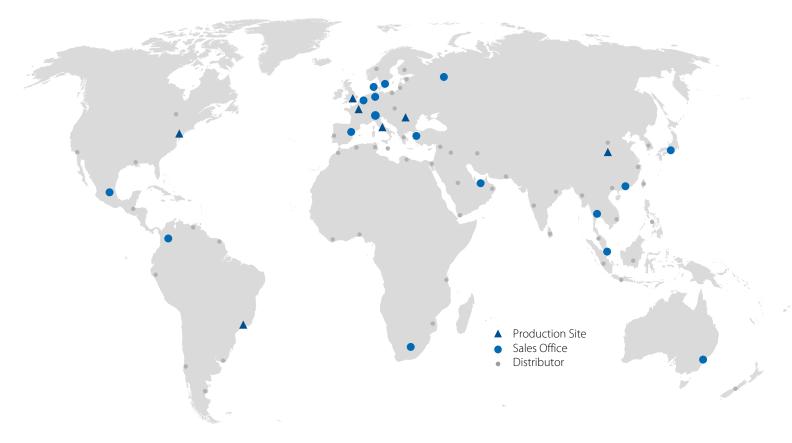


# Solutions for **Laundry**



Your Choice, Our Commitment





## **SEKO**

## Globally Present, Locally Active

### A Worldwide Group at your service

Our Global presence ensures that we can support our Customers wherever they are. Supported by teams in over 20 countries, as well as by our accredited Partner Distributor network, we ensure professional, local customer support in over 120 countries, with the added benefit of rapid delivery of goods to meet your needs.

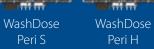
All this backed up and supported by a world-class team of Technical Customer Service, able to provide all the back up or technical support needed. With ISO certificated production sites in Europe, the Americas and Asia, we are close to our customers and fully compliant with all local norms both in terms of our product designs as much as our production facilities.

## Laundry Product Overview











WashMulti Solenoid

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WashMulti Peri



WashMulti Air Low flow



WashMulti Air High flow



WashDose Tunnel

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## Laundry Applications



#### **OPL** Machines

Most OPLs are very small in terms of available space and contain a variety of machines including washers, dryers, flatwork ironers, folders and steam cabinets for processing laundry. The typical laundry utilizes systems known as washer-extractors.

This type of machine ranges in size from around 7kg up to 60kg in the largest laundries. The term washer-extractor is used because after each portion of the wash cycle (soak, suds, prewash, wash, rinse or finish) an extraction imparting centrifugal force removes the liquid contents from the wash wheel to the drain. Some may be simply timed machines, while others may be semi or fully programmable.



#### Commercial Machines

Small to medium-size laundries mostly rely on washer-extractors, which look and operate somewhat similar to a residential front-loading clothes washer, except they are three to 30 times larger. The largest models are huge; allowing workers to easily stand up inside the wash drum for service and maintenance. Fabrics are washed in batches, similar to a residential washer.



#### Industrial Machines

Industrial laundry facilities process large quantities of items such as linen, workwear and uniforms from sites including hospitals, factories and hotels. With a constant heavy flow of items to launder, industrial laundries use systems such as continuous batch tunnel washers and open pocket washers to deliver consistent, high-quality results in the fastest and most efficient way.



#### Washer-Extractor

The most efficient machines have built-in water recycling capabilities; storing the rinse water from the previous load to supply wash water in the subsequent load, using less than 9 litres per kg of fabric.

For washer-extractors without built-in recycling features, there are auxiliary recycling systems available that can be attached to machines to filter and sanitize rinse water to be reused in the wash water supply. These systems vary in quality, size and efficiency. Recycling the water requires adjustment to chemicals and detergents used in the wash and rinse water to maintain the quality of the washing process.



#### Continuous batch washer

Unlike OPLs, industrial laundries use continuous batch washers and launder stock from a wide variety of customers including uniform companies, industrial firms, schools and other institutions.

Continuous batch washers comprise long chambers with a series of compartments called "pockets". A large internal auger pulls the laundry through these pockets, where each stage of the wash process is performed. Water moves in a counter flow direction to the laundry and is used several times before being sent to the drain.

