Redox

<p>①</p> 	<p>②</p> 	<p>③</p>  <p>Laver la sonde</p>
<p>④</p>  <p>Maintenir la sonde dans la solution tampon</p>	<p><b>Calibrage</b></p>  <p>Appuyer sur la touche Cal pendant 3 secondes</p> <p>5</p>	<p><b>465mv_Presser_CAL</b></p>  <p>Le calibrage dure une minute.</p> <p><b>Patienter ___60s</b></p> <p>6</p>
<p>7</p> <p><b>465mv_Qualite'_100%</b></p> <p>Qualité de la sonde</p>	<p>⑧</p>  <p>Laver la sonde</p>	<p>⑨</p> 
<p>⑩</p>  <p>Appuyer sur la touche Cal pendant 3 secondes</p>	<p>⑪</p> <p>État normal de mesure et de contrôle</p>	





Alarme	Écran	Relais	Actions à exécuter
Niveau	Niveau__7,2_ph	Alarme relais fermé	- Appuyer sur la touche Enter pour désactiver l'alarme à distance - Rétablir le niveau de produit dans le bidon
OFA Première Alarme (Temps >70%)	Alarme_OFA_7,2_ph	Alarme relais ouvert	- Appuyer sur la touche Enter pour désactiver l'alarme
OFA Deuxième Alarme (Temps=100%)	STOP_OFA__7,2_ph	Alarme relais fermé	- Appuyer sur la touche Enter pour désactiver l'alarme
Débit eau (pompe de recirculation éteinte)	Debit_____7,2_ph	Alarme relais ouvert	- Réactiver la pompe de circulation eau.
Erreur de système	Parameter_Error	Alarme relais ouvert	- Appuyer sur Enter pour restaurer les paramètres par défaut - Système endommagé
Fonction d'étalonnage	Erreur_7_ph Erreur_4_ph Erreur_465_mV	Alarme relais ouvert	- Remplacer la Sonde ou la Solution tampon et répéter le calibrage.

**Paramètres d'usine :**

- Langue = **UK (Inglese)**
- Set Point valore = **7,4 pH; 750mV (Rx)**
- Méthode de dosage = **Acide; Basse (Rx)**
- Temps OFA (alarme de surcharge) = **OFF**
- Calibrage = **7/4 (2 points) ; 465mV (Rx)**
- Entrée Flux = **OFF**

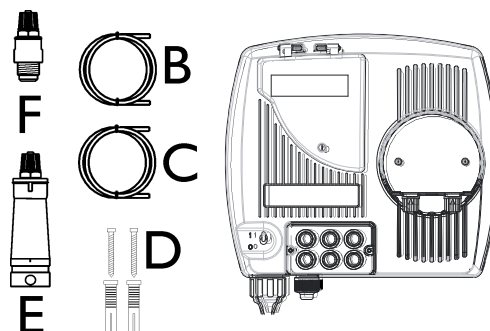
**Pour restaurer les paramètres par défaut (Défaut), agir de la façon suivante :**

- Arrêter le système Basic.
- Activer le système Basic en maintenant les touches flèche HAUT (UP) et flèche BAS (DOWN) appuyées.
- Le Système affiche **R.A.Z.defaut\_\_non**
- Appuyer sur flèche HAUT (UP) **R.A.Z.defaut\_\_Oui**
- Appuyer sur la touche Enter pour restaurer les paramètres.

# CONTROL BASIC **ASTRALPOOL**

## Contenuto nella Scatola

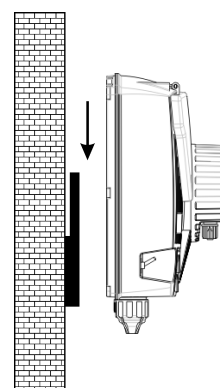
- A) "Basic **ASTRALPOOL**" pH / REDOX Sistema di controllo
- B) Tubo PVC Crystal 4x6 (2 metri)
- C) Tubo Polyethylene (3 metri)
- D) Viti con tasselli ( $\phi = 6$  mm)
- E) Filtro di fondo (PVC)
- F) Valvola di non ritorno in FPM (3/8" GAS)



