



# Analysis Instruments and Dosing Systems for Pool Water Treatment



# Tailored for you.

**Expert, attentive and competent: we have been taking care of water for more than 50 years, and do it with passion.**

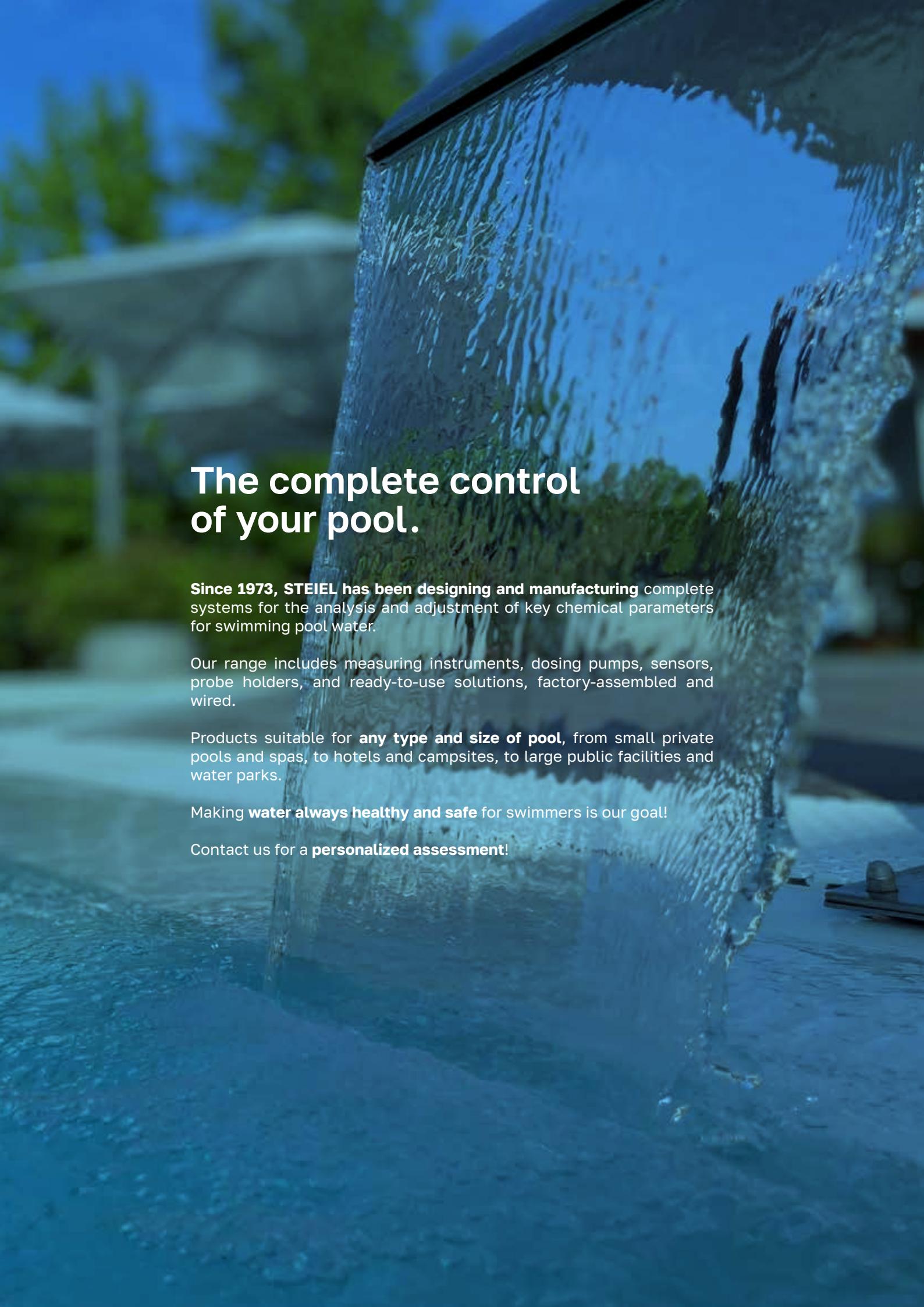
Water is not just our element, it is our mission.

At STEIEL, we design and manufacture **analysis instruments, measurement sensors, and dosing systems** for the treatment of all types of water, offering precise and reliable solutions.

We were among the pioneers in Italy in understanding the importance of a **personalized** approach. For this reason, each of our products is tailored to our customers' specific application needs.