## WashBasic L



#### Single peristaltic pump

WashBasic L is the new peristaltic pump that renews the look of SEKO bestsellers PR and Dynamik. It is designed to be used in small OPL applications where the dosage of one liquid chemical product for washer extractors up to 30Kg (60lbs) is required. The unit features a fixed-speed peristaltic pump with digital adjustment of delay, dosing and lock-out time. SEKO's outstanding integrated ball bearing provides support and stability to the drive shaft, making roller pressure on the squeeze tubes more uniform and extending both motor and tube life.



#### WashBasic L Specification

Power supply	100 - 240 Vac, 50 - 60 Hz
Power consumption	5 W
Flow rate	250 ml/m (8 oz/m)
Pressure	0.1 bar (1.5 psi)
Squeeze tubing	Sekoflex

#### **Features**

Delay, dosing and lock out times made possible using key display and microprocessor technology

4-digit display makes it easy to read and interpret information, aided by the use of green and red colours to differentiate between programming and parameter control

An optional remote switch is available

Squeeze tube and motor life extended thanks to integrated ball bearing and superior tubing

A PP-reinforced fibreglass housing combined with a soft polyurethane gasket offers outstanding water and dust protection to IP65, helping protect the system from impacts, ingress and chemical agents

Easy to install thanks to convenient wall fixing modular brackets able to couple two or more pumps together as a unique device

Squeeze tube replacement does not require pump starting, special tools or qualified personnel and is made easy by the edge-free rollers

## WashBasic LL



#### Peristaltic dual-pump system

WashBasic LL features SEKO's design know-how for easy installation, straightforward operation, low maintenance requirement, user safety and equipment reliability. It is designed to be used in small OPL applications where the dosage of two liquid chemical products for washer extractors up to 30Kg (60lbs) is required. An intuitive calibration method allows the user to precisely define the desired dosing quantity. SEKO's outstanding integrated ball bearing provides support and stability to the drive shaft, making the roller pressure on the squeeze tubes more uniform and extending both motor and tube life.



#### **Features**

Fully programmable parameters dosing, delay and lockout time for 9 different programs

Trigger signals compatibility from 12Vdc to 240Vac

A smart motor torque sensor avoids unforeseen failure in the event of roller blockage

Warning alarm for out-of-product sensors is available as standard

Optional remote console can be used to manually control pumps

Squeeze tube and motor life extended thanks to integrated ball bearing and superior tubing

#### WareBasic LL specification

Power supply	100 - 240 Vac, 50 - 60 Hz
Power consumption	15 W
Flow rate	250 ml/m (8 oz/m)
Pressure	0.1 bar (1.5 psi)
Squeeze tubing	Sekomed

## WashBasic LLL



#### Peristaltic triple-pump system

WashBasic LLL is the new dosing system that renews the look of the former OPL Basic EVO. This advanced automatic system for OPL applications gives the operator multiple options for managing the dosage of three liquid chemical products for washer-extractors up to 30Kg (60lbs). SEKO's outstanding integrated ball bearing provides support and stability to the drive shaft, making roller pressure on the squeeze tubes more uniform and extending both motor and tube life.



#### WareBasic LLL specification

100 - 240 Vac, 50 - 60 Hz
40 W
250 ml/m (8 oz/m)
0.1 bar (1.5 psi)
Sekomed

#### **Features**

Cost effective with a small footprint - the ideal choice for OPL applications

As with all SEKO systems, the programming mode is conceived to set parameters and washing programmes using a multi-language alphanumeric display with specifically-designed software and precharged data

All three pumps are independently programmable for the 3-input trigger signals available

Up to five selectable wash programmes

Two working modes: signal/pumps or sequential

Smart use of the third trigger: standard signal, discharges counter, or consider TR1+TR2 as an independent trigger

Three inputs as warning alarm for out-of-product sensors

Motor llock alarm prevents motor damage in case of high pressure at injection point or clogging of delivery tube

Relay output available to activate an external device in case of alarm

Optional flushing manifold available with integrated water valve

### Smart Plus P





#### Smart systems for smart laundries

Smart Plus P combines technological development in peristaltic systems with guaranteed reliability for chemical dosing in commercial laundry machines. Specific innovations and the accurate design of all mechanical parts allow it to manage each dosing formula and to ensure high-quality performance.