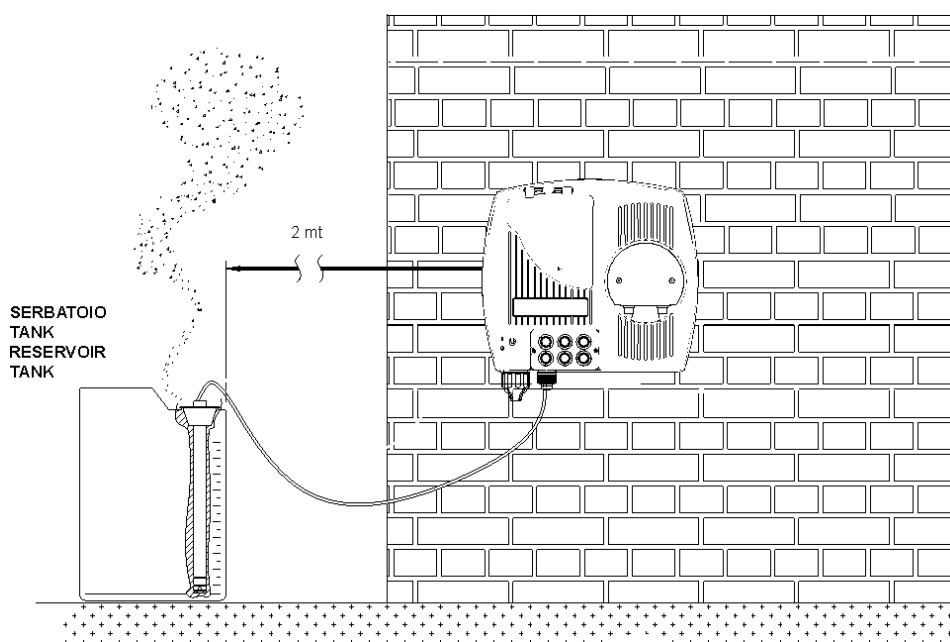
## TECHNICAL SPECIFICATIONS

Dimensioni (A – L – P)	234x162x108 mm
Peso	1 kg
Alimentazione	230 VAC
Consumo	12 W or 18 W
Portata Pompa	1,5 l/h; 5 l/h
Contro pressione Massima	1,5 bar
Pump state	Pause - Supply
Scala Misura	0 ÷ 14.0 pH; Redox 0 ÷ +1000 mV
Precisione Misura	$\pm 0,1$ pH; $\pm 10$ mV
Accuratezza Misura	$\pm 0,02$ pH; $\pm 2$ mV
Calibrazione Elettrodo	Automatica

## Montaggio Parete




## ATTENZIONE / WARNING / ATTENTION / ACHTUNG





# Impostazioni



## Funzione:

- **Calibrazione**

- (Premere tasto  per 3 Secondi):
  - Sequenza Standard calibrazione per soluzione tampone 7 and 4 pH.

- **Set Point**

- Premere tasto: 
- Tenere premuto Set Key e modificare valore con tasto 
  - **Sp\_7.4ph**

- Premere tasti   (insieme) per 5 Secondi e si eseguirà il menu configurazione:

- **MENU CONFIGURAZIONE**

- (Premere  impostare le seguenti voci)


- **CONFIGURAZIONE POMPA**

- (Selezionare  pH o Redox )



- **LINGUA**

- (Con il pulsante  si può impostare 5 lingue EN, IT, SP, DE, FR)



- **FLUSSO**

- Selezionare con il tasto 
- Si può abilitare(ON) or disabilitare (OFF) l'ingresso Flusso (alta tensione) collegato in parallelo alla pompa di ricircolo



- **Setpoint\_7.4ph**

- Selezionare con il tasto  e impostare con 
- Si può modificare il valore da 0 a 14 pH oppure da 0 a +1000 mV per misura Redox.



- **Tipo\_Setpoint\_Acido**

- Selezionare con il tasto  e impostare con 
- Si può modificare per dosaggi Acidi o Alcalini oppure High or Low per Redox.



○ **Tempo\_OFA\_\_off**

- Selezionare con il tasto  e impostare con 
- Si può modificare il tempo (minuti) di OFA tempo di savra dosaggio

○ **Calibrazione\_\_7/4pH**

- Selezionare con il tasto  e impostare con 
- Si può modificare la sequenza di calibrazione per 2 punti (7 and 4 pH), oppure 1 punto solo 7pH o funzione disabilitata; per il Redox abbiamo 465 mV o funzione disabilitata.


○ **Temperatura\_Man\_25°C**

- Selezionare con il tasto  e impostare con 
- Si impostare il valore di temperatura manuale (Solo per la misura del pH)

- Salvare ed uscire dal menù Programma con il tasto ESC.

○ **Uscita\_Salva**

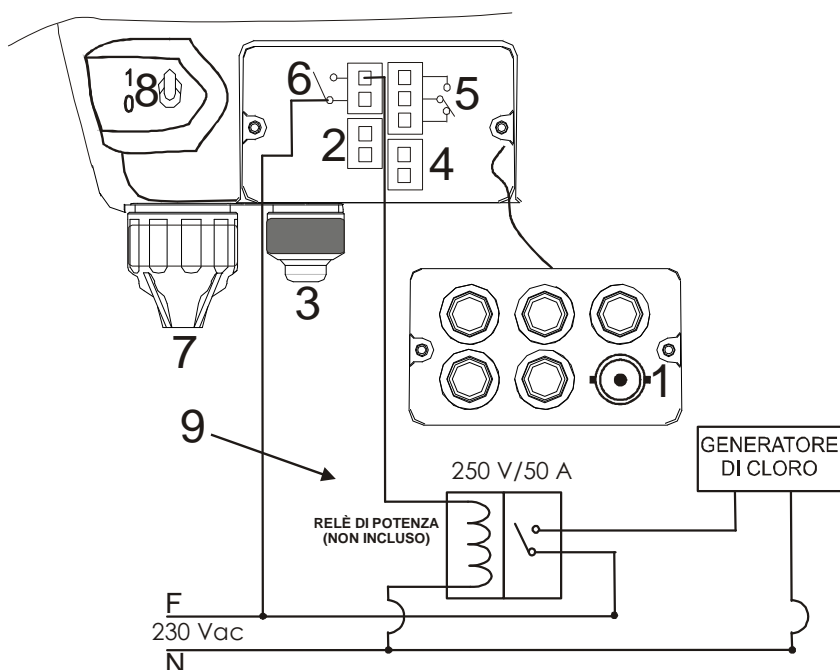
- Selezionare con il tasto  e impostare con 

