

**ECOLAB**  
Disinfection products  
and processes...

**OXYCHECK**

# Trust is good, certainty is better!

Protection of disinfection processes:

- ▲ Selective on-line measurement of PAA-containing disinfection products
- ▲ Automatic concentration monitoring
- ▲ Integrated component of Quality Management

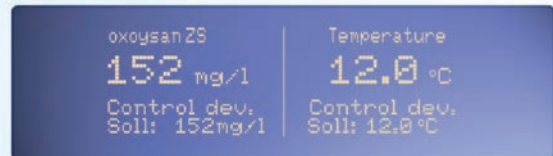
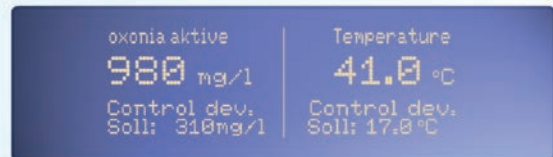
**ECOLAB®**  
Everywhere It Matters.

# Ecolab disinfection products and processes – Quality and safe hygiene

With its highly effective peracetic-acid (PAA)-based disinfectants, Ecolab ensures comprehensive hygiene in foodstuffs production. The intelligent applications developed at Ecolab provide the maximum of safety and functionality for storage, metering, measuring, control and monitoring of PAA-containing disinfectants, with unarmful residues. The Ecolab team offers you the correct needs-oriented benefits.

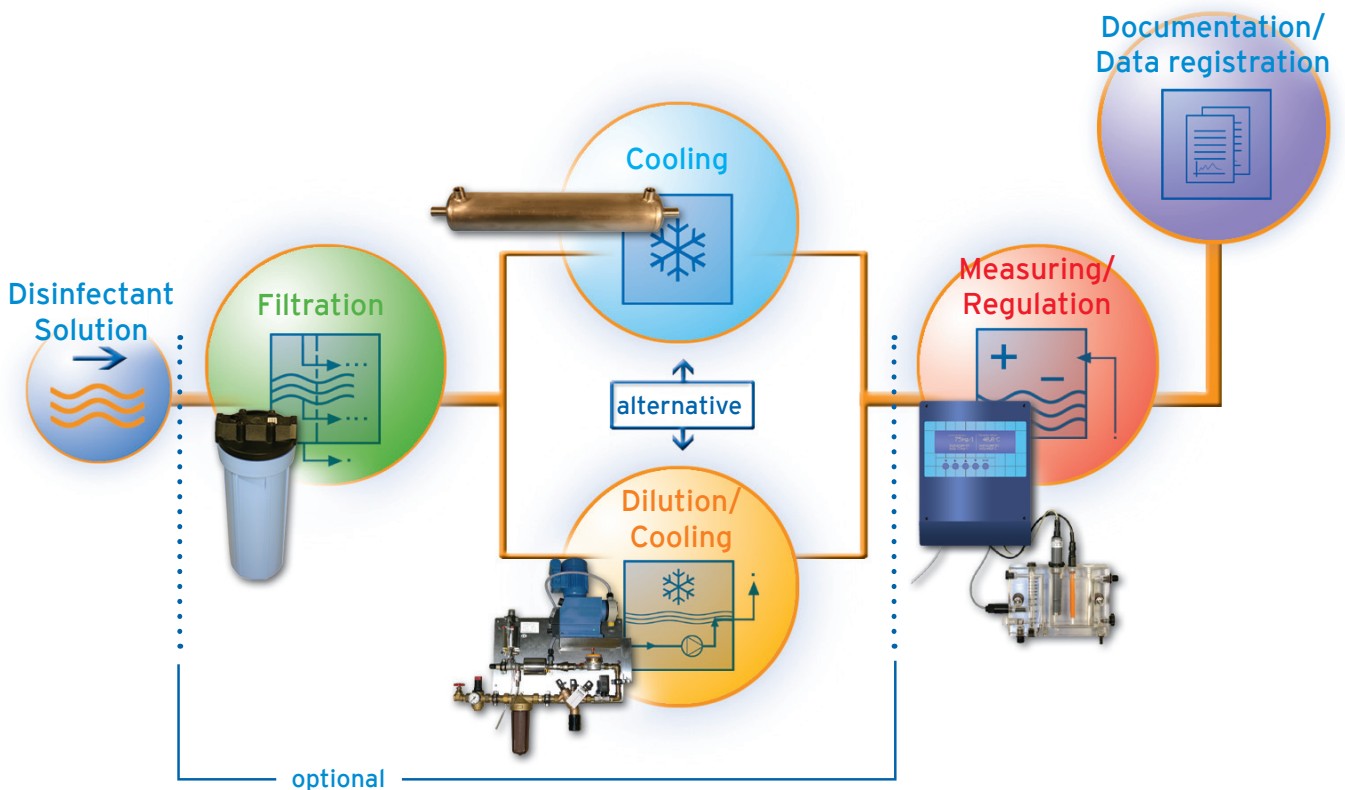
## Applications:

- ▲ Disinfection in CIP processes
- ▲ Disinfection of surfaces in beverages decanting:
  - Rinsers and fillers
  - Handling systems
  - Closing systems
  - Closure caps
- ▲ Disinfection of surfaces for cold-aseptic decanting
- ▲ Rinsing-water conditioning in the foodstuffs industry

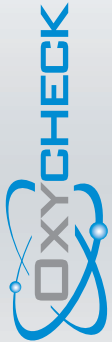





## Oxycheck

Oxycheck provides reliable, automatic and low-maintenance monitoring of the concentration of Ecolab disinfectants. Depending on process and hygiene parameters, the measured solutions are filtered, diluted and/or cooled prior to on-line measurement, if necessary. The Ecolab team helps you in the design and realization of your projects.



