



COOLING TOWER CATALOGUE

SYSTEMS FOR COOLING TOWERS





WATER
TREATMENT
SYSTEMS



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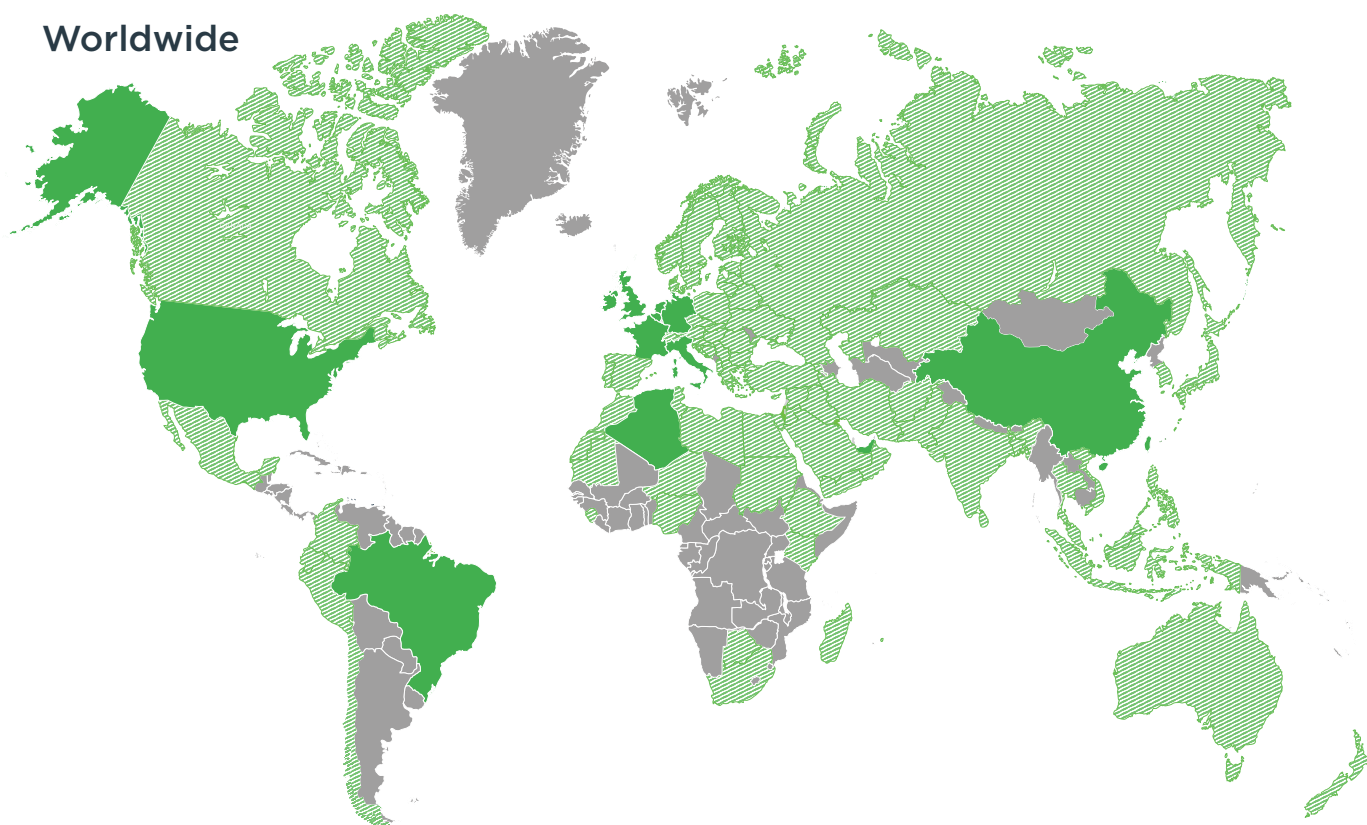
EMEC

4|5



WATER TREATMENT SYSTEMS

Worldwide



-  BRANCHES
-  DISTRIBUTORS

EMEC SIMPLE AS WATER

40+ years of excellence
250+ employees
88 countries
10 branches
10+ sectors
120.000 dosing pumps/year
15.000 controllers/year
26.000 probes & sensors/year
8.000 dosing station/year
85.000 accessories



100% MADE IN ITALY
All our products are 100%
Made in Italy



WARRANTY
5 years warranty for our dosing
pumps and controllers.
Terms and conditions apply

Flexibility and innovation

Flexibility and innovation are fundamental to us. Since 1982, we have been designing and producing reliable, cutting-edge systems for water treatment and chemicals dosing. As a company, we are open to change and, just like water, we have branched out over time, spreading out into wide-ranging areas, from industrial water treatment to potabilization to water purification, from food and beverage industry to swimming pools.

OUR VALUE

Being at the cutting edge means constant study. Our R&D and design departments are where our heart beats. Extremely high-profile engineers and technicians are committed to developing software and designing hardware, but also to studying and evaluating hydraulic and mechanical components. The customers and their satisfaction have always been at the heart of what we do, so we pay constant attention to the quality of our production processes, through a constantly updated and cutting-edge range of industrial machines.

QUALITY AND SAFETY, FIRST OF ALL

We are entirely responsible for every stage of the process, from invention to delivery. Our products undergo up to 10 quality checks and are tested four times before reaching the customer. The quality management system of our production process is **ISO 9001** certified and has customer satisfaction as its ultimate goal, as well as continuous improvement of company performance. Customers satisfaction comes hand-in-hand with ensuring safety for them, their operators and final users. Our dosing pumps and controllers are **UL** certified to guarantee full compliance with general requirements for safety of use, while **NSF** certifications guarantee that our pumps do not release hazardous pollutants into the water and therefore are fully safe for use in contact with drinking water, for example in the food production industry, or at recreational facilities like swimming pools and spas.

COMPETENCE AND PROFESSIONALISM

Extremely high performance, top quality and high technology are our greatest assets. But there is more. Every day, we safeguard something equally important: human capital. Our co-workers are the best professionals on the market; the most expert and competent people. For this reason our organizational model is designed to manage their safety and health in an organic and systematic way, respecting the international standard **BS OHSAS 18001**.

ENVIRONMENTAL SUSTAINABILITY

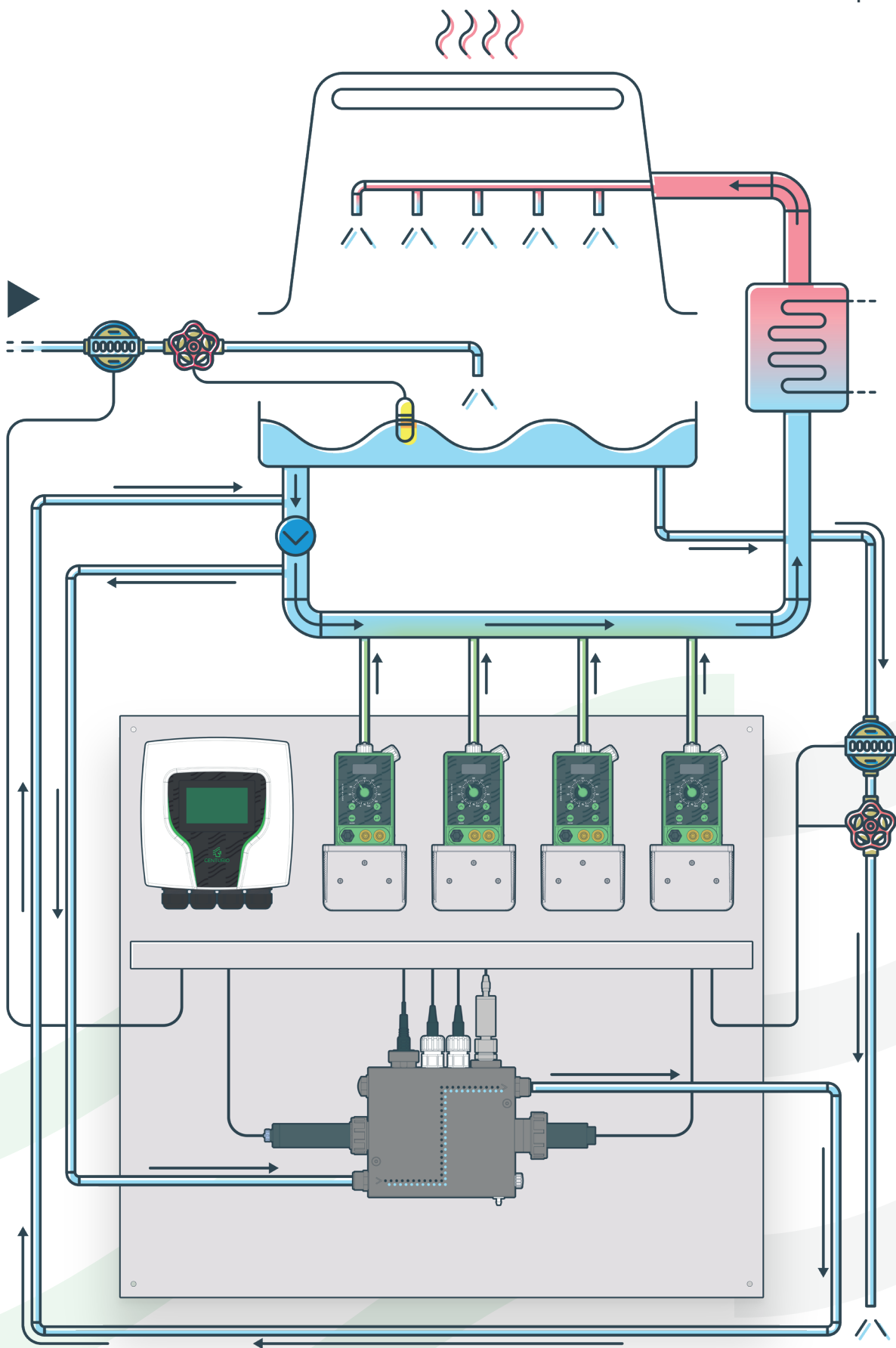
The adoption of an environmental management system compliant with the international standard **ISO 14001** arises from the awareness of the imprint that human activities leave on the planet. Our environmental protection management system allows us to minimize the impact of production processes (with emissions well below the prescribed limits), of products and of raw materials used (with the recycling of most of the waste materials), also thanks to an energy saving system that covers all company spaces and to the use of renewable energy sources.

