

PRODUCT LIST 2026
FOR SWIMMING POOLS



Analysis Instruments and Dosing Systems for Pool Water



Tailored for you.

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

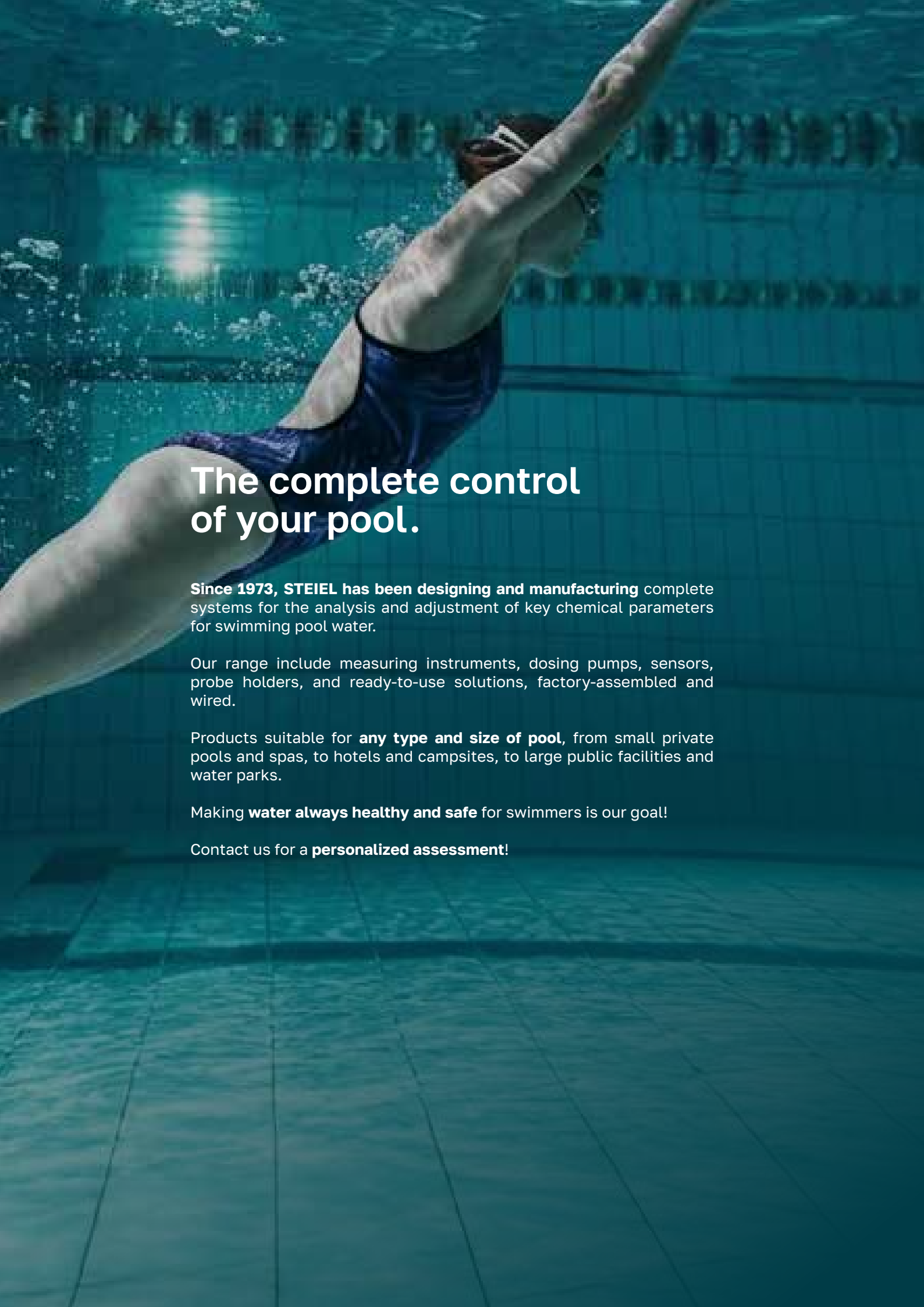
Water is not just our element, it is our mission.

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.

A swimmer in a blue suit is diving underwater in a pool. The swimmer's arms are extended forward, and their body is arched. The water is clear, and the pool floor is visible below. The background shows the pool's edge and some blurred figures of other swimmers.

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 include 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!**



Analysis Instruments and Dosing Systems for Pool Water

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Unfiltered Water



STEIEL ANALYSIS & CONTROL →

TYPE	PRIVATE POOLS		COMMERCIAL POOLS
DIMENSIONS	up to 100 m³	up to 250 m³	up to 300 m³
CONTROL UNIT	NOVA² Pool P pH/ORP	NOVA² Pool pH/ORP	EVOLUTION EW² Pool pH/Cloro
			
pH SENSOR	Plastic electrode		Glass electrode
DISINFECTANT MEASUREMENT	ORP Plastic electrode		CLE (Pt/Cu) open cell
ACID/CHLORINE DOSING	Peristaltic heads: 3 l/h acid / 6 l/h chlorine	Electromagnetic heads 2x 5 l/h (*)	NOVA NSE157 pumps 2x 5 l/h (*)
CONNECTIVITY	SteieLynx: inbuilt module / external unit	SteieLynx: inbuilt module / external unit	SteieLynx: inbuilt module / external unit
INSTALLATION	easy+fix compact system		easy+fix compact system / ready-to-use assembled panel

(*) Versions with dosing heads suitable for larger pool volumes are also available.

choose the solution that best suits your pool.

	COMMERCIAL AND PUBLIC POOLS	PUBLIC POOLS AND SWIMMING FACILITIES	
	up to 500 m³	up to 1500 m³	
	EVOLUTION EW² Pool pH/Cloro	EVOLUTION EW² Pool pH/Cloro	MCO14 EVO
			
	Glass electrode	Glass electrode	Glass electrode
	CAC probe with membrane, selective measurement	CAC probe with membrane, selective measurement	Colorimetric analysis of free (and total) chlorine, DPD method
	NOVA NSE157 pumps 2x 8 l/h	NOVA NSE157 pumps (2x 19 l/h) or PSP161 (2x 32 l/h)	NSE157 pumps (2x 19 l/h) or PSP161 (2x 32 l/h)
	SteieLynx: inbuilt module / external unit	SteieLynx: inbuilt module / external unit	SteieLynx: external unit
	Ready-to-use assembled panel	Ready-to-use assembled panel	Wall installation



EVOLUTION LINE

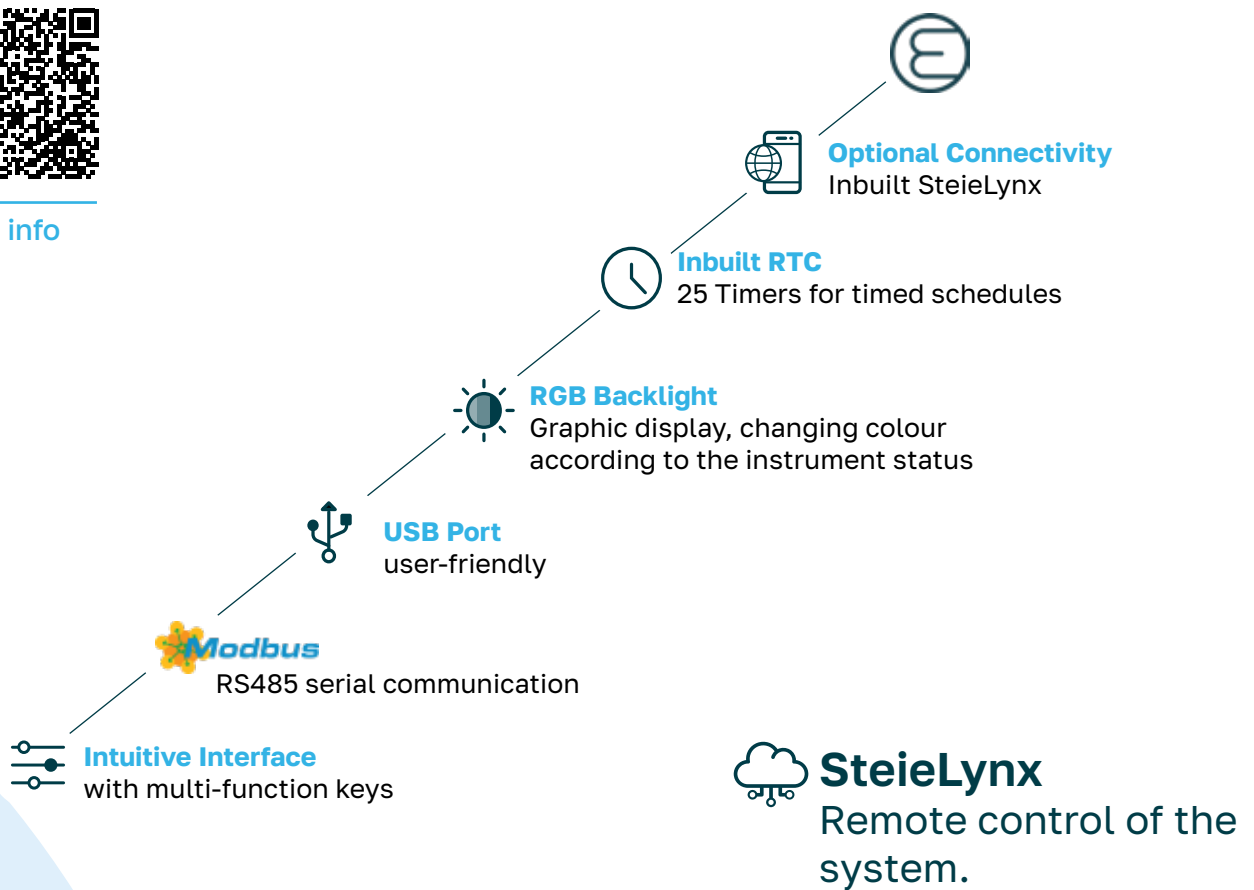
EW² Pool

DIGITAL UNITS FOR pH / CHLORINE CONTROL





[More info](#)



IN

2x Measurement sensors
1x PT100 / PT1000
1x Pause / Consent
1x ECO Mode
2x Level sensor
1x Sample Water



OUT

2x Adjustment
(PFM / On-Off / PWM)
1x Dosage of coagulant
1x Dosage of anti-algae
2x 0/4-20 mA

+ Specific software for pool applications.

+ USB port for parameters configuration, data saving and firmware upgrading.

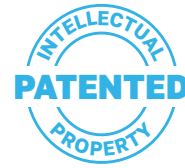
EVOLUTION EW² POOL LINE

- **Two measurement inputs for pH electrode / ORP electrode / amperometric sensor** (CAC or CLE **selectable through software**)
- Input for Pt100 or Pt1000 sensor, with **automatic detection** of sensor type; for temperature measurement and compensation
- **Easy-to-use interface** with intuitive configuration menu, four multi-function keys and **specific software for swimming pool applications**
- Three-level configuration, protected by **three different passwords**
- Large **display with RGB backlight**, that changes colour according to the instrument status
- Contact-type, 230V (115V) or pulse adjustment outputs to control metering pumps or other dosing devices, fully configurable in On-Off / PWM / PFM mode
- Two analog (0/4-20 mA) outputs, fully configurable
- Two inputs for level sensor, configurable at one or dual stage
- Input for Sample Water flow control
- Pause digital input, to disable all outputs
- Two **outputs for the timed control of anti-algae and coagulant product dosage**
- **“EcoMode” function** for dosage reduction and consequent chemicals savings, controlled by external contact or timer
- **Inbuilt RTC** for timed schedules and data labelling with date/time
- Easily accessible and watertight protected **USB port**, can be used for parameters configuration/saving, data downloading and system upgrading
- Communication options: RS485 serial port with Modbus RTU protocol or **inbuilt SteieLynx gateway**
- **Exclusive STEIEL casing** with fast installation system, thanks to the wall-mounting bracket and secure front cover attachment for easy operations; IP65 protection, suitable for damp technical rooms
- Power supply: **100-240 V~**, cable with Schuko plug (different options upon request)
- The instrument can be supplied with probe-holder to be attached to the casing with **easy+fix** support (see next page) or on panel, complete with dosing pumps

ITEM	DESCRIPTION	PART NO.
EW ² Pool pH/ORP	Two-channel instrument for pool, with inputs for pH and ORP electrodes; cable with Schuko plug	83W3F110
EW ² Pool pH/CAC-CLE	Two-channel instrument for pool, with inputs for pH electrode and amperometric sensor; cable with Schuko plug	83W3F120
EW ² Pool pH/ORP easy+fix	EW ² Pool easy+fix system with plastic-body pH and ORP electrode, PT100 and flow sensor; PF25 filter; cable with Schuko plug	83F5F110326
EW ² Pool pH/CAC easy+fix	EW ² Pool easy+fix system with EURO2010-PH electrode, CAC-CLO-M1 amperometric probe with membrane, PT100 and flow sensor; PF25 filter; cable with Schuko plug	83F5F12031A
EW ² Pool pH/CLE easy+fix	EW ² Pool easy+fix system with EURO2010-PH electrode, Cu/Pt open amperometric cell, PT100 and flow sensor; PF25 filter; cable with Schuko plug	83F5F120319
Kit RTU	Kit for RS485 communication with Modbus RTU protocol	83WM000U
Kit SteieLynx int.	Inbuilt SteieLynx Wi-Fi / LAN module	83WM000Y
	Inbuilt SteieLynx module, with USB 3G/4G modem and antenna	83WM000G

easy+fix Installation System

Innovative, Exclusive and
Patented System



EW² Pool units can be combined with easy+fix, the solution for compact and space-saving assembly of the sensor-holder, fixed directly to the instrument casing. The symmetrical bracket allows maximum flexibility for mounting the sensor holder on the right or left, depending on which side best suits your installation needs!



+ Fast delivery!



+ Compact installation,
in just 400x230 mm !