- Funzione adescamento manuale tenere premuto il tasto  (UP) per 3 secondi

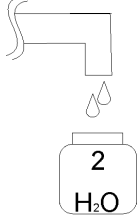
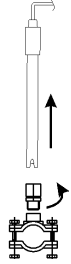
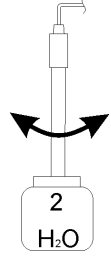
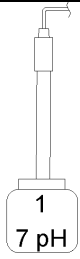


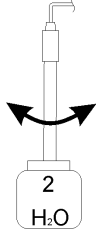
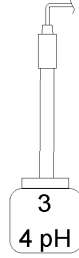

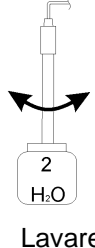
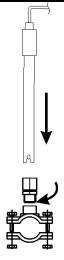

○ **Adescamento**

**Connessione Cavi:**

- 1) Ingresso sonda pH or Redox
- 2) Ingresso sonda Temperature (PT100)
- 3) Ingresso sonda Livello (Prodotto nella tanica)
- 4) Ingresso Flow, flusso pompa di ricircolo (segnale elettrico 230 Vac)
- 5) Uscita Relè Allarme remoto (Contatto pulito, Relè 250 Vac 10 A Resistivo)
- 6) Uscita Relè per Elettrovalvola (Contatto pulito, Relè 250 Vac 10 A Resistivo)
- 7) Alimentazione 230 Vac 50Hz.
- 8) Interruttore di alimentazione.
- 9) Connessione ad un generatore di cloro (esempio).



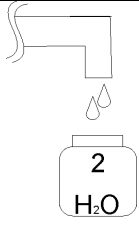
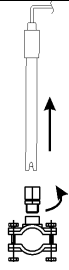
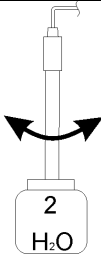
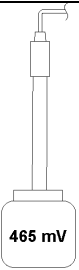


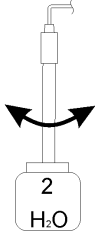
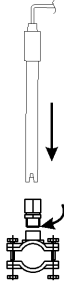

