

smartflow – the external gear pump with innovative hygiene concept

Compactness, hygiene and precision – that’s what the smartflow gear pump represents.

Dead space free and maintenance free. The rinsing concept ensures maximum hygiene and optimized cleaning cycles. The selected materials guarantee a long service life and excellent chemical resistance. The specially developed BLDC motor allows the adjustment of pressure profiles by rotational speed control.



ADVANTAGES



Dead space free and maximum hygiene

The innovative rinsing concept ensures maximum hygiene which prevents the accumulation of medium and microbiological growth.



Fast implementation

The AVS Römer Mastertool simplifies the installation. The smartflow can be combined with all AVS Römer products having a digital interface.



Maintenance free, durable and reliable

The magnetic coupling with hermetic seal ensures a wear-free drive and prevents leakages.



Simple usability and full control

The digital interface allows performance values to be set and read out. The integrated multicolor LED indicates the operating mode.



Constant flow rate and zero pulsation

The optimized design of the smartflow external gear pump guarantees a constant flow rate without any pulsations.



Tailored to your requirements

With variants of the standard products or custom solutions, we guarantee the perfect solution for your application.



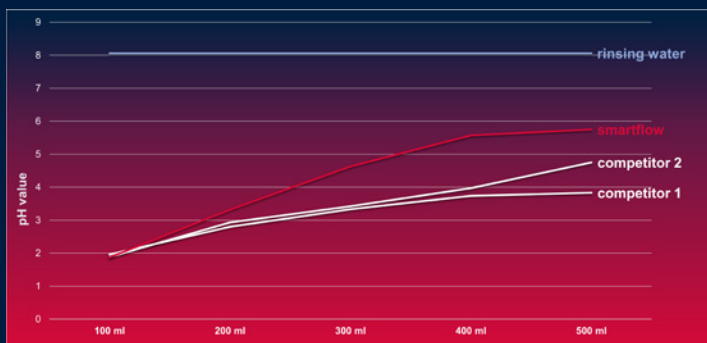
Our rinsing concept for highest hygiene

The entire volume flow passes through the wetted area in a completely directed manner.

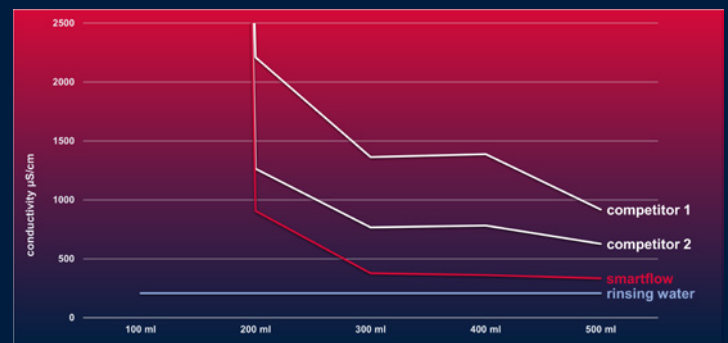
This avoids both dead spaces for the accumulation of medium and microbiological growth as well as areas with low medium exchange or low flow velocity.



pH value test



conductivity test



The result: Hygiene at the highest level

The smartflow external gear pump from AVS Römer clearly stands out from its competitors with excellent results. The advantages: Reduction in duration and number of cleaning cycles, faster changeover between critical medium or medium prone to microbiological growth.

TECHNICAL SPECIFICATIONS

Connection	thread 1/8"	Nominal voltage	24 V DC $\pm 10\%$
Environmental temperature	0 °C to +60 °C	Max. power consumption	up to 120 W (customizable)
Media temperature	0 °C to +95 °C	Control	analog and digital
Approvals	NSF/ANSI 169	analog	0–5 V (standard), 0–10 V, 4–20 mA
Pressure range permanent load	0 to 12 bar	digital	modbus RS 485 (standard), I ² C (others on request)
Max. static pressure	briefly up to 18 bar	Materials in contact with medium	stainless steel, PEEK, PPS, FKM or EPDM
Delivery rate	0 up to 4,2 l/min (depending on configuration)		



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