Smart Plus P is designed for commercial-sized washers up to 25kg, configurable for two to seven peristaltic pumps. Ease of installation and connection are inbuilt with the Series Plus P coming with a front cover that opens to 85 degrees allowing simplified electrical connections.

Smart Plus P doses up to three chemicals simultaneously. The system's tubing is always equipped with inlet/outlet fittings for fast and safe connection. Smart Plus P has IP65 degree protection and class 2 electrical insulation which requires no further ground connection.



#### **Features**

Manages 2-7 pumps	
Power consumption 30W	/ max
6 trigger inputs 20 - 265 \	Vac
Flushing manifold include	ed
Santoprene squeeze tubi	ing
Control/formula selector	

#### Smart Plus P

Power supply	100 - 240 Vac, 50/60 Hz
Flow rate	15 l/h

### Smart R Plus P





#### System for relay mode operation, without console

The Smart R Plus P model comes with relay mode operation. Pumps run as long as their respective signals are present, but run times, delay times and formulas are disabled.



#### **Features**

Based on the Series Plus P but with relay mode operation

### Smart Plus H



#### Smart systems for smart laundries

Smart Plus H combines technological development in peristaltic systems, with guaranteed reliability for chemical dosing in industrial laundry machines. Specific innovations and the accurate design of all mechanical parts make it able to manage each dosing formula and to assure high-quality performance.

Designed for any industrial-size washers over 25kg up to 300kg, managing up to seven pumps and handling as many as 20 wash formulas, each one with unique run times and delay times for each pump. A flushing manifold is included as standard, ensuring the best performance of chemical dosing.



#### **Features**

Designed for industrial-size washers over 25kg up to 300kg

Manages up to seven pumps and handling up to 20 wash formulas, each one with unique run times and delay times for each pump

#### Advantages

- Power consumption 100W max
- 6 input signals
- IP65 enclosure and class 2 electrical insulation

#### Smart Plus P

Power supply	100 - 240 Vac, 50/60 Hz
Flow rate	30 - 120 l/h

## Smart R Plus H



### System for relay mode operation, without console

The Smart R Plus H comes with relay mode operation. The pumps run as long as their respective signals are present, while run times, delay times and formulas are disabled.



#### **Features**

Based on the Series Plus H but with relay mode operation

## **Smart Peripherals**



#### Smart systems for smart laundries



#### **Smart Console**

This device is designed to be placed next to the washer extractor command panel in order to allow an appropriate dosing formula to be selected. Along with a priming function, users can enable dest. and soft. pumps via the keypad.



#### Smartware

Smartware is SEKO's unque software for managing wash formulas and consumption statistics. Smartware allows:

- Multiple wash programmes to be created
- Data transfer to a Smart memory card
- Programmes to be saved by name within folders and modified at any time
- Statistics to be saved and managed for every Smart system



#### Flush Kit/Flush Manifold

- Flush manifold is included in all Smart systems
- Easy to install to the underside of the cabinet. Can also be wall-mounted
- Injection fittings equipped with built-in check valves.
   Position is adjustable for ease of tubing installation
- Pressure switch available as an option
- Flow sensor (optional)



#### Level Control Unit (optional)

7 inputs with 5m cable

### Wash Series







#### Intelligent laundry dosing at your fingertips

Designed and built on the back of an in-depth understanding of the laundry market, fine tuned in collaboration with customers from around the world, SEKO's Wash Series provides ultimate flexibility for any operator whilst allowing accurate control of the total laundry operation. This enables consumption of chemical, water and energy to be controlled within the overall wash process with class-leading management information available as required. The Wash Series offers outstanding remote control of dosing equipment from anywhere in the world, delivering the ultimate customer support.

#### Remote management of the dosing systems

The Wash Series can be programmed remotely via PC/Mac, tablet or smartphone and works independently from any operating system or hardware. It works in any web browser on any internet-enabled device and requires no special software.

#### Data on Demand on SekoWeb

Using SEKO's unique SekoWeb portal, the operator enjoys 24/7 access to detailed statistical reports regardless of their location. On a purpose-built website, visible on any smart device or PC, operators and managers can access data relating to real-time and historic chemical consumption, formula usage, machine-specific information, low-level alarms and fault reporting. This on top of information about real-time wash loads and total loads washed, providing the most important management information for an efficient laundry.