Our team is the heart of STEIEL:

- Highly qualified electronic and mechanical **designers** create innovation.
- **Specialized technicians** provide field support for start-ups, maintenance, and assistance.
- Marketing and back-office professionals handle every customer request.
- **Technical and sales representatives** anticipate market needs, always at your side.



## The complete control of your pool.

**Since 1973, STEIEL has been designing and manufacturing** complete systems for the analysis and adjustment of key chemical parameters for swimming pool water.

Our range includes measuring instruments, dosing pumps, sensors, probe holders, and ready-to-use solutions, factory-assembled and wired.

Products suitable for **any type and size of pool**, from small private pools and spas, to hotels and campsites, to large public facilities and water parks.

Making **water always healthy and safe** for swimmers is our goal!

Contact us for a **personalized assessment**!

# Solutions for pH/chlorine analysis and control

STEIEL offers advanced measurement and control instruments, equipped with specific software for swimming pool applications and a series of functions designed to offer extremely simple yet complete control of your system, even remotely.



## EVOLUTION EW<sup>2</sup> Pool SERIES

The innovative proposal for complete control of swimming pool water.



- Chlorine determination via ORP readings or direct ppm measurement with amperometric sensor
- User-friendly interface with four multifunction soft-keys and graphic display with backlight changing colour according to instrument status
- Adjustment outputs to control acid and chlorine dosage in On-Off or PWM / PFM proportional mode
- Two outputs dedicated to flocculant and anti-algae dosage
- EcoMode function to save chemicals when the pool is not used (e.g. overnight)
- Control of super chlorination
- Step-by-step guided calibration procedure
- Two inputs for single or double-stage level sensors
- Inbuilt timer with extensive scheduling program
- Three-level password-protected configuration menu
- USB port to load parameter configuration, download data or upgrade the system
- RS485 communication with Modbus RTU protocol or optional connectivity with integrated SteielLynx gateway
- Power supply: 100-240 V~



## NOVA<sup>2</sup> Pool SERIES

The ultra-compact solution for pH/chlorine analysis and regulation.



- Chlorine determination via ORP readings or direct ppm measurement with amperometric sensor
- User-friendly interface with four multifunction soft-keys and graphic display with backlight changing colour according to instrument status
- Two integrated electromagnetic heads to dose acid and chlorine in On-Off or proportional mode
- EcoMode function to save chemicals when the pool is not used (e.g. overnight)
- Step-by-step guided calibration procedure
- Two inputs for level sensors of acid and chlorine tanks
- Inbuilt timer with extensive scheduling program
- Three-level password-protected configuration menu
- USB port to load parameter configuration, download data or upgrade the system
- RS485 communication with Modbus RTU protocol or optional connectivity with integrated SteielLynx gateway
- Power supply: 230 V~ (standard) or 115 V~ (upon order)



# easy+fix Installation System

STEIEL exclusive and patented system for compact and space-saving assembly of the sensor-holder, directly fixed on the instrument case. The symmetrical fixing plate allows the maximum **installation flexibility**.

You can mount the sensor-holder on the **left or right side**, depending on which one best fits your installation needs!



## SteieLynx Gateway & Web App

**The eagle eye that watches over your system!**

Supervising unit to remotely monitor and manage STEIEL instruments through the dedicated Web App, compatible with any type of device.

Data reports and alert messages directly on your PC or Smartphone.

- Internet connection via LAN port, Wi-Fi module or 4G network (USB modem with SIM card)
- Power supply: 100-240 V~
- Available as an external device in IP56 case for wall installation, or as a module to be integrated in the new EVOLUTION EW<sup>2</sup> Pool & NOVA<sup>2</sup> Pool units
- It can also communicate with EF315 / MCO14 units and NOVA NSP pumps provided with RS485 interface



## Colorimetric Control of Chlorine

- STEIEL MCO14 EVO units allow the continuous monitoring and the adjustment of pH & chlorine levels in swimming pool
- The pH value is detected with a standard electrode, while chlorine concentration is determined with DPD method, which is more precise and reliable than amperometric measurements, because readings are performed by an optical system, not affected by temperature fluctuations and type of used chlorination product.



Modbus

- Communication through serial port with Modbus RTU protocol or SteieLynx gateway
- Two models are available:
  - MCO14/3 EVO: measurement of pH / °C / Free chlorine
  - MCO14/5 EVO: measurement of pH / ORP / °C / Free & Total (combined) chlorine

# PROXIMA & NOVA Professional dosing pumps

Series of electromagnetic pumps with advanced multifunctional electronics and high performance hydraulics. Wide range of available options for pump head (PVDF, methacrylate, High Viscosity) and flow rate (2-32 l/h), optional RS485 port with Modbus RTU communication protocol.