Ready-to-Use Control System

- The EVOLUTION EW² Pool control unit can be supplied assembled on a panel, complete with measurement sensors, calibration solutions, with or without dosing pumps.
- The pH value is always measured with specific electrode, while chlorine concentration can be determined indirectly through ORP measurements or directly with amperometric sensor.

PANEL EXAMPLE	DESCRIPTION	PART NO.
	PNL EW² Pool pH/Cl (CAC) with dosing pumps. High density PVC panel (900x700 mm), EW ² Pool unit with glass-body pH electrode, CAC-CLO-M1 probe, PT100 sensor, SD-CAC2 probe-holder with flow sensor, PF17 filter, two NSE157 C0512 dosing pumps and calibration solutions.	83P3F12031A023C13C1
	PNL EW² Pool pH/Cl (CLE) with dosing pumps. High density PVC panel (900x700 mm), EW ² Pool unit with glass-body pH electrode, CLE12 cell in probe-holder with flow sensor, PT100 probe, PF17 filter, two NSE157 C0512 dosing pumps and calibration solutions.	83P3F120319083C13C1
	PNL EW² Pool pH/Cl (CAC) without dosing pumps. High density PVC panel (595x750 mm), EW ² Pool unit with glass-body pH electrode, CAC-CLO-M1 probe, PT100 sensor, SD-CAC2 probe-holder with flow sensor, PF17 filter and calibration solutions.	83P3F12031A02
	PNL EW² Pool pH/Cl (CLE) without dosing pumps. High density PVC panel (595x750 mm), EW ² Pool unit with glass-body pH electrode, CLE12 cell in probe-holder with flow sensor, PT100 probe, PF17 filter and calibration solutions.	83P3F12031908
	PNL EW² Pool pH/ORP without dosing pumps. High density PVC panel (595x750 mm), EW ² Pool unit with plastic-body pH and ORP electrodes, PT100 probe, SH-1212/PNL probe-holder with flow sensor, PF17 filter and calibration solutions.	83P3F11032604

Spare Parts

BRACKETS for installation.

ITEM	DESCRIPTION	PART NO.
easy+fix	Plate to attach sensor-holder on EVOLUTION/NOVA ² casing	80610280
SMP-EVO	Bracket for wall installation of EVOLUTION/NOVA ² units	97000507



Spare Parts

NSE157 Solenoid-driven Pump with Diaphragm and Pulse Command for PFM adjustments



- PVDF dosing head, ceramic ball valves, PTFE seals
- RED-led, three-digit display
- Internal system for overheating control / safety
- Anti-leakage system towards the magnet
- PP-FG casing with V-0 UL flame classification
- IP65-rated housing
- The pump is supplied with standard accessory kit (foot filter; injection valve; suction / delivery / bleed hoses), fittings kit, wall-mounting bracket, cable with M8 connector for command input wiring

ITEM	DESCRIPTION	PART NO.
NSE157 PKT B0220	NSE157 pump, 2 l/h @ 20 bar, 230 V~, hose 4x6	91300B0220210S2000A00
NSE157 PKT C0512	NSE157 pump, 5 l/h @ 12 bar, 230 V~, hose 4x6	91300C0512210S2000A00
NSE157 PKT D0808	NSE157 pump, 8 l/h @ 8 bar, 230 V~, hose 5x8	91300D0808210S2000A00
NSE157 PKT E1504	NSE157 pump, 15 l/h @ 4 bar, 230 V~, hose 5x8	91300E1504210S2000A00
NSE157 PKT F1903	NSE157 pump, 19 l/h @ 3 bar, 230 V~, hose 9x12	91300F1903210S2000A00

DESCRIPTION	MODEL	PART NO.
Standard PKT dosing head, with ring nuts and screws	B0220	9700310A/PKT
	C0512	9700310B/PKT
	D0808	9700310L/PKT
	E1504	9700310C/PKT
	F1903	9700310D/PKT
Kit for the complete maintenance of standard PKT dosing head	B0220	97003000/PKT
	C0512	97003001/PKT
	D0808	97003005/PKT
	E1504	97003002/PKT
	F1903	97003003/PKT
Kit fittings for hose...	4x6 mm	97003090
	5x8 mm	97003093
	9x12 mm	97003096
Hose-tightening ring for bleeding	-	97003183
Bleeding valve	-	97003180
Bleeding knob	-	97003184
Multi-layer diaphragm: high quality EPDM, tissue-reinforced, steel core and PTFE coating on the side in contact with the liquid	B0220	97003010
	C0512	97003011
	D0808	97003015
	E1504	97003012
	F1903	97003013
Safety membrane	-	70110063
Kit of galvanized screws for dosing head, L=45 mm	B0220	97003225
Kit of galvanized screws for dosing head, L=50 mm	C0512, D0808	97003226
Kit of galvanized screws for dosing head, L=55 mm	E1504, F1903	97003227



DESCRIPTION	MODEL	PART NO.
Flat gaskets for fittings of PROXIMA / NOVA pumps, kit 10 pc.	FPM	9700315V
	EPDM	9700315E
	PTFE	9700315T
PKT foot valve with filter, fitting for hose...	4x6 mm	97003020/PKT
	5x8 mm	97003021/PKT
	9x12 mm	97003022/PKT
PKT injection valve with spring loaded at 0.5 bar, fitting for hose...	4x6 mm	97003030/PKT
	5x8 mm	97003031/PKT
	9x12 mm	97003032/PKT
Standard kit: PVC Crystal hose (2 m), PE hose (5 m), PKT foot valve, PKT injection valve	4x6 mm	97003200/PKT
	5x8 mm	97003201/PKT
	9x12 mm	97003202/PKT
Level probe with 2 m PUR cable and M8 plastic connector for NOVA / PROXIMA pumps	SLP-C	97009032
PUR cable with M8 F plastic connector, L = 2 m	CAV2M8D/P	80099262
PVC cable with M8 F plastic connector, L = 5 m	CAV5M8D/P	80099194
PVC Crystal hose, 100 m coil	4x6 mm	97010303
	5x8 mm	97010306
PVC Crystal hose, 50 m coil	9x12 mm	97010215
PE hose, 100 m coil	4x6 mm	97013303
	5x8 mm	97013306
PE hose, 50 m coil	9x12 mm	97013215

Spare Parts

Level sensors for reagent tanks.

ITEM	DESCRIPTION	PART NO.	€
SLP-A	Level probe with PUR cable 2 m and tips for connection to EVOLUTION line instruments	97009030	36.00
SLP-A25	Level probe with cable 25 m and tips for connection to EVOLUTION line instruments	97009050	60.00



Spare Parts

Measurement Sensors pH and ORP Electrodes



- Combined electrodes with glass body, diameter 12 mm; screw head
- Combined electrodes with shockproof plastic body, diameter 12 mm; HQ (High Quality) coaxial cable, section 5 mm
- Gel electrolyte
- pH electrodes with S-glass sensitive membrane, range 0...14 pH, minimum conductivity of sample 50 $\mu\text{S}/\text{cm}$
- ORP electrodes with platinum or gold sensor, range ± 2000 mV

ITEM	DESCRIPTION	PART NO.
EURO2010-pH	pH electrode with glass body and S7 threaded head	80092010
EURO2110-RX	ORP electrode with platinum sensor, glass body and S7 head	80192110
EURO2120-RX	ORP electrode with gold sensor, glass body and S7 head	80192120
BNC/CV1	HQ coaxial cable with S7 and BNC connectors, L = 1 m	80099001
BNC/CV3	HQ coaxial cable with S7 and BNC connectors, L = 3 m	80099003
BNC/CV5	HQ coaxial cable with S7 and BNC connectors, L = 5 m	80099004
EURO41111-pH	pH electrode with plastic body, 1 m cable and BNC connector	80094111
EURO41112-pH	pH electrode with plastic body, 2.5 m cable and BNC connector	80094112
EURO41114-pH	pH electrode with plastic body, 5 m cable and BNC connector	80094114
EURO41111-RX	ORP/Pt electrode with plastic body, 1 m cable and BNC	80194111
EURO41112-RX	ORP/Pt electrode with plastic body, 2.5 m cable and BNC	80194112
EURO41114-RX	ORP/Pt electrode with plastic body, 5 m cable and BNC	80194114
EURO2234-RX	ORP/Au electrode with plastic body, 1 m cable and BNC	80192234
EURO2191-RX	ORP/Au electrode with plastic body, 2.5 m cable and BNC	80192191

Standard Solutions for pH and ORP electrodes



- Full range of solutions for calibration and periodic maintenance of pH and ORP sensors.

DESCRIPTION	PART NO.
pH4 buffer solution, 90 ml bottle	80090095
pH4 buffer solution, 500 ml bottle	80090093
pH7 buffer solution, 90 ml bottle	80090096
pH7 buffer solution, 500 ml bottle	80090094
ORP calibration solution, 220 mV @ 25 °C, 90 ml bottle	80190091
ORP calibration solution, 220 mV @ 25 °C, 500 ml bottle	80190090
Electrode storage solution, 500 ml bottle	80090091
Kit of solutions for cleaning and storage of pH and ORP electrodes	80099902
Protective cap for the correct storage of pH and ORP electrodes	36100112



Measurement Sensors Closed Amperometric Cells with Membrane. CAC Series



- Series of probes with ion-selective membrane for oxidants measurement in water
- Four-wire direct cable, standard length 1 m
- Conductivity of the sample (aqueous solution): 50 ... 10000 $\mu\text{S}/\text{cm}$
- Thermo-compensated readings thanks to the inbuilt temperature sensor
- Working conditions: temperature max 45 °C / pressure max 1 bar

ITEM	DESCRIPTION	PART NO.
CAC-CLO-M1	Probe for available free chlorine measurement, pH range 5.0-9.5, measurement range 0.01-10.0 ppm	80611203
CAC-ME-4	Spare membrane for CAC-CLO-M1 probe, orange cap	80611004
CAC-EL-3	Electrolyte for CAC-CLO-M1 probe, 50 ml bottle	80611023
CAC-CLI-SW	Probe for active free chlorine measurement in sea water, pH range 5.0-9.5, measurement range 0.01-10.0 ppm	80611103
CAC-BRO-M	Probe for bromine (BCDMH) measurement, pH range 6.0-9.5, measurement range 0.01-10.0 ppm	80611503
CAC-ME-1	Spare membrane for CAC-CLI-SW and CAC-BRO-M probes, blue cap	80611001
CAC-EL-1	Electrolyte for CAC-CLI-SW probe, 100 ml bottle	80611021
CAC-EL-4	Electrolyte for CAC-BRO-M probe, 50 ml bottle	80611024
CAC-HYP-XB	Probe for hydrogen peroxide measurement, pH range 2.5-8.0, measurement range 0.5-50.0 ppm	80611605
CAC-ME-5	Spare membrane for CAC-HYP_XB probe, grey cap	80611005
CAC-EL-7	Electrolyte for CAC-HYP-XB probe, 50 ml bottle	80611027
CAC-OR	Silicone ring seal for CAC membrane-cap, kit 10 pieces	80612099

Measurement Sensors Open Amperometric Cells



- Measurement of free chlorine and bromine
- Two-electrode cell, copper and platinum (Cu/Pt), with anti-passivation system
- Reading up to 5 ppm with saturation error
- Assembled in down-flow probe-holder with methacrylate body, IN-OUT fittings and sampling outlet
- Working conditions: temperature max 40 °C, pressure max 3 bar, recommended flow rate 40-50 l/h, pH range 6-7.8
- Supplied with installation kit (Kit B)

ITEM	DESCRIPTION	PART NO.
CLE11	Open amperometric cell with Cu/Pt electrodes and housings for PT100 probe and flow sensor	80610140
CLE12	Open amperometric cell with Cu/Pt electrodes and housings for PT100 probe, flow sensor and two probes with dia. 12 mm	80610130
SH-12CLE	Open amperometric cell for easy+fix system, with Cu/Pt electrodes, housings for PT100 probe, flow sensor and one probe with dia. 12 mm; push-fit fittings 8 mm	8081332D
SH-12CLE/PNL	SH-12CLE with PP connections for hose 6x8	80813322
CLE12/SENS	Spare Cu/Pt electrode group, 1 m cable	80610115
Kit sfere/CLE	Kit of spare Pyrex balls for CLE cells	80610110



Measurement Sensors Temperature Probe



- Temperature probe with PT100 sensor
- Threaded PP body for installation in probe-holder or directly in-line
- Direct cable
- Working temperature: max 90 °C for 20 minutes, max 75 °C for continuous operation

ITEM	DESCRIPTION	PART NO.
PT101-CP1	PT100 probe with 3-wire cable, L = 0.75 m	80390013

Probe-holders

Series of Probe-Holders and Accessories.



