



GROUP

**BARCHEMICALS**®

THE PERFECT FORMULA

**GENERAL CATALOGUE  
WATER TECHNOLOGIES  
2022-1**



BIO SAFETY

This catalog cancels all previous ones and will remain valid until the replacement - even partially  
- with new versions.

Issue date: March 2022



GROUP  
**BARCHEMICALS**<sup>®</sup>  
THE PERFECT FORMULA



This Brochure is the result of more than thirty years of experience by a Large Italian Group: **Barchemicals Group**.

Barchemicals Group is an all-Italian business currently consisting of 3 companies which share projects, visions and values, including client and collaborator Safety and the protection and respect for Environmental Resources.

It works in the primary, drinking and **swimming pool**, water treatment industry, both in Italy and abroad, stretching 360° across every managerial problem with particular focus on the disinfection and water treatment industry, environmental disinfection and sanitation, **control and automation**.

Founded and directed by Dr Corrado Barani, the Group holds multiple patents and invests heavily in Research and Innovation resources, with a particular focus on developing aspects of **Biosafety** and ensuring the health of customers and operators

Through the Brand Engineering Corporation it develops Research and Development activities in the field of technology for Water treatment, presenting itself as leader in the design and production of plants for water purification of the water and plant systems for control and dosage.

These strictly "Made in Italy" products meet stringent quality criteria and are developed along a strict course of research and safety tests.

The **Barchemicals Chemical Brochure** was designed specifically for key players in the water treatment industry and professional swimming pools maintenance services and represents a compendium of our technologies and expertise developed to meet

the requirements of our professional customers.

Reliability, Safety and Innovation are the 3 values through which the Made in Italy technology is interpreted, offering a vast range of solutions and products:

- Monitoring systems - including the innovative colorimetric control units in the **TELEPOOL** series
- Dosage systems - primarily the revolutionary diluters in the **DDS** series
- Double wavelength **UV-C Nanotech** treatment systems
- Automation systems
- Drinking water treatment plants
- Designing and developing software for monitoring systems and plant management
- Feed pumps

This vision arises from the answer to a simple question: what does today's consumer want? Quality, service, responsiveness, design, efficiency, innovation and the right quality-price ratio, with a constant focus on ensuring the safety of swimming pools users and professional maintenance services.

Barchemicals Group aims to meet these needs and launch them in order to develop a new culture in Innovative and Safety, highlighting and enhancing all the strong points matured by the Group.



[www.barchemicalsgroup.it](http://www.barchemicalsgroup.it)

Follow Barchemicals Group on:  

BARCHEMICALS GROUP

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# BIO SAFETY

Barchemicals believes in Biosafety. Barchemicals introduces the basic concept of Biosafety to the swimming pool industry.

The swimming pool industry will no longer be approached in separate and specialised sectors, but holistically, focusing on all aspects of safety.

We at Barchemicals will go beyond swimming pool water treatment and the maintenance of related equipment to include the design, implementation and maintenance of the surrounding environment (air, water, edges, reception, etc.). We will not stop at ensuring the health and safety of swimmers but also of anyone who operates in swimming pool environments.

Biosafety is no longer limited to ensuring the safety of swimming facilities, but it also includes their environmental impact, e.g. by preventing the contamination of surrounding areas with pollutants in waste water or with airborne diseases (i.e. Legionella) through cooling towers.

Biosafety also means preventing issues that can cause diseases in current or future users of swimming facilities, whether in the short or long term. For this reason, the Barchemicals' R&D department, in collaboration with Universities and private or public Research Institutes, funds and supports research into innovative materials, less polluting and more effective.

In particular, Barchemicals focuses on the development of biocides, effective at low doses, less harmful to users' health and less likely to become less effective due to bacteria resistance over time.

Barchemicals is also exploring the design of new self-sterilising filtering materials that can reduce toxic pollutants in the swimming pool water or in sanitary or potable water, as well as conducting research on ways to reduce airborne pollutants in swimming facilities.

Barchemicals supports the research and development of new water treatment systems, but also promotes products and processes that can help people live healthier and happier lives, now and in the future.

Barchemicals is aware of its significant social role, as in the past 35 years it has created jobs and improved the local economy by employing dozens of people and training many young employees at its production and administrative facilities.

Leveraging the opportunities of a competitive free market, Barchemicals has contributed to raising the quality of water treatment systems at swimming pools in Italy and abroad.

Commitment to research and innovation and the promotion of people's health and well-being are core values that make of Barchemicals an industry leader at the cutting edge of technology.



Biosafety is Barchemicals' latest target to ensure the health and well-being of the community.

#### WHAT DOES COMMITMENT TO BIOSAFETY MEAN FOR BARCHEMICALS GROUP?

1. Firstly, obtaining the registration outside Europe of products containing biocides, included in the authorized local and European registers (BPR).
2. Obtaining the Medical and Surgical Device registration in Italy, as required by the Ministry of Health.
3. Avoiding the use of unauthorised products or of products lacking the technical specifications required by BPR.
4. Selecting suppliers based on strict ethical requirements and on the quality of raw materials.
5. Advancing R&D in collaboration with Universities and Research Institutes.
6. Promoting conferences and the continuous training of its human resources and educating its Customers.
7. Promoting R&D grants.
8. Developing new systems for water and air treatment (biomaterials, chemical-physical systems, UV, etc.)
9. Participating and organising conferences and events that promote Biosafety.
10. Expanding the areas of Biosafety application, helping the transfer of skills to different swimming pool know-how areas: potable water for human and animal use, sanitary water, industrial water, waste water, water for food use and for washing and handling food.
11. Encouraging the expansion of the Biosafety concept also to developing countries.

Castelnuovo Rangone 29 September 2021

BARCHEMICALS GROUP  
Dr. Corrado Barani

# OUR PRINCIPLES



**Pure water** - We consider water a source of well-being, purity and vitality, which is why we are committed to "treating" water efficiently.

**Design and Innovation**  
The concept of design and innovation is powerfully rooted in our DNA. All our products are geared towards this.



**Safety** - Our organisation is focused on safety, both for those who work professionally in the pool industry and users of the swimming facilities, in compliance with high quality standards.



**Energy Saving** - We are committed to researching and developing environmentally friendly solutions. Our priorities are wasting less water, saving energy and using alternative sources.





# NEWS AND INFO



## BARCHEMICALS CONNECT

Available on iTunes  
and GooglePlay



## BARCHEMICALS CONNECT

Connected to Barchemicals Group wherever you are.

The Barchemicals Connect app provides access to a series of information and documents at any time.

In fact you could easily flick through the most up to date versions of our catalogues, manuals and safety records.

In addition to this, if you are a client or partner, you can download and view other documents using your personal access data, such as:

- Business documents: order confirmations, invoices, etc.
- Results of your analysis
- Communications and notices from Barchemicals Group
- View and use the analysis coupons
- Manage the loyalty points and awards

Barchemicals Connect also allows you to send a request for intervention or analysis at any time.

# HIGHLIGHTED PRODUCTS

## UV-C NANOTECH LINE

The main characteristic of the UV-C NANOTECH Line is to work directly on two wave lengths. Wave length of 185 nanometres, able to destroy organic and halo-derivative compounds that are a health hazard, such as: Chloroamines THM (trihalomethanes) and other derivative compounds of suspected toxicity for human health.

Wave length of 253.7 nanometres capable of killing bacteria and viruses thereby disinfecting the water.

In the OZONE PLUS version, the production of ozone amplifies the destructive effect of harmful chlorine derivatives and the bacterial load elimination.

The great benefits of using UV-C rays can be summed up as follows:

Considerable respect for the environment with the use of C-type ultraviolet rays with physical and persistent action, no toxic residue for nature and human beings;

- No risk of allergies.
- No corrosion and no smell
- Compatible with most coverings and materials
- Easy, rapid installation.
- Reliability.
- Cost-effective treatments



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## DDS LINE

The DDS Line is a dilution system for Biocides in tablets or granular. Ideal for ensuring maximum safety (working at atmospheric pressure) and low maintenance thanks to the reduction of all electronic parts and the complete dilution of the chlorinating agent.

Furthermore, keeping the load of tablets always dry, it does not give off

strong and unpleasant chlorine odors. This patent allows chlorination of the swimming pool to be carried out without danger and in an economical way, after a measuring instrument, generally a control unit, has detected the need by activating the solenoid valve of the upper shower via the relay.



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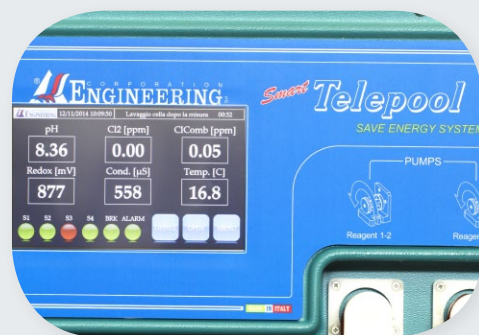
# HIGHLIGHTED PRODUCTS

## TELEPOOL LINE

The **Telepool Line** includes a series of analytical and control equipment of the water's main parameters with the possibility of managing both swimming pools with Chlorine based disinfection and pools with O2

based disinfection. The remote control systems and assistance via internet make the Telepool line one the most innovative in the world.

PAGE 026



## TELEPOOL SAVE ENERGY

The Colorimetric Control Unit **Smart Telepool Save Energy** combines the advantages of continuous control - under the system of maximum safety - of chemical-physical parameters of water in the basin with a focus

on properly using the energy resources and the intelligent and responsible resource of chemical disinfection.

PAGE 027

## BARSALT 150

**Barsalt** uses SMART POWER® technology, digital derivation, which allows an optimal regulation of the polarization power of the electrodes, which also have a programmable bipolar function. The technological upgrade involves extreme precision in the control of the working points of the electrodes, generating a significant

reduction in the formation of calcareous residues, with a reduction of up to 95% of the activities of cleaning and maintenance of the cells, guaranteeing the latter and the electrodes themselves a longer average life.

PAGE 040



## FEED PUMPS

Wide and complete range of electronic and mechanical dosing pumps for public and private pools e

for the dosage of biocides for the prevention and control of legionellosis.

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## Control and dose systems, UV and Ozone

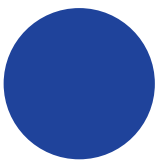
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# DDS LINE

TECHNOLOGIES FOR THE PRE-DILUTION  
OF THE CHEMICAL PRODUCT



## DDS LINE - PATENTED SYSTEM (n° B02009A00142)

Dilution system for Calcium Hypochlorite Biocides

DDS is a patented system that stemmed initially from the dilution of Calcium Hypochlorite in tablets or briquette but it then extends even to other chlorinating agents and solid disinfectants, both in tablets as well as granules.

It is ideal for guaranteeing maximum safety (working under atmospheric pressure) and low maintenance thanks to the reduction of electronic parts and the complete dilution of the chlorinating agent.

Furthermore, keeping the load of tablets constantly dry does not give off unpleasant and strong smells of Chlorine.

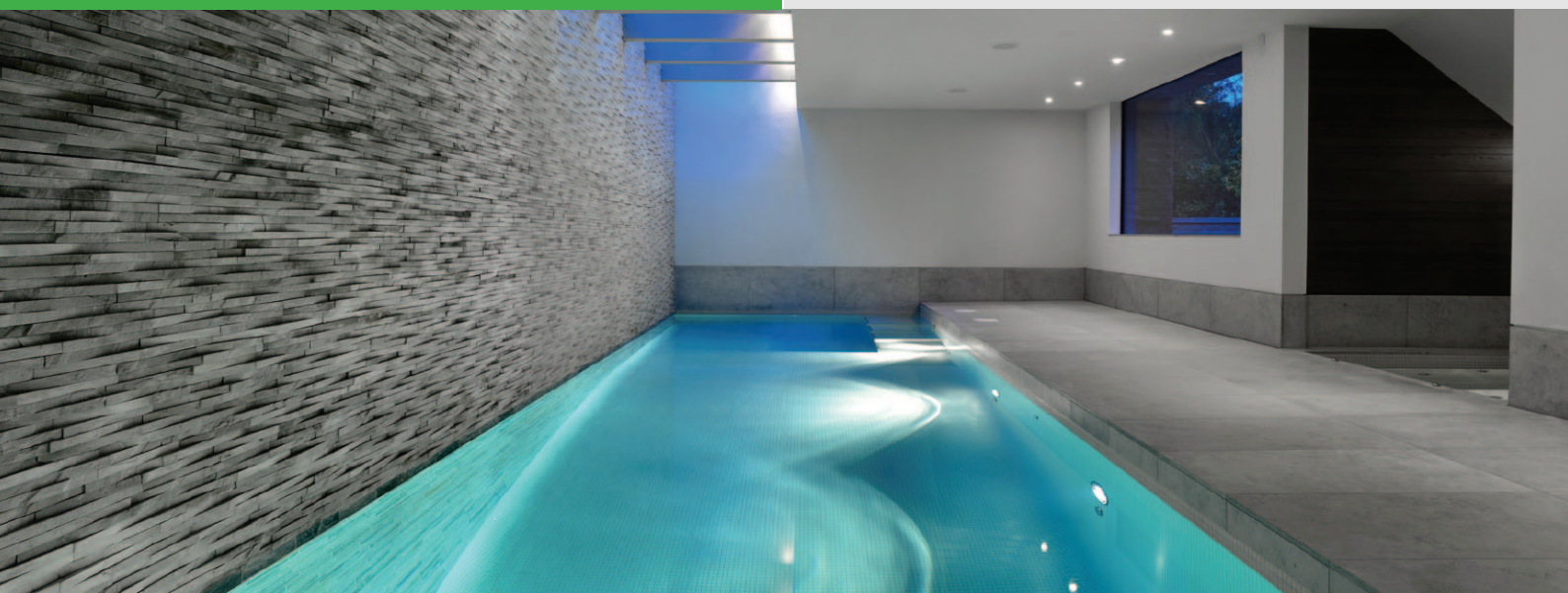
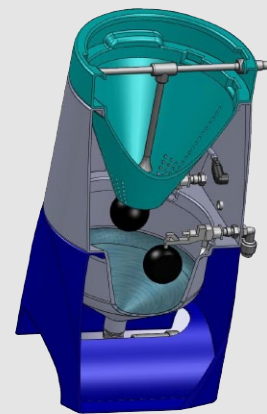
It allows you to Chlorinate the swimming pool safely and cheaply after a measuring instrument, generally a control unit, has shown it is necessary.