## Calibrazione Sonda pH

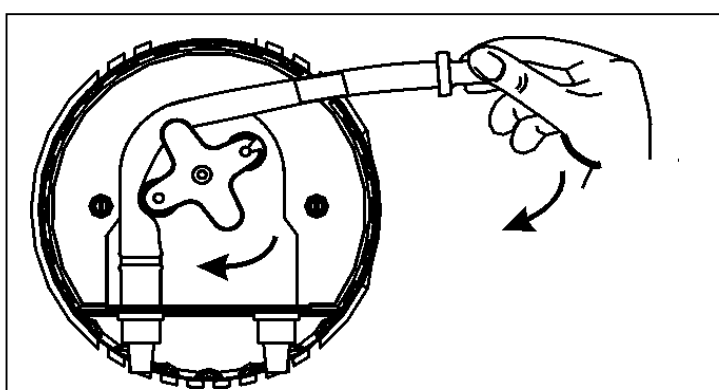
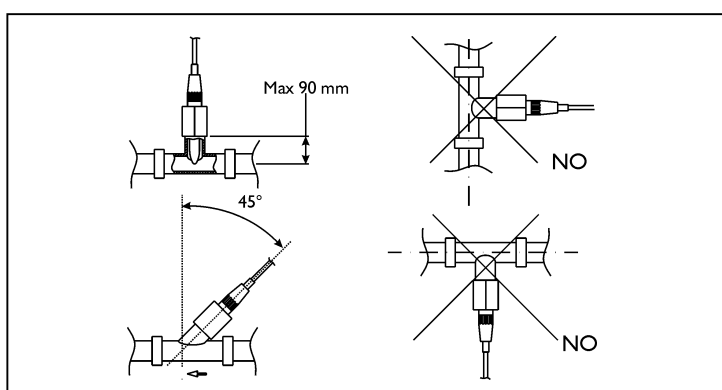
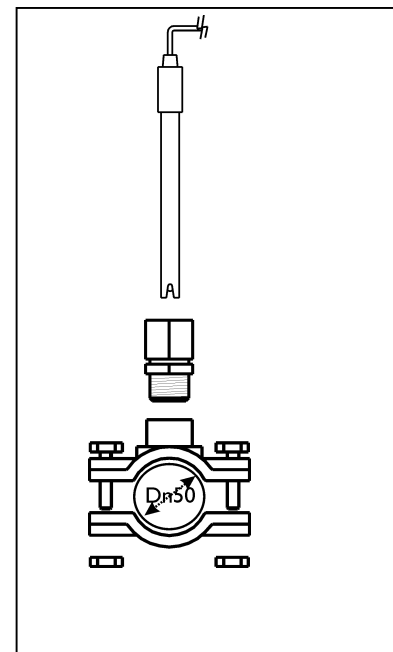
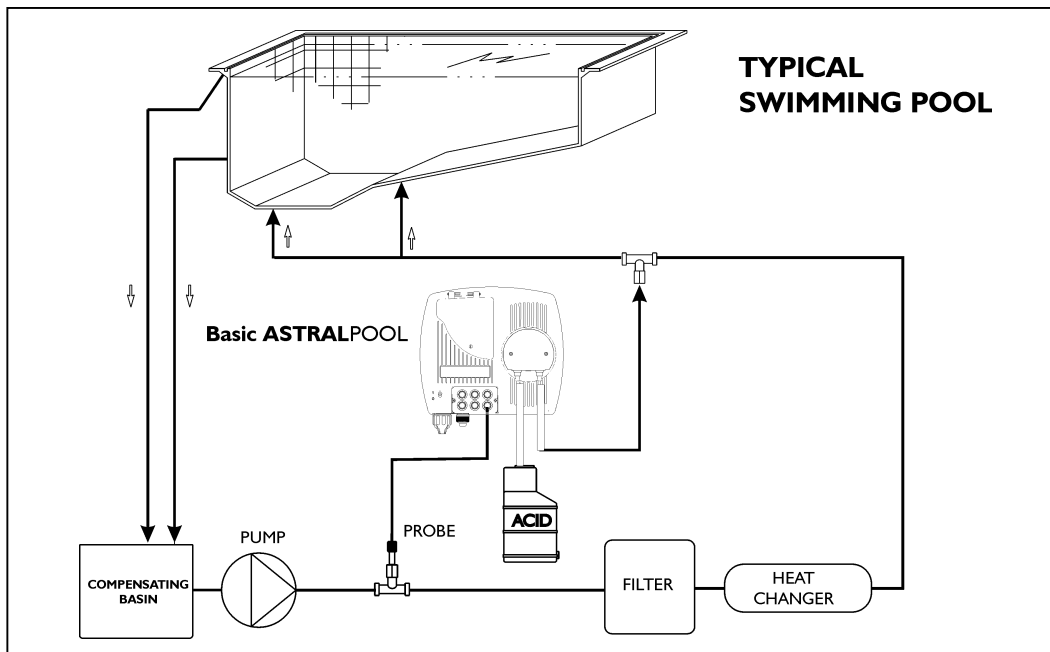
<p>①</p> 	<p>②</p> 	<p>③</p>  <p>Lavare la sonda</p>
<p>④</p>  <p>Mantenere la sonda nella soluzione tampone</p>	<p><b>Calibrazione</b></p>  <p>Premere tasto CAL per 3 Secondi</p> <p>5</p>	<p><b>7pH__Premere_CAL</b></p>  <p>La calibrazione dura un minuto</p> <p><b>Attendere__60s</b></p> <p>6</p>
<p><b>7pH_Qualita'_100%</b></p> <p>Qualità sonda</p> <p>7</p>	<p>⑧</p>  <p>Lavare la sonda</p>	<p>⑨</p>  <p>Mantenere la sonda nella soluzione tampone</p>
<p><b>4pH__Premere_CAL</b></p>  <p>La calibrazione dura un minuto</p> <p><b>Attendere__60s</b></p> <p>10</p>	<p><b>4pH_Qualita'_100%</b></p> <p>Qualità sonda</p> <p>11</p>	<p>⑫</p>  <p>Lavare la sonda</p>
<p>⑬</p> 	 <p>Premere il tasto Key per uscire e salvare i dati</p> <p>14</p>	<p>15</p> <p>Stato Normale di misura e controllo</p>

**Nota:**

Se impostiamo la funzione Calibrazione = 7 pH il sistema eseguirà la calibrazione soltanto per il punto 7 pH.

## Calibrazione sonda Redox

<p>①</p> 	<p>②</p> 	<p>③</p>  <p>Lavare la sonda</p>
<p>④</p>  <p>Mantenere la sonda nella soluzione tampone</p>	<p><b>Calibrazione</b></p>  <p>Premere il tasto Cal 3 Secondi</p> <p>5</p>	<p><b>465mv__Premere_CAL</b></p>  <p>La calibrazione dura un minuto</p> <p><b>Attendere__60s</b></p> <p>6</p>
<p>7</p> <p><b>465mv_Qualita'_100%</b></p> <p>Qualità Sonda</p>	<p>⑧</p>  <p>Lavare la sonda</p>	<p>⑨</p> 
 <p>Premere il tasto Cal 3 Secondi</p> <p>10</p>	<p>11</p> <p>Normale Stato di misura e controllo</p>	



Allarme	Display	Relè	Azioni da fare
Livello	<b>Livello _____ 7,2_ph</b>	Allarme Relè Chiuso	- Premere il tasto Enter per spegnere l'allarme remoto - Ripristinare prodotto nel bidone
OFA Primo Allarme (Tempo >70%)	<b>Allarme_OFA_7,2_ph</b>	Allarme Relè Aperto	- Premere il tasto Enter per eliminare l'allarme
OFA Secondo Allarme (Tempo=100%)	<b>STOP_OFA_7,2_ph</b>	Allarme Relè Chiuso	- Premere il tasto Enter per eliminare l'allarme
Flusso acqua (Pompa di ricircolo spenta)	<b>Flusso _____ 7,2_ph</b>	Allarme Relè Aperto	- Ripristinare pompa di ricircolo acqua.
Errore di Sistema	<b>Parameter_Error</b>	Allarme Relè Aperto	- Premere Enter per ripristinare i parametri di fabbrica - Sistema Rotto
Funzione di Calibrazione	<b>Errore_7_ph</b> <b>Errore_4_ph</b> <b>Errore_465_mV</b>	Allarme Relè Aperto	- Sostituire Sonda o Soluzione tampone e ripetere la calibrazione.