- Probe-holders series for the installation of measurement sensors
- Supplied with installation kit (no PF17), and IN-OUT connections

ITEM	DESCRIPTION	PART NO.
SF17	Electrode-holder with transparent SAN cup for the installation of one sensor dia. 12 mm; with mounting bracket and PP conn. 6x8	80810011
PF17	Filter-holder with transparent SAN cup, PP cartridge with washable PA mesh, 80 µm; with mounting bracket and conn.	80710026
2x SF17	Kit including 2x SF17, 1x filtering cartridge, IL-SF flow sensor; supplied assembled and ready to install	80810013
PF17 cartridge	Filtering PP cartridge with washable PA mesh, 80 µm, to be used with models SF17 / PF17	80710034
IL-SF	Flow sensor, 2-wire contact, 3/8" M/M connection	97009202
SH-1212	Methacrylate probe-holder for easy+fix systems, with housings for two sensors dia 12 mm, flow sensor and PT100 probe, push-fit fittings 8 mm	8081331D
SH-1212/PNL	SH-1212 probe-holder with PP connections for hose 6x8	80813312
SD-CAC1	Methacrylate probe-holder with housings for one CAC probe, flow sensor and PT100, PP connections for hose 6x8	80610255
SD-CAC2	Methacrylate probe-holder with housings for one CAC probe, 2 sensors dia 12 mm, flow sensor and PT100, PP connections 6x8	80610256
Kit electrode	Kit of threaded rings & seals to install one sensor dia. 12 mm	80610265
Kit CAC	Kit of threaded rings & seals to install one CAC probe	80610264
Kit maintenance	Maintenance kit for CLE and SD series probe-holders	80610268
SH-1225	Methacrylate probe-holder for easy+fix systems, with housings for one sensor dia 12 mm, one CAC probe, flow sensor and PT100 probe, push-fit fittings 8 mm	8081330D
SH-1225/PNL	SH-1225 probe-holder with PP connections for hose 6x8	80813302
PF25	Filter + fitting for SH probe-holders	80710042
PF25 cartridge	Spare filtering cartridge for PF25 with 80 µm mesh	80710043
SD-SF/NPN	Three-wire NPN proximity sensor	54500010
Kit B	Installation kit: 2 PVC valves M/F ½", 2 PP fittings with ½" threaded ring, PE hose 6x8 mm (5 m)	80509915
Hose PE	PE hose, 6x8 mm, 100 m coil	97013308
Connection 6x8	PP connection with O-ring for hose 6x8 mm	97000164

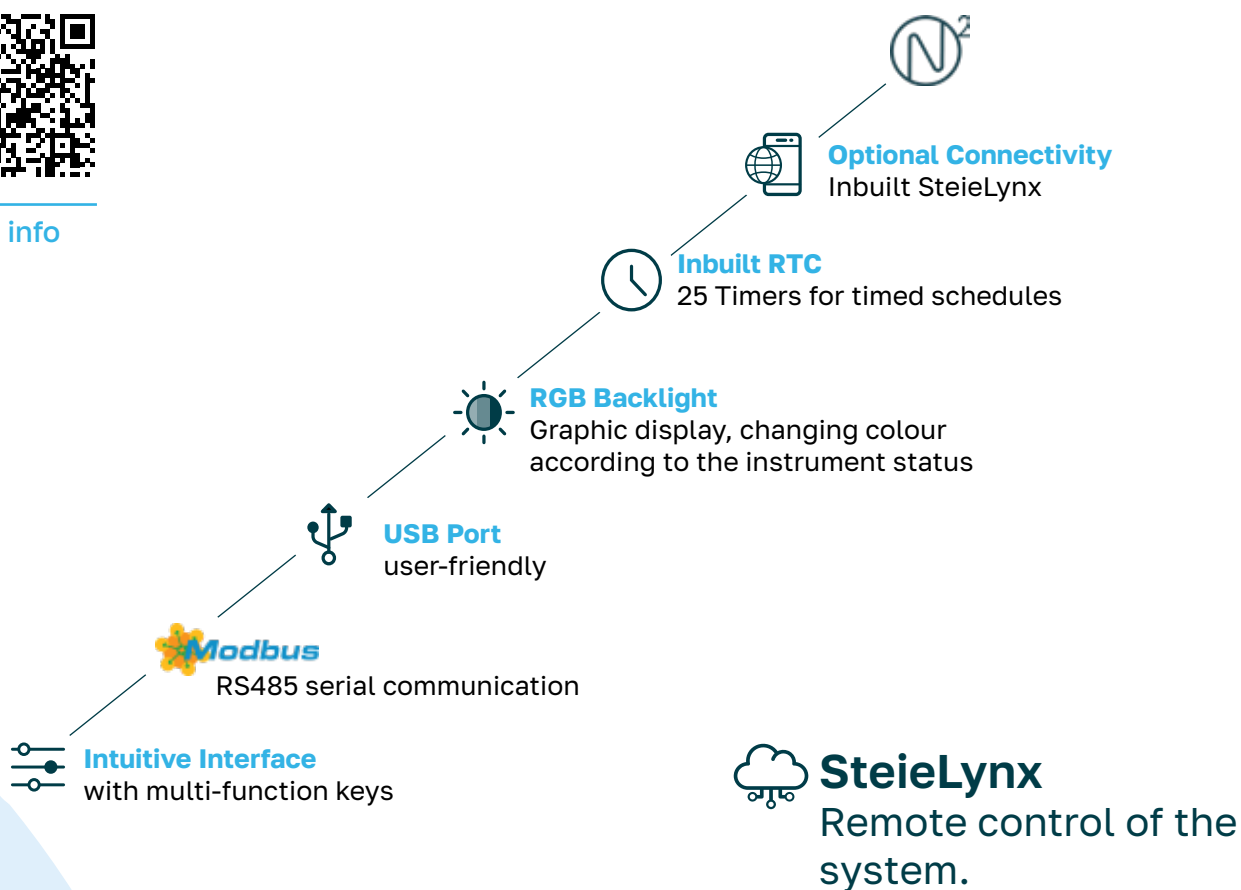
NOVA² Pool LINE

**COMPACT UNITS FOR pH/CHLORINE ANALYSIS
AND ADJUSTMENT, WITH INBUILT
ELECTROMAGNETIC DOSING HEADS**





[More info](#)



IN

- 2x Measurement sensors
- 1x PT100 / PT1000
- 1x Pause / Consent
- 1x ECO Mode
- 2x Level sensor
- 1x Sample Water



OUT

- 2x Electromagnetic dosing heads (On-Off / PWM)

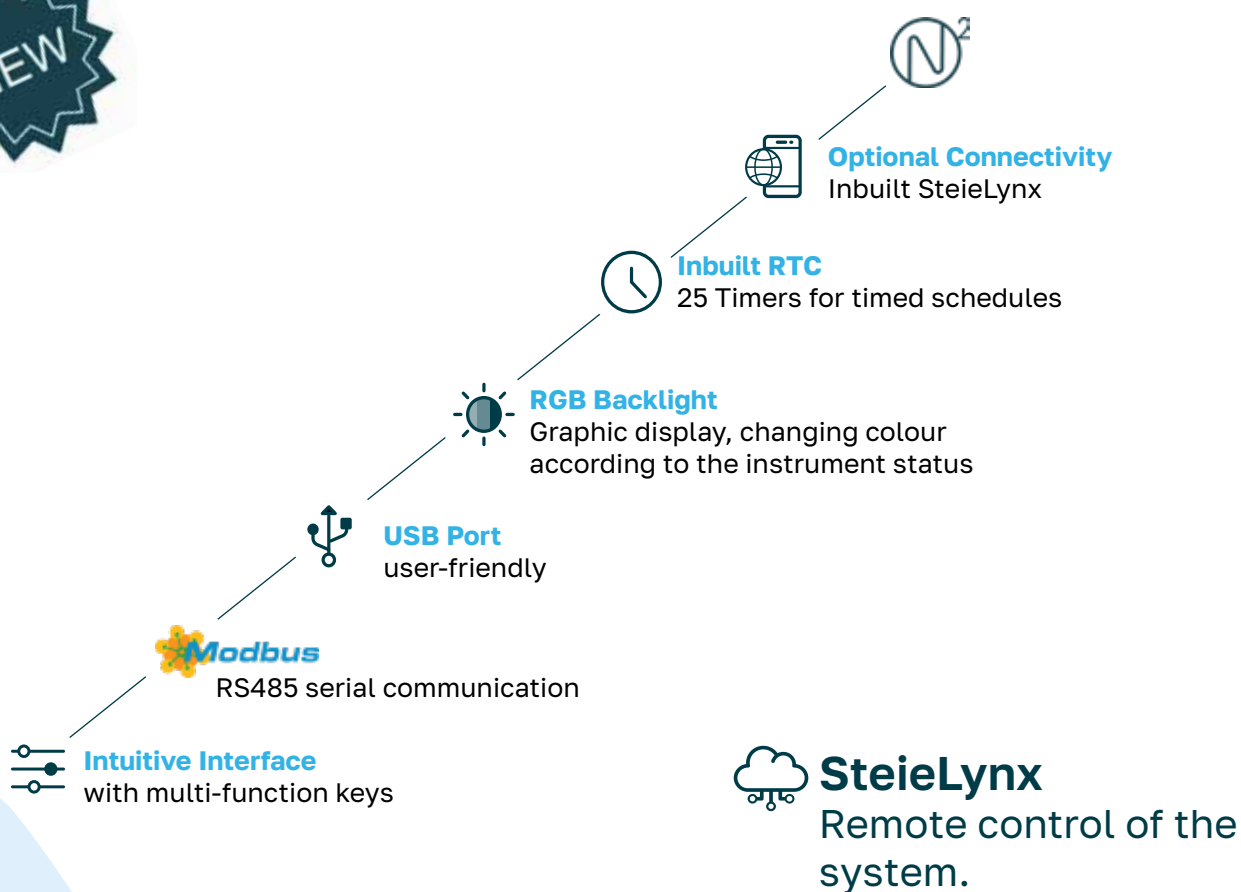
+ Specific software for pool applications.

+ USB port for parameters configuration, data saving and firmware upgrading.

NOVA² Pool P LINE

COMPACT UNITS FOR pH/CHLORINE ANALYSIS
AND ADJUSTMENT, WITH INBUILT **PERISTALTIC
DOSING HEADS**





IN

2x Measurement sensors
1x PT100 / PT1000
1x Pause / Consent
1x ECO Mode
2x Level sensor
1x Sample Water



OUT

2x Peristaltic dosing heads (On-Off / PWM)
or
1x Peristaltic head (acid dosage)
1x Schuko socket (chlorinator control)

+ Specific software for pool applications.

+ USB port for parameters configuration, data saving and firmware upgrading.

NOVA² Pool / NOVA² Pool P / NOVA² Pool P+S LINE

- **Two measurement inputs for pH and ORP electrodes or pH electrode and amperometric sensor** (CAC or CLE, to be specified upon order)
- Input for Pt100 or Pt1000 sensor, with **automatic detection** of sensor type; for temperature measurement and compensation
- **Easy-to-use interface** with intuitive configuration menu, four multi-function keys and **specific software for swimming pool applications**
- Three-level configuration, protected by **three different passwords**
- Large **display with RGB backlight**, that changes colour according to the instrument status
- **Inbuilt RTC** for timed schedules and data labelling with date/time
- **Inbuilt dosing heads:**
 - **NOVA² Pool:** two PVDF electromagnetic heads, various flow rates available
 - **NOVA² Pool P:** two peristaltic heads with Santoprene® tube, 3 l/h for acid and 6 l/h for chlorine
 - **NOVA² Pool P+S:** peristaltic head for acid dosage and Schuko socket to drive the chlorination device (also available version with electromagnetic head and Schuko socket)
- Two inputs for level sensors
- Pause digital input, to disable all outputs
- Easily accessible and watertight protected **USB port**, can be used for parameters configuration/saving, data downloading and system upgrading
- Communication options: RS485 serial port with Modbus RTU protocol or **inbuilt SteieLynx gateway**
- **Exclusive STEIEL casing** with fast installation system, thanks to the wall-mounting bracket; IP65 protection, suitable for damp technical rooms
- Power supply: **230 V~** (standard) or 115 V~ (upon request), 50/60 Hz
- Cable with Schuko plug (different options upon request)
- The instrument can be supplied with probe-holder to be attached to the casing with **easy+fix** support



NOVA² Pool



NOVA² Pool P



NOVA² Pool P+S

easy+fix Installation System

Innovative, Exclusive and
Patented System



NOVA² Pool units can be combined with easy+fix, the solution for compact and space-saving assembly of the sensor-holder, fixed directly to the instrument casing. The symmetrical bracket allows maximum flexibility for mounting the sensor holder on the right or left, depending on which side best suits your installation needs!



+ Fast delivery!



+ Compact installation,
in just 400x230 mm !

NOVA² Pool Series with electromagnetic dosing heads

ITEM	DESCRIPTION	COMMUNICATION	PART NO.
NOVA ² Pool pH/ORP	Compact control unit for swimming pools with pH/ORP + Pt100 inputs; 230V, cable with Schuko plug; 5 l/h @ 3 bar dosing heads	No communication	83N1F10BB
		Modbus RTU	83N1F1UBB
		SteieLynx Wi-Fi/LAN	83N1F1YBB
		SteieLynx 3G/4G	83N1F1GBB
NOVA ² Pool pH/CAC	Compact control unit for swimming pools with pH/CAC + Pt100 inputs; 230V, cable with Schuko plug; 5 l/h @ 3 bar dosing heads	No communication	83N1F20BB
		Modbus RTU	83N1F2UBB
		SteieLynx Wi-Fi/LAN	83N1F2YBB
		SteieLynx 3G/4G	83N1F2GBB
NOVA ² Pool pH/CLE	Compact control unit for swimming pools with pH/CLE + Pt100 inputs; 230V, cable with Schuko plug; 5 l/h @ 3 bar dosing heads	No communication	83N1F30BB
		Modbus RTU	83N1F3UBB
		SteieLynx Wi-Fi/LAN	83N1F3YBB
		SteieLynx 3G/4G	83N1F3MBB

NOVA² Pool easy+fix Systems with electromagnetic dosing heads

ITEM	DESCRIPTION	COMMUNICATION	PART NO.
NOVA ² Pool pH/ORP easy+fix	NOVA ² Pool easy+fix System with plastic-body pH and ORP electrodes, PT100 and flow sensor; 230V, cable with Schuko plug; PF25 filter; 5 l/h @ 3 bar dosing heads	No communication	83F3F10BB322
		Modbus RTU	83F3F1UBB322
		SteieLynx Wi-Fi/LAN	83F3F1YBB322
		SteieLynx 3G/4G	83F3F1GBB322
NOVA ² Pool pH/CAC easy+fix	NOVA ² Pool easy+fix System with EURO2010-PH electrode, CAC-CLO-M1 amperometric probe, PT100 and flow sensor; 230V, cable with Schuko plug; PF25 filter; 5 l/h @ 3 bar dosing heads	No communication	83F3F20BB31A
		Modbus RTU	83F3F2UBB31A
		SteieLynx Wi-Fi/LAN	83F3F2YBB31A
		SteieLynx 3G/4G	83F3F2GBB31A
NOVA ² Pool pH/CLE easy+fix	NOVA ² Pool easy+fix System with EURO2010-PH electrode, Cu/Pt open amperometric cell, PT100 and flow sensor; 230V, cable with Schuko plug; PF25 filter; 5 l/h @ 3 bar dosing heads	No communication	83F3F30BB319
		Modbus RTU	83F3F3UBB319
		SteieLynx Wi-Fi/LAN	83F3F3YBB319
		SteieLynx 3G/4G	83F3F3MBB319

Note: Communication options (RS485 Modbus or integrated SteieLynx module) are assembled at the factory and, therefore, must be requested upon order.