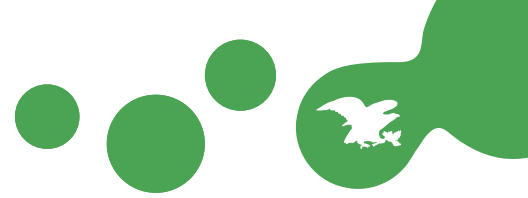
The design of the DDS system and the materials used allow for easy maintenance without any effort.



### ADVANTAGES

- It doesn't work under pressure
- It doesn't smell.
- Low maintenance.
- Indestructible.
- Easy to install.
- Low Cost.
- Safe and fast loading.





# DDS EVOLUTION

## CALCIUM HYPOCHLORITE IN TABLETS

Diluting and measuring system for biocides in tablets

Patented system of dilution and measuring of calcium hypochlorite in tablets or briquettes (max. 20g) with or without sequestrant.

- Easy installation and use.
- Low maintenance due to the lack of electrical and electronic parts.
- Complete dilution of the product.
- No smell.
- High hourly chlorination capacity.
- Works at atmospheric pressure; it does not need a dosing pump, but uses a venturi system.

Water circulation can be obtained using a by-pass before and after the filter or a by-pass after the filter, or by using an auxiliary booster pump where the system requires it.



### DDS-EVOLUTION

For swimming pools with maximum capacity of 400 m<sup>3</sup>  
 Capacity of the product hopper approx. 25 kg  
 PEV-Evo panel with flow meter 30/350 l/h max  
 Venturi System Ø 1"  
 Measurements: H 90 cm x D. 50 cm  
 Weight: 10.5 Kg  
 Material: polyethylene

### DDS-EVOLUTION PLUS

For swimming pools of up to 1000 m<sup>3</sup>  
 Capacity of the product hopper approx. 40 kg  
 PEV-Evo panel with flow meter 100/1,000 l/h max  
 Venturi System Ø 1" 1/2  
 Measurements: H 110 cm x D. 50 cm  
 Weight: 13 Kg  
 Material: polyethylene

### SYSTEM PARTS



#### DDS EVOLUTION

Equipment where the product is diluted

#### SOLENOID VALVE PANEL

Device for controlling the flow of water

#### VENTURI UNIT

Hydraulic vacuum system

### OPTIONAL

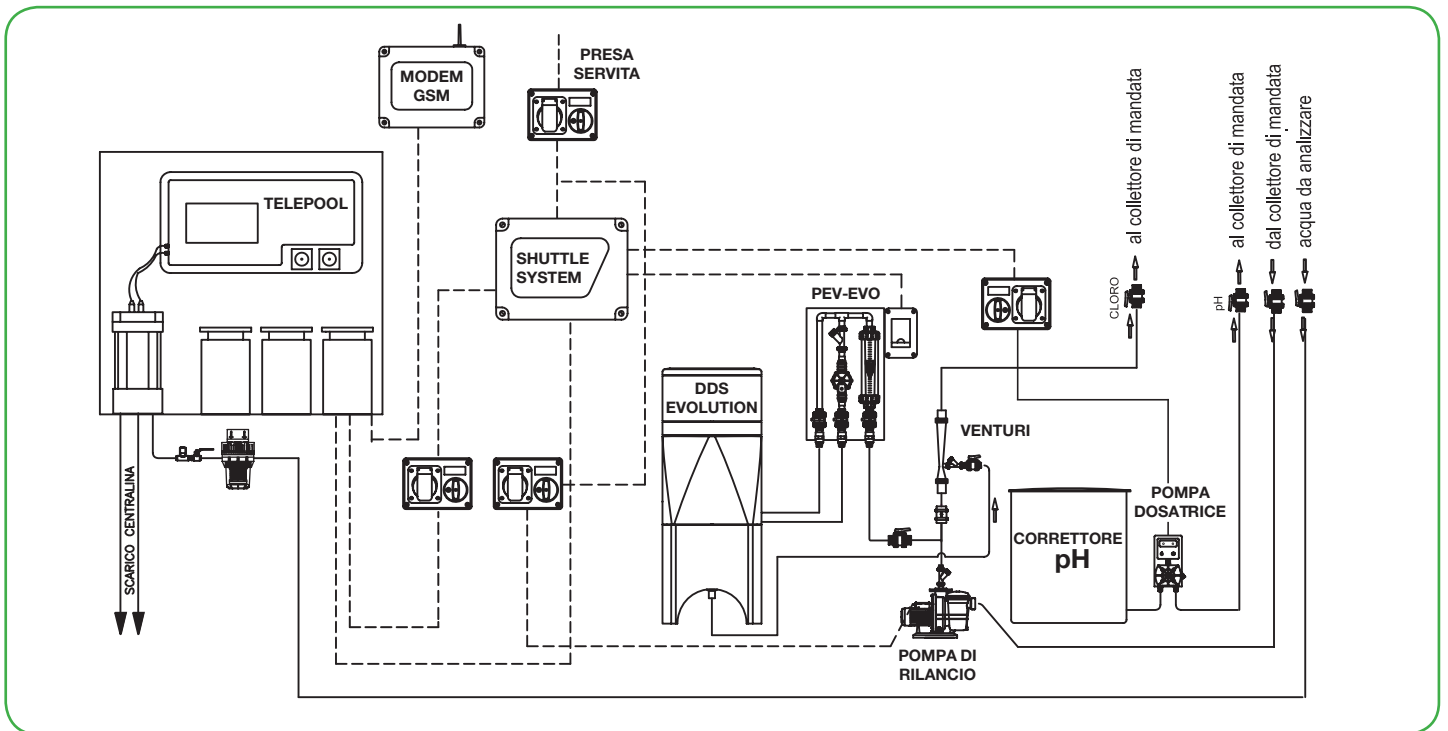


#### BOOSTER PUMP

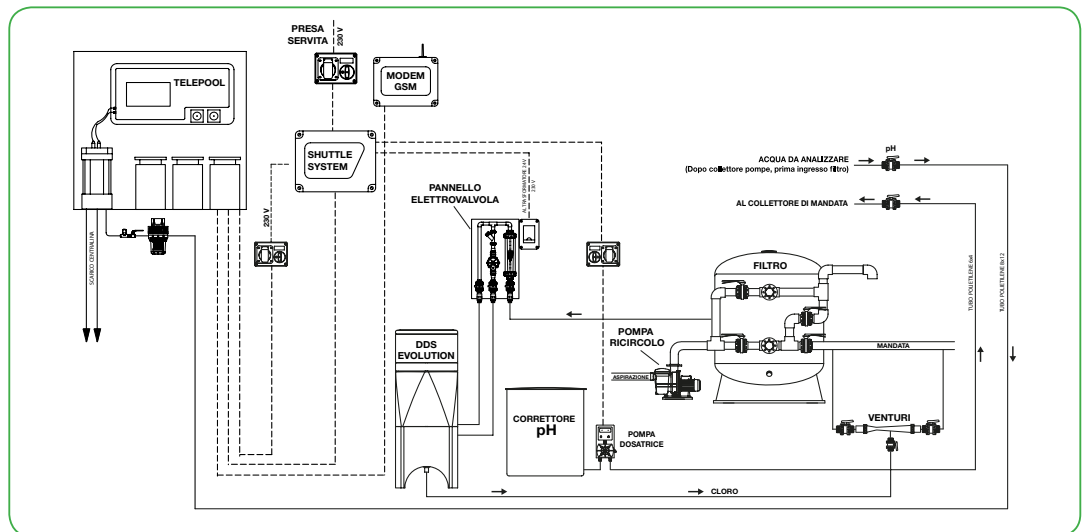
Code	Description
1202027	DDS EVOLUTION + PEV 24V + VENTURI UNIT (Except booster pump)
802340602	LUCAS PUMP 0.5 HP Single phase (booster pump). (0.33 Kw)
1202025	DDS EVOLUTION PLUS + PEV 24V + VENTURI UNIT (Except booster pump)
8023406002	LUCAS PUMP 0.75 HP Single phase (booster pump). (0.55 Kw)

\* 220 V electrovalves on request.

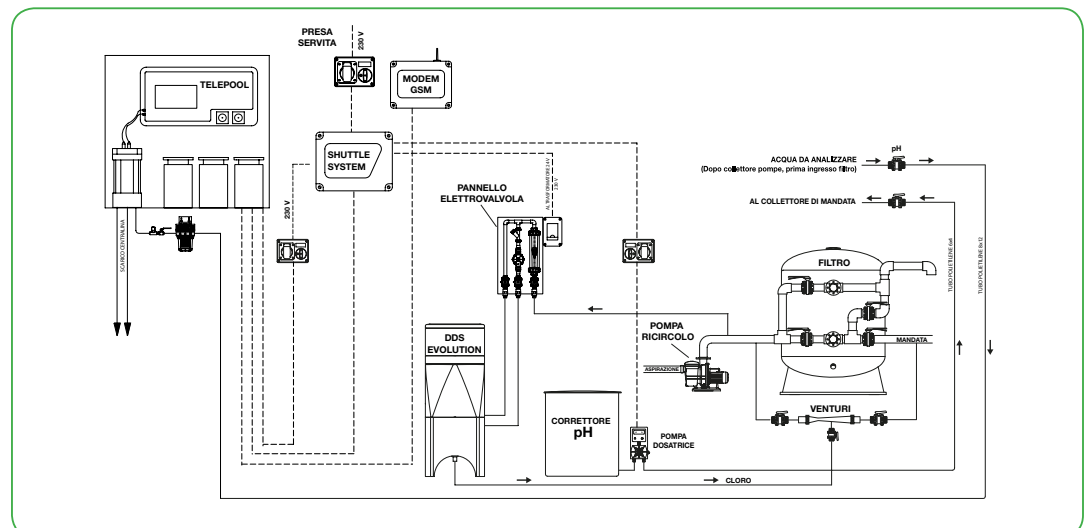
RECOMMENDED INSTALLATION LAYOUT



ALTERNATIVE INSTALLATION LAYOUT



ALTERNATIVE INSTALLATION LAYOUT







# DDS ECO WASH

## CALCIUM HYPOCHLORITE IN TABLETS

Diluting and measuring system for biocides in tablets

The DDS ECO WASH system is a dilution system for Calcium Hypochlorite in tablets or briquettes (max 20g additive with anti-scale).

It is ideal for guaranteeing maximum safety (working under atmospheric pressure) and low maintenance thanks to the reduction of all the electronic parts and the complete dilution of the chlorinating agent.

Furthermore, keeping the load of tablets constantly dry does not give off unpleasant and strong smells of Chlorine. This patent allows you to Chlorinate the swimming pool safely and cheaply after a measuring instrument, generally a control

unit, has shown it is necessary, activating the solenoid valve on the upper shower via the relay

DDS ECO WASH allows for automatic washing programmed by the solution chamber, ensuring constant top performance.

The design of the DDS ECO WASH system and the top quality materials used, guarantee maximum SAFETY and allow for easy maintenance without any effort. This version of the DDS system is recommended when it is difficult to install the Venturi system and on small plants.