OUR CERTIFICATIONS



OUR SOCIAL CHANNELS





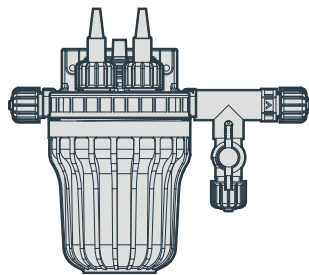
COOLING TOWERS: HOW THEY WORK

The most efficient management of cooling tower systems

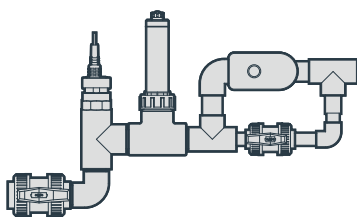
Cooling towers can lower the temperature of water in a plant, whether civil or industrial, by evaporating a small but sufficient quantity of water to generate cooling of the entire circulating mass, allowing it to be reused (at a lower temperature) and thus limiting consumption.

For an efficient cooling system, however, continuous monitoring and, above all, careful water treatment is essential to prevent both corrosion of system components and the formation of bacterial biofilm or other potentially dangerous biological components.

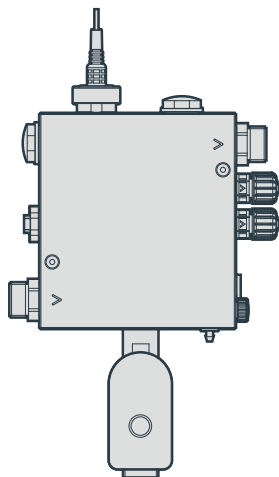
**PROBE
HOLDER**



**PIPING
MANIFOLD**



MANIFOLD



From the very beginning, EMEC has been searching for the most complete solutions to offer the highest possible efficiency in cooling tower operation. With our experience we now features solutions for cooling tower systems both for the civil sector, such as hospitals, large apartment blocks, shopping centres, and for industries such as food, paper, pharmaceuticals, sugar refineries, the chemical industry through to the heavy industry of steel mills. For those who build cooling towers and for those who are involved in water treatment and in particular in the production of chemicals. Plug-and-play solutions were chosen for their ease of handling, with the aim of having all the equipment compactly in one place rather than split up in various locations.

Given the need to handle often aggressive chemicals, our solutions are also designed to safeguard the safety of operators.

HYDRAULIC SOLUTIONS

- Simple probe holders
- Piping or manifolds to be able to both measure and inject the chemicals used for conditioning
- Piping or manifolds to handle the purging on the panel but not the injection of the chemical
- Piping or manifolds for measuring, injection but also purging directly on the panel

COMPACT AND RELIABLE SOLUTIONS

- Conductivity measurement in recirculation water for purging with motorised valve for maintaining salinity
- In case of changes, second conductivity measurement for make-up water, with subsequent purge opening
- Measurement of make-up and/or purge flow rate for control of cycles of concentration, with totaliser.
- pH measurement for controlled pH towers with acid dosing and possible redundancy (i.e. two pH measurements, with the second to control the first)
- Redox potential measurement or hypochlorite or hypobromite for oxidising biocide control/dosing
- Timers for shock dosing of biocides
- Tracer product measurement, ppm measurement of dosed product
- Corrosion measurement with sensors in various materials to see MPY
- Turbidity measurement
- Dosing for various products, depending on flow rate or analytical measurement or timer



DEVICE, CABIN, SKID AND ASSEMBLED PANELS. ALL THE EMEC CHOICES

Our solutions

EMEC dosing pumps and measuring and control systems can be assembled with probes and accessories on panels according to specific combinations in order to offer turnkey all-in-one solutions for cooling tower systems.

Pre-assembled panels may have:

- pumps, controllers or elements owned by the customer and assembled by EMEC
- customised logos
- backgrounds chosen by the customer
- customised sizes
- custom power panels

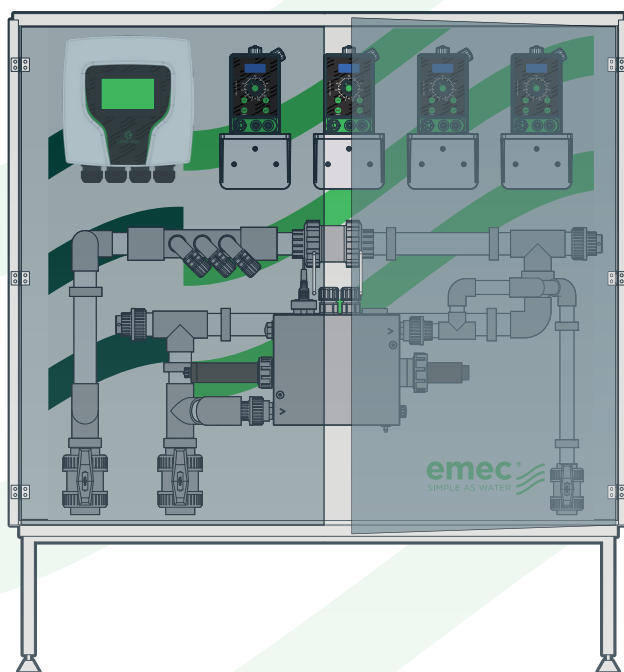
SYSTEMS ON SKIDS OR IN CUSTOM-MADE CABINS

The Stainless Steel or plastic skid is designed and built on client requirements.

In addition to the solution on skids, it is possible to create dosing plants in a cabin, screen guard or with window.

Electric control panels designed to control all the assembled solution.

The final product includes electrical and piping hook-ups ready for installation.



STEPPER MOTOR/PERISTALTIC DOSING PUMPS

VELON Series

Peristaltic dosing pumps with stepper motor



WIFI



DIGITAL SERVICES



APP MY EMEC



ONLINE STATS



CUSTOMIZABLE



MAX FLOW RATE

12 l/h

MAX PRESSURE

2 bar

POWER SUPPLY

12 | 24 VDC

24 VAC

100-240 VAC

VELON is a state-of-the-art compact peristaltic dosing pump, equipped with a high-precision, electronically-controlled multifunction stepper motor that guarantees constant and regular chemical product dosing, even in demanding working conditions and with load variations. Designed to offer a complete, easy-to-use solution in all installation contexts that require precise, reliable, quiet and safe operation.

ACCESSORIES

- 1 PVDF injection valve (0.3 bar)
- 1 PVDF foot filter with level probe
- 4 m suction tubing (flexible PVC)
- 1 long-life biocompatible tubing, 4.8 × 1.6 mm (standard supply)
- 1 long-life biocompatible tubing, 1.6 × 1.6 mm (included accessory)

FEATURES COMMON TO THE ENTIRE SERIES

Microprocessor	Pressure (bar - psi)	RPM Range (rpm)	Protection	Power Supply	Installation Class
Next-Generation, High-Performance	2 (29)	da 1 a 100	IP65	24 100-240 VAC, 12VDC, 24VDC	II
Flow Rate Range (l/h - gal/h) (Ø1,6x1,6)	Flow Rate Range (l/h - gal/h) (Ø4,8x1,6)	Operating Temperature	Additive Temperature	Manufacturing Materials	Remote Control
0,018 - 1,8 l/h 0,0047 - 0,47 gal/h	0,12 - 12 l/h 0,0317 - 3,17 gal/h	10 - 45 °C 55 - 113 °F	0 - 50 °C 32 - 122 °F	PC/ABS, PVDF, POM, TPV	Web (NIMBUS) e App (MyEmec)



AVAILABLE VERSIONS

DIGITAL

VELON MF

VELON PO

VELON PM

ANALOGIC

VELON CL



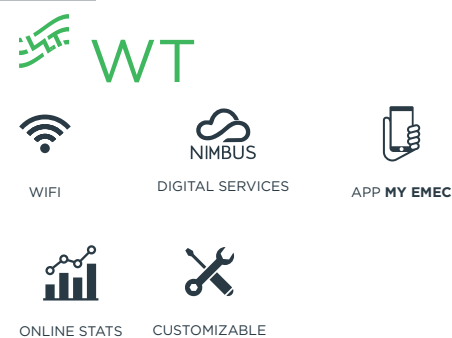
SPECIFIC MODEL FEATURES

	Velon MF	Velon PO	Velon CL	Velon PM
DESCRIPTION	Multifunction pump with extensive dosing modes and digital management, including remote control	Versatile pump with proportional adjustment and remote control	Essential, practical pump for constant dosing with manual adjustment via potentiometer	Pump with MODBUS RTU integration, ideal for automated systems
INTER./CONT.	Backlit RGB LCD display, encoder, remote management via app/web	Backlit LCD display, encoder, remote management via app/web	Front potentiometer, LED, ON/OFF button	MODBUS RTU, LED, tasto ON/OFF
WORKING MODE	Constant, CC/Pulse, PPM, %, MLQ, Batch, Volt, mA, Pulse, Weekly Program, Ext Constant	Proportional, Autodosing pH and/or Redox	Constant	External Control
MAINTENANCE	Scheduled maintenance via activity meters	Scheduled maintenance via activity meters	Scheduled maintenance via activity meters	Scheduled maintenance via activity meters
INPUT	MODBUS RTU, Multi-function, Level	MODBUS RTU, Standby, Level, Serial Probe	Level	MODBUS RTU, Level
OUTPUT	Alarm (optional)	Allarm (optional)	Allarm (optional)	Allarm (optional)
CONNECTIVITY	Wi-Fi & Bluetooth	Wi-Fi & Bluetooth	-	-
FW UPDATE	OTA	OTA	-	-

SOLENOID / DIAPHRAGM DOSING PUMPS

WT PER Series

Peristaltic dosing pumps with stepper motor



MAX FLOW RATE	MAX PRESSURE
3 l/h	2 bar
POWER SUPPLY	
100-240 VAC	

02-09-2025 16:06:42 809 uS	DOSING Green
02-09-2025 16:06:42 809 uS	STAND-BY White
02-09-2025 16:06:42 809 uS	WARNING Yellow
02-09-2025 16:06:42 809 uS	ALARM Red