Available dosing heads (flow rates)

DOSING HEADS	DESCRIPTION
BB 0503	Standard heads, 5 l/h @ 3 bar (hose 4x6 mm)
CC 0703	Heads 7 l/h @ 3 bar (hose 4x6 mm)
EE 1503	Heads 15 l/h @ 3 bar (hose 5x8 mm)
FF 2502	Heads 25 l/h @ 2 bar (hose 9x12 mm)



NOVA² Pool P Series with peristaltic dosing heads

ITEM	DESCRIPTION	COMMUNICATION	PART NO.
NOVA ² Pool P pH/ORP	Compact control unit for swimming pools with pH/ORP + Pt100 inputs; 230V, cable with Schuko plug; 3 l/h head for acid dosage and 6 l/h for chlorine	No communication	83N2F10AB
		Modbus RTU	83N2F1UAB
		SteieLynx Wi-Fi/LAN	83N2F1YAB
		SteieLynx 3G/4G	83N2F1GAB
NOVA ² Pool P pH/ORP easy+fix	NOVA ² Pool easy+fix System with plastic-body pH and ORP electrodes, PT100 and flow sensor; 230V, cable with Schuko plug; PF25 filter; 3 l/h head for acid dosage and 6 l/h for chlorine	No communication	83F4F10AB322
		Modbus RTU	83F4F1UAB322
		SteieLynx Wi-Fi/LAN	83F4F1YAB322
		SteieLynx 3G/4G	83F4F1GAB322

NOVA² Pool P+S Series with peristaltic (*) head and Schuko socket

ITEM	DESCRIPTION	COMMUNICATION	PART NO.
NOVA ² Pool P+S pH/ORP	Compact control unit for swimming pools with pH/ORP + Pt100 inputs; 230V, cable with Schuko plug; 3 l/h head for acid dosage and 230V Schuko socket for chlorinator control	No communication	83N2F10A0
		Modbus RTU	83N2F1UA0
		SteieLynx Wi-Fi/LAN	83N2F1YA0
		SteieLynx 3G/4G	83N2F1GA0
NOVA ² Pool P+S pH/ORP easy+fix	NOVA ² Pool P+S easy+fix System with plastic-body pH and ORP electrodes, PT100 and flow sensor; 230V, cable with Schuko plug; PF25 filter; 3 l/h head for acid dosage and 230V Schuko socket for chlorinator control	No communication	83F4F10A0322
		Modbus RTU	83F4F1UA0322
		SteieLynx Wi-Fi/LAN	83F4F1YA0322
		SteieLynx 3G/4G	83F4F1GA0322

(*) On request, also available models with electromagnetic head for acid dosing and Schuko socket for chlorinator control.

Note: Communication options (RS485 Modbus or integrated SteieLynx module) are assembled at the factory and, therefore, must be requested upon order.

Spare Parts

NOVA² Pool

Spare parts for electromagnetic heads

DESCRIPTION	MODEL	PART NO.
Standard PKT dosing head, with ring nuts and screws	B0503	83N90B00
	C0703	83N90C00
	E1503	83N90E00
	F2502	83N90F00
Kit for the complete maintenance of standard PKT dosing head (suction/delivery valves with kit fittings, bleeding valve, diaphragm and safety membrane)	B0503	97003000/PKT
	C0703	97003001/PKT
	E1503	97003002/PKT
	F2502	97003003/PKT
Kit fittings for hose...	4x6 mm	97003090
	5x8 mm	97003093
	9x12 mm	97003096
Multi-layer diaphragm: high quality EPDM, tissue-reinforced, steel core and PTFE coating on the side in contact with the liquid	B0503	97003010
	C0703	97003011
	E1503	97003012
	F2502	97003013
Hose-tightening ring for bleeding	-	97003183
Bleeding valve	-	97003180
Bleeding knob	-	97003184
Safety membrane	-	70110063
Kit of galvanized screws for dosing head, L=55 mm	B0503	97003227
Kit of galvanized screws for dosing head, L=60 mm	C0703, E1503, F2502	97003229
Flat gaskets for fittings of NOVA heads, kit 10 pc.	FPM	9700315V
	EPDM	9700315E
	PTFE	9700315T
PKT foot valve with filter, fitting for hose...	4x6 mm	97003020/PKT
	5x8 mm	97003021/PKT
	9x12 mm	97003022/PKT
PKT injection valve with spring loaded at 0.5 bar, fitting for hose...	4x6 mm	97003030/PKT
	5x8 mm	97003031/PKT
	9x12 mm	97003032/PKT
Standard kit: PVC Crystal hose (2 m), PE hose (5 m), PKT foot valve, PKT injection valve	4x6 mm	97003200/PKT
	5x8 mm	97003201/PKT
	9x12 mm	97003202/PKT



Spare Parts

NOVA² Pool P Spare parts for peristaltic heads

DESCRIPTION	PART NO.
Spare peristaltic pump, 3 l/h model	95890B02
Spare peristaltic pump, 6 l/h model	95890B04
Santoprene® peristaltic tube	96000230
Spare roller-holder	96000411
Protective front panel for peristaltic head	96000132
Injection valve for peristaltic pumps	97002012/SLV
Foot filter for peristaltic pumps	97002013/SLV
Accessory kit for peristaltic pumps: PVC Crystal hose (4x6 mm, 2 m), PE hose (4x6 mm, 2 m), injection valve and foot filter	96000100

Accessories for dosing heads.

ITEM	DESCRIPTION	PART NO.
PVC Crystal hose	Hose 4x6 mm, 100 m coil	97010303
	Hose 5x8 mm, 100 m coil	97010306
	Hose 9x12 mm, 50 m coil	97010215
PE hose	Hose 4x6 mm, 100 m coil	97013303
	Hose 5x8 mm, 100 m coil	97013306
	Hose 9x12 mm, 50 m coil	97013215
SLP-C	Level probe with 2 m PUR cable and M8 plastic connector	97009032

BRACKETS for installation.

ITEM	DESCRIPTION	PART NO.
easy+fix	Plate to attach sensor-holder on EVOLUTION/NOVA ² casing	80610280
SMP-EVO	Bracket for wall installation of EVOLUTION/NOVA ² units	97000507



Spare Parts

Measurement Sensors pH and ORP Electrodes



- Combined electrodes with shockproof plastic body, diameter 12 mm; HQ (High Quality) coaxial cable, section 5 mm
- Gel electrolyte
- pH electrodes with S-glass sensitive membrane, range 0...14 pH, minimum conductivity of sample 50 $\mu\text{S/cm}$
- ORP electrodes with platinum or gold sensor, range ± 2000 mV

ITEM	DESCRIPTION	PART NO.
EURO41111-pH	pH electrode with plastic body, 1 m cable and BNC connector	80094111
EURO41112-pH	pH electrode with plastic body, 2.5 m cable and BNC connector	80094112
EURO41114-pH	pH electrode with plastic body, 5 m cable and BNC connector	80094114
EURO41111-RX	ORP/Pt electrode with plastic body, 1 m cable and BNC	80194111
EURO41112-RX	ORP/Pt electrode with plastic body, 2.5 m cable and BNC	80194112
EURO41114-RX	ORP/Pt electrode with plastic body, 5 m cable and BNC	80194114
EURO2234-RX	ORP/Au electrode with plastic body, 1 m cable and BNC	80192234
EURO2191-RX	ORP/Au electrode with plastic body, 2.5 m cable and BNC	80192191

Standard Solutions for pH and ORP electrodes



- Full range of solutions for calibration and periodic maintenance of pH and ORP sensors.

DESCRIPTION	PART NO.
pH4 buffer solution, 90 ml bottle	80090095
pH4 buffer solution, 500 ml bottle	80090093
pH7 buffer solution, 90 ml bottle	80090096
pH7 buffer solution, 500 ml bottle	80090094
ORP calibration solution, 220 mV @ 25 °C, 90 ml bottle	80190091
ORP calibration solution, 220 mV @ 25 °C, 500 ml bottle	80190090
Electrode storage solution, 500 ml bottle	80090091
Kit of solutions for cleaning and storage of pH and ORP electrodes	80099902
Protective cap for the correct storage of pH and ORP electrodes	36100112



Measurement Sensors Closed Amperometric Cells with Membrane. CAC Series



- Series of probes with ion-selective membrane for oxidants measurement in water
- Four-wire direct cable, standard length 1 m
- Conductivity of the sample (aqueous solution): 50 ... 10000 $\mu\text{S}/\text{cm}$
- Thermo-compensated readings thanks to the inbuilt temperature sensor
- Working conditions: temperature max 45 °C / pressure max 1 bar

ITEM	DESCRIPTION	PART NO.
CAC-CLO-M1	Probe for available free chlorine measurement, cable with Weipu connector, pH range 5.0-9.5, measurement range 0.01-10.0 ppm	806112D3
CAC-ME-4	Spare membrane for CAC-CLO-M1 probe, orange cap	80611004
CAC-EL-3	Electrolyte for CAC-CLO-M1 probe, 50 ml bottle	80611023
CAC-CLI-SW	Probe for active free chlorine measurement in sea water, cable with Weipu connector, pH range 5.0-9.5, measurement range 0.01-10.0 ppm	806111D3
CAC-BRO-M	Probe for bromine (BCDMH) measurement, cable with Weipu connector, pH range 6.0-9.5, measurement range 0.01-10.0 ppm	806115D3
CAC-ME-1	Spare membrane for CAC-CLI-SW and CAC-BRO-M probes, blue cap	80611001
CAC-EL-1	Electrolyte for CAC-CLI-SW probe, 100 ml bottle	80611021
CAC-EL-4	Electrolyte for CAC-BRO-M probe, 50 ml bottle	80611024
CAC-OR	Silicone ring seal for CAC membrane-cap, kit 10 pieces	80612099
Kit Weipu	Weipu female connector for chlorine sensor, with Allen key for mounting	80611050

Measurement Sensors Open Amperometric Cell



- Measurement of free chlorine and bromine
- Two-electrode cell, copper and platinum (Cu/Pt), with antipassivation system
- Reading up to 5 ppm with saturation error
- Assembled in down-flow probe-holder with methacrylate body, IN-OUT fittings and sampling outlet
- Working conditions: temperature max 40 °C, pressure max 3 bar, recommended flow rate 40-50 l/h, pH range 6-7.8
- Supplied with installation kit (Kit B)

ITEM	DESCRIPTION	PART NO.
SH-12CLE	Open amperometric cell for easy+fix system, with Cu/Pt electrodes, housings for PT100 probe, flow sensor and one probe with dia. 12 mm; push-fit fittings 8 mm; cable with Weipu connector	8081342D
CLE12/SENS/W	Spare Cu/Pt electrode group, 1 m cable with Weipu connector	80610134
Kit sfere/CLE	Kit of spare Pyrex balls for CLE cells	80610110

Measurement Sensors Temperature Probe



- Temperature probe with PT100 sensor
- Threaded PP body for installation in probe-holder or directly in-line
- Direct cable
- Working temperature: max 90 °C for 20 minutes, max 75 °C for continuous operation

ITEM	DESCRIPTION	PART NO.
PT101-CP1/M8	PT100 probe with 3-wire cable (L = 0,75 m) and M8 connector	80390013

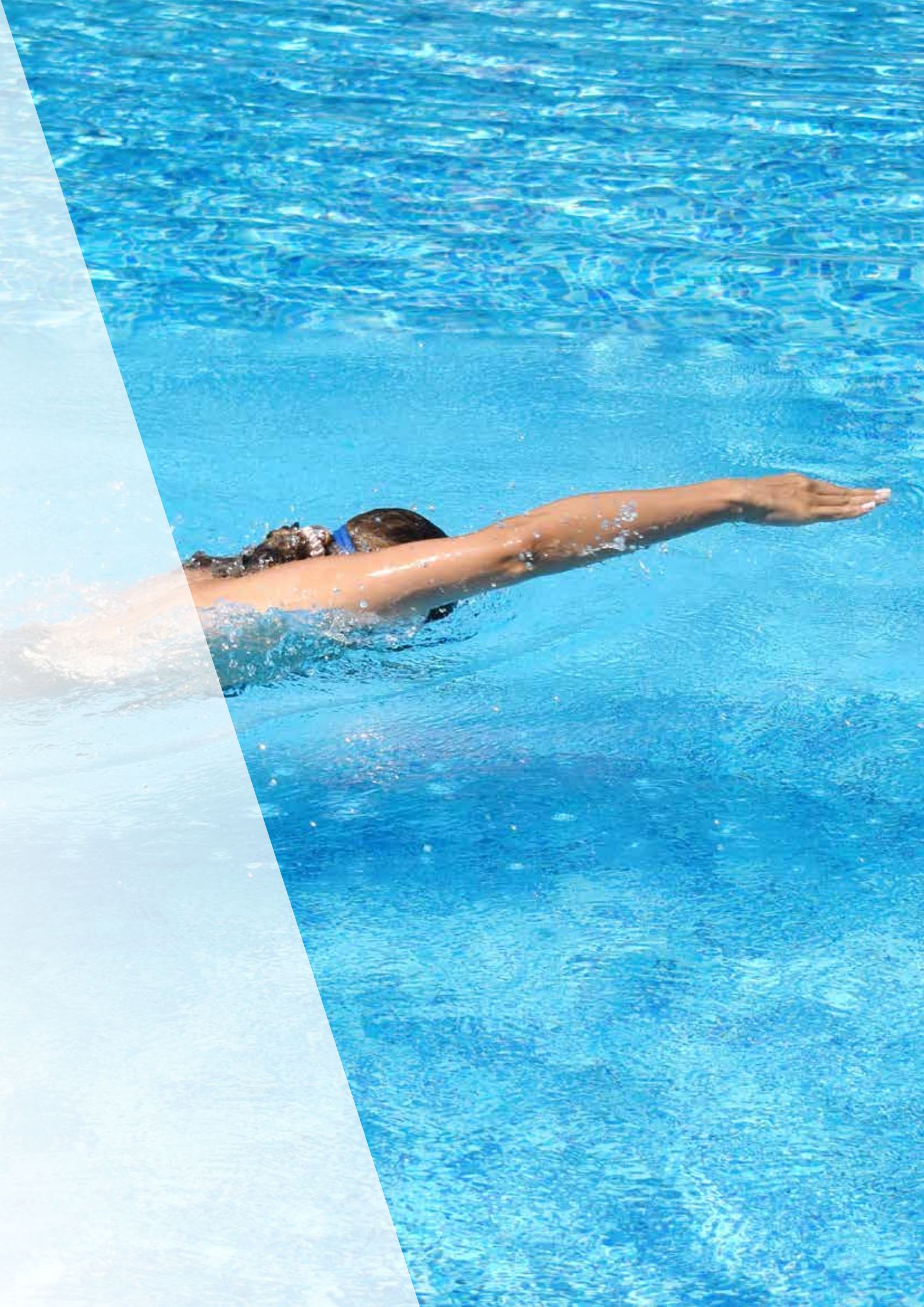
Probe-holders

Series of Probe-Holders and Accessories.