# Process conditions

	No dilution	Dilution*1
	Disinfectant product e.g. <b>P3-oxonia aktive</b> <b>P3-oxonia aktive 150</b> <b>P3-cosa DES ...</b>	Disinfectant product e.g. <b>P3-oxonia aktive</b> <b>P3-oxonia aktive 150</b> <b>P3-oxysan ZS</b> <b>P3-oxysan CM ...</b>
 <b>Cooling</b> if > 45 °C	 <b>Dilution/Cooling</b>	
 <b>Filtration</b> in case of contaminated disinfectant solution, e.g. suspended substances		

\*1 = to enhance measuring accuracy for disinfectant solutions containing additives

\*2 = for optimized surface wetting

## Safe storage and metering

### Connex - a clever way to tame chemicals!

Connex is a unique solution for safer handling of concentrated cleaning and disinfecting products (e.g. containing peroxyacetic acid). This unique concept provides for superior safety and comfort while dealing with chemicals on your production site.




#### Packaging with integrated suction lance

- ▲ Special design for efficient product discharging
- ▲ Eliminates the necessity of a manual container opening
- ▲ Suction lance integrated in the container



#### Discharge unit

- ▲ „Empty“ level detection
- ▲ Alarm functions
- ▲ Reliable dosing even of gassing products



#### Click & Plug connector

- ▲ Automatic packaging opening - on/off position
- ▲ Tight connection between packaging and discharge unit
- ▲ Self venting connection



#### Operator safety

- ▲ Safe and easy operation
- ▲ Reduced risk of direct contact with a chemical product
- ▲ Comfortable discharging even of gassing products



#### Production-process safety

- ▲ Continuous dosing even if the connected packaging is reaching „empty“ level
- ▲ Automatic switch-over to the full packaging
- ▲ High dosing safety especially for „in-line“ applications



# Your benefits from Oxycheck:

- ▲ No-compromises disinfectant and hygiene safety
- ▲ Optimum tailoring to Ecolab disinfectant products
- ▲ Modular structure and no-trouble combination
- ▲ Compact design
- ▲ One flow housing for all sensors
- ▲ Integrated flow monitoring for the measured solution
- ▲ MCT (Multronic Configuration Tool) software for bidirectional and trouble-free flow of PC data
- ▲ Profibus-Interface (optional)



## PAA-Measuring transducer type multronic



Measuring range:	0 ... 2000ppm or 0 ... 5000ppm
Accuracy of measurement:	1,0% of the full-scale point
Measuring input:	clamp Chlorine Dioxide probe mV
Control response:	P- / PID- / Fuzzy-control
Control:	2-point- / 3-point-controller
Signal power output:	0/4 ... 20mA, metallicly separated
Command output:	2 make contacts (pulse frequency)
Limit control:	within a measuring range, make contact
Alarm relay:	changeover contact
Electrical connection:	24VDC, 115 VAC 50/60 Hz, 230 VAC 50/60Hz
Power input:	25 W
Display:	lighted graphic display
Ambient temperature:	0 ... 45°C
Type of protection:	IP 65
Dimensions:	wall-mounted: 224 x 290 x 96 mm (W x H x D)

## PAA probe type PES7UP

Amperometric membrane-covered measuring principle:



	sensor 2000 ppm	sensor 5000 ppm
Measurand:	Peracetic acid (PAA)	
Measuring range:	0 ... 2000 ppm	0 ... 5000 ppm
Temperature:	0 ... 45°C with internal temperature compensation	
Max. pressure:	3 bar (no pressure knocks)	
Flow:	30 ... 100 l/h	
Power supply:	12 ... 15 VDC, approx. 20mA	
Attack time:	t <sub>90</sub> ~ 3 min.	
Output signal:	~ 1 mV per ppm PAA	~ 0.4 mV per ppm PAA
Sensitivity to H <sub>2</sub> O <sub>2</sub> :	< 0,005	

Right of technical modification reserved!

**EMEA Headquarters**  
 Ecolab Europe GmbH  
 Richtstrasse 7  
 8304 Wallisellen  
 Switzerland  
 Tel. +41 44 877 2000

### Local Offices

Ecolab Ltd.  
 Duke Avenue, Stanley Green  
 Cheadle Hulme, Cheadle  
 Cheshire SK8 6RB  
 United Kingdom  
 Tel. +44 161 485 61 66  
[www.ecolab.com](http://www.ecolab.com)

Ecolab Engineering GmbH  
 Postfach 1164  
 83309 Siegsdorf  
 Germany  
 Tel. +49 8662 61 0

Ecolab Ltd.  
 La Vallee House  
 Upper Dargle Road  
 Bray, Co. Wicklow  
 Ireland  
 Tel. +353 127 63 500

