

Dosing systems for dishwashing machines **TWINDOSE** SERIES



Transaxle Technology provides added support and stability to the gear shaft.

This equalizes roller pressure, extending the life of the motor gearbox and squeeze tube.



Intelligent solutions to suit all needs

TWINDOSE Series offers automatic compact detergent and rinse-aid dispensers. Properly designed for every type of dishwashing machine, it reduces all manual operations.

Thanks to Seko's long experience in peristaltic systems, installation and maintenance are very easy and require only a limited amount of time.

SEKO has come up with automatic dosing systems for industrial single tank and tunnel dishwashing machines, especially intended for "heavy duty" applications (in which the dosing unit works for more than 50 hours per week): **Twindose 35 Series, Twindose 40 & 40 Plus Series.**

Twindose 10-20

User friendly

- Micro-switches and trimmers allow simple and fast parameters configuration
- Front cover opens to **90°** allowing easier electrical connections
- Priming key for each product

Easy installation and minimum maintenance

- Just run the rinse-aid and detergent supply line and connect the system to dishwashing machines solenoid valves
- Easy wall mounting and removing thanks to the in built fixing brackets
- Easy maintenance, no special tools required

Safe and reliable

- All setting controls kept inside the box to avoid undesired tampering
- **IP 65** protection degree and **class 2** electrical insulation (no ground connection required)
- End of product alarm input via level probe in the form of a **reed contact**
- **Santoprene** and **Sekobril** squeeze tubing, always equipped with inlet-outlet fittings for fast and safe connections

Twindose 35-40-40 Plus

A wide range of models

- **LL Version** (1 detergent pump and 1 rinse-aid pump)
- **DL Version** (1 solenoid valve for the powder detergent dispenser and 1 rinse-aid pump)
- **LLL version** (1 detergent pump, 1 rinse-aid pump, and 1 sanitizer pump)
- **DLL Version** (1 solenoid valve for the powder detergent dispenser, 1 rinse-aid pump, and 1 sanitizer pump)

Three types of dosing systems control

- **Conductivity** or **time** for the detergent pump
- **Speed** or **time** for the rinse-aid pump
- **Speed** for the sanitizer pump

Simple to install and low in maintenance

- Simplicity, from the plumbing to connecting the electricals:
 - To the solenoid valves for the dishwashing machine or the washing pump
 - To an external power supply, with signals coming from the dishwashing machine
- Easy to install, thanks to the simple bracket for wall mounting
- Maintenance is simple and no special tools are required

Safety and reliability

- **Internal microswitches and trimmers** (Version 35) for setting controlling parameters and selecting the dosing mode
- **External digital settings** (Version 40 & 40 Plus) with settings protected by a password
- Easy access to both the electrical connections and the pumps, due to **90° panel opening**
- **External keys for priming** chemical products
- Protection degree **IP65** and **class 2 electrical insulation** (without ground connection)
- **Level control with 3 inputs**
- **Santoprene** and **Sekobril** squeeze tubes, always equipped with inlet-outlet fittings for fast and safe connections
- **Audible alarm** when set points are reached
- **Separate management** of the first load
- **Possibility of selecting conductivity measurement** using a conductivity probe (Version 35 and 40) or inductive sensor (Version 40 Plus)
- **Double conductivity display:**
 - In μS and SKU using a conductivity probe (Version 40)
 - In mS and SKU using an inductive probe (Version 40 Plus)
- **Roller support bearing** (standard for all versions) made with the **TRANSAXLE TECHNOLOGY** to increase motor life
- **5-pole power-boosted motor** (Version 40 and 40 Plus)
- Electronic motor rpm control
- **Delime mode:** This is used to decalcify dishwashing machine without disconnecting the Twindose
- **Relay alarm output**
- **Fault Diagnosis Function**
- **Statistics management** (Version 40 and 40 Plus)
- **Statistical download** via IRDA signal (Infrared) (optional for Version 40 and 40 Plus only)

ANALOGUE SYSTEM TWINDOSE IO

Automatic compact
detergent and rinse-aid
dispenser.

Suitable for single
solenoid valve
dishwashing machines.



Technical Features

DETERGENT DOSING	Speed control	ALARMS	End of products buzzer signalling
RINSE-AID DOSING	Speed control	POWER SUPPLY	
DETERGENT DELAY TIME	-	Via the solenoid valve	24/115/230 Vac
RINSE-AID DELAY TIME	-	POWER CONSUMPTION	8 W
DETERGENT PUMP	Santoprene squeeze tubing	WEIGHT	1,2 Kg
Flow rate	0.7 ... 4 lt/h	DIMENSIONS (mm)	W 195 x H 168 x D 110
RINSE-AID PUMP	SekoBril squeeze tubing	PACKING DIMENSIONS (mm)	W 270 x H 270 x D 130 (9,477 cm ³)
Maximum pressure	3 bar		
Flow rate	0.2 ... 1 lt/h		

ANALOGUE SYSTEM TWINDOSE 20

Automatic compact
detergent and rinse-aid
dispenser.

Suitable for single
solenoid valve
dishwashing machines.