### WashDose Peri





#### Professional Laundry Dosing System

The WashDose Peri system is designed to allow on-premise laundry operators to accurately manage their operation, helping to reduce over consumption of chemical, water and energy within the overall wash process. It also offers the possibility to control dosing equipment anywhere in the world, allowing remote customer support.

WashDose Peri can be optionally equipped with a PoD (Proof of Dosing) system that ensures precise and consistent dosage quantity, regardless of any variability in the condition of the chemical product or feeder tube.



#### Models available

WashDose Peri xP from 3 to 8 S type pumps Single machine system with multi peristaltic pump, one for chemical

Flow rate 400 ml/min (14 oz/min)

WashDose Peri S from 3 to 8 H type pumps Single machine system with multi solenoid pump, one for chemical

Flow rate 1800 ml/min (60 oz/min)

#### **Features**

Modular system configurable for up to 16 chemicals and 100 formulas

As for the all Wash series, the system has a web server interface accessible via Wi-Fi with any device like smartphone, tablet or laptop

WashDose Peri allows remote management of the dosing system and provides critical management information through the "SekoWeb" portal

Possibly to manage up to 3 washers extractor adding more trigger interfaces and the distributor block up to 3 valves

Parametric dosing of the wash formula based on the washer extractor capacity

Reliable communication between modules via CANBus

Wide range power supply 100 - 240 VAC

Up to 8 inputs for trigger interface module (SIM) optically insulated 12VDC 24 - 240 VAC

Turnkey system

Quick uploading and downloading of parameters and formulas

## WashMulti Solenoid





#### On-Premise Laundry System

WashMulti Solenoid is a compact centralized multi washer-extractor chemical dosing system for laundry applications. Bringing advanced industrial technology to the on-premise laundry, this system offers flexibility and reliability for easy, intelligent dosing, with key features including precise control and remote management that help drive operational efficiency.

The WashMulti Solenoid system is designed to allow OPL managers to accurately control their overall operation, helping to reduce over consumption of chemical, water and energy within the wash process. It also offers the possibility to control the dosing equipment anywhere in the world, allowing remote customer support.

WashMulti Solenoid comes as standard with a PoD (Proof of Dosing) system that ensures precise and consistent dosage quantity, regardless of any variability in the condition of the chemical product or feeder tube.



#### WashMulti Solenoid specification

Power supply	100 - 240 Vac, 50 - 60 Hz
Flow rate	1 l/m (0.2 g/m)

#### Multi-washer capacity

The dosing unit can control three or five washers and up to eight solenoid valves for chemical products. For enhanced accuracy, WashMulti Solenoid has a built-in flow meter sensor.

## Intelligent laundry dosing at your fingertips

The Wash Series can be programmed via PC, tablet or smartphone and works independently from any operating system/hardware. It works in any web browser on all internet-enabled devices. No special software is required, and the system can be used with a PC or Mac computer or any smart communication device.

#### **Features**

System configurable for five washer extractors up to a maximum total load of 400kg (880lbs)

Incorporated water-powered flush system and centralized machine distributor is used to transport product solution to each machine - guaranteeing correct dosage and reducing wear on tubing from residual chemical

Formula and Automatic Formula selection modes are available for programming the system

## WashMulti Peri



#### Professional Laundry Dosing System

WashMulti Peri System is a centralised chemical dosing system designed for laundry applications. Installations can serve any combination of up to 10 washer extractors (depending of washer capacity) and maximum total load (all machines) of 400/500Kg (900/1100 lbs). The main unit contains 4/6/8 peristaltic pumps with the possibility to add an auxiliary unit with a further 2/4 pumps.

For enhanced accuracy, WashMulti Peri has a built-in flow meter sensor. As with the other products in the Wash Series, WashMulti Peri allows remote management of the dosing system and provides critical management information through the "Sekoweb" portal.