FEATURES

- No. 2 high-precision stepper motors
- High precision through peristaltic dosing
- Low maintenance requirements (long-life, biocompatible peristaltic tubing)
- LCD display with backlighting that adapts to device operation
- Encoder knob for instrument control
- PC+ABS box
- Flow control input
- Conductivity reading
 - 0/3 mS - 0/30 mS (ECDINDPT)
 - 0/10 mS (ECDSINDPT)
 - 0/10 mS (ECDCCPT)
- Alarms: level, no flow

- Configurable digital inputs (N.O. / N.C.)
- Delayed start of dosing
- Permanent data storage with system log viewable on display
- Bluetooth LE / 2.4Ghz WiFi connection for APP and Remote Control
- Upgradable firmware (via OTA)
- Installation class II (IEC/EN 61010-1)
- Pollution level 2 (IEC/EN 61010-1 and IEC 60664-1)
- IP 65 protection (IEC/EN 60529)
- Manual or automatic bleed
- Built-in MODBUS
- Vertical installation
- Remote control via NIMBUS / My EMEC App

ACCESSORIES

- 2 long-life biocompatible hoses, 4.8 × 1.6 mm (standard supply)
- 2 long-life biocompatible hoses, 1.6 × 1.6 mm (included accessories)

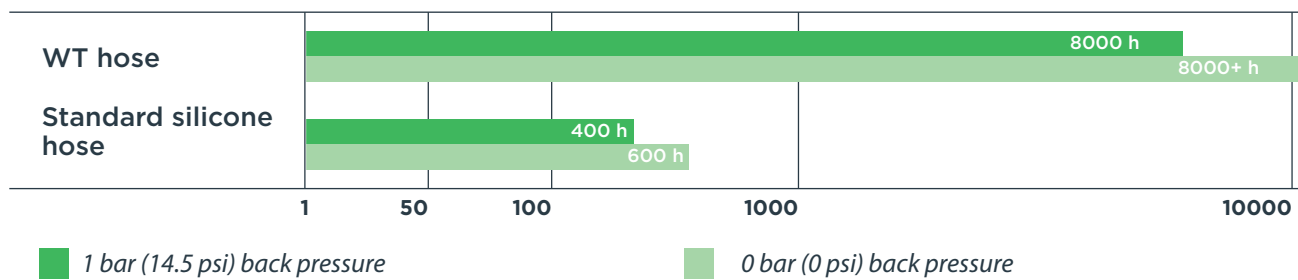


PERFORMANCE

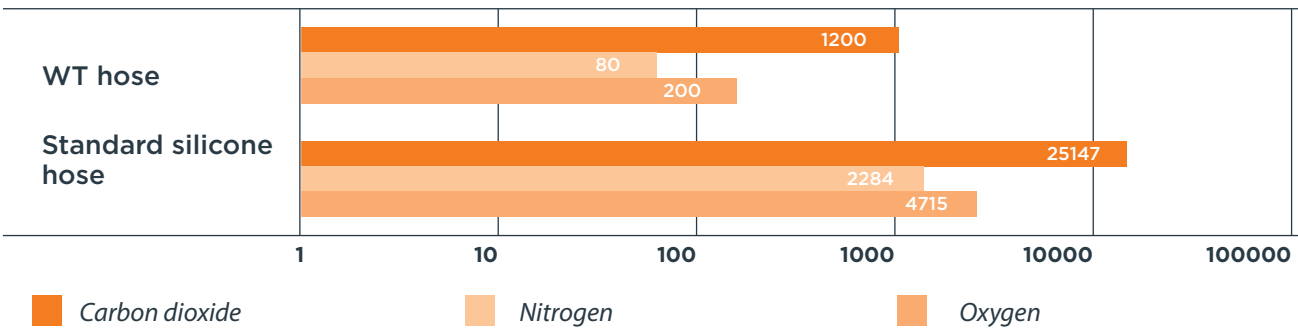
Hose	Pressure		Flow Rate		RPM range
	bar	psi	l/h	gal/h	
Ø 1,6x1,6	2	29,0	0,018 - 0,45	0,0047 - 0,1175	1 - 25
Ø 4,8x1,6	2	29,0	0,12 - 3	0,0317 - 0,7925	1 - 25

LONG-LIFE BIOCOMPATIBLE TUBING

Hose life comparison



Permeability coefficient comparison (x10⁻¹¹)



INPUTS

- CONDUCTIVITY PROBE
- INLET WATER METER
- LEVEL 1 AND LEVEL 2
- FLOW SENSOR
- STANDBY MODE

OUTPUTS

- ALARM (VOLTAGE-FREE RELAY CONTACT)
- MODBUS RTU PORT
- PUMP 1 AND PUMP 2
- BLEED (WATER DISCHARGE)

WT Series

Solenoid-driven dosing pumps



WIFI

DIGITAL SERVICES

APP MY EMEC

ONLINE STATS

CUSTOMIZABLE

MAX FLOW RATE

3 l/h

MAX PRESSURE

5 bar

POWER SUPPLY

115 VAC

230 VAC

RGB DISPLAY

02-09-2025 16:06:42

809 μ S

DOSING
Green

02-09-2025 16:06:42

809 μ S

STAND-BY
White

02-09-2025 16:06:42

809 μ S

WARNING
Yellow

02-09-2025 16:06:42

809 μ S

ALARM
Red



PERFORMANCE

Pressure	Flow Rate		SPM Range
<i>bar (psi)</i>	<i>l/h</i>	<i>gal/h</i>	<i>spm</i>
up to 5 bar	up to 3 l/h	up to 0,79 gal/h	45

FEATURES

- Dual Magnet, 45 strokes/min, continuously adjustable (1%-100%)
- Double Ball Check Valves
- Standard PVDF Hydraulic Components
- Wide LCD Display with Adaptive Backlighting
- Rotary Encoder Knob for Instrument Control
- PC + ABS Enclosure
- Flow Control Input
- Conductivity Measurement:
 - 0-3 mS / 0-30 mS (ECDINDPT)
 - 0-10 mS (ECDSINDPT)
 - 0-10 mS (ECDCCPT)
- Alarms: Level, No-Flow
- Digital Inputs Configurable as N.O. or N.C.
- Delayed Dosing Start
- Permanent Data Storage with System Log Viewable on Display
- Bluetooth® LE / 2.4 GHz Wi-Fi Connectivity for App and Remote Control
- Firmware Upgradeable via OTA (Over-the-Air)
- Installation Class II (IEC / EN 61010-1)
- Pollution Degree 2 (IEC / EN 61010-1 and IEC 60664-1)
- IP65 Protection Rating (IEC / EN 60529)
- Manual or Automatic Priming
- Integrated MODBUS
- Vertical Installation

INPUT

- CONDUCTIVITY PROBE
- INLET WATER METER
- LEVEL 1 AND LEVEL 2
- FLOW SENSOR
- STANDBY MODE

OUTPUT

- ALARM (VOLTAGE-FREE RELAY CONTACT)
- MODBUS RTU PORT
- PUMP 1 AND PUMP 2
- BLEED (WATER DISCHARGE)

MULTI-CHANNEL DIGITAL CONTROLLERS

CENTURIO Series | CENTURIO TOWER or CENTURIO PRO

Complete control system for cooling towers

CENTURIO BASIC | USB | ETH | GSM | WIFI | MODBUS

CENTURIO control instruments are multiparameter measurement and regulation systems that combine an absolute control and an extreme ease of use with the elegance of the case created by Giugiaro Design.

CENTURIO TOWER and CENTURIO PRO are digital control instrument designed for cooling tower water treatment and equipped with LINUX operating system, high-performance ARM A5 microprocessor and a large color touchscreen display. It can manage at the same time 5 measurement parameters, read and regulate setpoints of the 5 channels and get real-time graphs. CENTURIO has also an high-capacity storage to archive data logs as well as download option via USB port.

CENTURIO PRO is a complete digital control instrument designed for managing water treatment plants, equipped with LINUX operating system, high-performance ARM A5 microprocessor and a large color touchscreen display. It can manage at the same time the main measurement parameters, read and regulate setpoints of the 6 channels and get real-time graphs. CENTURIO has also an high- capacity storage to archive data logs as well as download option via USB port.

Centurio Tower available configurations:
CENTURIO TOWER - CONDUCTIVITY
CENTURIO TOWER - INDUCTIVE CONDUCTIVITY



DIGITAL SERVICES



FEATURES - CENTURIO TOWER

Biocide programmable in 10 daily interventions.
Pre-bleed (water discharge before biocide dosing).
Blow down (discharge control on conductivity values).
Lockout (discharge valve locked for a settable time, after biocide dosing).