**Parametri di Fabbrica:**

- Lingua = **UK (Inglese)**
- Set Point valore = **7,4 pH; 750mV (Rx)**
- Metodo di Dosaggio = **Acido; Basso (Rx)**
- Tempo OFA = **OFF**
- Calibrazione = **7/4 (2 punti); 465mV (Rx)**
- Ingresso Flusso = **OFF**

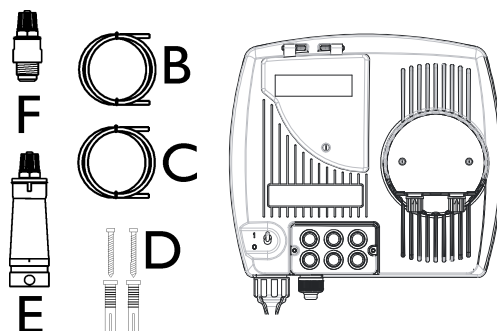
**Per ripristinare I parametri di fabbrica (Default) eseguire i seguenti passi:**

- Spegner il sistema Basic
- Mantenere premuto il tasto UP (su) e DOWN (giù) accendere il sistema Basic .
- Il Sistema visualizzerà **Init.default\_\_no**
- Premere UP (su) **Init.default\_\_Yes**
- Premere il tasto Enter per ripristinare i parametri.

# CONTROL BASIC ASTRALPOOL

## Conteúdo da Caixa

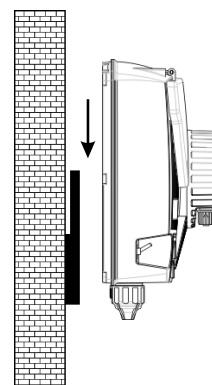
- A) Control Basic ASTRALPOOL" pH / REDOX  
Sistema de controle
- B) Tubo de PVC Cristal 4x6 (2 metros)
- C) Tubo de Polyetileno (3 metros)
- D) Parafusos com buchas ( $\phi = 6$  mm)
- E) Filtro de Fundo (PVC)
- F) Válvula de Retenção em FPM (3/8" GAS)



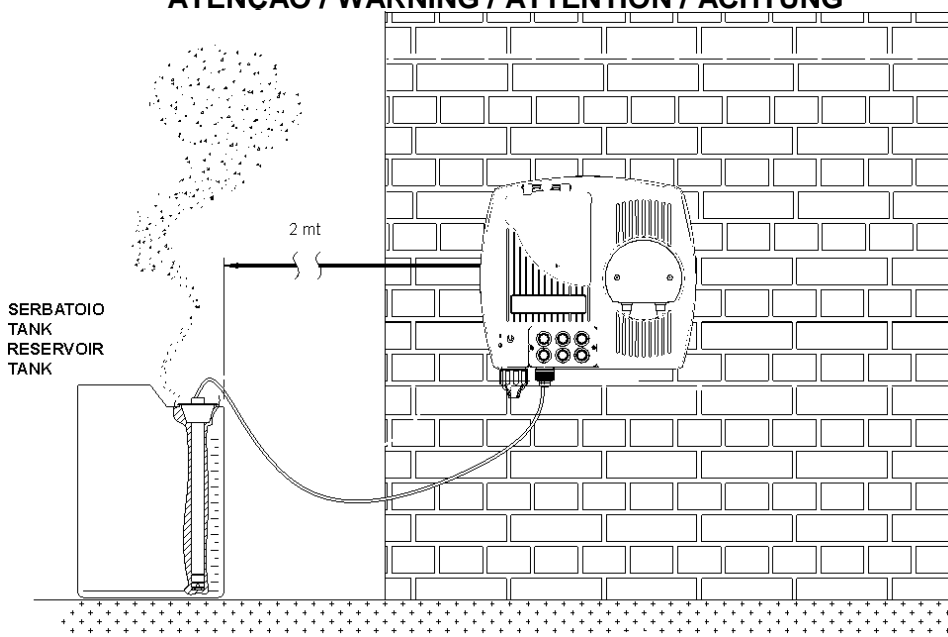
## ESPECIFICAÇÕES TÉCNICAS

Dimensões: (A - L - P)	234x162x108 mm
Peso:	1 kg
Alimentação:	230 VAC
Consumo:	12 W ou 18 W
Vazão da Bomba:	1,5 l/h; 5 l/h
Contrapressão Máxima:	1,5 bar
Dosagem da Bomba:	Pause - Trabalho
Escala de Medida:	0 ÷ 14.0 pH; Redox 0 ÷ +1000 mV
Precisão de Medida:	$\pm 0,1$ pH; $\pm 10$ mV
Precisão do Equipamento:	$\pm 0,02$ pH; $\pm 2$ mV
Calibragem do Eletrodo:	Automática

## Montagem em Parede



## ATENÇÃO / WARNING / ATTENTION / ACHTUNG








# INSTRUÇÕES


## Função:

- **Calibração**


- Apertar tecla  por 3 Segundos:
  - Sequência Padrão de Calibragem para Solução Tampão 7 e 4 pH.

