



parameter controller

INSTALLATION GUIDE

NEW MODEL 2016
FAN LESS

PORTABLE COLOR DISPLAY (TFT)

WORLDWIDE REMOTE CONTROL

WIFI and MODBUS

UPGRADE POSSIBLE

UP TO 4 PARAMETERS

FILTRATION AND LIGHT CONTROLS

1 DESCRIPTION

Station is a complete pool controller which doses pool-chemicals in order to maintain the pool water in perfect conditions. The base product controls the temperature, filtration periods, pool lighting and 4 additional relays. The base product is upgraded by adding the measurement and control of up to 4 water parameters. The management of the additional parameters can also be upgraded post-sales via "upgrade kits".



Electronic box



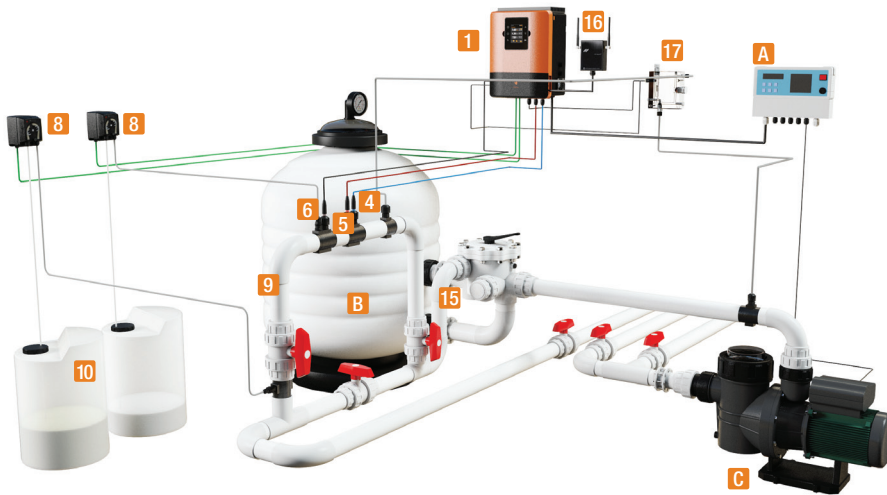
110-230 V

- 1 Main connection 220 V
- 2 ON/OFF switch



- 3 Fuse for device 4 A
- 4 Fuse relays 4 A

2 SYSTEM INSTALLATION



Electrical consumption

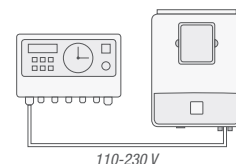
It's recommended to use a time delay circuit breaker of 25 A for domestic devices and a time delay circuit breaker of 40 A for industrial devices. In case of sharing the power supply with other devices please consult a technician in order to dimension a correct installation.

MAXIMUM CONSUMPTION ST1: 35 W

- A Filtration pump timer
- B Silox / glass / diatom filter
- C Recirculation pump
- 1 Electronic box
- 4 pH probe (optional - for models with pH control)
- 5 redoX probe (optional - for models with redoX control)
- 6 Conductivity probe (optional - for models with conductivity control)
- 8 Acid dosing pump (optional - for models with pH control)
- 9 Acid injector (optional - for models with pH control)
- 10 Hydrochloric acid container (optional, for models with pH control, not supplied with unit)
- 15 Other pool equipment
- 16 Module RF or RF/WIFI or WIFI
- 17 Free chlorine control



* Filtration control by external timer

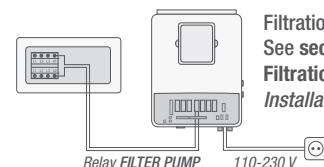


110-230 V

Filtration mode: "Manual/ON"



* Filtration control by internal timer



Relay FILTER PUMP 110-230 V

Filtration mode: See section 5 - Filtration of the General Installation Guide

3 MAINTENANCE

First days of maintenance

During the first 10-15 days your pool system will require more attention and the following care:

- 1 Make sure the pH remains on the ideal level (7,2 - 7,5). If the pH is unusually unstable and uses a lot of acid, check the alkalinity (recommended levels between 80 y 120 ppm).
- 2 The pool must be vacuumed and the skimmers cleaned whenever necessary to ensure perfect water conditions.

General maintenance

- 1 **DOSING PUMPS:** Check regularly to ensure that the container contains liquid to prevent the dosing pump of running dry. The dosing pump requires maintenance (SEE INSTRUCTIONS ON BOX).
- 2 **pH PROBES / redoX / CONDUCTIVITY:** Probes must be cleaned whenever necessary (check every 5-6 months). To clean the probe insert in distilled water (clear liquid). After each cleaning the probes must be calibrated. Also: the probes should never dry out and must be kept wet if stored (when emptying the pool for winterizing, make sure to store the measuring head in water).

Fortnightly checks

FREE CHLORINE 1,0 - 2,0 ppm
PH: 7,2 - 7,5

Monthly checks

TOTAL ALKALINITY (TAC) PH: 80 - 120 ppm
CYANURIC ACID 30 - 50 ppm

4 TROUBLESHOOTING

Blank display

- Check if ON/OFF switch is illuminated.
- Check the connection wire between display and motherboard.
- Check fuse of the device 3.15 A – it could have tripped due to overload.
- Check the power supply 110V/60Hz – 230V/50Hz.
- If problem persists contact **TECHNICAL SERVICE**

White flakes in the water

- The water is excessively hard and it is unbalanced.
- Balance the water and check the cell, proceeding to clean it if necessary.
- Put 1 small bag of flocculant in the skimmer and recirculate 24 hours.

Alarm AL3 and pH dosing pump stopped

- The maximum dosing time (standard 200 min.) is accomplished and the acid dosing pump stops in order to avoid the acidification of the water.
- To delete the message and to restart the metering press ESC (⊖). Do the following verifications in order to preclude errors on the device: Verify if the pH probe reading is correct (if not, calibrate the probe or substitute it with a new one); Verify if the acid/base deposit is full and if the dosing pump is working correctly; Verify the variable speed of the dosing pump.

WARNING

Keep chemical levels in pool as instructed in this manual.

EARTHING

All metallic components in the pool such as lamps, ladders, heat exchangers, drains or similar elements within 3 m from the pool (10 feet) must be connected to an earth below 37 Ohms. If using heat exchangers, we recommend them to be made of titanium.

SECURITY

To avoid accidents, children should not handle this product unless supervised by an adult. Children should be supervised at all times when in or near a spa, pool or jacuzzi.