### DDS ECO WASH

For swimming pools with maximum capacity of 2000 m<sup>3</sup>

Capacity of the product hopper approx. 25 kg

PEV-ECO WASH Panel

Measurements: H 90 cm x D. 50 cm

Weight: 13 Kg

Material: polyethylene and PVC

### DDS ECO WASH PLUS

For swimming pools with maximum capacity of 2500 m<sup>3</sup>

Capacity of the product hopper approx. 40 kg

PEV-ECO WASH Panel

Measurements: H 110 cm x D. 50 cm

Weight: 15.5 Kg

Material: polyethylene and PVC

### SYSTEM PARTS



#### DDS ECO WASH

Equipment where the product is diluted

#### PEV-ECO WASH PANEL

Device for controlling the flow of water

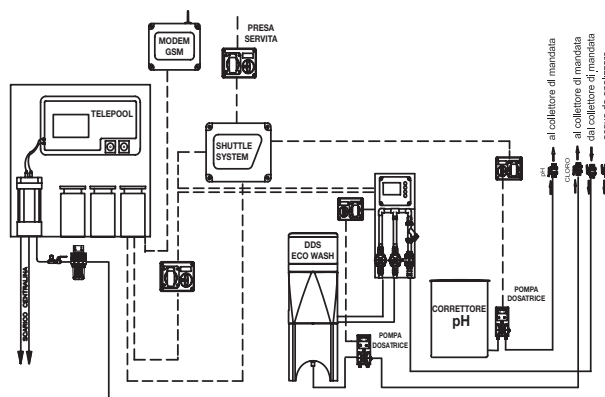
#### ENG-EM MEMBRANE FEED PUMP

Pump for measuring the biocide solution

#### SMART WASH CONTROLLER

Control unit for managing the levels and DDS ECO WASH automatic washing

### INSTALLATION LAYOUT



Code	Description
120202082	DDS ECO WASH + PEV (Except feed pump)
120202084	DDS ECO WASH PLUS + PEV (Except feed pump)
061220050	FEED PUMP MEMB. 110L/H-6 BAR- ENG-EM

# DDS MULTIACTION

SDIC, TCCA, CALCIPOCHLORITE, BROMINE AND OXYGEN IN TABLETS, MAXIMUM 20 G

Diluting and measuring system for biocides in tablets

The only system for biocides in tablets that works under atmospheric pressure.

Patented system for the dilution of TCCA, SDIC, Bromine, Oxygen in tablets. Ideal for tablets up to max 20 gr. The use of larger tablets reduces the maximum hourly dosage of the oxidizing agent capacity.

New lid with anti-odor closure. Does not require the use of dosing pumps. Water-energy savings of over 30%. Absence of electronic and electrical parts subject to wear.



## DDS-MULTIACTION

For swimming pools with maximum capacity of 800 m<sup>3</sup> \*  
Capacity of the product hopper approx. 25 kg  
PEV-1000 panel with flow meter 100-1,000 l/h max  
Venturi System Ø 1"1/2  
Measurements: H 110 cm x D. 50 cm  
Weight: 13 Kg  
Material: polyethylene

\* Variable according to the measured product.

## DDS-MULTIACTION PLUS

For swimming pools of up to 1500 m<sup>3</sup> \*  
Capacity of the product hopper approx. 40 kg  
PEV-1000 panel with flow meter 100-1,000 l/h max  
Venturi System Ø 1" 1/2  
Measurements: H 130 cm x D. 50 cm  
Weight: 15 Kg  
Material: polyethylene



Smell-Proof Lid

## SYSTEM PARTS



### DDS MULTIACTION

Equipment where the product is diluted

### SOLENOID VALVE PANEL

Device for controlling the flow of water

### VENTURI UNIT

Hydraulic vacuum system

## OPTIONAL



BOOSTER PUMP

### Maximum capacity of biocide dilution

Product	Size	DDS-MA	DDS-MA Plus
Trichloroisocyanuric Acid	20 g tablets	0.6 kg/hour	1 kg/hour
Sodium Dichloroisocyanurate	20 g tablets	4 kg/hour	6 kg/hour
Bromine	20 g tablets	0.2 kg/hour	0.4 kg/hour
Oxygen	20 g tablets	4 kg/hour	6 kg/hour

Code	Description
120202036	DDS MULTIACTION + PEV PEV24V + VENTURI UNIT (Except booster pump)
120202038	DDS MULTIACTION PLUS + PEV24V + VENTURI UNIT (Except booster pump)
8023406022	LUCAS PUMP 0.5 HP Single phase (booster pump). (0.33 Kw)



# DDS MULTIACTION ECO WASH

SDIC, TCCA, CALCIPOCHLORITE, BROMINE AND OXYGEN IN TABLETS, MAXIMUM 20 G

Diluting and measuring system for biocides in tablets

The only system for biocides in tablets that works under atmospheric pressure.

- Patented system for the dilution of TCCA, SDIC, Bromine and Oxygen in tablets (max. 20 g).
- New lid with smell-proof lid.
- Water-energy saving of more than 30%.

DDS ECO WASH allows for automatic washing programmed by the dissolving chamber, ensuring constant top performance.

The design of the DDS ECO WASH system and the top quality materials used, guarantee maximum SAFETY and allow for easy maintenance without any effort.



## DDS-MULTIACTION

For swimming pools with maximum capacity of 800 m<sup>3</sup> \*  
Capacity of the product hopper approx. 25 kg

PEV-ECO WASH Panel

Measurements: H 110 cm x D. 50 cm

Weight: 13 Kg

Material: polyethylene

## DDS-MULTIACTION PLUS

For swimming pools of up to 1500 m<sup>3</sup> \*  
Capacity of the product hopper approx. 40 kg

PEV-ECO WASH Panel

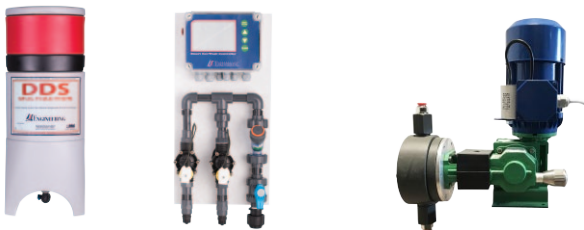
Measurements: H 130 cm x D. 50 cm

Weight: 15 Kg

Material: polyethylene

\* Variable according to the measured product.

## SYSTEM PARTS



Smell-Proof Lid

### DDS MULTIACTION

Equipment where the product is diluted

### PEV-ECO WASH PANEL

Device for controlling the flow of water

### ENG-EM MEMBRANE FEED PUMP

Pump for measuring the biocide solution

### SMART WASH CONTROLLER

Control unit for managing the levels and DDS ECO WASH automatic washing

### Maximum capacity of biocide dilution

Product	Size	DDS-MA	DDS-MA Plus
Trichloroisocyanuric Acid	20 g tablets	0.6 kg/hour	1 kg/hour
Sodium Dichloroisocyanurate	20 g tablets	4 kg/hour	6 kg/hour
Bromine	20 g tablets	0.2 kg/hour	0.4 kg/hour
Oxygen	20 g tablets	4 kg/hour	6 kg/hour

Code	Description
120202090	DDS MULTIACTION ECO WASH + PEV (Except feed pump)
120202092	DDS MULTIACTION ECO WASH PLUS + PEV (Except feed pump)
061220050	FEED PUMP MEMB. 110L/H-6 BAR- ENG-EM

# DDS.G GRANULAR

SDIC AND GRANULE CALCIUM HYPOCHLORITE

Diluting and measuring system for granular biocides

Diluting and measuring system for easy dissolving granular biocides: SDIC (Dichlorine) and Calcium Hypochlorite.

There is no need for feeder pumps.

There is no need for a solenoid valve panel.

Water-energy saving of more than 30%.

New lid with smell-proof lid.

There is no need for a heater.

Avoids the product "compressing".

It works under atmospheric pressure.



## DDS.G GRANULAR

For swimming pools with maximum capacity of 2000 m<sup>3</sup> and for water treatment plants

Capacity of the product hopper approx. 25 kg

12V electric engine.

Safety lock at loading stage

Dosage from 0 to 180 g max

Venturi System Ø 1 " 1/2

Measurements: H 120 cm x D. 50 cm

Weight: 13 Kg

Material: polyethylene

## SYSTEM PARTS



### DDS.G GRANULAR

Equipment where the product is diluted

### VENTURI UNIT

Hydraulic vacuum system

### SCU - SECURITY CONTROL UNIT

Measurement speed adjustment system with integrated electromechanical safety system on the lid

## OPTIONAL



### BOOSTER PUMP

Code	Description
120202044	DDS.G - GRANULAR/POWDER + VENTURI UNIT + SECURITY CONTROL UNIT
8023406022	LUCAS PUMP 0.5 HP Single phase (booster pump) (0.33 Kw)

# DDS - 3000 ECO

## CALCIUM HYPOCHLORITE IN TABLETS

Diluting and measuring system for biocides in tablets

Patented system for the dilution and measuring of Calcium Hypochlorite in tablets.

Works at ambient pressure.  
 Float level sensor.  
 It is possible to manage up to 4 pools simultaneously using a single DDS 3000 and two DSCs in series.  
 DSC controls 2 tanks and manages the dosage and preparation of the chlorinated solution.

Product basket capacity over 50 kg.  
 Dimensions: maximum height 140 cm, maximum diameter 110 cm.  
 Weight: about 20 Kg.



### DDS - 3000 ECO

Capacity of the product drum more than 50 kg

Sizes: maximum height 140 cm,  
 maximum diameter 110 cm

Weight: approx. 20 kg

### SYSTEM PARTS

### INSTALLATION LAYOUT



#### DDS - 3000 ECO

Equipment where the product is diluted. It is made up of: cistern, drum for the product, shaker, ultrasound sensor, outlets for the chlorinated and drainage solution.



#### PEV 3000 ECO SOLENOID VALVE PANEL

Device for controlling the flow of water. It is activated when the ultrasound sensor detects the absence of chlorinated solution.



#### DSC NEW

Double Station Controller. Electronic control unit capable of managing up to two pools simultaneously. Oversee the preparation of the solutions and their dosing.



Code	Description
120202058	DDS - 3000 ECO + DSC + PEV 3000 - 24V



# DDS - 3000 GRANULAR

## SDIC E CALCIO IPOCLORIO GRANULARE

Sistema di diluizione e dosaggio per biocidi in granuli

Dilution and dosage system for highly soluble granular biocides: SDIC (Dichloro) and Calcium Hypochlorite.

Work at atmospheric pressure  
Float level sensor  
It is possible to manage up to 4 tanks simultaneously using a single DDS 3000 Granular and two DSCs in series

DSC controls 2 tanks and manages the dosage and preparation of the chlorinated solution  
Loading hopper capacity approx.25 kg  
New lid with anti-odor closure  
Avoid product packing  
Dimensions: maximum height 125 cm, maximum diameter 110 cm  
Weight about 25 kg



NEW!



### DDS - 3000 GRANULAR

Loading hopper capacity approx.25 kg  
12 V electric motor  
Safety lock during loading  
Dimensions: H 125 cm (maximum H including green hopper) x D 110 cm  
Weight about 25 kg

### SYSTEM PARTS



#### DDS - 3000 GRANULAR

Equipment where the preparation and dilution of the chlorinated solution takes place.  
It consists of: tank, product loading hopper, agitator, float, outlets for the chlorinated solution and unloading.



#### PEV 3000 SOLENOID VALVE PANEL

Water flow control device. It is activated when the electronic float for level control detects the absence of chlorinated solution.



#### DSC NEW

Electronic control unit capable of managing up to two tanks at the same time. He supervises the preparation of the solutions and their dosage.



#### SCU - SECURITY CONTROL UNIT

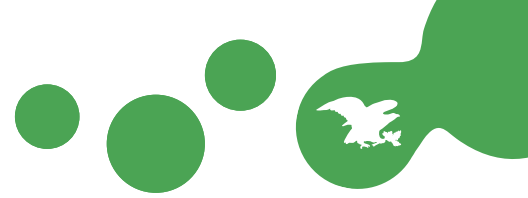
Security Control Unit  
Device for dosing the granular product inside the DDS.

Code

Description

120202098

DDS - 3000 GRANULAR + PEV 3000 + SCU



# DDS - 3000 INDUSTRIAL

## CALCIUM HYPOCHLORITE IN TABLETS

Diluting and measuring system for biocides in tablets

Patented system fore the dilution and measuring of Calcium Hypochlorite in tablets. Special model for obtaining highly diluted chlorinated solutions.

It works under atmospheric pressure.  
Floating level sensor.  
It is possible to manage up to 4 systems simultaneously using a

single DDS 3000 INDUSTRIAL and two DSC in series. DSC controls 2 pools and manages the measuring and preparation of the chlorinated solution.  
Capacity of the product drum approx. 50 kg.  
Sizes: maximum height 140 cm, maximum diameter 110cm.  
Weight: approx. 20 kg.



### DDS - 3000 INDUSTRIAL

Capacity of the product drum more than 50 kg  
Sizes: maximum height 140 cm,  
maximum diameter 110 cm  
Weight: approx. 20 kg

### SYSTEM PARTS

### INSTALLATION LAYOUT



#### DDS - 3000 INDUSTRIAL

Equipment where the product is diluted. It is made up of: cistern, drum for the product, shaker, ultrasound sensor, outlets for the chlorinated and drainage solution.



#### PEV 3000 INDUSTRIAL SOLENOID VALVE PANEL

Device for controlling the flow of water. It is activated when the ultrasound sensor detects the absence of chlorinated solution.