INPUTS

8 product level inputs
Flow input
2 water meter inputs
1 RS485 bus probe input
6 slots for channels reading

FEATURES - CENTURIO PRO

For each reading channel:
2 digital setpoints (ON/OFF), 2 proportional setpoints (IS), 1 mA output setpoint, 1 temperature setpoint
6 timers with a maximum of 10 daily schedules each
Laser level output

OUTPUTS

Alarm output
8 proportional outputs
6 on/off outputs
2 freecontact on/off outputs
6 current outputs



CHANNEL 1 - CENTURIO TOWER only

Conductivity
probe ECD/EICD
range 0.1µS-100mS (K=1) - 0.01µS-100mS (K=01) 0.001µS-100mS (K=001) - 1µS-1S (K=10)
comp. Temperature

Inductive conductivity
probe ECDIND
range 0,1-3mS (K=1) - 0,3-30mS (K=01) - 0,3-300mS (K=001)
comp. Temperature

CHANNEL 1 TO CHOOSE ONLY BETWEEN CONDUCTIVITY AND INDUCTIVE CONDUCTIVITY

CHANNELS 2 to 6 - CENTURIO TOWER
CHANNELS 1 to 6 - CENTURIO PRO

pH
probe EPH
comp. pH in Temperature - ECL6
range 0-14 pH
comp. Temperature

ORP
probe ERH
range -999/+999 mV
comp. Temperature

Chlorine (total, free and combined)
probe ECL/SCL
comp. Chlorine in Temperature
range depending on probe

Tracers
probe ETRC2
range 0/999,9 ppm
comp. Temperature

Bromine
probe SBR
comp. Chlorine in Temperature
range depending on probe

Corrosion
probe ECORR
range 0.001/10 MPY
comp. Temperature

Chlorine Dioxide
probe SCL2
comp. Chlorine in Temperature
range depending on probe

Turbidity
probe ETORB2
range 0/40,00 NTU 0/400,0 NTU 0/4000 NTU
comp. Temperature

Hydrogen peroxyde
probe SCL9
comp. Chlorine in Temperature
range depending on probe

Ozone
probe SCL10
comp. Chlorine in Temperature
range depending on probe

Paracetic Acid
probe SCL11
comp. Chlorine in Temperature
range depending on probe

mA input
range Analogic input module 0-20 mA

Conductivity
probe ECD/EICD
range 0.1µS-100mS (K=1) - 0.01µS-100mS (K=01) 0.001µS-100mS (K=001) - 1µS-1S (K=10)
comp. Temperature

Inductive conductivity
probe ECDIND
range 0,1-3mS (K=1) - 0,3-30mS (K=01) - 0,3-300mS (K=001)
comp. Temperature

MTOWER Series | MTOWER PLUS

Three parameters control system for cooling towers

MTOWER PLUS BASIC | USB | ETH | GSM | WIFI | MODBUS

MTOWER PLUS controllers are a series of fully feature control systems for cooling towers. They manage simultaneously three parameters: pH or ORP, chlorine, conductivity or inductive conductivity (to specify on order) and temperature. Probes are not included.

They can be remotely controlled through the exclusive web management system NIMBUS.

Optional configurations:
MTOWER PLUS + mA output
MTOWER PLUS + 12VDC or 24VDC power supply



ALARMS

- No water flow alarm
- 3 product level alarms
- Bleed timeout alarm

INPUTS

- 6 product level inputs
- 2 water meter inputs
- Flow input
- Temperature probe input
- Stand-by input

OUTPUTS

- mA output*

INPUTS/OUTPUTS WITH * ARE TO BE CONSIDERED AS OPTIONAL



DIGITAL SERVICES



CHANNEL 1 - MTOWER PLUS | CD/PH/CL and CD/PH/RH



Conductivity	Inductive conductivity
probe ECD/EICD	probe ECDIND
range 0/300,0 µS 0/3000 µS 0/30,0 mS 0/300,0 mS	range 0/3,000 mS 0/30,00 mS 0/300,0 mS
comp. Temperature	comp. Temperature

CHANNEL 2 - MTOWER PLUS | CD/PH/CL and CD/PH/RH

pH
probe EPH comp. pH in Temperature - ECL6
range 0-14 pH
comp. Temperature

CHANNEL 3 - MTOWER PLUS | CD/PH/CL only

Chlorine (total, free and combined)	Hydrogen peroxyde
probe ECL/SCL comp. Chlorine in Temperature	probe SCL9 comp. Chlorine in Temperature
range depending on probe	range depending on probe
Bromine	Ozone
probe SBR comp. Chlorine in Temperature	probe SCL10 comp. Chlorine in Temperature
range depending on probe	range depending on probe
Chlorine Dioxide	Paracetic Acid
probe SCL2 comp. Chlorine in Temperature	probe SCL11 comp. Chlorine in Temperature
range depending on probe	range depending on probe

CHANNEL 3 - MTOWER PLUS | CD/PH/RH only

ORP
probe ERH
range 0/1000 mV
comp. Temperature

MTOWER Series | MTOWER 1 OR 2 CHANNELS

Single or double parameters control system for cooling towers

MTOWER 1CH or 2CH BASIC | USB | ETH | GSM | WIFI | MODBUS

MTOWER 1CH and MTOWER 2CH controllers are a series of fully feature control systems for cooling towers.
MTOWER 1CH manages one parameter: conductivity or inductive conductivity (to specify on order) and temperature. Probes are not included.
MTOWER 2CH manage simultaneously two parameters: pH or ORP or chlorine, conductivity or inductive conductivity (to specify on order) and temperature. Probes are not included.

They can be remotely controlled through the exclusive web management system NIMBUS.

Optional configurations:
MTOWER 2CH + mA output
MTOWER 2CH + 12VDC or 24VDC power supply



ALARMS

- No water flow alarm
- 2 product level alarms
- Bleed timeout alarm

INPUTS

- 6 product level inputs
- 2 water meter inputs
- Flow input
- Temperature probe input
- Stand-by input

OUTPUTS

- mA output*

INPUTS/OUTPUTS WITH * ARE TO BE CONSIDERED AS OPTIONAL



DIGITAL SERVICES



CHANNEL 1 - MTOWER 1CH | CD

MTOWER 2CH | CD/PH, CD/RH, CD/CL and CD/TRC



Conductivity	Inductive conductivity
probe ECD/EICD	probe ECDIND
range 0/300,0 µS 0/3000 µS 0/30,0 mS 0/300,0 mS	range 0/3,000 mS 0/30,00 mS 0/300,0 mS
comp. Temperature	comp. Temperature

CHANNEL 2 - MTOWER 2CH | CD/PH only

pH	
probe EPH	comp. pH in Temperature - ECL6
range 0-14 pH	
comp. Temperature	

CHANNEL 2 - MTOWER 2CH | CD/RH only

ORP	
probe ERH	
range 0/1000 mV	
comp. Temperature	

CHANNEL 2 - MTOWER 2CH | CD/CL only

Chlorine (total, free and combined)	Hydrogen peroxyde
probe ECL/SCL	probe SCL9
comp. Chlorine in Temperature	comp. Chlorine in Temperature
range depending on probe	range depending on probe
Bromine	Ozone
probe SBR	probe SCL10
comp. Chlorine in Temperature	comp. Chlorine in Temperature
range depending on probe	range depending on probe
Chlorine Dioxide	Paracetic Acid
probe SCL2	probe SCL11
comp. Chlorine in Temperature	comp. Chlorine in Temperature
range depending on probe	range depending on probe

CHANNEL 2 - MTOWER 2CH | CD/TRC only

Tracers	
probe ETRC2	
range 0/9999,9 ppm	

SINGLE-CHANNEL DIGITAL CONTROLLERS

Series LDS | LDS or LDS PLUS

LDS is a single reading system with setpoints

LDS PLUS is a single reading system with PID regulation

LDS or LDS PLUS BASIC | USB | ETH | GSM | WIFI | MODBUS

LDS PLUS controllers are a series of single reading digital systems with PID regulation. LDS controllers are a series of single reading controllers that meet a wide range of applications.

Both of two have: easy control by encoder wheel, flow control, local & remote control, NIMBUS web communication, permanent data storage with system log, PT100 temperature probe, stand-by input, water meter input (only LDS PLUS), alarms, programmable delay at dosing start-up (up to 60 minutes), automatic temperature compensation, probe readout menu (LDSCDIND PLUS / LDSCDIND), different working modes [on/off, impulsive proportional, proportional PWM

and fixed PWM, PID (only LDS PLUS)], automatic or manual dosing activity, mA output (optional for LDS), mA water meter input (optional for LDS PLUS only), probe cleaning and 5 relays [2 setpoint; alarm; probe cleaning; circulation (only for LDS PLUS)].

Optional configurations:

LD MULTICHANNEL PLUS + mA output

LD MULTICHANNEL PLUS + 12VDC or 24VDC power supply

LD MULTICHANNEL PLUS + LED strip



ALARMS

- General alarm
- No water flow alarm
- Out of range alarm
- Level alarm
- Max dosing alarm
- Damaged probe alarm

INPUTS

- Product level inputs
- Flow input
- mA water meter input (only for LDS PLUS)*
- Temperature probe input
- Stand-by input

OUTPUTS

- Alarm output
- mA output (optional for LDS)*
- Proportional outputs
- Set points outputs (only for LDS PLUS)
- Relay outputs
- Opto coupled output (only for LDS PLUS)



DIGITAL SERVICES



CH 1 - LDS or LDS PLUS | CD only



Conductivity

probe | ECD/EICD
range | 0/300,0 µS - 0/3000 µS - 0/30,0 mS - 0/300,0 mS
comp. | Conductivity in temperature

CH 1 - LDS or LDS PLUS | CDIND only

Inductive conductivity

probe | ECDIND
range | 0/3,000 mS - 0/30,00 mS - 0/300,0 mS
comp. | Conductivity in temperature

CH 1 - LDS or LDS PLUS | PH only

pH

probe | EPH
comp. | pH in Temperature - ECL6
range | 0-14 pH

CH 1 - LDS or LDS PLUS | RH only

ORP

probe | ERH
range | 0/1000 mV

CH 1 - LDS or LDS PLUS | CL only

Chlorine (total, free and combined)