- Methacrylate probe-holders for the installation of measurement sensors

ITEM	DESCRIPTION	PART NO.
SH-1212	Methacrylate probe-holder for easy+fix systems, with housings for two sensors dia 12 mm, flow sensor and PT100 probe, push-fit fittings 8 mm	8081331D
SH-1212/PNL	SH-1212 probe-holder with PP connections for hose 6x8	80813312
SH-1225	Methacrylate probe-holder for easy+fix systems, with housings for one sensor dia 12 mm, one CAC probe, flow sensor and PT100 probe, push-fit fittings 8 mm	8081330D
SH-1225/PNL	SH-1225 probe-holder with PP connections for hose 6x8	80813302
Kit electrode	Kit of threaded rings & seals to install one sensor dia. 12 mm	80610265
Kit CAC	Kit of threaded rings & seals to install one CAC probe	80610264
PF25	Filter + fitting for SH probe-holders	80710042
PF25 cartridge	Spare filtering cartridge for PF25 with 80 µm mesh	80710043
SD-SF/NPN M8	Three-wire NPN proximity sensor with M8 connector	80610000
Kit B	Installation kit: 2 PVC valves M/F ½", 2 PP fittings with ½" threaded ring, PE hose 6x8 mm (5 m)	80509915
Hose PE	PE hose, 6x8 mm, 100 m coil	97013308
Connection 6x8	PP connection with O-ring for hose 6x8 mm	97000164



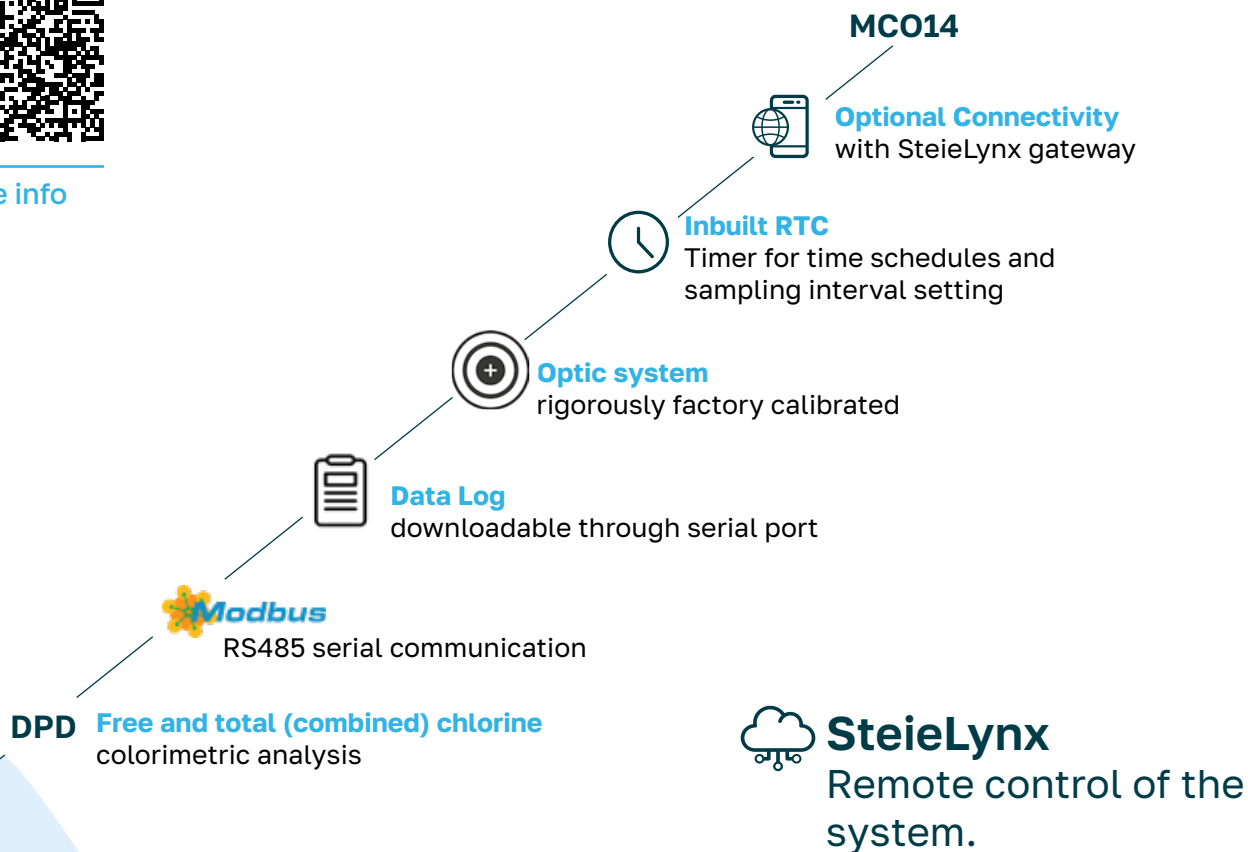
COLORIMETRIC ANALYSIS

MCO14 EVO





[More info](#)



IN

- 2x DPD analysis for free/total chlorine
- 3x Measurement sensors (pH / ORP / °T)
- 1x Pause / Consent
- 3x Reagent level sensors



OUT

- 4x Adjustment relays
- 1x Alarm relay
- 2x 0/4-20 mA

+ Chlorine analysis not affected by the type of chlorination product.

+ Also suitable for measurements in thermal pools and in the presence of isocyanuric acid.

COLORIMETRIC ANALYSIS - MCO14 EVO

- Basic measurements always provided: **pH, ORP, free chlorine** (colorimetric analysis)
- Additional measurements: **temperature, total chlorine** (colorimetric analysis) **and combined chlorine** (calculated)
- Housing for reagent bottles (and level probes)
- **Two configuration levels** (standard and advanced), protected by password
- Multilingual menu
- **Four adjustment relays** (ON-OFF or proportional) and one alarm relay
- Two analog outputs (0/4-20 mA), fully configurable
- **OFF input, configurable as NO or NC** for disabling outputs
- Two (or three) level inputs to monitor reagents to be dosed
- Internal **Data log downloadable** through serial line
- RS485 **serial port** with Modbus RTU protocol, even for connection with SteieLynx unit
- IP56 housing, dimensions: 520 x 900 x 250 mm
- Power supply: 230 V~ (standard), 115 V~
- **Version with K4 and K5 pulse outputs for PFM regulation available upon order**

ITEM	DESCRIPTION	PART NO.
MCO14 EVO/3	Measurements of free chlorine, pH and ORP; RS485 serial port and Modbus RTU communication protocol. RCO-R1 and RCO-R2 reagents required (not included)	826601049901
MCO14 EVO/5	Measurements of free & total (combined) chlorine, pH, ORP and temperature; RS485 serial port and Modbus RTU communication protocol. RCO-R1 and RCO-R2 reagents required (not included)	826601049904



Spare Parts

ITEM	DESCRIPTION	PART NO.
	RCO-R1 - Reagent 1 for free chlorine analysis with DPD1 method (1 L)	80090103
	RCO-R2 - Reagent 2 for free chlorine analysis with DPD1 method (1 L)	80090104
	RCO-R3 - Reagent 3 for total chlorine analysis w/ DPD3 method (0.5 L)	80090105
EURO2010-pH	pH electrode with glass body and S7 threaded head	80092010
EURO2110-RX	ORP electrode with platinum sensor, glass body and S7 head	80192110
PT100S	PT100 probe with anti-acid Pyrex body, dia. 12 mm	80390001
CAVO	HQ coaxial cable with S7 connector and tips, to connect pH and ORP electrodes to the control unit, L = 0.65 m	80099010
	EV-MCO14 - Solenoid valve for hydraulic group, 24 V~	80509910
	Spare peristaltic pump; flow rate 0.25 l/h, Santoprene® internal tube, 24 V-	80509912
	TB-MCO14 - Santoprene® tube for peristaltic pump	96000200
	Roller-holder for colorimeter peristaltic pump	96000400
	MX-MCO14 - Mixer for hydraulic group	80509901
	FT-MCO14 - Impurity filter for colorimetric units	70109069
	Spare valve, ¼" M/F	36306590
	Complete optic group for MCO14 units	80509913
	Cap for bottle of reagent 1, with level sensor	96000116
	Cap for bottle of reagent 2, with level sensor	96000121
	Cap for bottle of reagent 3, with level sensor	96000122
	Kit A - Installation kit: 1 valve M/F ½", 1 fitting with ½" ring nut, PE hose 6x8 mm (5 m)	80509907
	Spare electronic board for RS232 communication	82590200
	Spare electronic board for RS485 communication	82590201

DOSING PUMPS

ELECTROMAGNETIC PUMPS FOR CHEMICAL DOSING



- **NOVA NSE150** economical pumps with wall-mounting casing
- Three-digit, red LED display
- On-Off operation
- Power supply: 230 V~, cable with Schuko plus (other options on request)
- **PROXIMA PSP161** 32 l/h Pump
- Foot-mounting casing and mechanical adjustment of stroke length
- Inputs for external consent, level probe and pulse command
- Power supply: 100-240 V~, cable with Schuko plus (other options on request)
- PVDF dosing head, ceramic ball valves and PTFE seals
- Internal system for overheating control / safety
- Anti-leakage system towards the magnet
- Supplied complete with standard accessory kit (foot valve; injection valves; suction / delivery / bleeding hoses), fittings kit



ITEM	DESCRIPTION	PART NO.
NSE150 PKT B0220	NSE150 pump, 2 l/h @ 20 bar, 230 V~, hose 4x6	91100B0220210S0000A00
NSE150 PKT C0512	NSE150 pump, 5 l/h @ 12 bar, 230 V~, hose 4x6	91100C0512210S0000A00
NSE150 PKT D0808	NSE150 pump, 8 l/h @ 8 bar, 230 V~, hose 5x8	91100D0808210S0000A00
NSE150 PKT E1504	NSE150 pump, 15 l/h @ 4 bar, 230 V~, hose 5x8	91100E1504210S0000A00
NSE150 PKT F1903	NSE150 pump, 19 l/h @ 3 bar, 230 V~, hose 9x12	91100F1903210S0000A00
PSP161 PKT 3202	PSP161 pump, 32 l/h @ 2 bar, 100-240 V~, hose 9x12	985002A2E

Optional inputs / outputs with surcharge

DESCRIPTION
Pump with FLOW input
Pump with alarm relay output, complete with connection cable
Pump with RS485 port / Modbus, complete with connection cable



PUMPS with INBUILT METER

NOVA NSP ELECTROMAGNETIC DOSING PUMPS WITH INBUILT METER



- **Intuitive configuration** protected by three-level password
- Bilingual interface (English/Italian), with backlit alphanumeric display
- External consent / pause input
- Input for level sensor
- Counters of injected litres, working hours and strokes of the diaphragm
- **“Service” menu**
- **“Autoset” function** for quick configuration of the working mode
- **“Reset” function** to restore factory values
- “Flow Control” optional input for **injection flow control** and **self-priming function**
- Optional alarm relay output (NO/NC)
- **RS485** optional serial port with **Modbus RTU** communication protocol, also for connection with **SteieLynx gateway**
- **“Timer” option** for dosage scheduling at set days and times, with management of 14 daily events or 2 daily events on 7 days, automatic updating of winter / summer time
- Internal system for overheating control / safety
- **Anti-leakage system** towards the magnet
- Casing made of PP-FG with V-0 UL flame classification
- IP65-rated housing; dimensions: 226 x 115 x 175 mm (wiring excluded)
- Power supply: 230 V~, cable with Schuko plus (other options on request)
- These pumps are supplied with standard accessory kit (foot filter; injection valve; suction / delivery / bleeding hoses), fittings kit, wall-mounting bracket, cables with M8 connector for inputs / outputs wiring

Available models

- **NSP162** Pump with inbuilt pH/ORP meter and electrode input on BNC connector
- **NSP163A** Pump with inbuilt chlorine meter and input for CLE11 / CLE12 cell available on M8 connector

ITEM	DESCRIPTION	PART NO.
NSP162 PKT B0220	NSP162 pump, 2 l/h @ 20 bar, 230 V~, hose 4x6	91B00B0220210S2000A10
NSP162 PKT C0512	NSP162 pump, 5 l/h @ 12 bar, 230 V~, hose 4x6	91B00C0512210S2000A10
NSP162 PKT D0808	NSP162 pump, 8 l/h @ 8 bar, 230 V~, hose 5x8	91B00D0808210S2000A10
NSP162 PKT E1504	NSP162 pump, 15 l/h @ 4 bar, 230 V~, hose 5x8	91B00E1504210S2000A10
NSP162 PKT F1903	NSP162 pump, 19 l/h @ 3 bar, 230 V~, hose 9x12	91B00F1903210S2000A10
NSP163A PKT B0220	NSP163A pump, 2 l/h @ 20 bar, 230 V~, hose 4x6	91C01B0220210S4000A10
NSP163A PKT C0512	NSP163A pump, 5 l/h @ 12 bar, 230 V~, hose 4x6	91C01C0512210S4000A10
NSP163A PKT D0808	NSP163A pump, 8 l/h @ 8 bar, 230 V~, hose 5x8	91C01D0808210S4000A10
NSP163A PKT E1504	NSP163A pump, 15 l/h @ 4 bar, 230 V~, hose 5x8	91C01E1504210S4000A10
NSP163A PKT F1903	NSP163A pump, 19 l/h @ 3 bar, 230 V~, hose 9x12	91C01F1903210S4000A10

Optional inputs / outputs with surcharge

DESCRIPTION
Pump with FLOW input
Pump with alarm relay output, complete with connection cable
Pump with RS485 port / Modbus, complete with connection cable
Pump with Timer

NOVA Pool Assemblies

Ready-to-use Control Systems

- The NSP pumps with inbuilt meter can be assembled on panel to provide pH/chlorine control systems, complete with measurement sensors and calibration solutions.
- The pH value is always measured with specific electrode, while the chlorine concentration may be determined indirectly through ORP measurements or directly with amperometric sensor.