#### DSC NEW

Double Station Controller. Electronic control unit capable of managing up to two pools simultaneously. Oversee the preparation of the solutions and their dosing.



Code	Description
120202059	DDS - 3000 INDUSTRIAL + DSC + PEV 3000 - 24V





# MEASURING ACCESSORIES



FJ 3/8 300 L/h Pneumatic Pump



Air regulation unit



ENG-EM MEMBRANE FEED Pump

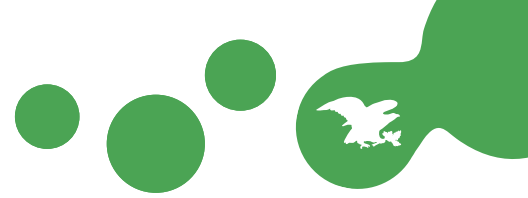


LUCAS Pump



Multidosing system

Code	Description
061499122	AIR REGULATION UNIT
061402003	FJ 3/8 PNEUMATIC PUMP
061220066	FEED PUMP MEMB. 90L/H-5 BAR- ENG-EM
120499130	MULTIDOSING SYSTEM
8023406022	LUCAS PUMP 0.5 HP Single phase (booster pump). (0.33 Kw)
8023406002	LUCAS PUMP 0.75 HP Single phase (booster pump). (0.55 Kw)



CODE	DESCRIPTION	DDS MODEL	IMAGE
120299017	GL1 ECO Level sensor	DDS ECOWASH DDS MULTIACTION ECO WASH	
240299259	SHUTTLE SAVE ENERGY	DSS.G GRANULAR DDS MULTIACTION ECO WASH DDS MULTIACTION - DDS MULTIACTION PLUS DDS EVOLUTION - DDS EVOLUTION PLUS DDS ECO WASH	
120299126	GALLEGGIANTE DI LIVELLO GL3-DDS ECO WASH	DDS ECOWASH DDS MULTIACTION ECO WASH	
260299352	CARTUCCIA LAVABILE PER FILTRO	DDS 3000 GRANULAR DDS 3000 INDUSTRIAL DDS 3000	
042402004	FILTRO 1/2" - 5"v per lambitori	DDS-3000 GRANULAR DDS-3000 INDUSTRIAL DDS-3000 ECO WASH	
120299080	CESTELLO PER DDS 3000 - 500 LT	DDS-3000 ECO DDS-3000 INDUSTRIAL	
140204009	AGITATORE PER DDS 3000 - 500 LT	DDS-3000 GRANULAR DDS-3000 INDUSTRIAL DDS-3000 ECO WASH	
120299132	DIFFUSORE SPRAY NOOZE	DDS MULTIACTION ECO WASH DDS MULTIACTION DDS MULTIACTION PLUS	
120299130	DIFFUSORE DOCGETTA	DDS MULTIACTION ECO WASH DDS MULTIACTION DDS MULTIACTION PLUS	
120299105	Venturi 1" Unit	DDS EVOLUTION	
120299103	Venturi 1" Unit 1/2	DDS. G GRANULAR DDS MULTIACTION PLUS DDS EVOLUTION PLUS	
120299108	GL1 Level sensor	DDS EVOLUTION DDS EVOLUTION PLUS	
120299250	KIT POMPA RILANCIO 0.5KW - VENTURI 1"1\2	DDS.G GRANULAR DDS MULTIACTION PLUS DDS EVOLUTION PLUS	

CODE	DESCRIPTION	DDS MODEL	IMAGE
120299110	GL2 Level sensor	DDS EVOLUTION DDS EVOLUTION PLUS	
120299114	GM1 Level sensor	DDS MULTIACTION DDS MULTIACTION PLUS DDS.G GRANULAR	
120299116	GM2 Level sensor	DDS MULTIACTION DDS MULTIACTION PLUS	
120204006	DDS drum	DDS MULTIACTION ECO WASH DDS MULTIACTION - DDS MULTIACTION PLUS DDS EVOLUTION - DDS EVOLUTION PLUS DDS ECO WASH	
120299138	DDS complete spray head	DDS EVOLUTION DDS EVOLUTION PLUS	
120204008	Extension lead for DDS	DDS EVOLUTION PLUS	
166402002	Solenoid valve 24/V	ALL THE PEVS NO DDS. G GRANULAR	
140499042	Flow meter 30/350 LT/h	DDS EVOLUTION	
140499046	Flow meter 100/1000 LT/h	DDS EVOLUTION DDS EVOLUTION PLUS DDS MULTIACTION DDS MULTIACTION PLUS	
120299197	RULLO D. 45.5 A 3 SETTORI X DDS. G	DDS-3000 GRANULAR DDS.G GRANULAR	
120204024	TRAMOGGIA COMPLETA PER DDS GRANULARE	DDS-3000 GRANULAR DDS.G GRANULAR	
120299252	KIT POMPA RILANCIO 0.37 KW - VENTURI 1"	DDS MULTIACTION DDS EVOLUTION	

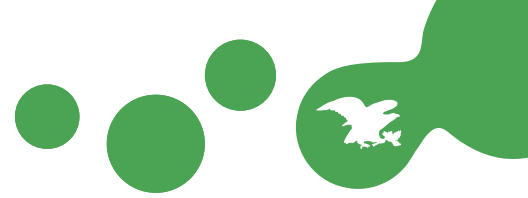


CODE	DESCRIPTION	DDS MODEL	IMAGE
164802010	Anti impurity filter	DDS MULTIACTION ECO WASH DDS MULTIACTION - DDS MULTIACTION PLUS DDS EVOLUTION - DDS EVOLUTION PLUS DDS ECO WASH	
120299150	SCU - Security Control Unit	DDS.G GRANULAR	
120299178	DDS dosing brush	DDS.G GRANULAR	
120299019	Level sensor GL ECO 3000	DDS-3000 INDUSTRIAL DDS-3000 ECO DDS.G GRANULAR DDS MULTIACTION ECO WASH	
240299241	DSC NEW - Double Station ECO Controller	DDS-3000 GRANULAR DDS-3000 INDUSTRIAL DDS-3000 ECO WASH	
120299134	PROLUNGHE PER DIFFUSORE	DDS MULTIACTION PLUS	
120299075	COPERCHIO PER DDS 3000 - COL. BIANCO	DDS MULTIACTION ECO WASH DDS MULTIACTION PLUS DDS EVOLUTION PLUS	
120204011	COPERCHIOXDDS EVOLUTION/ MULTIACT.-NEUTRO	DDS MULTIACTION DDS EVOLUTION	
120204018	BASCULANTE+CONTRAPPESO XDDS MULTIACTION	DDS MULTIACTION ECO WASH DDS MULTIACTION DDS MULTIACTION PLUS	
120204017	CERNIERA SH-6 PER DDS	DDS-3000 GRANULAR - DDS.G GRANULAR DDS MULTIACTION ECO WASH DDS MULTIACTION - DDS MULTIACTION PLUS DDS EVOLUTION - DDS EVOLUTION PLUS DDS ECO WASH	
120299085	Complete spray head DDS 3000	DDS-3000 INDUSTRIAL DDS-3000 ECO WASH	
165620008	TUBO CRISTAL 8 X 12	DDS-3000 GRANULAR - DDS ECO WASH DDS MULTIACTION ECO WASH DDS MULTIACTION - DDS MULTIACTION PLUS DDS EVOLUTION - DDS EVOLUTION PLUS	
180602108	BOBINA X ELETTROVALVOLA 220V.	DDS MULTIACTION DDS MULTIACTION PLUS DDS EVOLUTION - DDS EVOLUTION PLUS	



# TELEPOOL LINE

COLORIMETRIC CONTROL UNIT AND  
MULTI PARAMETER



# TELEPOOL LINE - DPD SYSTEM

Colorimetric control unit and multi parameter  
(pH - free chlorine - combined chlorine - conductivity - redox and temperature)

Quality, safety and environment have never been so close.

The colorimetric unit bases the control of chlorine with the colorimetric system with the DPD, which allows you to achieve maximum Chlorine control safety (0.1 ppm sensitivity) and the differentiation between free and combined chlorine.

The Colorimetric Control Unit **Telepool Smart Save Energy** combines the advantages of continuous control - under the system of maximum safety - of chemical-physical parameters of water in the basin with a focus on properly using the energy resources and the intelligent and responsible resource of chemical disinfection.

Telepool Smart Save Energy is the state of the art innovative model in the Telepool Line: it guarantees maximum water quality by combining the modular control of recirculation systems and producing significant energy

savings; it has an LCD display increased with "touch screen" technology and management of the interactive pages in an intuitive and simplified form: it allows you to navigate quickly through the Menu and access the desired pages avoiding torturous and unnecessary searches.

Telepool Smart Save Energy is the result of thirty years of experience and investments in the field of research; it is a multi-parametric control and dosing unit that ensures safety and reliability - with high performance - at a competitive price and an unbeatable quality/price ratio.

Telepool Smart Save Energy represents and epitomises a new philosophy of Water Treatment, where **respect for the environment, hygiene and safety** are combined.

The technological innovation is based mainly on an elaborated algorithm from the Research and Development Sector of the Barchemicals Group.



## SYSTEM PARTS

### TELEPOOL SMART SAVE ENERGY

#### SHUTTLE SAVE ENERGY

Device combined with the Telepool control unit to export the connections with the power relay on the outside of the control unit.



### KM - ASSEMBLY KIT

Everything that is required to install the control unit properly.





Telepool Smart Save Energy, through the continuous measurement of typical water parameters, as well as controlling the relative dosage systems, manages through the developed algorithm, to operate (turning on/off; or, in there is an inverter installation, motor slowing down) some of the recirculation pumps in the swimming pool, guaranteeing an energy saving on pump consumption and at the same time the maintenance of a large amount of water.

The continuous control of water parameters and the subsequent automatic control of doses of chemical products not only meets the Standards for public plants but also allows you to measure regular doses for a good quality of water and an optimisation of chemical product consumption.

Telepool Smart Save Energy, through the function of energy saving on the recirculation pumps, allows for an average electricity saving of between 25% and 30% with peaks in particular structures - of recent construction and/or low

frequency - greater than 40%: results obtained by guaranteeing and maintaining the water's excellent quality of chemical-physical parameters.

Telepool Smart Save Energy also deals with saving water: in fact, it recovers all the control water, reducing consumption to only a few litres per day required for washing the colorimetric measuring cells.

Telepool Smart Save Energy is easily and intuitively programmable; it allows you to introduce personalised alarms, on the basis of the limits and values of optimal reference or the Law; it allows for the measuring and preservation of data on a graphic screen; it handles the sending of sms on alarms and the possibility, even remote, of setting alarm modes.

It is available in 5 languages: Italian, English, French, Spanish and Russian.

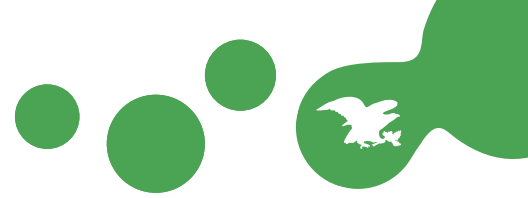


**Measurements: 700X650x300 mm**  
**Weight: 10 kg**

Code	Description
260210040	TELEPOOL SMART SAVE ENERGY + KM* + SHUTTLE
240299259	SHUTTLE SMART SAVE ENERGY
240299259	SHUTTLE SAVE ENERGY

\* KM: Assembly Kit





**SOFTWARE CHARACTERISTICS**

**FREE AND COMBINED CHLORINE**

Measurement principle: Photometric Monitoring  
 Absorption peak: 515nm  
 Procedure used: DPD colorimetry  
 Projector: Narrowband LED  
 Sensor: Silicon light sensor  
 Measurement range: 00.00 - 5.00 ppm Free chlorine  
 Resolution: +/- 0.01 ppm Free chlorine  
 Accuracy: +/- 2% F.s.  
 Repeatability: 98 %  
 Set-Point: 3 with Relay outputs

Accuracy: ± 0.2% F.s.  
 Repeatability: 98 %  
 Input impedance: > 10 GOhm  
 Polarisation: < 1 pA  
 Set-Point: 2 Logics

**PH**

Measurement principle: Potentiometric  
 Measurement range: 00.00 ÷ 14.00 pH  
 Resolution: ± 0.01 pH  
 Accuracy: ± 0.2% F.s.  
 Repeatability: 98 %  
 Input impedance: > 10 GOhm  
 Polarisation: < 1 pA  
 Set-Point: 1 with Relay output

**CONDUCTIVITY**

Measurement principle: Conductometric  
 Sensor: Sensor with stainless steel electrodes  
 Measurement range: 0 – 2000 µS  
 Resolution: 1 µS  
 Accuracy: ± 2% F.s.  
 Repeatability: 98 %  
 Compensation temperature: Automatic

**REDOX**

Measurement principle: Potentiometric  
 Measurement range: ± 1000 m  
 Resolution: ± 1 mV

**TEMPERATURE**

Measurement principle: Resistance thermometer  
 Sensor: Probe NTC 100K@ 25  
 Measurement range: 0.0 – 50.0 °C  
 Resolution: ± 0.1 °C  
 Accuracy: ± 2% F.s.  
 Repeatability: 98 %

**HARDWARE CHARACTERISTICS**

Measurement cell: Open Light in Plexiglas  
 protection IP67  
 Solenoid valve for washing: Separation membrane anti-acid  
 Display: LCD 128 x 240 pixel backlit  
 Keyboard: 6 membrane functioning keys  
 CPU: 8 bit 8Mhz Processor - 128KB Flash – 8KB Ram – 8KB EEprom  
 Archive memory: Flash 512KB serial  
 Calendar: Clock Calendar with Backup Battery.  
 Clock frequency: of 32.768 Khz  
 Serial interface: RS485 galvanically separated  
 Dosing relay: 2 for dosing Free Chlorine  
 1 ON/OFF for dosing Free Chlorine  
 1 for measuring pH

Alarm relay: 1 in Exchange  
 Measuring Enabling: 1 Active Digital Input  
 Connections: Multi-polar Rapid Connectors with IP67 protection  
 1 – 3+PE Male Feeder  
 1 – 6+PE Male Relay Outputs  
 1 – 6+PE Female Feeder  
 Digital + Serial Host  
 Power supply: 85-265Vac 50/60 Hz  
 Absorption: Max 15 VA  
 Level of protection: IP65

# TELEPOOL SE RANGE

Colorimetric control panel

The Telepool Save Energy BIOCIDE Colorimetric Control Unit permits the dosing of biocides as an alternative to Chlorine, such as:

- **OXYGEN**
- **BROMINE**

They guarantee equal performance and characteristics as the Telepool Smart Save Energy, duly configured according to the different distinctive features of the alternative biocides

## TELEPOOL SAVE ENERGY OXYGEN

Version for measuring:

Liquid oxygen, pH, Redox, Conductivity, Temperature.