probe | ECL/SCL
comp. | Chlorine in Temperature
range | depending on probe

Hydrogen peroxyde

probe | SCL9
comp. | Chlorine in Temperature
range | depending on probe

Bromine

probe | SBR
comp. | Chlorine in Temperature
range | depending on probe

Ozone

probe | SCL10
comp. | Chlorine in Temperature
range | depending on probe

Chlorine Dioxide

probe | SCL2
comp. | Chlorine in Temperature
range | depending on probe

Paracetic Acid

probe | SCL11
comp. | Chlorine in Temperature
range | depending on probe

CH 1 - LDS or LDS PLUS | ETORB2 only

Turbidity

probe | ETORB2
range | 0/4000 NTU

CH 1 - LDS or LDS PLUS | DO only

Dissolved Oxygen

probe | EOLUM
range | 20 mg/l O₂
comp. | Temperature and pressure

CH 1 - LDS or LDS PLUS | TRC only

Tracers

probe | ETRC2
range | 0/9999,9 ppm

CH 1 - LDS or LDS PLUS | FL only

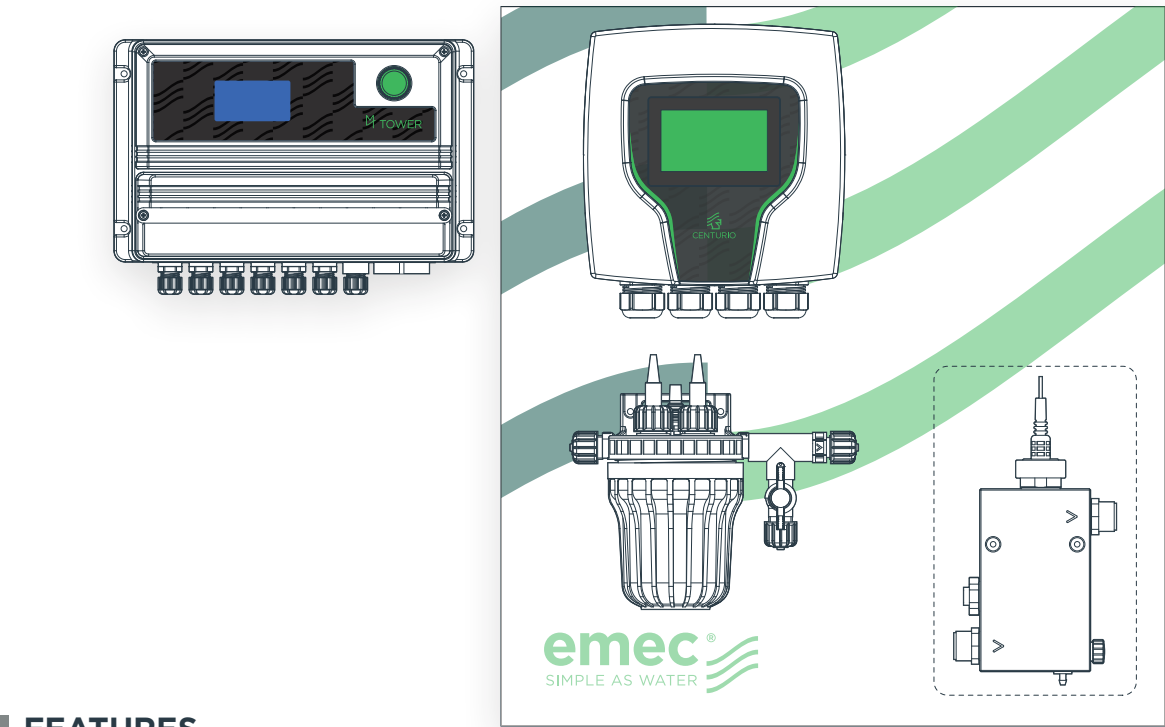
Fluoride

probe | EFL
range | conc. 0/3,00 ppm (0,01 ppm) - mV 0/1000,00 ppm (0,01 ppm)

PREASSEMBLED MULTI-CHANNEL PANEL SOLUTIONS

Basic solutions

Preassembled panel with Centurio Tower or MTower systems



FEATURES

Panel with MTOWER controller, for managing the bleed valve and chemical measurement and dosing, and for measuring the make-up and bleed flow rate.

Available in 4 versions: Conductivity (only); Conductivity/PH; Conductivity/RH; Conductivity/PH/RH.

Optional: Also available with Centurio Tower controller
Also available with customised colour background

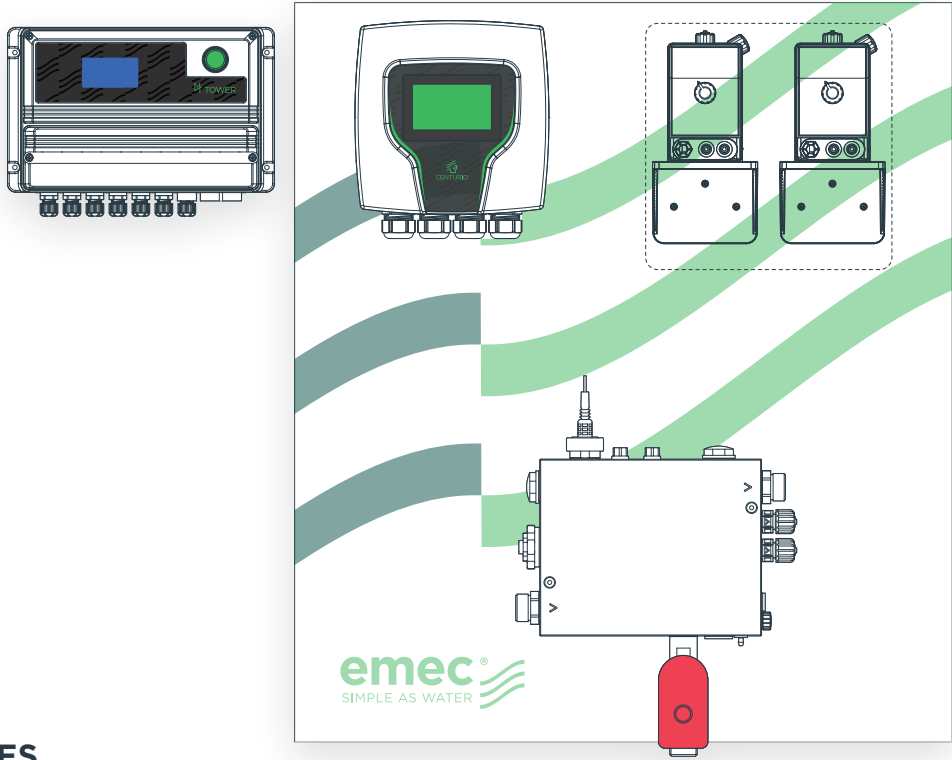
CONDUCTIVITY

controller MTOWER-CD	controller MTOWER-CD-PH	controller MTOWER-CD-RH	controller MTOWER-CD-PH-RH
p. holder NPED4	p. holder NPED4	p. holder NPED4	p. holder NPED4
probe ECDCCPT1	probe ECDCCPT1-EPHS	probe ECDCCPT1-ERHS	probe ECDCCPT1-EPHS-ERHS

INDUCTIVE CONDUCTIVITY

controller MTOWER-CDIND	controller MTOWER-CDIND-RH	controller MTOWER-CDIND-pH	controller MTOWER-CDIND-PH-RH
p. holder MANIFOLD-E-3 NPED1	p. holder MANIFOLD-E-3 NPED1	p. holder MANIFOLD-E-3 NPED1	p. holder MANIFOLD-E-3 NPED1
probe ECDCCPT1	probe ECDCCPT1-EPHS	probe ECDCCPT1-ERHS	probe ECDCCPT1-EPHS-ERHS

The images on this page are for illustrative purposes only, for more information on possible configurations, please contact the sales department or your sales representative.



FEATURES

Panel with MTOWER controller, for managing the bleed valve and chemical dosing, equipped with 2 dosing pumps and make-up and bleed flow measurement. Equipped with MANIFOLD, 1" controllable bleed valve, 2 dosing pumps, 2 injection points.

Available in 4 versions: Conductivity (only); Conductivity/PH; Conductivity/RH; Conductivity/PH/RH.

Optional: Also available with Centurio Tower controller
Also available with customised colour background

CONDUCTIVITY

controller MTOWER-CD	controller MTOWER-CD-PH	controller MTOWER-CD-RH	controller MTOWER-CD-PH-RH
p. holder MANIFOLD 1EV	p. holder MANIFOLD PLUS 1EV	p. holder MANIFOLD PLUS 1EV	p. holder MANIFOLD PLUS 1EV
probes ECDCCPT1	probes ECDCCPT1 EPHS	probes ECDCCPT1 ERHS	probes ECDCCPT1 EPHS ERHS
pumps Up to 2x KMF1504 (with bracket)	pumps Up to 2x KMF1504 (with bracket)	pumps Up to 2x KMF1504 (with bracket)	pumps Up to 2x KMF1504 (with bracket)

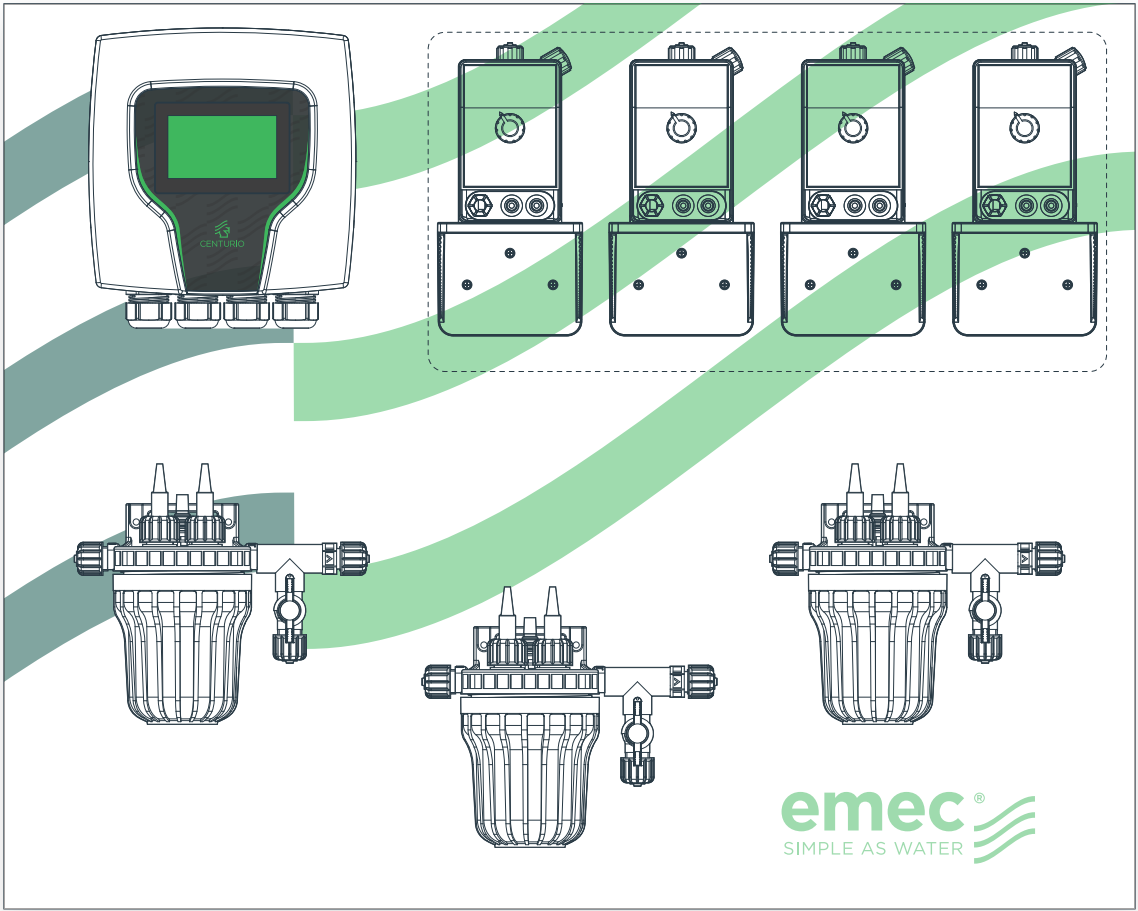
INDUCTIVE CONDUCTIVITY

controller MTOWER-CDIND	controller MTOWER-CDIND-PH	controller MTOWER-CDIND-RH	controller MTOWER-CDIND-PH-RH
p. holder MANIFOLD 1EV-IND	p. holder MANIFOLD PLUS 1EV-IND	p. holder MANIFOLD PLUS 1EV-IND	p. holder MANIFOLD PLUS 1EV-IND
probes ECDCCPT1	probes ECDIND EPHS	probes ECDIND ERHS	probes ECDIND EPHS ERHS
pumps Up to 2x KMF1504 (with bracket)	pumps Up to 2x KMF1504 (with bracket)	pumps Up to 2x KMF1504 (with bracket)	pumps Up to 2x KMF1504 (with bracket)