EXAMPLE	DESCRIPTION	PART NO.
	PNL NOVA Pool pH/ORP. High-density PVC panel (500x600 mm), two NSP162 C0512 pumps, plastic-body pH and ORP electrodes, two SF17 probe-holders with one filtering cartridge, IL-SF flow sensor and calibration solutions	9N0SR01C100C10010
	PNL NOVA Pool pH/Cl (CLE11). High-density PVC panel (500x600 mm), one NSP162 C0512 pumps, one NSP163A 0512 pump, plastic-body pH electrode, CLE11 cell in methacrylate probe-holder with proximity sensor, SF17 probe-holder with filtering cartridge, calibration solutions.	9N0SC01C100C10010



Spare Parts for Dosing Pumps

DESCRIPTION	MODEL	PART NO.
Standard PKT dosing head, with ring nuts and screws	NOVA B0220	9700310A/PKT
	NOVA C0512	9700310B/PKT
	NOVA D0808	9700310L/PKT
	NOVA E1504	9700310C/PKT
	NOVA F1903	9700310D/PKT
	PSP161 3202	9700310E/PKT
Kit for the complete maintenance of standard PKT dosing head (suction and delivery valves with fittings kit, bleeding valve, diaphragm and safety membrane)	NOVA B0220	97003000/PKT
	NOVA C0512	97003001/PKT
	NOVA D0808	97003005/PKT
	NOVA E1504	97003002/PKT
	NOVA F1903	97003003/PKT
	PSP161 3202	97003004/PKT
Kit fittings for hose...	4x6 mm	97003090
	5x8 mm	97003093
	9x12 mm	97003096
Multi-layer diaphragm: high quality EPDM, tissue-reinforced, steel core and PTFE coating on the side in contact with the liquid	NOVA B0220	97003010
	NOVA C0512	97003011
	NOVA D0808	97003015
	NOVA E1504	97003012
	NOVA F1903	97003013
	PSP161 3202	97003014
Hose-tightening ring for bleeding	-	97003183
Bleeding valve	-	97003180
Bleeding knob	-	97003184
Safety membrane	-	70110063
Kit of galvanized screws for dosing head, L=45 mm	NOVA B0220	97003225
Kit of galvanized screws for dosing head, L=50 mm	C0512, D0808	97003226
Kit of galvanized screws for dosing head, L=55 mm	E1504, F1903	97003227
Kit of galvanized screws for dosing head, L=40 mm	PSP161 3202	97003228
Flat gaskets for fittings of PROXIMA / NOVA pumps, kit 10 pc.	FPM	9700315V
	EPDM	9700315E
	PTFE	9700315T
PKT foot valve with filter, fitting for hose...	4x6 mm	97003020/PKT
	5x8 mm	97003021/PKT
	9x12 mm	97003022/PKT
PKT injection valve with spring loaded at 0.5 bar, fitting for hose...	4x6 mm	97003030/PKT
	5x8 mm	97003031/PKT
	9x12 mm	97003032/PKT
Standard kit: PVC Crystal hose (2 m), PE hose (5 m), PKT foot valve, PKT injection valve	4x6 mm	97003200/PKT
	5x8 mm	97003201/PKT
	9x12 mm	97003202/PKT



DESCRIPTION	MODEL	PART NO.
Level probe with 2 m PUR cable and M8 plastic connector for NOVA / PROXIMA pumps	SLP-C	97009032
PUR cable with M8 F plastic connector, L = 2 m	CAV2M8D/P	80099262
PVC cable with M8 F plastic connector, L = 5 m	CAV5M8D/P	80099194
PVC Crystal hose, 100 m coil	4x6 mm	97010303
	5x8 mm	97010306
PVC Crystal hose, 50 m coil	9x12 mm	97010215
PE hose, 100 m coil	4x6 mm	97013303
	5x8 mm	97013306
PE hose, 50 m coil	9x12 mm	97013215

Spare Parts for NOVA Pool Panels

ITEM	DESCRIPTION	PART NO.
SF17	Electrode-holder with transparent SAN cup for the installation of one sensor dia. 12 mm; with mounting bracket and PP conn. 6x8	80810011
2x SF17	Kit including 2x SF17, 1x filtering cartridge, IL-SF flow sensor; supplied assembled and ready to install	80810013
Cartridge	Filtering PP cartridge with washable PA mesh, 80 µm, to be used with models SF17 / PF17	80710034
IL-SF	Flow sensor, 2-wire contact, 3/8" M/M connection	97009202
CLE11/M8	Open amperometric cell with Cu/Pt electrodes and housings for PT100 probe and flow sensor; 1 m cable with M8 connector	80610142
CLE12/SENS M8	Spare Cu/Pt electrode group, 1 m cable with M8 connector	80610119
Kit sfere/CLE	Kit of spare Pyrex balls for CLE cells	80610110
Kit maintenance	Maintenance kit for CLE and SD series probe-holders	80610268
pH Electrode	pH electrode with plastic body and cable with BNC connector	80094111
ORP/Pt Electrode	ORP electrode with platinum sensor, plastic body and cable with BNC	80194111
ORP/Au Electrode	ORP electrode with gold sensor, plastic body and cable with BNC connector	80192234
SD-SF/NPN M8	Three-wire NPN proximity sensor, cable with M8 connector	80610000
Kit B	Installation kit: 2 PVC valves M/F ½", 2 PP fittings with ½" threaded ring, PE hose 6x8 mm (5 m)	80509915
Connection 6x8	PP connection with O-ring for hose 6x8 mm	97000164



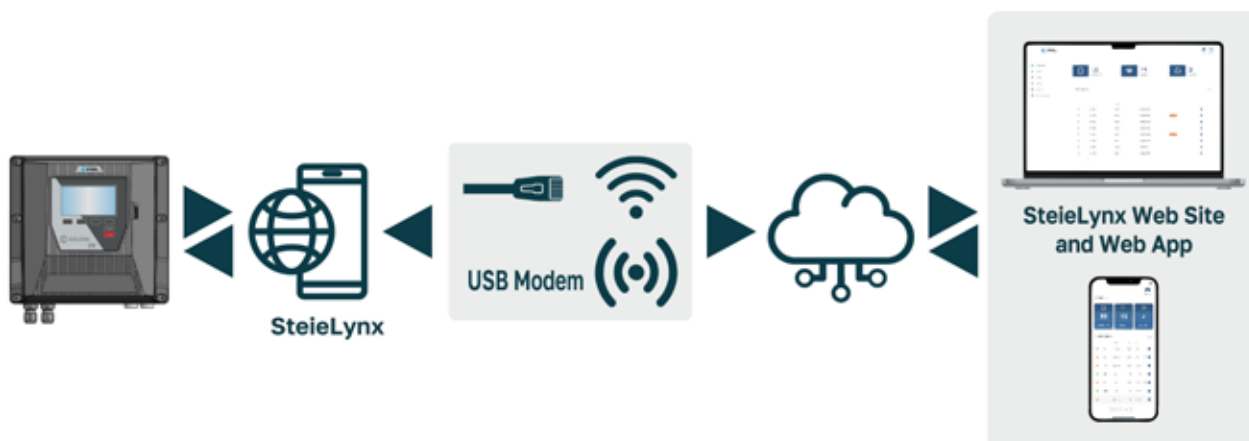


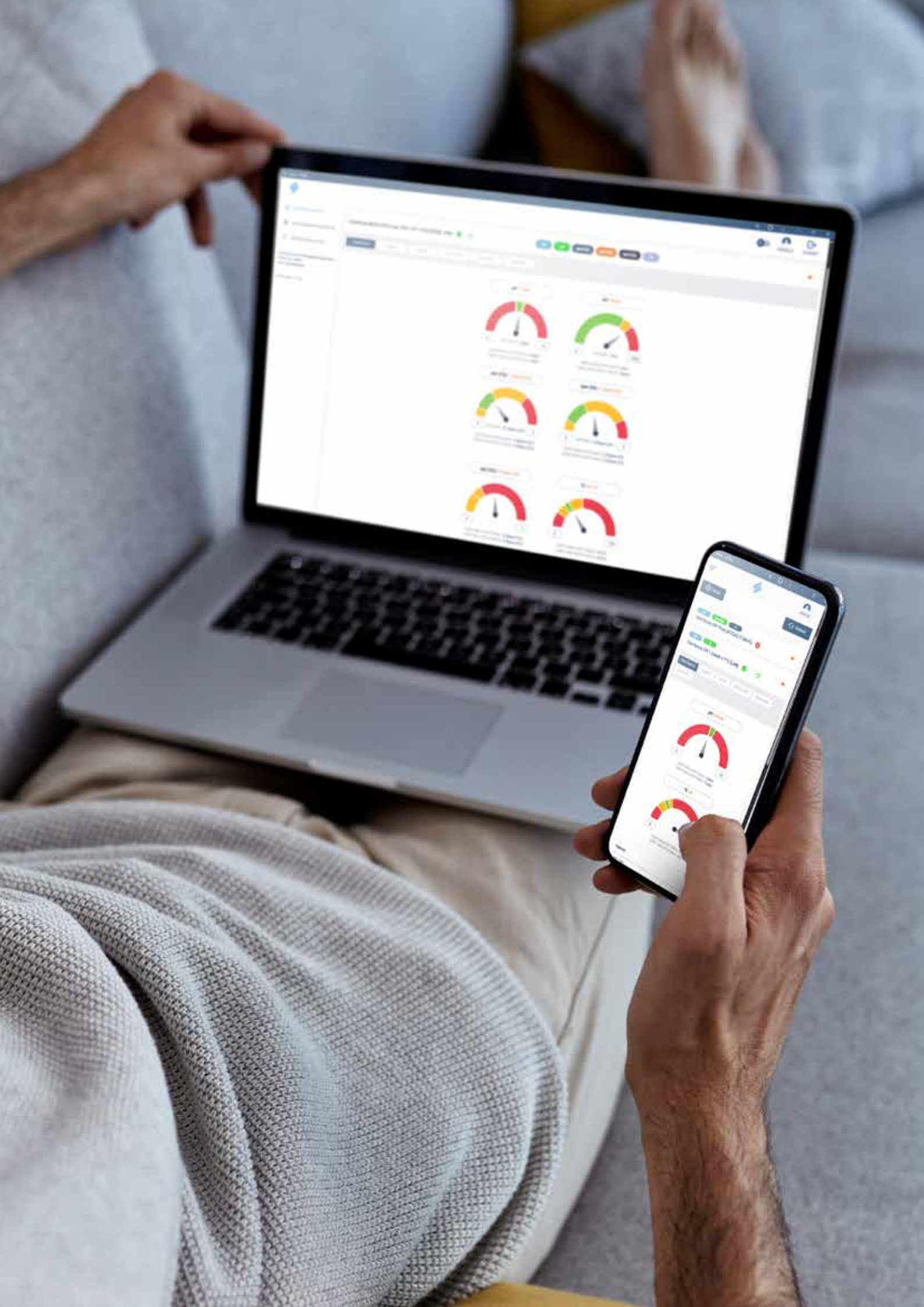
GATEWAY & WEB APP



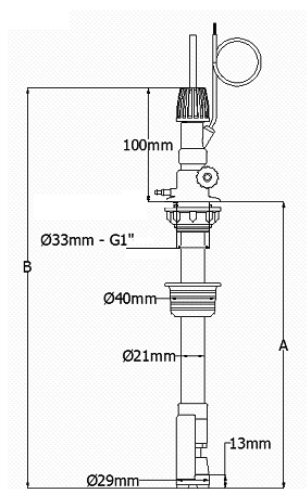
- **Supervising unit** to monitor and manage STEIEL instruments through the **dedicated Web App**
- Internet connection via LAN port, Wi-Fi module or 3G/4G network (SIM card in USB modem)
- RS485 port for communication with STEIEL instruments and dosing pumps equipped with RS485 interface
- Also available as **module to be integrated in the instrument** for the new EVOLUTION EW / EW² and NOVA² instrumental lines
- IP56 housing for wall installation; dimensions: 150 x 110 x 70 mm
- Power supply: 100-240 V~ 50/60 Hz, cable with Schuko plug (other options on request)