## TELEPOOL SAVE ENERGY BROMINE

Version for measuring:

Total bromine, pH, Redox, Conductivity and Temperature.



Code	Description
260210044	TELEPOOL SAVE ENERGY OXYGEN + KM + SHUTTLE
260210042	TELEPOOL SAVE ENERGY BROMINE + KM + SHUTTLE
240299259	SHUTTLE SAVE ENERGY



# MODEM FOR TELEPOOL SAVE ENERGY



Remote control of the parameters via the Barchemicals "App"

It permits the control of parameters but does not allow for changes to be made.

App available for Android smartphones, phablets and tablets.

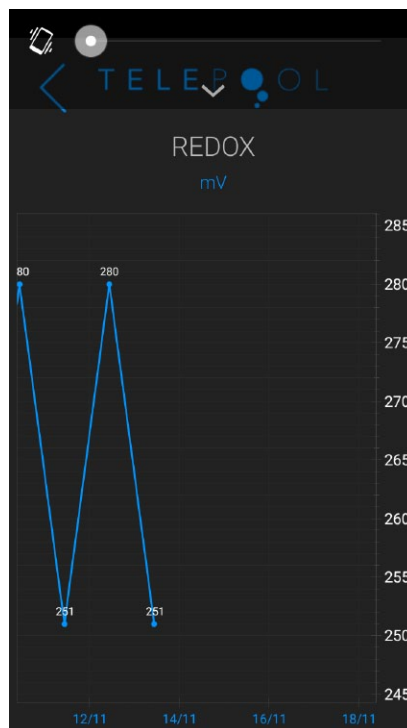
It permits the remote control of Telepool Smart Save Energy by automated sending and receiving of SMS, managed entirely by the App.

It manages both the single plant as well as the multi-plant, controlling more than one swimming pool at the same time (it can manage up to two control units).

It allows for the scheduled reception of data from the control unit and push notifications of current data, as well as the viewing and reporting of alarms.

Detailed graphic viewing of recent levels.

It is currently available in Italian and English.



TELEPOOL

NOME  
 Sample 0

DESCRIZIONE  
 Sample Location

NUMERO TELEFONICO CENTRALINA  
 +0000000

UNIT ID  
 12340

EMAIL  
 test@test.com

Salva Elimina

Code	Description
0123055198	MODEM SMS for Telepool
0123055163	MODEM WEB SERVER FOR TELEPOOL SMART SE SYSTEM (cod 260210040)

# TELEPOOL LC

Colorimetric control panel

**"Basic" colorimetric control unit for controlling chemical and chemical-physical parameters of the water in the swimming pool:**

- Free Chlorine – 2 set points of chlorination
- pH – 1 set point
- Temperature



## SYSTEM PARTS

## SOFTWARE CHARACTERISTICS

### TELEPOOL LC SHUTTLE SYSTEM

#### SHUTTLE SAVE ENERGY

Device combined with the Telepool control unit to export the connections with the power relay on the outside of the control unit.



#### ASSEMBLY KIT



**Measurements: 700X650x300 mm**  
**Weight: 7.5 kg**

### FREE CHLORINE

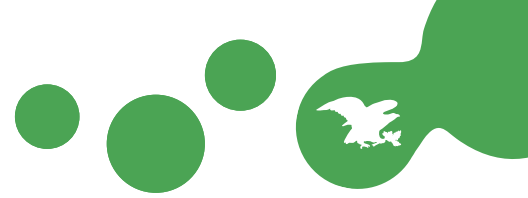
Measurement principle: Photometric Monitoring  
 Absorption peak: 515nm  
 Procedure used: DPD colorimetry  
 Projector: Narrowband LED  
 Sensor: Silicon light sensor  
 Measurement range: 00.00 - 5.00 ppm  
 Free chlorine  
 Resolution: +/- 0.01 ppm Free chlorine  
 Accuracy: +/- 2% F.s.  
 Repeatability: 98 %  
 Set-Point : 3 with Relay outputs

### pH

Measurement principle: Potentiometric  
 Measurement range: 00.00 ÷ 14.00 pH  
 Resolution: ± 0.01 pH  
 Accuracy: ± 0.2% F.s.  
 Repeatability: 98 %  
 Input impedance: > 10 GOhm  
 Polarisation: < 1 pA  
 Set-Point: 1 with Relay output

Code	Description
260250022	TELEPOOL LC + KM* + SHUTTLE
260250021	TELEPOOL LC + SHUTTLE
260210002	TELEPOOL LC
240299259	SHUTTLE SAVE ENERGY

\* KM: Assembly Kit



**Shuttle Save Energy**

Device combined with the Telepool control unit to export the connections with the power relay on the outside of the control unit.



**KM Assembly Kit**

Everything that is required to install the control unit properly. Drainage glass, signal cable, cartridge filter for feeder water, feeder taps on the control unit and socket.



**SOLUZIONE F21**

Detergente e disincrostante concentrato per la pulizia di elettrodi e vetri di strumenti.

**F21** deterge e disincrosta gli elettrodi meccanicamente intatti ripristinandoli alle migliori condizioni d'uso.



**START**

6.5 pH buffer solution to make the Chlorine reading with DPD comply with the official IRSA method. Bottle: 1 L



**DPD 1 A+B**

Reagent for analysing the Chlorine. It is supplied in DRY form. To be dissolved in the connecting thinner. Solution to be prepared on the spot. Bottle: 1 L (1 single-dose powder packet + 1 bott. of solvent)



**DPD 3 A+B**

Reagent for analysing Total and Combined Chlorine. It is supplied in DRY form. To be dissolved in the connecting thinner. Solution to be prepared on the spot. Bottle: 1 L (1 bottle of powder + 1 bott. of solvent)

Code	Description
240299259	SHUTTLE SAVE ENERGY
260208010	KM - Assembly Kit









Code	Description
050502012	START REPLACEMENTS x CENTR. BO 1 L - QUADRA - pack. 4 Bott/11
050502010	DPD1A REPLACEMENTS x CENTR. BO 1 L - QUADRA - pack. 4 Bott/11
050502014	DPD3 REPLACEMENTS x CENTR. BO 1 L - QUADRA - pack. 2 Bott/11
050506002	SOLUTION F 21 BO 1 L - pack. 4 Bott/11

CODICE	DESCRIZIONE	MODELLO TELEPOOL	IMMAGINE
260204056	PH 7 BO 90 ML BUFFER SOLUTION	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	
260204058	PH 9 BO 90 ML BUFFER SOLUTION	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	
260204060	BUFFER SOLUTION REDOX 475 MV - 90 ML BOTTLE	TELEPOOL SMART SAVE ENERGY	

CODICE	DESCRIZIONE	MODELLO TELEPOOL	IMMAGINE
260204052	KIT TUBI PERISTALTICA PER CENTRALINA TELEPOOL	TELEPOOL LC	
260204053	KIT TUBI PERISTALTICA PER CENTRALINA TELEPOOL SES	TELEPOOL SMART SAVE ENERGY	
260299324	TUBICINO COLORIMETRICO 3X6	TELEPOOL LC	
260299325	TUBICINO COLORIMETRICO 4X6	TELEPOOL SMART SAVE ENERGY	
260299359	ELETTRIVALVOLA PER TELEPOOL - 6W GRANDE	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	
260299080	ELETTRODO RX - VETRO - DLG/BNC	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	
260299076	ELETTRODO PH - VETRO - DLG/BNC	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	
260299472	SONDA CONDUCIBILITA' K1	TELEPOOL SMART SAVE ENERGY	
042402004	FILTRO 1/2" - 5"	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	
260299352	CARTUCCIA LAVABILE	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	





CODICE	DESCRIZIONE	MODELLO TELEPOOL	IMMAGINE
260299456	TAPPO CELLA	TELEPOOL LC	
260299458	RACCORDO CAMERA MISURA REAGENTI	TELEPOOL SMART SAVE ENERGY	
166802006	RACCORDO RAPIDO 1/2" PER TUBO 8X12	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	
166802007	RACCORDO RAPIDO 1/4" PER TUBO 8X12	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	
260208008	CONNETTORE 4 POLI CON CAVO	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	
260299344	CAVO SEGNALE	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	
105099022	RUBINETTO MINI 1/2" MF	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	
260288484	PESCANTE PER REATTIVO	TELEPOOL LC TELEPOOL SMART SAVE ENERGY	



# **ELECTROLYSIS LINE**

SALT CHLORINATOR

# BARSALT SALT STERILIZER

Salt chlorinator for family pool

## Salt sterilizer with innovative bipolar electrolysis technology

**BARSALT** uses **SMART POWER® technology**, digital derivation, which allows an optimal regulation of the polarization power of the electrodes, which also have a programmable bipolar function. The technological upgrade involves extreme precision in the control of the working points of the electrodes, generating a significant reduction in the formation of calcareous residues, with a reduction of up to 95% of the activities of cleaning and maintenance of the cells, guaranteeing the latter and the electrodes themselves a longer average life.

- Adjustable production from 0 to 10 with 2 digits display
- SMART POWER® technology offering stable production
- Self-cleaning cells with adjustable polarity reverse from 3 to 9hrs upon water hardness
- Superchloration Mode (BOOST)
- Visual alarms
- Switchable securities: lack of water / low salt / cell defect
- Minimum Salt Rate: 2.5 g/l (5g/l recommended at season beginning)

### SMART POWER® technology

- Innovative Bipolar Cell with a duration of over 16,000 hours
- Small size and low weight
- Structure with anti-corrosion protection
- Up to 60% reduction in electricity consumption
- Compatible with every filtration system and pool up to 150 cubic meters.



Code	Description	Swimming Pool Volume m³	Chlorine Production - g/h
0123055008	BARSALT 150	150	32
0123194100	RCB CELLULA BARSALT 150	-	-
0123194102	RCB INVOLUCRO CELLULA BARSALT 150	-	-

## GRADUATED TANKS

Graduated tanks for chemical products

Graduated tanks for chemical products in polyethylene, designed to allow for a direct use of both vertical and horizontal feeder pumps.



DESCRIPTIVE PHOTO  
Black sleeveless graduated tank

Code	Description
166202019	50 L GRADUATED TANK WITH SAFETY SLEEVE – BLACK - <b>NEW!</b>



# FEED PUMPS

FEED PUMP FOR PUBLIC AND PRIVATE  
SWIMMINGPOOLS AND AQUEDUCT

## ELECTRONIC PUMPS

### ENG 2 ELECTRONIC PUMP

Feed pump for public and private swimming pools

Constant analogical electromagnetic pump with adjustable flow.

Easy installation and minimum maintenance.

Frequency adjustable from 0 to 120 pulses per minute via potentiometer  
ON /OFF Function.

PP case filled with 30% talc.  
Frontal panel in polycarbonate.  
Pump unit with manual bleeding.  
IP 54 Protection.  
230 Vac standard power supply.  
100 % Made in Italy.  
In compliance with CE standards.