- **Ponto de Calibração**

- Apertar tecla: 
- Manter apertada Set Key e modificar o valor com 
  - **Sp - 7.4ph**

- Apertar as teclas  juntas por 5 Segundos e se obterá o menu de configuração:

- **MENU DE CONFIGURAÇÃO**

- Apertar  e registrar as seguintes vezes


- **CONFIGURAÇÃO DA BOMBA**

- Selecionar  pH ou Redox



- **LINGUA**

- Com a tecla  pode-se colocar 5 linguas Inglês, Italiano, Espanhol, Alemão, Francês.



- **FLUXO**










- Selecionar com a tecla 
- Pode-se habilitar (ON) ou desabilitar (OFF) a entrada de Fluxo (alta pressão) conectando em paralelo a bomba de re-circulação

- **Set Point 7.4ph**

- Selecionar com a tecla  e registrar com 
- Pode-se modificar o valor de 0 a 14 pH ou mesmo de 0 a +1000 mV por medida Redox.

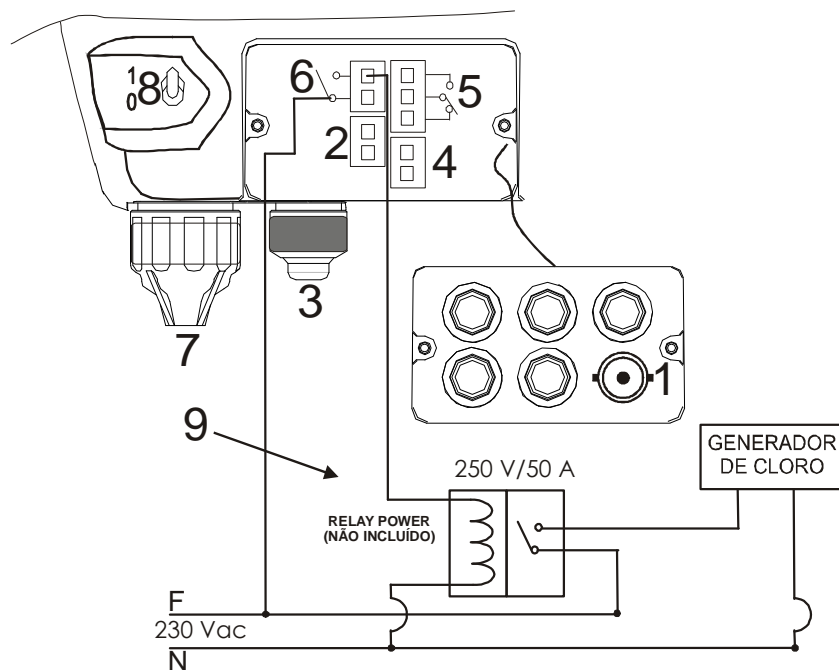
- **Tipo Set Point Ácido**

- Selecionar a tecla  e registrar com 
- É possível modificar para dosagens Ácidas ou Alcalinas ou também High ou Low por Redox.

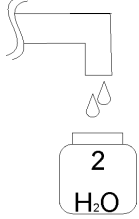
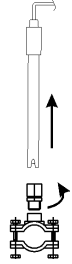
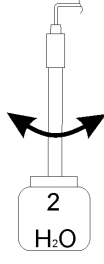
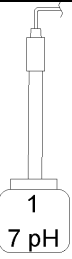


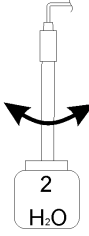
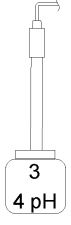

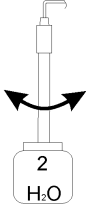
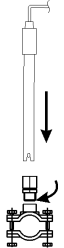

- **Tempo OFA Off**
  - Selecionar com a tecla  e registrar com 
  - É possível modificar o tempo (minutos) de OFA tempo de dosagem
  
- **Calibragem pH 7/4**
  - Selecionar a tecla  e registrar com 
  - É possível modificar a sequência de calibragem por 2 pontos (pH 7 e 4), ou mesmo 1 ponto pH 7 ou função desabilitada; para o Redox temos 465 mV ou função desabilitada.
  
- **Temperatura Man 25°C**
  - Selecionar com a tecla  e registrar com 
  - É possível registrar o valor de temperatura manual - Somente para a medida do pH.
- Salvar e sair do menu do Programa com a tecla ESC.
  - **Saída Salvar**
    - Selecionar com a tecla  e registrar com 
- Função escorva manual manter pressionada a tecla  UP por 3 segundos
  
- **ESCORVA**

### Conexao dos Cabos:

- 1) Entrada da Sonda do pH ou Redox
- 2) Entrada da sonda da Temperatura (PT100)
- 3) Entrada da Sonda de Nível (Dentro da bombona)
- 4) Entrada Flow, vazão da bomba de recirculação (Sinal Elétrico 230 Vac)
- 5) Saída do Relê de Alarme Remoto (Contato limpo Relê 250 Vac 10 A Resistivo)
- 6) Saída do Relê para a Eletroválvula (Contato limpo Relê 250 Vac 10 A Resistivo)
- 7) Alimentação 230 Vac 50Hz.
- 8) Interruptor de Alimentação.
- 9) A conexão com um gerador de cloro (exemplo).