ITEM	DESCRIPTION	PART NO.
SteieLynx EXT	Supervising unit Wi-Fi/LAN, with one RS485 port and cable with Schuko plug	81831000
	Supervising unit , complete with 4G USB modem and antenna, with one RS485 port and cable with Schuko plug	81831G00
SteieLynx INT	Module to be integrated in EVOLUTION EW /EW ² and NOVA ² units	8183Y000
CAV/RW-MP-1	Serial cable with connector for MC14 / MCO14 multi-parametric units / EVOLUTION instruments with RS485 port, 1.5 m	80099111
CAV/RW-MP-10	Serial cable with connector for MC14 / MCO14 multi-parametric units / EVOLUTION instruments with RS485 port, 10 m	80099115
CAV/Lynx-WP-1	Serial cable with connector for NOVA NSP pumps and NOVA ² units, 2 m	80099202
CAV/Lynx-WP-10	Serial cable with connector for NOVA NSP pumps and NOVA ² units, 10 m	80099205
Kit modem	3G/4G USB modem + antenna with cable + connectors	81839001





SUCTION LANCES



- **Adjustable length** suction lances
- Suitable to dosing stations with tanks up to 1000 litres
- **Flow rate max 100 L/h**
- Mounting with 1" threaded ring or sleeve
- **Built-in check ball valve**
- PP body, FPM (standard) or EPDM gaskets
- **Level probe with totally protected cable** and M8 connector (other options available on request)
- Ring colour: black (standard), blue, red, yellow
- Connection for 4x6 (standard), 5x8, 9x12 mm hose
- Working temperature max 50 °C

Standard Version Lances

ITEM	LENGTH (mm)		TANK (L)	PART NO.
	TOTAL (B)	ADJUSTABLE (A)		
Suction lance with FPM seals, Pyrex ball valve, connection for hose 4x6 mm and black threaded ring, level sensor with M8 connector	490	115...390	25 / 50	94952101
	700	115...600	100	94952102
	940	115...840	150 / 300	94952103
	1420	115...1320	500 / 1000	94952104

Optional Features with surcharge

DESCRIPTION
Lance with blue, red or yellow ring
Lance with connection for hose 5x8 / 9x12 mm
Lance with Pyrex ball and EPDM seals
Lance with ceramic ball and FPM seals
Lance with ceramic ball and EPDM seals
Lance with PTFE ball and FPM seals
Lance with PTFE ball and EPDM seals

Spare Parts

ITEM	DESCRIPTION	PART NO.
	Spare black threaded ring	94902005
	Spare blue threaded ring	94900005
	Spare red threaded ring	94904005
	Spare yellow threaded ring	94905005
	Kit hose-holder + locking ring, for hose 4x6 mm	94902108
	Kit hose-holder + locking ring, for hose 5x8 mm	94906218
	Kit hose-holder + locking ring, for hose 9x12 mm	94906318



STIRRERS

ALS/AVS SERIES AM SERIES

- ELECTROMECHANICAL STIRRERS - MANUAL STIRRERS



ALS



AVS



AM

- **ALS Series: slow (70 rpm)** electromechanical stirrers
- **AVS Series: fast (1400 rpm)** electromechanical stirrers
- Motors with IP65 aluminium housing
- Models with PVC or AISI A2 steel shaft and propeller
- **Three-phase 230/400 V~ (D/Y) motor** (standard) or 230 V~ 4-pole single-phase motor (upon request)
- **AM Series:** manual stirrers, supplied with mounting plate, nylon screws and nuts
- **Various shaft lengths** available

ITEM	MATERIAL OF SHAFT AND PROPELLER	SHAFT LENGTH (mm)	TANK (L)	PART NO.
ALS-06TP	PVC	600	100	89000021
ALS-07TP	PVC	700	150	89000022
ALS-08TP	PVC	800	300	89000023
ALS-09TP	PVC	900	500-1000	89000024
ALS-06TA	AISI A2	600	100	89000025
ALS-07TA	AISI A2	700	150	89000026
ALS-08TA	AISI A2	800	300	89000027
ALS-09TA	AISI A2	900	500-1000	89000028
AVS-06TP	PVC	600	100	89000029
AVS-07TP	PVC	700	150	89000030
AVS-08TP	PVC	800	300	89000031
AVS-09TP	PVC	900	500-1000	89000032
AVS-06TA	AISI A2	600	100	89000033
AVS-07TA	AISI A2	700	150	89000034
AVS-08TA	AISI A2	800	300	89000035
AVS-09TA	AISI A2	900	500-1000	89000036

DESCRIPTION

Stirrer with single-phase motor, 4-pole, 230 V~ / 0.09 kW

ITEM	MATERIAL OF SHAFT AND PROPELLER	SHAFT LENGTH (mm)	TANK (L)	PART NO.
AM-0	PVC	400	50	89000059
AM-1	PVC	485	100-150	89000060
AM-2	PVC	735	300	89000063
AM-3	PVC	950	500-1000	89000064



TANKS



- Series of blue semi-transparent polyethylene (LLDPE) tanks
- Provision for **drain outlet** (1/2" for models up to 150 L; 1" for tanks from 300 to 1000 L)
- **Visual indication of liquid level**
- Filling hole with screw cap
- Series of LLDPE safety containers
- **Complete and assembled dosing stations**, including stirrer, suction lance and pump

Tanks

ITEM		VOLUME	B (Ø)	H	CAP (Ø)	PART NO.
	S50	50 L	41 cm	46.5 cm	14 cm	36000003
	S100	100 L	47 cm	65 cm	14 cm	36000004
	S150	150 L	49 cm	86.5 cm	14 cm	36000005
	S300	300 L	67 cm	96.5 cm	21.5 cm	36000006
	S500	500 L	76 cm	119.5 cm	21.5 cm	36000007
	S1000	1000 L	108.5 cm	122.5 cm	31.5 cm	36000008

Safety containers

ITEM		TANK	A (Ø)	B (Ø)	H	PART NO.
	CAM50	S50	47 cm	43 cm	45 cm	36000009
	CAM100	S100	55 cm	50.5 cm	61 cm	36000010
	CAM150	S150	59.5 cm	54.5 cm	87.5 cm	36000011
	CAM300	S300	78 cm	71.5 cm	96 cm	36000013
	CAM500	S500	84.5 cm	81 cm	110.5 cm	36000015
	CAM1000	S1000	116.5 cm	123.5 cm	125.5 cm	36000016

Accessories

ITEM	DESCRIPTION		PART NO.
	Drain kit, 1/2" PVC-U/EPDM, for 50 / 100 / 150 L tank		89000085
	Drain kit, 1" PVC-U/EPDM, for 300 / 500 / 1000 L tank		89000086
	Vent kit for tanks		89000087
	PVC support with screws and fittings for	S50 tank	89000074
		S100 / S150 tanks	89000075
		S300 / S500 tanks	89000076
		S1000 tank	89000077
	Cost for components assembling on tank		



EASIFLO FIRST SERIES

CHLORINE FEEDERS FROM CALCIUM HYPOCHLORITE



- **Basic line for on-demand production** of ready-to-use chlorinated solution
- Reagent: **HTH briquettes of calcium hypochlorite**
- No cyanuric acid in the pool
- Models for **pools up to 150, 600, 1200, 2500 m³**
- They can be controlled by a STEIEL electronic unit equipped with a measurement / monitoring system of the chlorine level in water
- Chemical dosage, **with no waste**
- Easy to install
- Minimum maintenance required



MODEL	Easiflo FIRST 10	Easiflo FIRST 20	Easiflo FIRST 50	Easiflo FIRST 100
Loading capacity of HTH 7 g briquettes (kg)	10	20	50	100
Daily chlorine max production (kg/die)	18	42	85	203
Max pool volume (m ³)	150	600	1200	2500

ITEM	DESCRIPTION	PART NO.
Easiflo FIRST 10	Easiflo FIRST feeder with 10 kg hopper, FR/IT/DE version	AM40010000
	Easiflo FIRST feeder with 10 kg hopper, EN/ES/EL version	AM40010100
Easiflo FIRST 20	Easiflo FIRST feeder with 20 kg hopper	AM40010001
Easiflo FIRST 50	Easiflo FIRST feeder with 50 kg hopper	AM40010002
Easiflo FIRST 100	Easiflo FIRST feeder with 100 kg hopper	AM40010003
Booster Pump	Booster pump (Calpeda) kit for Easiflo FIRST 20/50/100 feeders	AM4000150

AUXILIARY PRODUCTS

EF110 - PERISTALTIC PUMP WITH pH/ORP METER



- Designed for wall installation
- User selectable pH or ORP range
- Electrode input on BNC connector; input for level sensor
- Red LED display
- IP54-rated casing, dimensions: 100 x 160 x 135 mm
- Power supply: 230 V~
- Available pH and ORP kits, with measurement sensor and calibration solutions

ITEM	DESCRIPTION	PART NO.
EF110	Digital peristaltic pump with inbuilt pH/ORP meter, 1.8 l/h @ 1 bar, Santoprene® internal tube; supplied with accessory kit	95930203
Kit-pH	pH Electrode (2.5 m cable and BNC), electrode-holder with clamping ring DN50, pH4 and pH7 buffer solutions (90 ml each)	80099903
Kit-RX/Pt	ORP/Pt Electrode (2.5 m cable and BNC), electrode-holder with clamping ring DN50, calibration solution 220 mV (90 ml)	80099904
Kit-RX/Au	ORP/Au Electrode (2.5 m cable and BNC), electrode-holder with clamping ring DN50, calibration solution 220 mV (90 ml)	80099905
Protective front panel for EF100 / EF110 pumps		96000130
Santoprene® internal tube for EF100 pumps		96000201
Roller-holder for EF100 pumps		96000401
Kit of accessories for peristaltic pumps: PVC Crystal hose (4x6 mm, 2 m), PE hose (4x6 mm, 2 m), injection valve and foot filter		96000100
pH4 buffer solution, 90 ml bottle		80090095
pH7 buffer solution, 90 ml bottle		80090096
ORP calibration solution, 220 mV @ 25 °C, 90 ml bottle		80190091

EF117 - CONTROL UNIT FOR SALT CHLORINATOR



- Digital unit with inbuilt ORP meter
- Double-pitch Schuko socket for powering a dosing unit (e.g. salt chlorinator)
- Electrode input on BNC connector, red LED display
- Prewired power cable with Schuko plug
- IP54-rated casing, dimensions: 100 x 160 x 135 mm
- Power supply: 230 V~, cable with Schuko plug

ITEM	DESCRIPTION	PART NO.
EF117	Control unit for salt chlorinator, with inbuilt ORP meter (electrode not included)	95940220
Kit-RX/Pt	ORP/Pt Electrode (2.5 m cable and BNC), electrode-holder with clamping ring DN50, calibration solution 220 mV (90 ml)	80099904
Kit-RX/Au	ORP/Au Electrode (2.5 m cable and BNC), electrode-holder with clamping ring DN50, calibration solution 220 mV (90 ml)	80099905
	ORP calibration solution, 220 mV @ 25 °C, 90 ml bottle	80190091



EF-J KIT - GROUNDING KIT



- Eliminates interferences or electric noise coming from plastic pipes (no conductive)
- Two sizes available, DN50 and DN63
- Complete with gaskets, screws and cable lugs for electric wirings

ITEM	DESCRIPTION	PART NO.	€
EFJ_KIT50_MT	Grounding kit with DN50 clamping ring	85007820	78.00
EFJ_KIT63_MT	Grounding kit with DN63 clamping ring	85007821	80.00

BACKWASH KIT



- To be used for applications in which a chlorine reducing product is dosed in the backwash water of swimming pool filter
- The kit includes an SFC capacitive flow sensor and a NOVA NSE157 pump
- The SFC sensor detects the flow of a conductive water-based liquid through a non-metallic wall (e.g. plastic pipe)
- The SFC sensor should be mounted with the supplied bracket or directly on pipe, with cable ties (see picture); to be connected to the CONTROL input of the NOVA NSE157 pump

ITEM	DESCRIPTION	PART NO.
Backwash kit	The kit includes a NOVA NSE157 C0512 pump, an SFC sensor and an M8 connector for sensor wiring to the pump	S40163015C2
SFC	Capacitive flow sensor, equipped with two LED indicators; to be used with PSP and NOVA pumps	97003262

POOL TIMER MINI - TIMED DOSAGE



- Timed dosing system
- Timer for weekly scheduling the daily dosing times
- Built-in peristaltic pump, with Santoprene® internal tube
- IP54 housing, dimensions: 200 x 150 x 80 mm
- Power supply: 230 V~ (standard) or 115 V~ (upon request)

DESCRIPTION	PART NO.
Compact system for timed dosage, complete with configurable timer and peristaltic pump (2.4 l/h @ 1 bar); supplied with standard accessory kit for peristaltic pump. Power supply 230 V~.	95050024
Protective front panel for EF100 / EF110 pumps	96000130
Santoprene® internal tube for EF100 pumps	96000201
Roller-holder for EF100 pumps	96000401
Kit of accessories for peristaltic pumps: PVC Crystal hose (4x6 mm, 2 m), PE hose (4x6 mm, 2 m), injection valve and foot filter	96000100

PERISTALTIC PUMPS

EF100 SERIES - PUMPS WITH OPEN CASING



- Fix flow rate
- PP / talc reinforced housing, polycarbonate front panel, PBT roller-holder with Delrin (self-lubricant) rollers, PP fittings
- Internal tube: Santoprene®
- Panel installation
- Power supply: see table

ITEM	DESCRIPTION
EF100/A	EF100 pump @ 230 V~. Specify the flow rate (0.6 / 1.2 / 1.8 / 2.4 l/h @ 1 bar)
EF100/C	EF100 pump @ 24 V-. Flow rate 2.4 l/h @ 1 bar

EF105 / EF106 SERIES - PUMPS WITH CLOSED CASING



- **EF105 Series: fixed flow rate**
EF106 Series: adjustable flow rate, adjustment with front trimmer
- PP casing reinforced with glass fibre, polycarbonate front panel, PBT roller-holder with Delrin (self-lubricant) rollers, PP fittings
- Internal tube: Santoprene® or silicone
- Wall installation with supplied mounting bracket
- Power supply: see table
- Available colours: grey (standard) and blue
- Supplied with standard accessory kit (part no. 96000100)