Code	Description	L/hour	Bar
061216033	ENG2 Electronic Pump	1.5	12

### ENG ELECTRONIC PUMP O<sub>2</sub> - CL

Feed pump for public and private swimming pools

Constant digital electromagnetic pump with proportional flow to impulses received from an external signal

It can operate in the form of constant flow with regulation of the impulses from 0 to 180 per minute

Function of division of impulses received from the digital signal "1 / n" and multiplication of the impulses from the digital signal "1 x n"

Easy installation and minimum maintenance

Reinforced PP case

Frontal panel in polycarbonate

Segment digital display with stand-by buttons and 5 status LEDs

Pump unit with manual bleeding  
IP 65 Protection

230 Vac standard power supply

100% Made in Italy

In compliance with CE standards

#### Technical Specifications

Pump unit: PVDF 1/2" connections

Balls: Ceramic

Diaphragm: PTFE

Joints: PVDF

Seals: EPDM

Valve case: PP 4 x 6

Mains filter: PP connections 4 x 6 lip valve

Injection valve: PP connections 4 x 6 ball valve

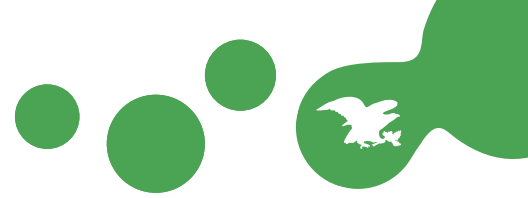
Suction tube: PVC 4 x 6

Inlet tube: PE 4 x 6



Code	Description	L/hour	Bar
061216037	ENG O <sub>2</sub> -CL - Electronic Pump WITH BLEEDING	4	8





## ENG-LI ELECTROMAGNETIC PUMP

Feed pump for public and private swimming pools

Constant digital electromagnetic pump with proportional flow to impulses received from an external signal. It can operate in the form of constant flow with regulation of the impulses from 1 to 180 per minute. Function of division of impulses received from the digital signal "1 / n" and multiplication of the impulses from the digital signal "1 x n". Easy and minimum maintenance. PP case filled with 30% talc.

Frontal panel in polycarbonate. Segment digital display with stand-by buttons and 5 status led. Pump unit with manual bleeding. **Appropriate also for gas developing products**. IP 65 Protection. 230 Vac standard power supply. 100 % Made in Italy. In compliance with CE standards.



Code	Description	L/hour	Bar
061222050	ENG-LI Electromagnetic Pump	1.5	12

## RT 12 V PUMP

Feed pump for public and private swimming pools

Led to indicate electricity supply.  
Led to indicate alarm.  
Led to indicate impulse.  
LCD Display.  
Digital adjustment of the flow.

Start / Stop key to start and stop dosing.  
IP65 polypropylene box.



Code	Description	L/hour	Bar
302148008	RT 12 V Pump	5	7

## RT 230 V PUMP

Feed pump for public and private swimming pools

Led to indicate electricity supply.  
 Led to indicate alarm.  
 Led to indicate impulse.  
 LCD Display.  
 Digital adjustment of the flow.

Start / Stop key to start and stop dosing.  
 IP65 polypropylene box.



Code	Description	L/hour	Bar
302148010	RT 230 V Pump	5	7
302148012	RT 230 V Pump	10	10

## PNEUMATIC PUMPS

### FJ 3/8 PNEUMATIC PUMP

Feed pump for public and private swimming pools

Feed pump for solutions containing main drain and abrasive elements.

Flow rate: from 50 L/hr up to 1200 L/hr with pressure delta 6 atmospheres  
 Viton membrane.



Code	Description	L/hour	Bar
061402003	FJ 3/8 Pneumatic Pump	50 / 1,200	-
061499122	AIR REGULATION UNIT	-	-



## MECHANICAL PUMPS

### MEMBRANE DOSING PUMP ENG - EM

Feed pump for public and private swimming pools

Flow rate: 10 ÷ 90 l / h  
 Maximum pressure: 5 bar  
 Motor: 0.06 kW - 3ph (IP55)  
 0.06 kW - 1ph (IP55)  
 Frequency from 26 to 144 rpm  
 Diaphragm diameter 70 mm  
 Pump head: SS 316 PVDF  
 Maximum temperature: SS 316 40°C  
 PVDF 40°C  
 Ambient dosage temperature  
 +5 ÷ +45 °C

Storage temperature -10 ÷ +50 °C  
 Small size - to facilitate installation  
 Rugged plastic outer housing - ensures ease of installation and durability  
 Simple yet robust construction - providing ideal value for money  
 0.06 kw high efficiency motor with high flow rate 10-90 l / h



Code	Description	Lt/hour	Bar
061220066	POMPA DOS. MEMB. 90L/H-5 BAR - ENG-EM	10-90	5

## PERISTALTIC PUMPS

### ENG OXI PERISTALTIC PUMP

Feed pump for public and private swimming pools

Digital peristaltic pump and proportional dosage.  
 Suitable for products based on hydrogen peroxide  
 Definition of plant's starting time.  
 Indication of the pool's size settable by the operator.  
 Proportional dosage to two parameters: work time / cubic metres of the swimming pool.  
 Instant display of residual dosage time.  
 Easy and minimum maintenance.

PP case filled with 30% talc.  
 Frontal panel in polycarbonate.  
 Segment digital display with stand-by buttons and 5 status led.  
 Consensus for electronic dose received in parallel to the circulation plant.  
 Arrangement for level probe as an alternative to the overdosing alarm.  
 IP 65 Protection.  
 230 Vac standard power supply.  
 100% Made in Italy.  
 In compliance with CE standards.



Code	Description	L/hour	Bar
061216058	ENG-OXI 230V Peristaltic Pump	1.5	1

## PERISTALTIC PUMP JK 1.8 L / H - VARIABLE ADJUSTMENT

Variable speed 10 ÷ 100%  
 Suitable for viscous liquids  
 Long tube life  
 Wall fixing by means of a quick coupling bracket  
 IP65 fireproof and antacid container  
 Fully protected ON/OFF switch

Possibility of customization on request  
 High working pressure  
 Silicone tube replaceable without tools  
 Variable flow rate 0 ÷ 1 l / h  
 Pressure 3 bar



Code	Description	Lt/hour	Bar
335220020	POMPA PERISTALTICA JK 1.8 L/H - REGOLAZIONE VARIABILE	0÷1	3

## PUMP TOOL PERISTALTIC ENG P - pH / REDOX

Feed pump for public and private swimming pools

Digital peristaltic pump with integrated pH/Redox tool.  
 Choice of kind of pH or mV control (Redox) settable using software.  
 3 possible kinds of functioning: constant, ON/OFF, proportional.  
 Menu in a selection of 4 languages: Italian, English, French and Spanish.  
 Overdosing temporal alarm programmable for the duration.  
 Programmable delayed start.  
 8 x 2 backlit digital display.

Status alarm led and programming.  
 Glass filled PP case for an adequate chemical resistance.  
 IP 65 Protection.  
 Over and under measurement range signal.  
 Flow signal in instantaneous %.  
 MADE IN ITALY.  
 100% tested prior to shipment.  
 In compliance with CE standards.  
 230vac 50-60 Hz standard power supply.



Code	Description	L/hour	Bar
061216065	ENG P - pH Peristaltic Tool Pump - Probe Included	6	1
061216067	ENG P - REDOX Peristaltic Tool Pump - Probe Included	6	1

## ENG CHRONO PERISTALTIC PUMP

Feed pump for public and private swimming pools

Pump with programmable monthly or daily timer for feeding biocide products (Biozono Ag+, Biosan, Biochlor).



Code	Description	L/hour	Bar
061216074	ENG CHRONO PERISTALTIC PUMP	5.4	1



# UV-C NANOTECH LINE

UV LAMP STERILIZERS

# UV-C NANOTECH LINE

UV lamp Sterilizers

NEW!



SEA WATER OZONE



SEA WATER OZONE PLUS

The main characteristic of the UV-C NANOTECH Line is to work directly on two wave lengths:

**Wave length of 185 nanometres, able to destroy organic and halo-derivative compounds that are a health hazard, such as: Chloroamines and THM (trihalomethanes) and other derivative compounds of suspected toxicity for human health.**

**Wave length of 253.7 nanometres capable of killing bacteria and viruses thereby disinfecting the water.**

The UV-C NANOTECH OZONE combines the contemporary production of Ozone with these characteristics.

The technology of titanium nanotechnology applied to the inside of the container amplifies the ultraviolet light effect increasing its efficiency by more than 80%.

The line of UV-C NANOTECH systems includes a patented system for continual chemical cleaning of quartz pipes, thus constantly ensuring the utmost efficiency of the system.

The use of amalgam and low pressure UV lamps ensures their efficiency and a life of over 16,000 working hours

The high density Polyethylene tube and the passivated aluminium head ensure the maximum durability against any type of corrosion and tightness up to 10 Atm.

The lamp's electronic control system enables obtaining the greatest performance and minimum energy consumption for the same installed power.

Continuous monitoring of the efficiency of the lamps warns us when the system's performance is reduced. performance reduction. The use of flow control prevents unnecessary overheating.

The combination of the UV-C NANOTECH system and the TELEPOOL SAVE ENERGY SYSTEM for monitoring and remote control of the main parameters of the treated water enables coordinating and maximizing the results when the water treatment requires simultaneous use of UV radiation and other chemical treatments: it optimizes consumption, increases the efficiency of the system keeping it continually monitored (with multi-parameter recording), with the possibility of remote control and alarms in real time (SMS or WEBSERVER).



## FIELDS OF USE OF UV-C NANOTECH LAMPS

UV-C rays are employed in many different fields, in particular, to mention the main ones:

**Treatment of drinking water:** disinfection and elimination of complex molecules

**Treatment of tap water:** disinfection and elimination of Legionella

**Treatment of swimming pool water:** disinfection and elimination of Combined Chlorine and THM

**Treatment of process water:** disinfection and elimination of complex molecules

**Treatment of SPA water:** disinfection and elimination of complex molecules

**Treatment of sea water:** disinfection and elimination of complex molecules

**Treatment of waste water:** disinfection and elimination of bad smells

**Treatment of air:** disinfection and elimination of complex molecules and odours

Code	Description
0123068044	TUBE UV-C 2- 80 W - SEA WATER OZONE
0123068046	TUBE UV-C 3- 360 W - SEA WATER OZONE
0123068050	TUBE UV-C 5- 600 W - SEA WATER OZONE

Code	Description
0123068036	TUBE UV-C 3- 360 W - SEA WATER OZONE PLUS
0123068040	TUBE UV-C 5- 600 W - SEA WATER OZONE PLUS

## UV-C NANOTECH AND COMBINED SYSTEMS

The use of UV-C radiation for treating water and air lends itself to combined systems where the synergistic action of the UV-C radiation and other disinfectants enables obtaining extraordinary and eco-compatible results, such as:

Water treated with UV-C rays and disinfection with a daily addition of small doses of products that prolong the effect of the UV rays (UV + OXYGEN) guarantee healthy, clear, and crystalline water without causing damage to the skin, hair, mucosa or eyes; this combined action makes swimming extremely pleasant.

The great benefits of using UV-C rays can be summed up as follows:

- Considerable respect for the environment with the use of C-type ultraviolet rays with physical and persistent action, no toxic residue for nature and human beings
- No risk of allergies
- No corrosion and no smell
- Compatible with most coverings and materials.
- Easy, rapid installation
- Reliability
- Cost-effective treatments



TUBE UV-C 2 80W

## UV-C 2 - 80 W SEA WATER OZONE TECHNICAL DATA

Parametro	UdM	Ozone
Materiale tubo	/	HDPE
Ø tubo/H tubo	mm	125/500
Ø tubo inlet/outlet	mm	63
Qtot*	m <sup>3</sup> /h	max 35
P max di esercizio	bar	10
Ø est/int quarzo	mm	28/25
L quarzo	mm	486
P elettrica/UV singola lampada	W	21/8
Nr. Lampade	nr.	2
P totale	W	80
Ø lampada	mm	15
Lunghezza d'onda	nm	185 254
Tempo vita lampada	ore	9.000
Dimensioni quadro elettrico	mm	240x185x100

## UV-C 3 - 360 W SEA WATER OZONE / OZONE PLUS TECHNICAL DATA

Parametro	UdM	Ozone	Ozone Plus
Materiale tubo	/	HDPE	HDPE
Ø tubo/H tubo	mm	160/950	160/950
Ø tubo inlet/outlet	mm	75	75
Qtot*	m <sup>3</sup> /h	max 75	max 75
P max di esercizio	bar	10	10
Ø est/int quarzo	mm	28	28/25
L quarzo	mm	912,5	965
Ricircolo ozono	/	No	Si
P elettrica/UV singola lampada	W	130/40	130/40
Nr. Lampade	nr.	3	3
P totale	W	360	360
Ø lampada	mm	15	15
Lunghezza d'onda	nm	185 254	185 254
Tempo vita lampada	ore	16.000	16.000
Dimensioni quadro elettrico	mm	600x400x100	600x400x100



## UV-C 5 - 600 W SEA WATER OZONE / OZONE PLUS TECHNICAL DATA

Parametro	UdM	Ozone	Ozone Plus
Materiale tubo	/	HDPE	HDPE
Ø tubo/H tubo	mm	200/950	200/950
Ø tubo inlet/outlet	mm	75	75
Qtot*	m <sup>3</sup> /h	max 125	max 125
P max di esercizio	bar	10	10
Ø est/int quarzo	mm	28	28/25
L quarzo	mm	912,5	965
Ricircolo ozono	/	No	Si
P elettrica/UV singola lampada	W	130/40	130/40
Nr. Lampade	nr.	5	5
P totale	W	650	650
Ø lampada	mm	15	15
Lunghezza d'onda	nm	185 254	185 254
Tempo vita lampada	ore	16.000	16.000
Dimensioni quadro elettrico	mm	600x400x100	600x400x100

\* in clear water conditions, in the absence of turbidity and / or suspensions

## DECLARATIONS OF CONFORMITY

### EC STATEMENT OF COMPLIANCE



Producer: **Engineering Corporation srl**

Address: **Via Allende, 14 – 41051 Castelnuovo Rangone (MO) ITALY**

Hereby states that the device known as:

**MODEL: TUBO UV – C 5 – 600 W – SEA WATER OZONE**

meets the essential requirements of the Ministerial Decree 25/12 – Technical provisions concerning drinking water treatment equipment; D.M. 174 dated 03 April 2004 – Materials and objects that can be used in fixed collection, treatment, adduction and distribution systems for water intended for human consumption; Legislative Decree nr. 31/2001 – "Implementation of Directive 98/83/EC relating to the quality of water intended for human consumption"; 89/336/EEC – Approximation of the laws of the Member States relating to electromagnetic compatibility; Law 791/97, Community Directive 73/23/EEC and amendment 93/68/EEC; UNI EN ISO 12100-1:2005 and UNI EN ISO 12100-2:2005; For electrical equipment the appliance complies with EN 61439-1-2 (CEI 17-113 / 114) – Standards for electrical equipment; CEI 64-8/7; EN 50081-50082 - Electromagnetic compatibility.