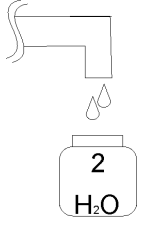
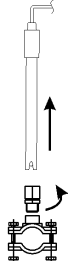
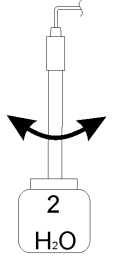
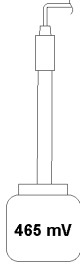


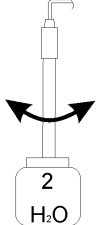
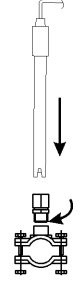

## Calibragem da Sonda de pH

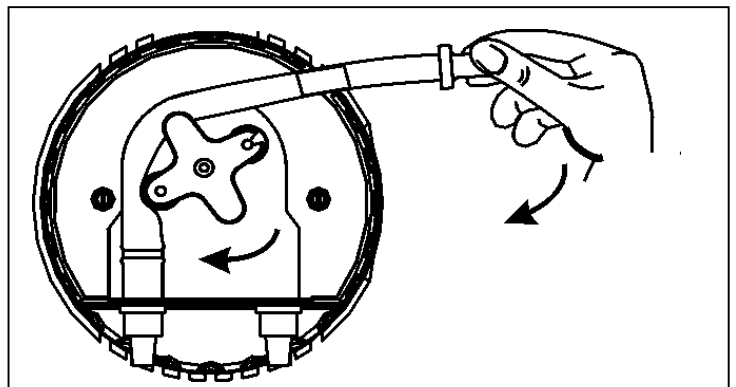
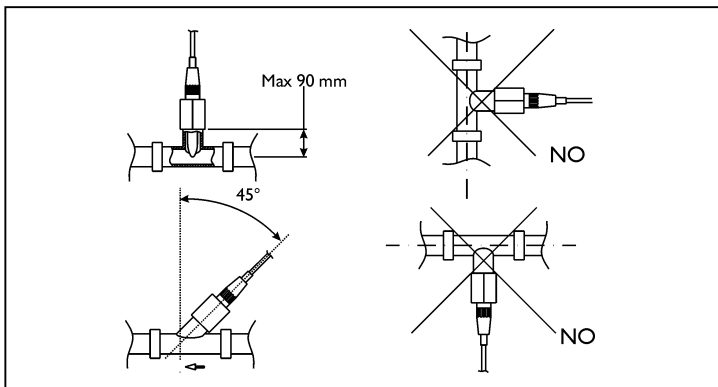
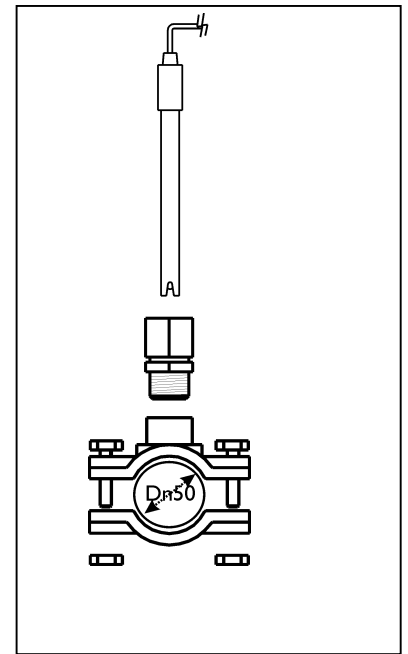
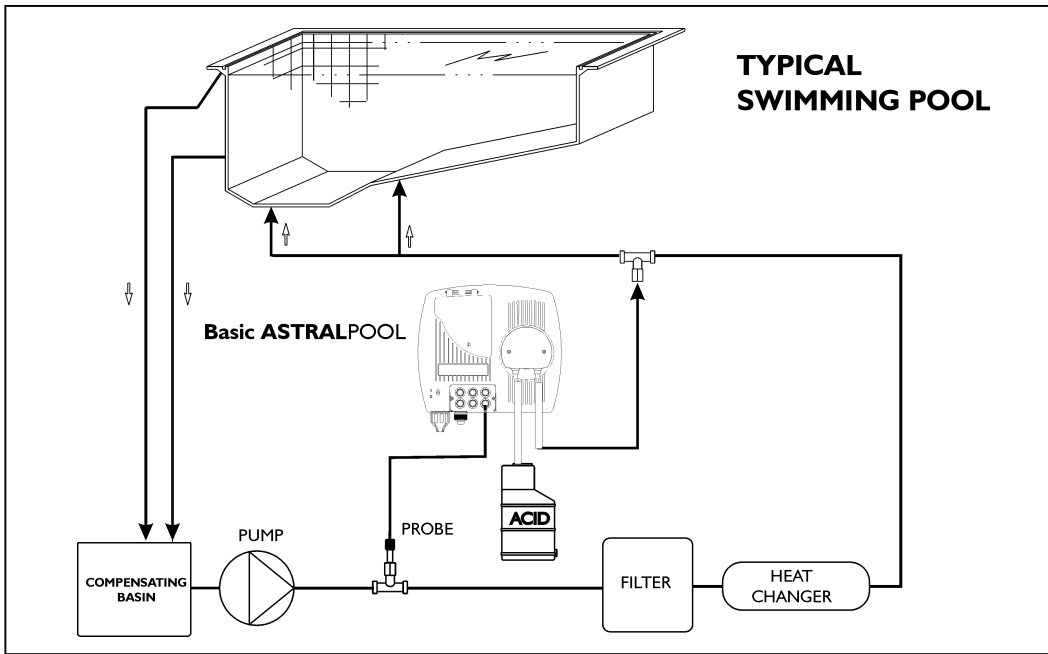
 <p><b>1</b></p>	 <p><b>2</b></p>	 <p><b>3</b></p> <p>Lavar a sonda</p>
 <p><b>4</b></p> <p>Manter a sonda na Solução Tampão</p>	<p><b>Calibragem</b></p>  <p>Acionar a tecla CAL por 3 Segundos</p> <p><b>5</b></p>	<p><b>7 pH Acionar CAL</b></p>  <p>A calibragem dura um minuto</p> <p><b>Esperar 60s</b></p> <p><b>6</b></p>
<p><b>7 pH Qualidade 100%</b></p> <p>Qualidade da Sonda</p> <p><b>7</b></p>	 <p><b>8</b></p> <p>Lavar a sonda</p>	 <p><b>9</b></p> <p>Manter a Sonda na Solução Tampão</p>
<p><b>4 pH Acionar CAL</b></p>  <p>A calibragem dura um minuto</p> <p><b>Esperar 60s</b></p> <p><b>10</b></p>	<p><b>4 pH Qualidade 100%</b></p> <p>Qualidade da Sonda</p> <p><b>11</b></p>	 <p><b>12</b></p> <p>Lavar a sonda</p>
 <p><b>13</b></p>	 <p>Acionar a tecla <b>Key</b> para sair e salvar os dados</p> <p><b>14</b></p>	<p>Estado Normal de medida e controle</p> <p><b>15</b></p>