ITEM	DESCRIPTION
EF105/A	EF105 pump @ 230 V~. Specify flow rate (1.5 / 3 l/h @ 1 bar); Santoprene® internal tube
	EF105 pump @ 230 V~. Specify flow rate (1.5 / 3 l/h @ 1 bar); silicone internal tube
	EF105 pump @ 230 V~. Specify flow rate (4 / 6 l/h @ 1 bar); specify material of the internal tube (Santoprene® or silicone)
EF105/C	EF105 pump @ 24 V-. Specify flow rate (1 l/h @ 3 bar; 4 / 6 / 12 l/h @ 1 bar); specify material of the internal tube (Santoprene® or silicone)
EF105/C-200-S	EF105 pump @ 24 V-. Flow rate 20 l/h @ 1 bar, Santoprene® internal tube
EF106/A	EF106 pump @ 230 V~. Specify flow rate max (1 l/h @ 3 bar; 4 / 6 l/h @ 1 bar); specify material of the internal tube (Santoprene® or silicone)
EF106/M	EF106 pump with 20-230 V~ multi-voltage power supply. Specify flow rate max (1 l/h @ 3 bar; 4 / 6 l/h @ 1 bar); specify material of the internal tube (Santoprene® or silicone)



Spare Parts

ITEM	DESCRIPTION	PART NO.
	Kit of accessories for peristaltic pumps: PVC Crystal hose (4x6 mm, 2 m), PE hose (4x6 mm, 2 m), injection valve and foot filter	96000100
	Injection valve for peristaltic pumps	97002012/SLV
	Foot filter for peristaltic pumps	97002013/SLV
	Spare housing with O-ring, for EF100 / EF110 pumps	96000140
	Spare housing with O-ring, for EF105 / EF106 series pumps - grey colour	96000142
	Spare housing with O-ring, for EF105 / EF106 series pumps - blue colour	96000141
	Protective front panel for EF100 / EF110 pumps	96000130
	Protective front panel for EF105 / EF106 pumps	96000131
	Santoprene® internal tube for EF100 pumps	96000201
	Santoprene® internal tube for EF105 / EF106 1l/h @ 3 bar	96000230
	Santoprene® internal tube for EF105 / EF106 @ 1 bar	96000232
	Silicone internal tube for EF105 / EF106 1l/h @ 3 bar	96000240
	Silicone internal tube for EF105 / EF106 @ 1 bar	96000242
	Roller-holder for EF100 pumps	96000401
	Roller-holder for EF105 / EF106 models with Santoprene® tube	96000411
	Roller-holder for EF105 / EF106 models with silicone tube	96000410
	Spare motor for EF100 pumps (specify the model)	
	Spare motor for EF110 pump, 1.8 l/h 230V	96000303
	Spare motor for EF125 pump, 2.4 l/h 230V	96000304
	Spare motor for EF105 pump, 1.5 l/h 230V	96000331
	Spare motor for EF105 pump, 3 l/h 230V	96000332
	Spare motor for EF105 pump, 4 l/h 230V	96000333
	Spare motor for EF105 pump, 6 l/h 230V	96000334
	Spare motor for EF106 series pumps (specify the model)	

UV SYSTEMS

EF-U200 SERIES

DISINFECTION OF POOL WATER



- Control panel with graphic LCD and LED indicator; featuring counter of lamp working hours, remote ON/OFF, alarm relay and switching on / off timer
- Starter with stabilization function of the power voltage
- Working pressure: max 9 bar
- Power supply: 230 V~ (standard) 50/60 Hz
- **Lamps:**
 - **Low pressure, mercury vapour**
 - Average working life: 9000 hours
- **AISI316L steel vessel**

ITEM	FLOW RATE MAX (m ³ /h)	LAMPS	HYDRAULIC CONNECT.	UV-C DOSE (J/m ²)	PART NO.
EF-U 201	4	1 x 40 W	1.1/2" M	> 250	85104221
EF-U 202	7	1 x 40 W	2" M		85104222
EF-U 203	14	1 x 80 W	2" M		85104223
EF-U 204	18	1 x 80 W	2" M		85104224
EF-U 205	34	2 x 80 W	2.1/2" M		85104225

DESCRIPTION	PART NO.
Low pressure lamp, 40 Watt (minimum order quantity: 4 pcs.)	85100105
Low pressure lamp, 80 Watt (minimum order quantity: 4 pcs.)	85100106
Quartz for 40 / 80 Watt lamp (minimum order quantity: 4 pcs.)	85100205
Contact-cover kit, cable 3 m	85100608
Sheath lock	85100606
EF-U control unit for systems with 1 x 30/40 W lamp	85100001
EF-U control unit for systems with 1 x 80 W lamp	85100002
EF-U control unit for systems with 2 x 80 W lamps	85100004



UV-S800 SERIES

ABATEMENT OF COMBINED CHLORINE



- “ECO” control panel with graphic LCD and LED indicator; featuring counter of lamp working hours, remote ON/OFF, alarm relay and switching on / off timer, monitoring of irradiation / temperature of water, check of panel temperature and shutdown function upon overheating of the vessel / electronic unit, 4-20 mA output and optional lamp power adjustment function
- Upon request, a control panel with colour touch screen is available, also in “EVO” version, which features data log function, USB port, serial communication (Modbus, TCP/IP, RTU), digital outputs, UV dose calculation and lamp power adjustment functions
- Working pressure: max 10 bar
- Power supply: 230 V~ (standard) 50/60 Hz
- **Medium pressure, mercury vapour lamps**
- **AISI316L steel vessels** with cleaning system (no UV-S800 XS): manual rack (standard) or automatic (optional)

ITEM	FLOW RATE MAX (m ³ /h)	LAMPS	HYDRAULIC CONNECT.	UV DOSE (J/m ²)	“ECO” MODEL PART NO.
UV-S 800 XS	5-20	1 x 250 W	2.1/2” M	600	85123620
UV-S 800 (*)	30	1 x 1000 W	3” M		85123651
UV-S 801	55	1 x 1000 W	DN100		85123652
UV-S 802	125	1 x 2000 W	DN150		85123653
UV-S 803	235	1 x 3500 W	DN200		85123654

DESCRIPTION	PART NO.
Medium pressure lamp, 250 Watt, for UV-S800 XS	85100111
Medium pressure lamp, 1000 Watt, for UV-S800 (*) and UV-S801	85100116
Medium pressure lamp, 2000 Watt, for UV-S802	85100117
Medium pressure lamp, 3500 Watt, for UV-S803	85100118
Quartz for model UV-S 800 XS	85100210
Quartz for models UV-S 800 and UV-S 801	85100220
Quartz for model UV-S 802	85100221
Quartz for model UV-S 803	85100222

(*) For this model, the lamp consumption is reduced to 600 W by the starter.

EF-U900 / UV-S900 SERIES

POOL DISINFECTION EVEN WITH SEA WATER



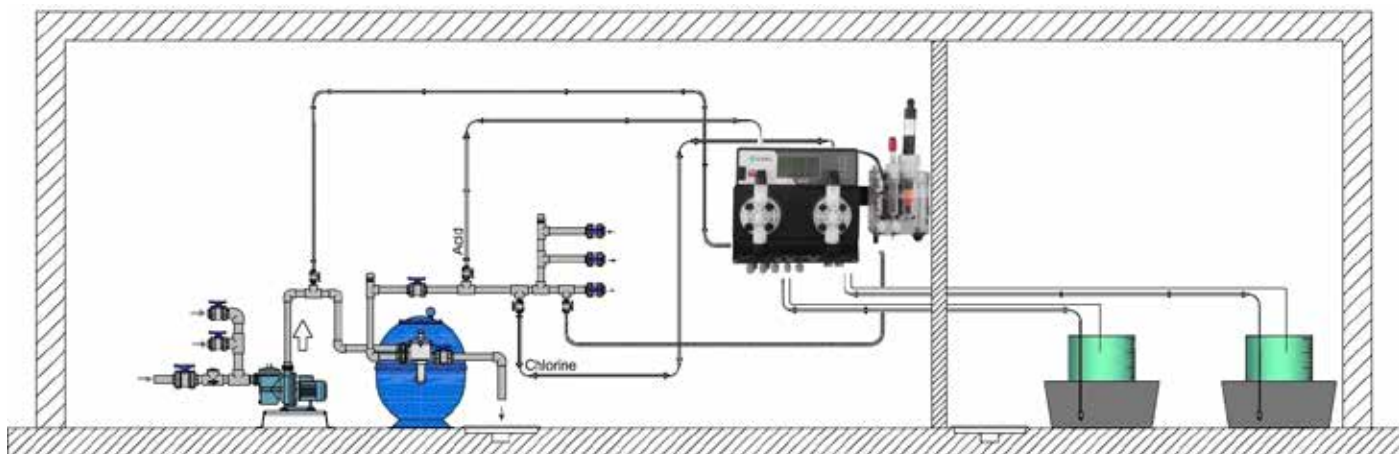
- EF-U900 PE series and UV-S904 / 905 / 906 / 907 models are available with two options of control panel:
 - **Basic control panel** with graphic LCD and LED indicator; featuring counter of lamp working hours, remote ON/OFF, alarm relay and switching on / off timer
 - **“H” version control panel** with additional functions to monitor the irradiation / temperature of water, check the panel temperature and shutdown upon overheating of the vessel / electronic unit, optional 4-20 mA output and optional lamp power adjustment function
- **“T+” Version:** UV-S908 / 909 / 910 models are provided with a **control panel with colour touch-screen** with multilingual interface, data log function, USB port, serial communication (Modbus, TCP/IP, RTU), digital outputs, UV dose calculation and lamp power adjustment functions
- Working conditions: pressure max 6 bar, temperature max 35 °C
- Power supply: 230 V~ (standard) 50/60 Hz
- **Low pressure, mercury vapour lamps;** average life: 9000 hours
- **HDPE vessels**

ITEM	FLOW RATE MAX (m³/h)	LAMPS	HYDRAULIC CONNECT.	UV-C DOSE (J/m²)	STANDARD MODEL PART NO.	“H” MODEL PART NO.
EF-U 900 PE	3	1 x 40 W	1.1/2" F	> 400	85106231	85107231
EF-U 901 PE	5	1 x 80 W	1.1/2" F		85106232	85107232
EF-U 902 PE	8	2 x 40 W	2.1/2" F		85106233	85107233
EF-U 903 PE	15	2 x 80 W	2.1/2" F		85106234	85107234
UV-S 904 PE	22	3 x 80 W	DN65		85118231	85119231
UV-S 905 PE	35	4 x 80 W	DN80		85118232	85119232
UV-S 906 PE	45	5 x 80 W	DN100		85118233	85119233
UV-S 907 PE	60	6 x 80 W	DN100		85118234	85119234
						T+ MODEL
UV-S 908 PE T+	110	2 x 400 W	DN150		-	85127235
UV-S 909 PE T+	150	3 x 400 W	DN200		-	85127236
UV-S 910 PE T+	250	4 x 400 W	DN250		-	85127237

DESCRIPTION	PART NO.
Low pressure lamp, 40 Watt (minimum order quantity: 4 pcs.)	85100105
Low pressure lamp, 80 Watt (minimum order quantity: 4 pcs.)	85100106
Quartz for 40 / 80 Watt lamp (minimum order quantity: 4 pcs.)	85100205
Contact-cover kit, cable 3 m	85100608
Sheath lock	85100606
EF-U control unit for systems with 1 x 30/40 W lamp	85100001
EF-U control unit for systems with 1 x 80 W lamp	85100002
EF-U control unit for systems with 2 x 80 W lamps	85100004



INSTALLATION EXAMPLE FOR pH / CHLORINE CONTROL



SIZING GUIDE FOR DOSING PUMPS

The chlorine dosing pump has to be sized according to the expected chlorine demand of the swimming pool, which is affected by several factors, as the pool volume, the filtration flow rate, the private or public use, the indoor or outdoor location, the chlorine concentration in the dosed disinfectant.

In other words, to keep a disinfectant level of about 1 ppm, an outdoor swimming pool requires more chlorine than an indoor one, and a public pool will demand more chlorine than a private one.

To simplify, suppose the following average demand of chlorine:

Use	Private	Public
Indoor pool	1.5 ppm	2 ppm
Outdoor pool	2.5 - 3.5 ppm	3 - 4 ppm

The needed dosing flow rate for the chlorine pump is calculated as follows:

$$\text{Dosing flow rate (l/h)} = [\text{filtration flow rate (m}^3\text{/h)} \times \text{chlorine-demand (ppm)}] / [\text{chlorine conc. (\%)} / 1000]$$

It is recommended to choose a pump with a flow rate bigger (double) than the calculated theoretical value. For the pH correction, the acid dosing pump is sized proportionally to the estimated chlorine consumption.

Here below you can find an useful guide for selecting the pump right size for an outdoor swimming pool with a complete recirculation of about 3 hours, depending on the pool volume and chlorine concentration in the dosed product.

Pool volume	Circul. flow rate	Sodium hypochlorite Conc. 14%		Calcium hypochlorite 65% (1:10)		Di-chloro 55% (diluted 1:10)		Electrolytic chlorine 2%		Sulphuric acid 30-36%	
m ³	m ³ /h	Pump size (l/h)		Pump size (l/h)		Pump size (l/h)		Pump size (l/h)		Pump size (l/h)	
		Private	Public	Private	Public	Private	Public	Private	Public	Private	Public
40	12	2	2	2	2	2	2	4	5	2	2
80	25	2	2	2	4	2	4	8	10	2	2
100	35	2	2	4	5	4	5	13	13	2	2
150	50	2	4	4	8	4	8	20	20	4	4
200	65	4	4	8	8	8	8	20	32	4	4
300	100	4	5	8	13	8	13	32	40	5	8
400	120	4	8	10	20	10	20	40	50	5	8
500	150	5	8	13	20	13	20	50	60	8	8
1000	300	10	20	20	40	20	40	100	120	13	20
1500	500	20	32	32	70	32	70	150	200	20	32



Notes

[illegible]

[illegible]



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