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Intermediate solutions

Preassembled panel with Centurio Tower system



FEATURES

Panel with CENTURIO PRO controller, up to 3 conductivities, therefore up to 3 purges, equipped with 4 dosing pumps: one for inhibitor in make-up function and 3 for biocide shock dosing. (Up to 6 purges can be implemented).

Available in 2 versions: Capacitive Conductivity and Inductive Conductivity.

Optional: Also available with customised colour background

CONDUCTIVITY

controller | CENTURIO PRO-CD-CD-CD

p. holder | 3x NPED4

probes | 3x ECDCCPT

pumps | Up to 4x KMF1504
(with bracket)

INDUCTIVE CONDUCTIVITY

controller | CENTURIO PRO-CDIND-CDIND-CDIND

p. holder | 3x MANIFOLD-3-E

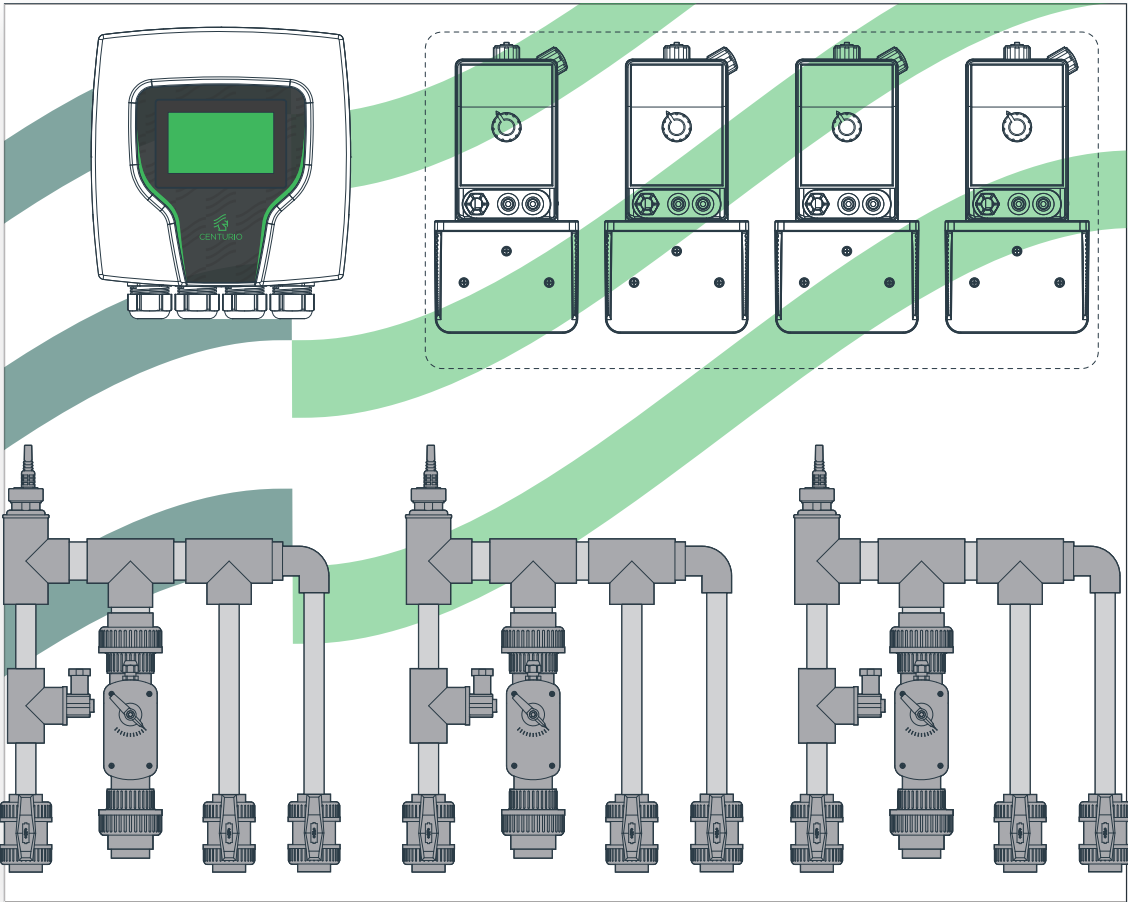
probes | 3x ECDIND

pumps | Up to 4x KMF1504
(with bracket)

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Intermediate solutions

Preassembled panel with Centurio Tower system



FEATURES

Panel with CENTURIO PRO controller, up to 3 conductivities, therefore up to 3 purges, equipped with EV and 4 dosing pumps: one for inhibitor in make-up function and 3 for biocide shock dosing. (Up to 6 purges can be implemented).

Available in 2 versions: Capacitive Conductivity and Inductive Conductivity.

Optional: Also available with customised colour background

CONDUCTIVITY

controller | CENTURIO PRO-CD-CD-CD

p. holder | 3x PIPING with EV

probes | 3x ECDCCPT

pumps | Up to 4x KMF1504
(with bracket)

INDUCTIVE CONDUCTIVITY

controller | CENTURIO PRO-CDIND-CDIND-CDIND

p. holder | 3x PIPING with EV

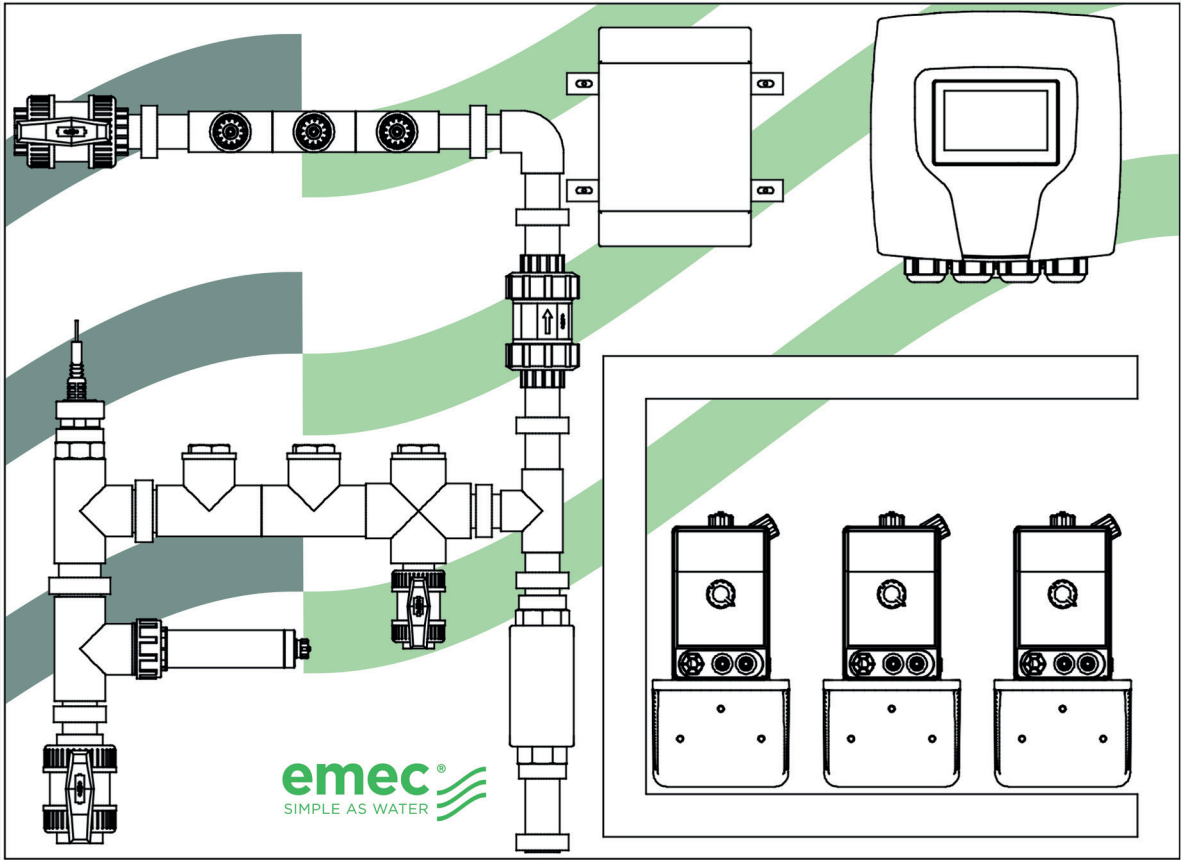
probes | 3x ECDIND

pumps | Up to 4x KMF1504
(with bracket)

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Intermediate solutions

Preassembled panel with Centurio Tower or MTower systems



FEATURES

Panel with CENTURIO/MTOWER controller, with three measurements (CD, pH and Redox), measurement and metering of make-up and purge flow, with PIPING for measurement, 1 1/4" purge and 4 injection points, equipped with 2 dosing pumps (expandable).