**Nota:**

Se registrarmos a função Calibragem = pH 7 o sistema executa a calibragem somente para o pH 7.

## Calibragem da Sonda Redox

<p>①</p> 	<p>②</p> 	<p>③</p>  <p>Lavar a sonda</p>
<p>④</p>  <p>Manter a sonda na solução tampão</p>	<p><b>Calibragem</b></p>  <p>Acionar a tecla <b>Cal</b> por 3 Segundos</p> <p>5</p>	<p><b>465mV Acionar_CAL</b></p>  <p>A calibragem dura um minuto</p> <p><b>Esperar 60s</b></p> <p>6</p>
<p>7</p> <p><b>465mV Qualidade 100%</b></p> <p>Qualidade da Sonda</p>	<p>⑧</p>  <p>Lavar a sonda</p>	<p>⑨</p> 
<p>10</p>  <p>Acionar a tecla <b>Cal</b> por 3 Segundos</p>	<p>11</p> <p>Estado normal de medida e controle</p>	



Alarme	Display	Relê	Ações a serem tomadas
Nível	<b>Nível 7,2 ph</b>	Relê de Alarme Fechado	- Acionar a tecla <b>Enter</b> para desligar o alarme remoto - Recolocar o produto no recipiente
Primeiro Alarme OFA - Tempo >70%	<b>Alarme OFA 7,2 ph</b>	Relê de Alarme Aberto	- Acionar a tecla <b>Enter</b> para eliminar o alarme
OFA Segundo Alarme (Tempo=100%)	<b>STOP OFA 7,2 ph</b>	Relê de Alarme Fechado	- Acionar a tecla <b>Enter</b> para eliminar o alarme
Vazão de Água (Bomba de Recirculação desligada)	<b>Vazão 7,2 ph</b>	Relê de Alarme Aberto	- Religar a Bomba de Recirculação de Água.
Erro de Sistema	<b>Parameter Error</b>	Relê de Alarme Aberto	- Acionar <b>Enter</b> para reestabelecer os parâmetros de fábrica - Sistema defeituoso
Função de Calibragem	<b>Erro 7 ph</b> <b>Erro 4 ph</b> <b>Erro 465 mV</b>	Relê de Alarme Aberto	- Substituir a Sonda ou a Solução Tampão e repetir a calibragem.

**Parâmetros de Fábrica:**

- Língua = **UK (Inglês)**
- Valor de ajuste = **7,4 pH; 750mV (Rx)**
- Metodo de Dosagem = **Acido; Baixo (Rx)**
- Tempo OFA = **OFF**
- Calibragem = **7/4 (2 pontos); 465mV (Rx)**
- Vazão de entrada = **OFF**

**Para restaurar os Parâmetros de Fábrica (Default) seguir os seguintes passos:**

- Desligar o Sistema Basic
- Manter pressionada a tecla **UP** (para cima) e **DOWN** (para baixo) ligar o Sistema Basic.
- O Sistema visualizará **Init.default\_\_no**
- Acionar **UP** (Para cima) **Init.default\_\_Yes**
- Acionar a tecla Enter para restaurar os parametros.