Castelnuovo Rangone 26/09/2018

ENGINEERING CORPORATION S.R.L.  
*Barani Dr. Corrado*  
 (Responsabile Tecnico Engineering Corporation srl)  
**BARANI DR CORRADO**

**EC STATEMENT OF COMPLIANCE**



Producer: **Engineering Corporation srl**  
 Address: **Via Allende, 14 – 41051 Castelnovo Rangone (MO) ITALY**

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Castelnovo Rangone 26/09/2018

ENGINEERING CORPORATION S.r.l.  
 (Responsible Tecnico Engineering Corporation srl)  
**BARANI DR CORRADO**

**EC STATEMENT OF COMPLIANCE**



Producer: **Engineering Corporation srl**  
 Address: **Via Allende, 14 – 41051 Castelnovo Rangone (MO) ITALY**

Hereby states that the device known as:

**MODEL: TUBO UV – C 3 – 360 W – SEA WATER OZONE PLUS**

meets the essential requirements of the Ministerial Decree 25/12 – Technical provisions concerning drinking water treatment equipment; D.M. 174 dated 03 April 2004 – Materials and objects that can be used in fixed collection, treatment, adduction and distribution systems for water intended for human consumption; Legislative Decree nr. 31/2001 – "Implementation of Directive 98/83/EC relating to the quality of water intended for human consumption"; 89/336/EEC – Approximation of the laws of the Member States relating to electromagnetic compatibility; Law 791/97; Community Directive 73/23/EEC and amendment 93/68/EEC; UNI EN ISO 12100-1:2005 and UNI EN ISO 12100-2:2005; For electrical equipment the appliance complies with EN 61439.1-2 (CEI 17-113 / 114) – Standards for electrical equipment; CEI 64-8/7; EN 50081-50082 - Electromagnetic compatibility.

Castelnovo Rangone 26/09/2018

ENGINEERING CORPORATION S.r.l.  
 (Responsible Tecnico Engineering Corporation srl)  
**BARANI DR CORRADO**

**EC STATEMENT OF COMPLIANCE**



Producer: **Engineering Corporation srl**  
 Address: **Via Allende, 14 – 41061 Castelnovo Rangone (MO) ITALY**

Hereby states that the device known as:

**MODEL: TUBO UV – C 3 – 360 W – SEA WATER OZONE**

meets the essential requirements of the Ministerial Decree 25/12 – Technical provisions concerning drinking water treatment equipment; D.M. 174 dated 03 April 2004 – Materials and objects that can be used in fixed collection, treatment, adduction and distribution systems for water intended for human consumption; Legislative Decree nr. 31/2001 – "Implementation of Directive 98/83/EC relating to the quality of water intended for human consumption"; 89/336/EEC – Approximation of the laws of the Member States relating to electromagnetic compatibility; Law 791/97; Community Directive 73/23/EEC and amendment 93/68/EEC; UNI EN ISO 12100-1:2005 and UNI EN ISO 12100-2:2005; For electrical equipment the appliance complies with EN 61439.1-2 (CEI 17-113 / 114) – Standards for electrical equipment; CEI 64-8/7; EN 50081-50082 - Electromagnetic compatibility.

Castelnovo Rangone 26/09/2018

ENGINEERING CORPORATION S.r.l.  
 (Responsible Tecnico Engineering Corporation srl)  
**BARANI DR CORRADO**

**EC STATEMENT OF COMPLIANCE**



Producer: **Engineering Corporation srl**  
 Address: **Via Allende, 14 – 41051 Castelnovo Rangone (MO) ITALY**

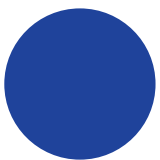
Hereby states that the device known as:

**MODEL: TUBO UV – C 2 – 40 W – SEA WATER OZONE**

meets the essential requirements of the Ministerial Decree 25/12 – Technical provisions concerning drinking water treatment equipment; D.M. 174 dated 03 April 2004 – Materials and objects that can be used in fixed collection, treatment, adduction and distribution systems for water intended for human consumption; Legislative Decree nr. 31/2001 – "Implementation of Directive 98/83/EC relating to the quality of water intended for human consumption"; 89/336/EEC – Approximation of the laws of the Member States relating to electromagnetic compatibility; Law 791/97; Community Directive 73/23/EEC and amendment 93/68/EEC; UNI EN ISO 12100-1:2005 and UNI EN ISO 12100-2:2005; For electrical equipment the appliance complies with EN 61439.1-2 (CEI 17-113 / 114) – Standards for electrical equipment; CEI 64-8/7; EN 50081-50082 - Electromagnetic compatibility.

Castelnovo Rangone 26/09/2018

ENGINEERING CORPORATION S.r.l.  
 (Responsible Tecnico Engineering Corporation srl)  
**BARANI DR CORRADO**



# LEGIONELLA

DOSING SYSTEMS FOR TREATMENT AND  
PREVENTION

# LEGIONELLA

## THE BARCHEMICALS SOLUTION

Legionella is a gram negative aerobe bacteria belonging to the Legionellales family. More than 50 species, subdivided into 71 serogroups, have been found. The most dangerous one is Legionella pneumophila, which has been linked to around 90% of cases of Legionnaires' disease.

### WHERE CAN IT BE FOUND?

It can be found in both natural and artificial aquatic environments such as: springs, rivers, lakes, steam and damp places in general. Following natural trails, it reaches human and community environments such as domestic water circuits, spa pools, moist air conditioning circuits, piping, tanks, fountains and industrial cooling towers.

It reproduces at a temperature of between 20-60°C and resists up to 65°C. While Legionella can be revived in free floating water, it prefers the biofilm. It is also linked to other factors such as stagnation conditions and the presence of scalings and amoebas.

### WHAT SYMPTOMS CAN IT PRODUCE?

Transmission can show itself in two different medical cases; the first is an acute form that is not particularly serious with fever (Pontiac fever) and a pulmonary form known as Legionnaires diseases which is particularly serious and with a 10% mortality rate which can rise to 50% in the case of hospital infections.

Legionella reproduces at a temperature of between 20-60°C



### WHAT IS THE RISK OF GETTING INFECTED?

The infection is a regular event; approx. 10% of the population has the antibodies for the most commonly found strains in the environment, but thankfully the appearance of the illness is rare.

The epidemiological data from the last few years shows a net increase in cases, though it should be pointed out that this increase is due to better organisation and efficiency of watchdog bodies. Over the last five years in Italy, the cases recorded and published by the Greater Health Board were certified at an average of eight hundred per year. The illness is lethal in 5-15% of cases.

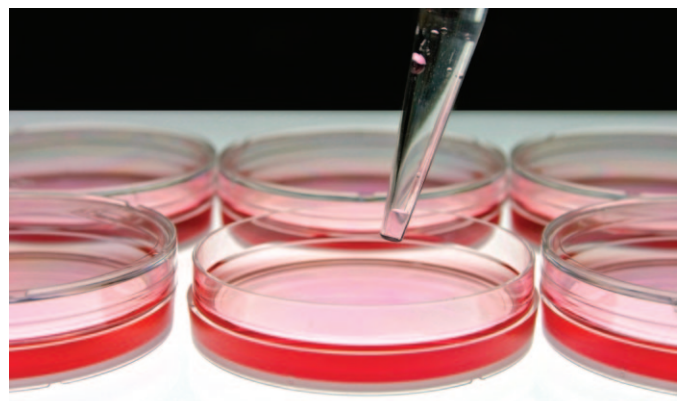
### WHO IS MORE AT RISK?

The recognised risk factors are represented by age with a significant increase around 60 and by chronic degenerative diseases (diabetes, bronchitis), as well as the male gender, smoking and immunodeficiency.

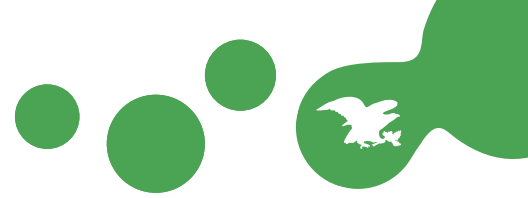
### WHERE IS THE HIGHEST RISK OF CONTAMINATION?

The greatest risk factor comes from the inhalation of aerosol contaminated water particles. So, inhalation plants, showers and hot tubs can be a means of infection.

In recent times, there has been a significant increase in cases of dental patients becoming infected: the phenomena has been associated with the use of high pressure water.







To provide a complete overview of information, it should be pointed out that subclinical forms of Legionnaires' disease have been identified through the specific antibody solution.

## SPECIFIC PRODUCTS FOR THE TREATMENT AND PREVENTION

### SANITARY HOT WATER CIRCUITS AND DRINKING WATERS

Hot sanitary water is certainly one of the circuits most likely to be receptacle and area of development of Legionella Pneumophila colonies.

Elements such as: Temperatures ranging from 20 to 60 ° C, the presence of accumulation points such as boilers or poorly used branches of the circuit, and above all the presence of calcareous encrustations alternated with organic mucilaginous deposits, are the ideal place for the development of Legionella.

The arrival of these bacterial colonies through the shower, which atomises the water itself, exposes people to a very high risk of contagion.

The philosophy of Barchemicals Treatment starts from the premise that first of all it is necessary to eliminate the areas where the Legionella tends to "hide" and proliferate. For this reason, the Barchemicals Treatment provides, in addition to the use of Biocides (Biochlor or Biozono Ag+), also the use of products to prevent or remove mixed, inorganic and organic incrustations.

Finally, the combined use of the Smart Medical System apparatus, thanks to the catalytic action of the reactor in which the biocides are injected, enhances and amplifies the disinfecting power of these last ones.

## DOSING SYSTEMS

### SMART MEDICAL SYSTEM

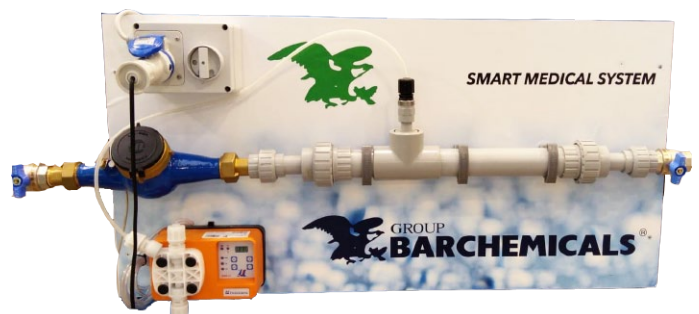
#### Continuous prevention

An aid to the Legionella prevention and control programme. Continuous dosing systems developed in accordance with the MIN. OF HEALTH DECREE OF 7 February 2012. The devices are supplied through rental and assistance agreements.

#### SMART MEDICAL SYSTEM

Special equipment for the proportional dosing of disinfecting agents such as BIOZONO Ag+ or BIOCHLOR.

BIOVITRUM Ag+ and its catalytic action boost the disinfecting action of the active ingredient. Easy to install and user friendly.



Code	Description
280202006	SMART MEDICAL SYSTEM - 1" for the microdosing of Anti Legionella biocides (Biozono Ag+ DL / Biozono Ag+ DL P / Biochlor)



## GRADUATED TANKS

Graduated tanks for chemical products

Graduated tanks for chemical products in polyethylene, designed to allow for a direct use of both vertical and horizontal feeder pumps.