Available in 2 versions: Capacitive Conductivity and Inductive Conductivity.

Optional: Also available with customised colour background

CONDUCTIVITY

controller | CENTURIO/MTOWER-CD-PH-RH

p. holder | PIPING with EV and injection points

probes | ECDCCPT
EPHS
ERHS

pumps | Up to 2x KMF1504
(with bracket)

INDUCTIVE CONDUCTIVITY

controller | CENTURIO/MTOWER-CD-PH-RH

p. holder | PIPING with EV and injection points

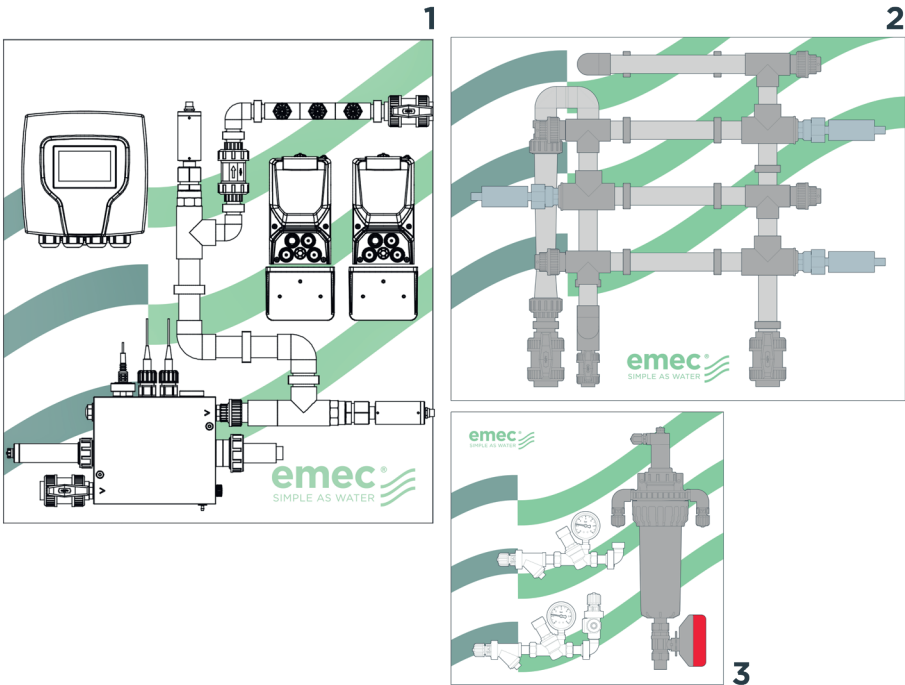
probes | ECDIND
EPHS
ERHS

pumps | Up to 2x KMF1504
(with bracket)

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Top of the range solutions

Modular preassembled panels with Centurio Tower system



FEATURES

Top of the range panel with CENTURIO-TOWER controller, with up to 6 measurements (CD, pH and Redox, Tracer, Corrosion and Turbidity), measurement and metering of make-up and purge flow rate, with litre counter and valve on the panel, with PIPING for measurement, 1 1/4" purge and 4 injection points, equipped with 4 dosing pumps. With separate panels for turbidity probe and double/triple corrosion measurement.

The panel is modular so you can remove or put in probes, valves, dosing pumps.

Available in 2 versions: Capacitive Conductivity and Inductive Conductivity.

Optional: Also available with customised colour background

1 - CONDUCTIVITY

- controller** | CENTURIO
- p. holder** | PIPING with injection points for purge flow rate measurement
- probes** | 1 EDCDCPT
1 ETRC2
2 ECORR
1 EPHS
1 ERHS
- pumps** | Up to 2 x Prisma (with bracket)

2 - CORROSION

- probes** | Up to 3x ECORR
- other** | Corrosion specimen holder kit

1 - INDUCTIVE CONDUCTIVITY

- controller** | CENTURIO
- p. holder** | PIPING with injection points for purge flow rate measurement
- probes** | 1 EDCDCPT
1 ETRC2
2 ECORR
1 EPHS
1 ERHS
- pumps** | Up to 2 x Prisma (with bracket)

3- TURBIDITY

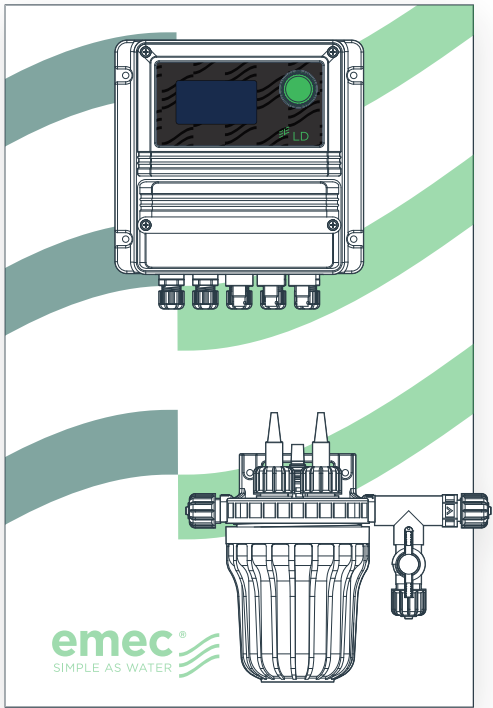
- p. holder** | NPED TORB
- probes** | ETORB2
- other** | Cleaning Kit

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PREASSEMBLED SINGLE-CHANNEL PANEL SOLUTIONS

Basic solutions

Preassembled panel with LDS system



FEATURES

Panel with LDSCD controller for purge valve management, with socket probe-holder.

Available in 2 versions: Capacitive Conductivity and Inductive Conductivity.

Optional: Also available with customised colour background

CONDUCTIVITY

controller | LDS-CD

p. holder | NPED4

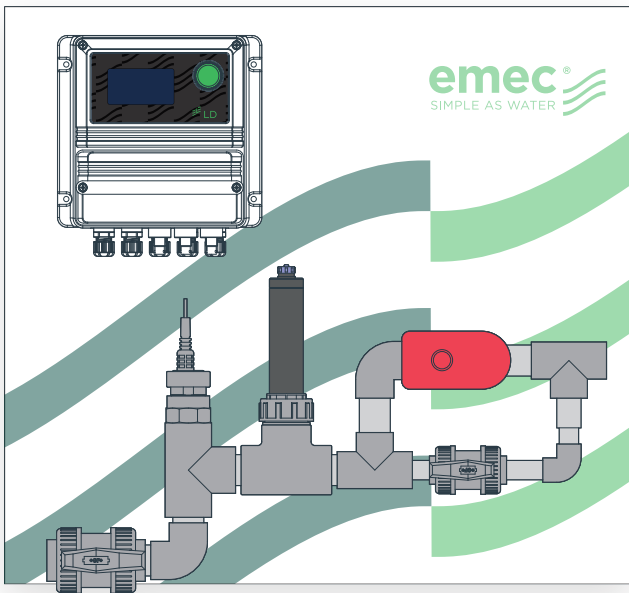
probe | ECDCCPT

INDUCTIVE CONDUCTIVITY

controller | LDS-CDIND

p. holder | MANIFOLD-E-3

probe | ECDIND



FEATURES

Panel with LDSCD controller for managing the 1" partitionable bleed valve, included in the panel.

Available in 2 versions: Capacitive Conductivity and Inductive Conductivity.

Optional: Also available with customised colour background

CONDUCTIVITY

controller | LDS-CD

p. holder | PIPING with 1" EV

probe | ECDCCPT

INDUCTIVE CONDUCTIVITY

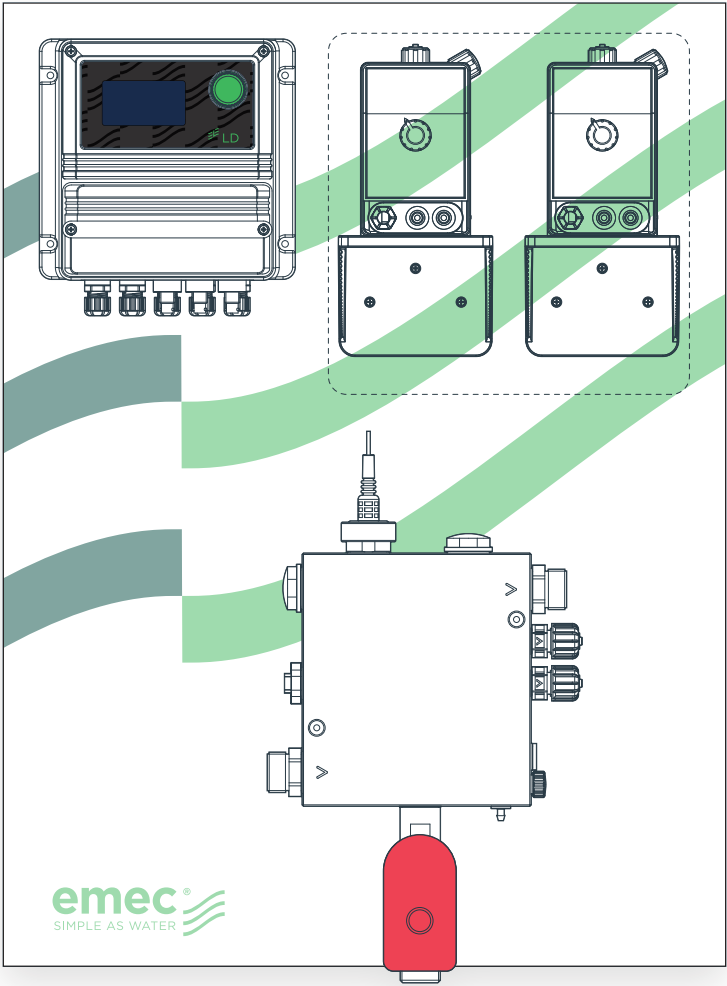
controller | LDS-CDIND

p. holder | PIPING with 1" EV

probe | ECDIND

Intermediate solutions

Preassembled panel with LDS system



FEATURES

Panel with LDSCD controller for managing the 1" partitionable bleed valve, included in the panel, equipped with a shock timer pump and an inhibitor pump, with injection points.