#### WashMulti Peri specification

Power supply	100 - 240 Vac, 50 - 60 Hz
Flow rate	Max 1.6 l/m (0.4 g/m)
Pressure	Max 4 bar (58 psi)
Squeeze tubing	Sekomed

#### **Features**

Modular system configurable for up to 10 washer extractors, with 16 chemicals

The system is provided with a gear flowmeter to assure the right dosing accuracy also for high viscous chemical

Outstanding chemical compatibility materials for all the manifold parts, pump squeeze tubes and seals

As for the all Wash series, the system has a web server interface accessible via Wi-Fi with any device like smartphone, tablet or laptop

WashMulti Peri allows remote management of the dosing system and provides critical management information through the "Sekoweb" portal

Hygiene temperature monitoring for washed linen disinfection certification

## WashMulti Air

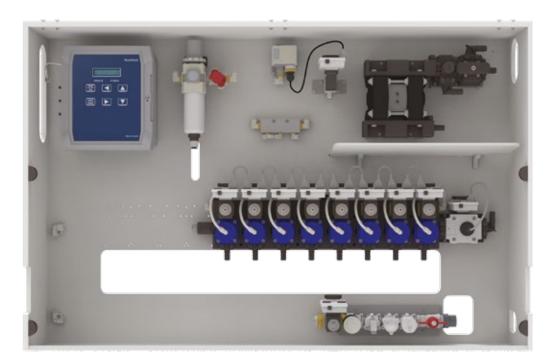




#### Professional Laundry Dosing System

WashMulti Air is a centralized chemical dosing system designed for large laundry applications. Installations can serve any combination of up to 12 washer extractors with a minimum machine load of 20Kg (45 lbs) for Low Flow version, 40 Kg (90 lbs) for High Flow version and maximum total load (all machines) of 800/1000Kg (1800/2200 lbs).

The main unit contains 1 pneumatic pump in two different size, Low Flow and High Flow versions and 4, 6, 8, 10 or 12 chemical pneumatic suction valves. For enhanced accuracy, WashMulti Air has a built-in flow meter sensor. As with the other products in the Wash Series, WashMulti Air allows remote management of the dosing system and provides critical management information through the "Sekoweb" portal.



#### WashMulti Peri specification

Power supply	100 - 240 Vac, 50 - 60 Hz
Flow rate	Max 5 - 6 l/m (1.1 - 1.3 g/m)
Pressure	Max 5 bar (72.5 psi)

#### **Features**

Modular system configurable for up to 12 washer extractors, with 12 chemicals

The system is provided with a gear flowmeter to assure the right dosing accuracy also for high viscous chemical

Outstanding chemical compatibility materials for all the manifold parts, pump/valves membranes and seals

As for the all Wash series, the system has a web server interface accessible via Wi-Fi with any device like smartphone, tablet or laptop

WashMulti Air allows remote management of the dosing system and provides critical management information through the "Sekoweb" portal

Hygiene temperature monitoring for washed linen disinfection certification

Post flush option: water by-pass valve for each washer extractor to decrease the delivery time

## WashDose Tunnel



### Dosing system for continuous batch washer applications

WashDose Tunnel is a chemical dosing system specially designed for Continuous Batch Washers (CBW or tunnel machines). This system can supply up to five dosing points of a machine with up to four chemicals per dosing point. The main unit of WashDose Tunnel contains up to five dosing modules, each one of them connected to a dosing point. Each module is equipped with a pneumatic pump and four chemical suction valves. For enhanced accuracy, WashDose Tunnel has a built-in flow meter on each dosing module. An incorporated flush system is used to transport the chemicals to the machine.





#### **Features**

Dosing system for single Continuous Batch Washer Machines – Tunnel

Modular system-floor mounted design with minimum footprint approximately 120x40cm (3.9x1.3ft)

Fit up to five dosing modules, means injection points are on machine

The dosing modules are configurable from one to four chemical products managed by high-reliable membrane valves and a single pneumatic pump

Each dosing module has a dedicated flowmeter to ensure the correct dosing accuracy

Parts and seals manufactured in premium-quality materials for outstanding chemical compatibility

As with all Wash Series units, the system has a web server interface, accessible via Wi-Fi using smartphone, tablet or laptop

WashDose Tunnel allows remote management of the dosing system and provides critical management information through the "Sekoweb" portal

