

## Chem-Ad® Eco Series Membrane dosing pumps



Eco Pro/Eco Up

Eco Add

### GENERAL

The dosing pump series Chem-Ad® Eco with the pumps Pro, Up and Add use step motor technology. This drive technology provides a variety of advantages:

- Precise adjustable metering capacity from 1:100 (for Eco Pro and Eco Up) and 1:12000 (for Eco Add)
- Almost pulsation-free injection
- Adjustment of the suction lift period for viscous products or difficult suction conditions
- Low-noise operation

The modular structure makes a simple modification of Eco Pro and Eco Up to the Eco Add version possible:



The control unit can be turned by 90° with simple methods. This allows the adjustment to local conditions:



Also the mounting console is for variable use. This makes it suitable for both installations, on a table or on the wall.

The Eco Up pump is designed for simple dosing tasks via a release contact. They are for example applicable for DIOX-A chlorine dioxide generation systems and OSEC-NXT electrolysis systems.

The scope of delivery is rounded off by practical accessories, so forming a complete range of equipment for all metering uses.

### BENEFITS/FEATURES

- Drive technology with step motor
- Metering modes adjustable (e.g. for high-viscosity products)
- Simple and fast operation thanks to plain text operator guidance and multicolor 3.5" graphic display with touch function (Eco Add)
- High dosing accuracy
- USB interface (Eco Add) for transmission of operating data and software updates
- High resistance to chemicals

## TECHNICAL DATA

Eco Pro/Eco Up/Eco Add pumps	5 -10	11 - 10	30 - 3	50 - 10*	120 -3*
Dosing capacity (l/h)	5	11	30	50	120
Dosing back pressure, max. (bar)	10	10	3	10	3
Connection thread (G)	3/8	3/8	5/8	5/8	1 1/4
Reproductivity	< +/- 3%				
Max. suction height with wet valves (m)	2				
Permissible ambient temperature (°C)	2 - 45				
Power supply	100 - 240 V +/- 10% 50/60 Hz				
Safety type	IP 65				
Weight (kg)	3,1	3,1	3,8	5,2	5,7
Certificate	CE				

\*: not for Eco Up pumps

## FUNCTIONS

Type of pump	Eco Pro	Eco Up	Eco Add
Keys/settings	on/off, test, viscosity high/low, adjustment range 1:100	on/off, test, mode, viscosity high/low, adjustment range 1:100	on/off, 4 viscosity modes, adjustment range 1:12000
LEDs	operation, viscosity high/low, alarm	operation, viscosity high/low, alarm, mode	
Inputs	external release (terminal strip)	external release, impulse, level (suction lance)*	external release, pulse, current, charge, level, flow, diaphragm break
Outputs		stroke signal, alarm (terminal strip inside)	stroke signal, alarm (terminal strip inside)
Display			3,5" touch display
Operation mode	external release	manual (external release), standard konfiguration: impulse 1:1 (poti inactive)	manual (external release), pulse, current, timer, charge
Communication			USB

\*: Level input with plug, otherwise terminal strip on the inside.

## MATERIALS

Housing: PPO, Colour: blue RAL 5007

Pump head: PP or PVDF, optional stainless steel 1.4571

Diaphragm: PTFE - EPDM compound diaphragm

Seals: FKM optional EPDM, PTFE or FFPM

Valve balls: ceramics, optional PTFE or stainless steel 1.4401

Valve spring: optional Hastelloy C4

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