DESCRIPTIVE PHOTO  
Black sleeveless graduated tank

Code	Description
166202019	50 L GRADUATED TANK WITH SAFETY SLEEVE – BLACK - <b>NEW!</b>

## ENG CHRONO PERISTALTIC PUMP

Pump with programmable monthly or daily timer for feeding biocide products (Biozono Ag+DL, Biozono Ag+ DL P , Biosan DL, Biochlor).



Code	Description	L/hour	Bar
061216074	ENG CHRONO PERISTALTIC PUMP	5.4	1



## GENERAL SALES CONDITIONS

Pursuant to Art. 1469 bis c.c., the parties, after ample discussion and negotiations, declare to regulate the ongoing rapport as in the past according to the following terms and conditions, which will be applied equally to all supplies and/or commercial interaction entered into between the parties in the future.

**1. ORDERS - BUYER INSOLVENCY** – 1.1.) The purchaser's order has the value of an irrevocable purchase offer and is not binding for the seller, which reserves the right to accept it in writing directly or through a legal representative. The sales agreement will be considered fulfilled only upon receipt by the purchaser of the order confirmation by the seller's legal representative. 1.2) Upon the seller's acceptance of the order, the agreement is considered closed and, in the event that the goods are not collected, the purchaser will be considered insolvent and, as a result, will be liable to pay a fee equal to 50% the amount of the invoice, without prejudice to greater damages. The agreement will be considered fulfilled even in the event of partial acceptance of the order, so that the failed collection of the goods will entitle the seller to demand the fee described in the above paragraph, to be calculated on the lower amount of the invoice. 1.3) Any specific agreement relative to the supply mentioned in this order and under the terms of delivery, even if with the participation of agents or those appointed by the seller, cannot bind the latter unless expressly accepted in writing by their legal representative. 1.4) The total and/or partial fulfilment of the order by the seller implies acceptance of the order. 1.5) The purchaser has absolutely no right to withdraw unilaterally from the order or contract. 1.6) If, once the order has been confirmed, the seller becomes aware of unpaid bills, confiscations, restraint orders or any judicial acts in general in the name of the purchaser, or if the seller learns that the purchaser is in financial difficulty, the seller can, if they wish, suspend the contract and demand certain guarantees, or dissolve the contract due to its breach by the purchaser, under art. 1456 of the civil code, communicating this in writing with return receipt or telegram. The exercise of this faculty does not give the purchaser any right to claim reimbursement of damages or other. 1.7) The minimum order accepted is of € 250.00 + V.A.T.

**2. PRICES AND PAYMENTS** – 2.1.) The sales price, where unspecified, is the one found in the seller's price list in vigour on the date the contract is finalised. 2.2) Should the purchaser fail to receive the products when they are ready for delivery, or their preparation and delivery were not possible for reasons of no fault of the seller, the prices, if not already foreseen in the order, will be subject to variations in the seller's price list and, in any case, to the variation of the cost of material and manual labour used from the time the goods have been prepared up until the moment of collection by the buyer or acceptance of the delivery. 2.3) Taxes, duties and expenses relative to the emission of bills of exchange or any regularisation of the contract, are at the purchaser's expense. 2.4) Payments must always be made in accordance with the terms and conditions agreed upon, in Euro, in cash and at the seller's headquarters. It is at the seller's discretion whether or not to accept promissory notes and cheques, or authorise drafts or issue bank receipts. This, however, does not bring about under any circumstances, either novation of the original credit, nor any prejudices towards any title retention agreement, nor territorial change in the event of a legal dispute. 2.5) Payments made to seller's agents will not be accepted unless previously authorised by the seller in writing. 2.6) Late payment sees interest mature at a rate foreseen under art. 5 of the Legislative Decree 231/2002 effective pursuant to art. 4 of the same Leg. Decree. 2.7) Any amounts unpaid by the purchaser authorise the seller to instruct immediately a legal representative to proceed to the collection of the outstanding balance, plus legal fees.

**3. DELIVERY** – 3.1.) The delivery terms are indicative and apply from the moment when all the points in the contract have been supplied and defined irrevocably, provided that the purchaser has punctually paid the instalments due. 3.2) If there are any outstanding payments, even ones relating to previous supplies, the seller has the right to suspend the implementation of the contract until payment has been made and sufficient guarantee has been given on payments due. 3.3) Delivery is carried out on weekdays and can be sufficiently postponed due to events beyond the seller's control such as strikes, trade union action, lockouts, fires, flooding, rejection of material or work, delayed delivery by third party suppliers, lack of driving force and other unforeseen events. Whatever the situation, delays caused in delivery cannot lead to any form of legal claim. 3.4) The seller has the right to make partial deliveries. 3.5) Delivery is regarded as having been completed in all its terms at the seller's headquarters on the twentieth day after delivery of the return receipt in which the seller notifies the purchaser that the products are ready. From that moment onwards, all risks to the goods become the responsibility of the purchaser and they will also be charged for storage, safekeeping, maintenance and insurance. After twenty days have elapsed since delivery of the above mentioned return receipt and if the client has not picked up the products, or the seller has been unable to deliver them, the seller has the right to sell the goods at the purchaser's expense, under art 1515 of the Civil Code.

**4. CHANGES TO THE PRODUCTS** – 4.1.) All the data and characteristics contained in the seller's catalogues, price lists, illustrations, drawings, offers and advertising material in general are entirely approximate and do not bind the seller in any way. All the photographs that appear in the catalogue are only explanatory and so no compensation will be paid for delivered material that is different from the images. 4.2) The seller reserves the right to make changes to the products where necessary, without any obligation to warn the purchaser, as long as the product's functions remain the same. 4.3) After the order has been placed, the seller is not obliged to make any changes to goods already produced, or in the course of production, that are destined for the purchaser.

**5. PROHIBITED ACTION** – 5.1.) Under no condition can the purchaser take legal action against the seller unless all the payments foreseen in the contract have been met. 5.2) From the outset, the purchaser hereby declares that no request for damages or expenses incurred from improper use of the goods, or damage that occurred during the period of time they were waiting for an authorised replacement of the goods, for the goods themselves or for their replacement, can be made.

**6. SHIPPING AND LOGISTICS** – 6.1.) Goods travel at the purchaser's risk. 6.2) Goods are intended always as sold at the seller's facility and delivered via a customer's means of transport or appointed courier. Any search for a means of transport undertaken by the seller is meant to be on behalf and in the interest of the purchaser, with no liability and/or cost for the seller. Any inclusion in the sales price of transport costs or the agreement "collection at source" does not constitute an exception to this clause. Any losses, faults, alterations of the goods and packaging for any reason are the responsibility of the customer, including in the event that, upon the logistics operator's request, the seller has to issue warranty statements. 6.3) The customer may not refuse to release the goods in transit for any reason. 6.4) When the purchaser does not specify the transport means in time, this will be selected by the seller without any responsibility being incurred by the latter. 6.5) Any delivery carried out by the purchaser for contested goods, to be replaced on prior authorisation, must be done carriage free to the seller's factory and where the contrary occurs, the

seller will have the right to refuse reception with no responsibility incurred.

**7. TESTS - PRODUCT FAULTS – WARRANTY – 7.1.)** The purchaser will be responsible for any damage or harm to the seller's testers or third-parties, while tests are being carried out, unless testing is carried out at the seller's factory. 7.2) The test will be carried out on delivery; if it should be delayed due to the fault of the purchaser, the subsequent test will have to be paid for in advance covering travel, labour and transfer costs. On completion of the test, the purchaser is obliged to issue the seller with a written declaration showing the results obtained. In the absence of this declaration, the goods sold will be regarded as having been accepted unconditionally and without reserve. 7.3) If the goods do not have to be subject to testing, when the goods are delivered, the purchaser will have to diligently check that there are no faults. 7.4) Any faults should be reported to the seller via registered mail with return receipt within eight days, which start from a) when the test is carried out; b) if no test has to be carried out, from the delivery date; c) if they are faults that were not detectable at the moment of testing or when the above mentioned checks were run, from the moment they are discovered. Failure to comply with the above mentioned terms will result in the warranty becoming null and void. 7.5) All the seller's products are guaranteed free from manufacturing faults, according to current European and Italian regulations, or according to the additional warranties acknowledged by the producer. The seller's product warranty includes only and exclusively the repair or replacement of faulty parts at the seller's factory, without granting any refunds or other expenses; the warranty becomes null if the faults are found to be due improper use of the goods, or if the seller's products have been handled, repaired or altered outside the seller's factory, or if they have been installed with materials or procedures that do not comply with REGULATIONS. 7.6) The party that declares the existence of a factory fault will have to provide proof that the product has been used properly and, in this case, that it has been correctly installed. 7.7) The cost of replacement and re-sending of faulty material will be at the purchaser's expense. 7.8) It is understood by the parties that in any case the communication of faults of the seller's products do not authorise in any way the purchaser to suspend payment of the seller's invoices.

**8. TITLE RETENTION AGREEMENT – 8.1.)** In the case of a hire purchase sale, the goods will remain the property of the seller until the purchaser has completed all the payments and will be able to be claimed wherever it may be, even if it is combined with other goods belonging to the purchaser or third parties, in compliance with art. 1523 and subsequent amendments to the civil code. 8.2) During the said period, the purchaser shall assume the obligations and responsibilities of keeper of the items supplied, and shall not be entitled to transfer, lend, pledge or move them, or allow them to be confiscated or distrained, without declaring that they are the property of the vendor and without immediately notifying the vendor by registered letter with return receipt.

**9. NON FULFILMENT BY PURCHASER - DISSOLUTION OF THE CONTRACT – 9.1.)** Failure to make two payments, even if not consecutively, of the price agreed at the time established, will lead to the purchaser forfeiting the benefit of the term and the seller exercising the right to suspend all deliveries not yet completed and/or take measures to obtain the entire outstanding sum, or the dissolution of the agreement and/or of any other sales agreement in force between the parties, under art. 1456 of the civil code, to be notified in writing via registered letter with return receipt. 9.2) Under the second hypothesis, the purchaser will need to immediately return the goods, and will have to pay a penalty of €50 per day for each day of delay in returning the goods. 9.3) The compensation for the greater damage is without prejudice and the seller will also be entitled to withhold the payments already made as a form of compensation, with the exception of larger damages incurred.

**10. TRANSFER OF CREDIT – 10.1.)** The purchaser declares that they accept from the outset, under art. 1264 of the civil code, any transfer of credit owed by the seller to the factoring agency or similar, expressly exonerating them from any other burden of notification, except to confirm that transfer has occurred, via registered letter with return receipt.

**11. COMPLAINTS - COMMUNICATION – 11.1.)** Any complaints must be made at the seller's headquarters. For the purposes of the order and subsequent contract, the purchaser declares their residence at the address shown on the front cover of the order itself and all communication will be sent to this address, or to a different legal headquarters, at the seller's discretion. 11.2) In any case, the purchaser will have to communicate to the seller any other change of contact details and addresses within 15 days of the change.

**12. APPLICABLE LAW AND COMPETENT COURT OF JURISDICTION – 12.1.)** Regardless of the purchaser's nationality and residency, this agreement is subject to the jurisdiction of the Italian Judge. 12.2) The sole competent authority in the event of any dispute shall be the Justice of the Peace or the Court of Modena, according to value. 12.3) It will, however, be the seller's right to elect of their choice, other legally recognised, competent Forums.

**13. PERSONAL DATA HANDLING – 13.1.)** Pursuant to Art. 10 of law No. 675 of 31/12/1996, your personal data may be subject to handling, meaning the collection, entering, organisation, storage, processing, modification, selection, extraction, comparison, use, interconnection, block, communication, distribution, deletion and destruction or any combination of two or more of the above. 13.2) These personal data will be handled for the following purposes: Administration, accounting, taxation, statistics, commercial, marketing, protection/management/transfer of credit, and to meet all requirements of the regulations in force and for the financial evaluation related to the proper fulfilment of the agreement. 13.3) Personal data will be handled with tools that ensure their safety and confidentiality, either in hard copy or digital format. Please be informed that with reference to the above mentioned handling, you are entitled to exercise the rights described in Art. 13 of law No. 675/96 as follows. 13.4) Your data may be communicated and distributed to the following: § Sales agents, suppliers, customers, couriers and logistics operators, collaborators, commercial and marketing companies and organisations; § Credit institutions, financing institutions, leasing companies, credit collectors, factoring companies, insurance companies, intermediation companies; § Professional firms (legal and commercial), organizations of consulting processing, statistics company; § Our subsidiary, partner or companies associated in any way. 13.5) The personal data may be communicated and Transferred even abroad, in accordance with the provisions of the law. 13.6) The company declares to have viewed the information contained herein and in Art. 13 of law No. 675/96 and to express its consent to the handling of personal data for the purposes indicated in the same. 13.7) It also declares to express its consent to the communication and distribution of data for the purposes described above, including for the commercial and marketing purposes of undetermined parties.









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