Water booster pump and reservoir embedded on the lower part of the cabinet

Air flush available

Compact packaging - the entire system is delivered on a Euro pallet dimension 120x80x150 cm (3.9x2.6x4.9 ft)

#### WashDose Tunnel specification

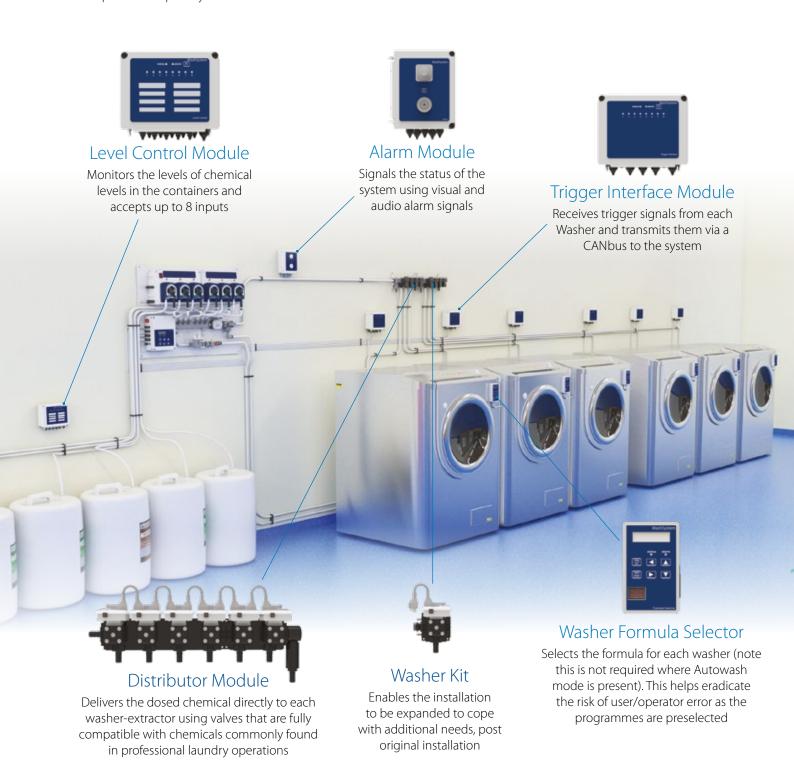
Power supply	100 - 240 Vac, 50 - 60 Hz
Flow rate	5 l/m (1.1 g/m)
Pressure	5 bar (72.5 psi)

## A Flexible System

#### The only laundry dosing system you'll ever need

A bold statement but such is the flexibility of SEKO's Wash Series that we are confident that our claim is true. SEKO's Wash Series provides ultimate flexibility regardless of the size of professional laundry. Its component-based design can be specified to make tailoring to a specific need or site easy.

System configuration on initial set up makes the system completely modular. Each item is connected to the CANbus network and needs to be identified. Once completed, all the items can be replaced without the need for further set up, while the same individual items can be identified and replaced should a fault occur, or maybe additional items are needed to expand the capability of the installation.



## Spring MS1 Series



#### Affordable and effective motor-driven pumps

Spring MS1's multiple combinations of pump head and motor power allow the selection of the optimal combination most suited to a specific application. The MS1 Series achieves flow rates between 5.5 - 550 l/h with a pressure of up to 10 bar, making it highly flexible.

MS1 pumps have a spring return mechanism in a single aluminium housing. Each model can be adjusted to between 0-100% of the total flow rate. This can be done manually or automatically by using the AKTUA actuator which operates with a 4-20 mA signal. In addition, Spring MS1 pumps can be supplied with a single or three-phase electric motor with IP55 protection.



#### **Features**

Capacity: from 80 - 460 l/h

Max pressure: 10 bar

Max dosage temperature - SS 316 pump head:  $40^{\circ}\text{C}$  - PP pump head:  $40^{\circ}\text{C}$ 

Stroke rate: 58 • 78 • 116 strokes/minute

Diaphragm diameter: from 108 - 165 mm

Motor: standard 0.37 Kw (IP 55)

Stroke length: 4 mm • 6 mm

Zero-leakage solution

Liquid end SS 316 or PP liquid end (standard).

