

Convergence Inspector Hydra

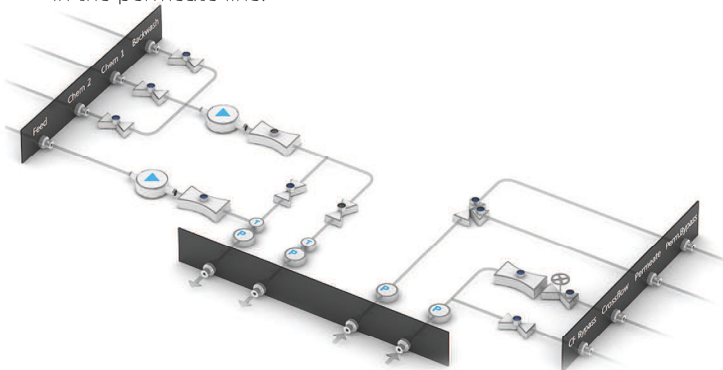
MF/UF HIGH-END



What is the Convergence Inspector?

The Convergence Inspector Hydra is the world-wide standard system for performing bench-scale studies on membranes. The ideal choice when developing new membrane applications; greatly speeding up research and reducing your time to market. The Hydra can do many types of filtrations, backwashes and chemical cleaning tests and provides ultimate flexibility. The instrument is highly suited for fouling studies, process optimization and membrane characterization.

The Convergence Inspector is equipped with coriolis massflowmeters. These are accurate direct mass-flow sensors measure also the fluid density. This makes the Hydra the most accurate fluid system in the world; the reason why it is widely employed in academic research. Dependent on the desired cross flow range, a flowmeter is placed in either the crossflow (0-30% of feed) or in the permeate line.



What does it do?

Every Convergence Inspector allows a variety of constant flow and pressure modes. The system is optimized for research on membranes and allows many types of characterization processes.

- Fit any module or cell, different modules and cells available
- Do retention tests
- Do permeation tests
- Do pressure decay tests
- Do bubble point tests
- Do fouling experiments
- Do filtration/backwash/cross flow/chemical cleaning tests
- Optional sensors such as pH, ORP, turbidity, UV-VIS, conductivity and dissolved oxygen

Advantages

- Timesaving due to automation and easy interface
- Most accurate and reproducible system in the world, ultra low flow possible.
- Highly automated with automatic PDF generation
- Allows implementation of virtually any type of calculation (permabilities, TMPs etc.)
- Easy programming allows running 24/7 with remote access
- Compact size allows easy testing on-site
- Customized software possible for QC applications
- Special models available on request, contact Convergence
- Many upgrades and options possible

Specifications Inspector Hydra MF/UF

Feed Flow Range:	150 - 4000 ml / hour
Backwash Flow Range:	200 - 6000 ml / hour
Cross Flow Range:	120 - 6000 ml / hour
Flow Accuracy:	+/- 0,2 % of reading plus zero stability
Pressure Sensor Range:	0 - 6 bar g
Pressure Sensor Accuracy:	+/- 0,1%, temperature compensated
Temperature accuracy:	0 - 70C continuous, up to 130C optional
Connections	6mm push-in, RX-300 module system optional
Materials	PFA/PVDF/SS316(I), pH 0.5 - 14, solvent resistant
Dimensions (w x h x d):	50 x 30 x 30 cm
Delivery:	Includes transport box, All-in-one PC, tubing



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