Technical Features

DETERGENT DOSING

First Fill	Timed control
Top Up	Speed control

RINSE-AID DOSING	Speed control
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DETERGENT DELAY TIME (Tunnel machines only)	20 sec.
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RINSE-AID DELAY TIME	-
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DETERGENT PUMP	Santoprene squeeze tubing
Flow rate	1 ... 6 lt/h

RINSE-AID PUMP	SekoBril squeeze tubing
Maximum pressure	3 bar
Flow rate	0.2 ... 1 lt/h

ALARMS

End of products buzzer signalling

POWER SUPPLY

Via the solenoid valve 24/115/230 Vac

POWER CONSUMPTION 8 W

WEIGHT 1,2 Kg

DIMENSIONS (mm)

W 195 x H 168 x D 110

PACKING DIMENSIONS (mm)

W 270 x H 270 x D 130 (9,477 cm³)

ANALOGUE SYSTEM TWINDOSE 35

This is a versatile, safe, dosing system that is controlled by a microprocessor.

It is based on SEKO's experience with dishwashing machine systems, and combines modern technology, easy installation, and user-friendly programming.

Available in various versions for dosing liquids and powders it can be used with all types of dishwashing machines (single tank and tunnel).



Technical Features

DETERGENT DOSING	Conductivity or Timed	ALARMS	
RINSE-AID DOSING	Speed or Timed	OFA double time	255 sec.
SANITIZER DOSING	Speed	<i>(The first activates the alarm and the second stops the pumps)</i>	
DETERGENT PUMP	Santoprene Squeeze tubing	POWER SUPPLY	Switching
Flow rate	0.9 ... 10.8 lt/h	from 80 to 265 Vac (24 Vac with additional module)	
RINSE-AID PUMP	SekoBril Squeeze tubing	INPUT SIGNALS	selectable (using jumpers)
Maximum pressure	3 bar	from 20 to 265 Vac or 150 to 265 Vac	
Flow rate	0.12 ... 1.5 lt/h	POWER CONSUMPTION (max.)	14 W
SANITIZER PUMP	SekoBril Squeeze tubing	WEIGHT	3,5 kg
Maximum pressure	3 bar	DIMENSIONS (mm)	
Flow rate	0.12 ... 1.5 lt/h	Version LL • LLL	W 285 x H 220 x D 110
CONDUCTIVITY MEASURING SCALE		Version DL • DLL	W 360 x H 220 x D 110
(using a conductivity probe)	from 200 µS to 10 mS	PACKING DIMENSIONS (mm)	
		W 400 x H 140 x D 240 (13,400 cm ³)	

DIGITAL SYSTEM TWINDOSE 40 and 40PLUS

This dosing system is controlled by a microprocessor and has an LCD display.

It is the jewel in the crown of **SEKO** dosing systems, and combines easy installation with a wide range of functions including management of statistics, which can be downloaded using an infrared system.

Twindose 40 and **40 Plus** are designed for use with all types of dishwashing machines (single tank and tunnel).

Twindose 40 Plus is specifically designed for heavier duty applications, with the use of power-boosted motors and inductive technology for measuring conductivity.













The range available includes a series of models that are able to suit all the client's needs.










Technical Features

DETERGENT DOSING	Conductivity or Timed	ALARMS	
RINSE-AID DOSING	Speed or Timed	OFA double time	999 sec.
SANITIZER DOSING	Speed	<i>(The first activates the alarm and the second stops the pumps)</i>	
DETERGENT PUMP	Santoprene Squeeze tubing	POWER SUPPLY	Switching
Flow rate	1.0 ... 13.2 lt/h	from 80 to 265 Vac (24 Vac with additional module)	
RINSE-AID PUMP	SekoBril Squeeze tubing	INPUT SIGNALS	selectable (using jumpers)
Maximum pressure	3 bar	from 20 to 265 Vac or 150 to 265 Vac	
Flow rate	0.19 ... 2.4 lt/h	POWER CONSUMPTION (max.)	20 W
SANITIZER PUMP	SekoBril Squeeze tubing	WEIGHT	3,5 kg
Maximum pressure	3 bar	DIMENSIONS (mm)	
Flow rate	0.19 ... 2.4 lt/h	Version LL • LLL	W 285 x H 220 x D 110
CONDUCTIVITY MEASURING SCALE		Version DL • DLL	W 360 x H 220 x D 110
(using a conductivity probe - Twindose 40)	from 200 µS to 10 mS	PACKING DIMENSIONS (mm)	
(using an inductive sensor - Twindose 40 Plus)	from 1 to 50 mS	W 400 x H 140 x D 240 (13,400 cm ³)	

Installation kit and accessories

Installation kit	10	20	35	40	40Plus
 Conductivity probe			•	•	• inductive
 Wall mounting bracket	•	•	•	•	•
 Stainless steel injection connector	•	•	• for LL and LLL versions	• for LL and LLL versions	• for LL and LLL versions
 Suction tubing	•	•	•	•	•
 Delivery tubing	•	•	•	•	•
 PVC delivery tube for Powder dispenser			only for DL and DLL versions		
 Foot filter	•	•	•	•	•
 Powder detergent injection connector			only for DL and DLL versions		
 PP sanitizer injection connector			only for LLL and DLL versions		
 Stainless Steel non return valve	•	•	•	•	•
 Boiler non return valve adapter Ø 6-8 mm	•	•	•	•	•
 Plastic T connector			•	•	•

Accessories	10	20	35	40	40Plus
 Plastic T connector	•	•			
 Suction device without level probe	•	•	•	•	•
 Suction device with level probe	•	•	•	•	•
 Powder detergent container			only for DL and DLL versions		
 Powder detergent dissolver			only for DL and DLL versions		
 PP injection connector	•	•	•	•	•
 Low profile injection connector	•	•	•	•	•



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