### Tekna Evo



#### Multifunctional solenoid-driven dosing pumps

Tekna Series is the range of innovative wall-mounted solenoid-driven dosing pumps that SEKO has designed following many years of experience working with its customers worldwide. These multifunctional solenoid-driven dosing pumps maintain outstanding precision and reliability, critical to any customer and characteristics synonymous with the SEKO name.

Using only premium materials in its manufacture, Tekna's pump head comes as standard in PVDF and with a ceramic ball valve. These features ensure high performance for the chosen application and improve the reliability of the pump, guaranteeing the chemical compatibility of the wetted parts.



#### **Features**

Constant or proportional dosing

PT100 probe input for thermal compensation

Repetition alarm relay and flow sensor

4 – 20 mA output for measure transmission

Timer function

Statistics menu and ppm dosing

Level control inputs & alarm output relay

Proportional dosing using both analogue (4 – 20 mA) and digital inputs  $\,$ 

## Laundry Accessories

#### Suction lances

#### M Type

Length 400mm Ø 38mm - PVC suction lance with integrated level probe

#### LType

**Length 600mm Ø 38mm** - PVC suction lance with integrated level probe

#### XL Type

Length 1000mm Ø 38mm - PVC suction lance with integrated level probe

#### XXL Type

Length 1200mm Ø 38mm - PVC suction lance with integrated level probe

#### XXL Type double sensor

Length 1200mm Ø 38mm - PVC suction lance with integrated double level probe

#### XXL Type multi suction

Length 1200mm Ø 38mm - PVC suction lance with 3 outlets and integrated level probe

#### Mixers

Mixers with 0.12 kW single phase electric motors, either slow (200 rpm) or fast (1400 rpm), flange attachment, shaft and propeller in PVC.

#### Models

#### Slow mixers (200 RPM)

PVC - shaft 1100 - 0,12kW - 1 Phase

#### Fast mixers (1400 RPM)

PVC - shaft 1100 - 0,12kW - 3 Phase

#### Tanks - SER

Tanks - SER 50

Tanks - SER 100

Tanks - SER 250

Tanks - SER 300

Tanks - SER 500

Tanks - SER 1000







#### PP Tank Reinforcement - SML series

Tanks - SML 100

Tanks - SML 250

Tanks - SML 300

Tanks - SML 500

Tanks - SML 1000



# Your Choice, Our Commitment

People choose to do business with SEKO for one or more reasons, but ultimately it is their choice, and therefore they merit our commitment. "Our commitment" is total and not only to our customers, but also to each other and the Company's to its employees.

## Vision

TO BE YOUR PARTNER OF CHOICE FOR DOSING SOLUTIONS, GLOBALLY

SEKO, is a passionate, dedicated Global Family of Professionals. We listen to each of our Partners and are committed to deliver the right solution in the Hygiene, Water Treatment and Industrial Process markets.

## Values

#### **MUTUAL RESPECT**

## MUTUAL RESPECT, QUALITY AND SPIRIT OF COLLABORATION

Mutual Respect because doing business is about being able to generate trust between Customer and Supplier. We'll deliver against our commitments, on time and in a transparent fashion, so you can plan for your own business needs.

#### **QUALITY**

Quality for SEKO is a 360° reality. It covers not only the design, development, production and delivery of our products and solutions but it runs through the core professionalism of our teams.

## SPIRIT OF COLLABORATION

Spirit of Collaboration is fundamental to our success and SEKO prides itself on how we work as a worldwide team, blending multiple country teams and functions to bring solutions to a Customer request or market need from an idea to the real world in very short time, across our global presence and beyond.



### Your Choice, Our Commitment

In the modern Globalised world, being a privately owned Company has significant benefits especially for our Customers, our Partners. For over 40 years, SEKO has developed a Global organisation able to take the longer view, manage the pressure of the now, and to plan for the long term, delivering true Partnership for our Customers, with transparency and mutual respect for each other.

Whether it's for our renowned flexibility, our attention to detail, the high-quality products, or just the way we do business, we understand that it's Your Choice to do business with us. It is Our Commitment to fulfill your needs wherever you, our Customers are.



For more information about our portfolio, worldwide locations, approvals, certifications, and local representatives, please visit www.seko.com



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