## PROXIMA PSP SERIES

Professional pumps with stroke adjustment, foot-mounting.



### Available models:

**PSP161** : Multifunctional pump with inputs for pulse command (dosing proportional to the flow rate or automatic calculation) or from analogic signal (0/4-20 mA); batch and duty cycle modes.

**PSP162** : Pump with inbuilt pH/ORP meter

**PSP163** : Pump with inbuilt chlorine meter

**PSP164** : Pump with inbuilt conductivity meter



## NOVA SERIES

Pumps designed for wall installation.



### Available models:

#### NOVA NSP Series - professional line of wall pumps.

**NSP161** : Multifunctional pump with pulse and 0/4-20 mA inputs

**NSP162** : Pump with inbuilt pH/ORP meter

**NSP163** : Pump with inbuilt chlorine meter

#### NOVA NSE Series - basic line of wall pumps.

**NSE150** : ON/OFF pump

**NSE155** : ON/OFF pump with input for level sensor

**NSE157** : ON/OFF pump with pulse command and input for level sensor



## Backwash kit

The kit is designed for applications in which a chlorine reducing product is dosed in the backwash water of swimming pool filters.

It includes an SFC capacitive flow sensor and a NOVA NSE157 pump.

The SFC sensor detects the flow of a conductive liquid through a non-metallic wall (e.g. plastic pipes).



# Ready-to-use control systems

STEIEL offers a wide range of turnkey solutions for swimming pool applications. Assembled panels, complete with digital control unit, measurement sensors, calibration solutions, with or without dosing pumps and data logging system. The pH value is always measured with a specific electrode, while the chlorine concentration can be determined indirectly through ORP measurements or directly with an amperometric sensor.

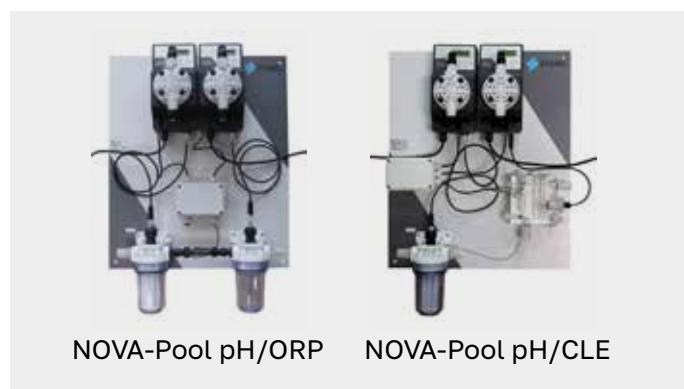


## NOVA-Pool Panels

Factory assembled, wired and configured systems, with two NOVA NSP professional dosing pumps with inbuilt measurement instrument, sensors and washable filter. Two models are available:

- NOVA Pool pH/ORP, with pH and ORP electrodes
- NOVA Pool pH/CLE, with pH electrode and open amperometric cell for direct chlorine analysis (ppm)

Both versions also include a flow sensor which stops dosing in case of water flow lack.



## Sensors & accessories

STEIEL offers a wide range of measurement sensors and accessories to be combined with the electronic instruments, to have complete measurement sets. Electrodes for pH and ORP readings, with glass or shockproof plastic body, ceramic diaphragm, screw head or inbuilt cable with BNC connector or tips for direct wiring to terminal block.

ORP models with in platinum or gold sensor.

Amperometric probes to measure chlorine and/or bromine concentration, open version or closed with ion-selective membrane.

PT100 sensors for temperature measurement and compensation.

Probe-holders and standard solutions for the correct installation, calibration and maintenance of sensors.

## Water disinfection with UV radiations

STEIEL offers a full range of systems for water sterilization with UV radiations, for both residential and public pools, with filtration flow rate from 1 to 1000 m<sup>3</sup>/h.

Models are available with AISI304 and AISI316L steel or HDPE vessel; mercury vapour lamps (low and medium pressure) and amalgam lamps; electronic control unit.





**STEIEL Elettronica Srl**  
Viale Europa, 24  
35020 Ponte San Nicolò (PD) - Italy  
+39 049 8961488  
info@steiel.it  
www.steiel.it

Follow us  