Available in 2 versions: Capacitive Conductivity and Inductive Conductivity.

Optional: Also available with customised colour background

CONDUCTIVITY

- controller | LDS-CD
- p. holder | MANIFOLD with 1" EV
- probes | ECDCCPT
- pumps | KMF1504 (with bracket)
KEN1504 (with bracket)

INDUCTIVE CONDUCTIVITY

- controller | LDS-CDIND
- p. holder | MANIFOLD with 1" EV with 2 injection points
- probes | 3x ECDIND
- pumps | KMF1504 (with bracket)
KEN1504 (with bracket)

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ADVANCED REMOTE MONITORING AND CONTROL SYSTEM

NIMBUS

Online platform for remote control

NIMBUS is an online platform that enables remote monitoring and control of all parameters of compatible EMEC products, allowing interactive management of probes, instrument inputs, product levels, temperature and setpoints.

HOW DOES NIMBUS WORK?

All EMEC instruments equipped with an encoder or touchscreen and an Ethernet or 3G/4G connection are immediately connected and ready for use.

In addition to remote interaction, NIMBUS allows you to receive email notifications regarding alarms and the status of your instruments, based on various configuration options.



ADVANTAGES

- Reduced on-site inspections and maintenance interventions
- Real-time status of network devices (probes, outputs, alarms and setpoints)
- Customisable reports including data from all plant instruments
- Charts, tables and activity logs downloadable to a PC (CSV format)
- Activity scheduling with automatic reminder notifications

COMPATIBLE SYSTEMS

- PRISMA
- CENTURIO PRO / POOL / TOWER
- MTOWER
- WD
- LD / LDS
- WN
- WT
- VELON
- LD OSIN PLUS
- LOTUS



KEY FEATURES

Nimbus has been developed to deliver a complete, intuitive and secure user experience: from interactive plant status visualisation to geolocation, from remote configuration to maintenance planning.

Thanks to advanced reporting tools, role-based access management, and the highest standards of security and data protection, Nimbus supports companies and teams in efficiently monitoring their infrastructure, streamlining daily operations and enhancing overall operational control.



INTUITIVE AND
CUSTOMIZABLE
DASHBOARD



INTERACTIVE MAP
WITH REAL-TIME
MONITORING OF
SYSTEMS AND
DEVICES



BUILT-IN
GEOLOCATION
FOR ALL YOUR
INSTALLATIONS
AND DEVICES



GUIDED DEVICE
REGISTRATION



REMOTE SETUP AND
CONTROL, ANYTIME,
ANYWHERE



SMART TEAM
MANAGEMENT WITH
PROFILED ACCESS
LEVELS



INTEGRATED
CALENDAR TO PLAN
TASKS AND
MAINTENANCE



DETAILS,
CUSTOMIZABLE
REPORTS AT YOUR
FINGERTIPS



MULTILINGUAL
PLATFORM



SECURE CONNECTION
WITH STATE-OF-THE-
ART ENCRYPTION



DATA MANAGEMENT
IN COMPLIANCE WITH
THE HIGHEST
SECURITY AND
PRIVACY STANDARDS



Fast, simple and intuitive
YOUR SMART ASSISTANT



A MULTILINGUAL WEB PLATFORM

The user interface is available in 34 languages

MULTIPLE ACCESS LEVELS

Multiple users can be added to the system, with different access levels assigned to each installation

STATUS NOTIFICATIONS PUSH

Set up push notifications on the status of your installations



EVERYTHING UNDER CONTROL

Real-time display of all your plant parameters and monitoring of the status of all probes

REAL-TIME MANAGEMENT

Real-time management and configuration of all your plant parameters

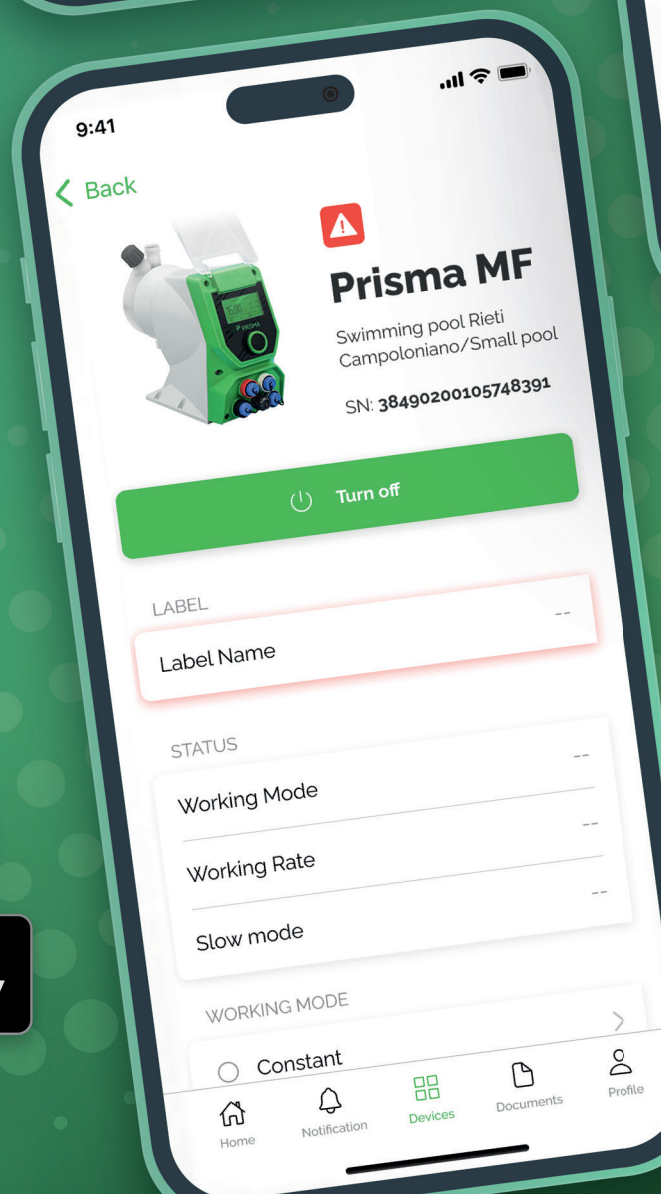
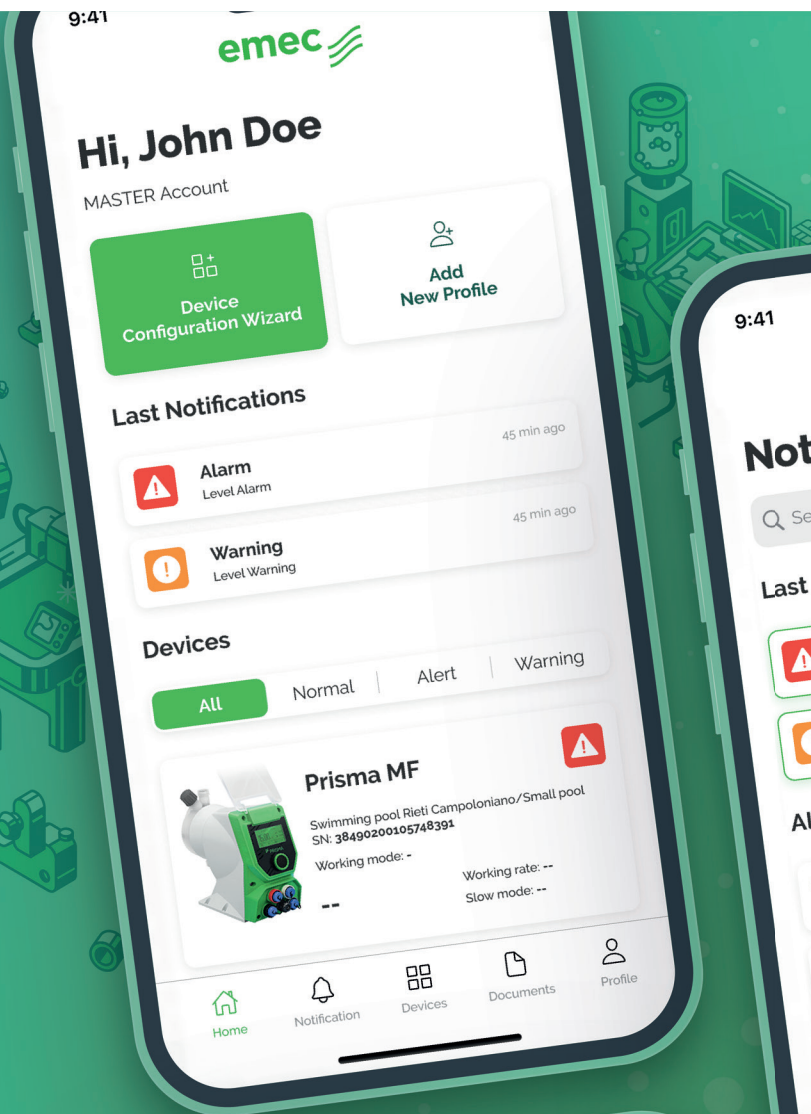
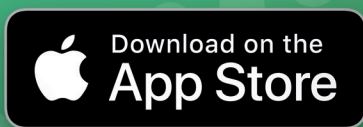
REAL-TIME CHARTS

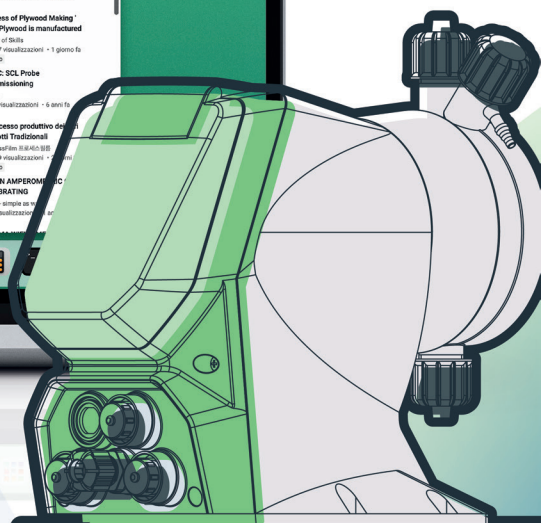
Charts of all your plant parameters, based on both real-time data and stored data



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