



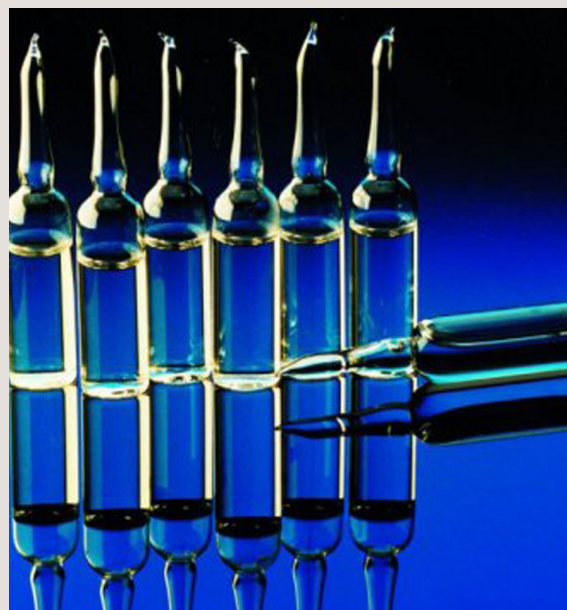
Laboratory Membrane Filtration Equipment

LabStak® M10 and LabUnit M10

The LabStak® M10 is the smallest and most compact of the Alfa Laval cross-flow membrane filtration modules. This versatile module is simple to operate and provides reliable results.

It is available as the LabStak® M10 or as the complete system LabUnit M10. Both versions are ideal tools for educational purposes, for research and development work, quality assurance, and production plant process optimisation. It can be fitted with the whole range of flat sheet membranes for ultrafiltration and microfiltration.

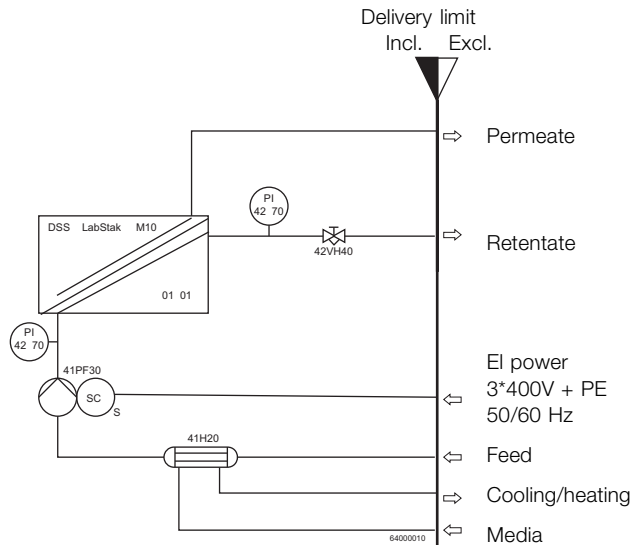
- Membrane area of only 336 cm²
- Rapid, easy exchange of membranes
- Transparent plate for observation of cross-flow
- Simultaneous test of two different membrane types
- High operating temperature (80°C)
- Only 57 ml hold-up volume in the LabStak®
- Testing volume of 1 - 3 litres
- Flow pattern similar to that of larger modules
- All components manufactured in compliance with FDA and EEC regulations



Technical data

		LabStak® M10	LabUnit M10
Membrane area	m ²	0.036	0.036
Max. inlet pressure*	bar	7	7
Max. operating temperature*	°C	80	80
Operating pH range*		1-14	1-14
Cross-flow range	l/min.	3-10	3-10
Hold-up volume	ml	57	500
Number of support plates		4	4
Number of spacer plates		2/2	2/2
Number of flat sheet membranes		4	4
Number of permeate outlets		2	2

*Please consult specifications for the applied membrane type for more detailed information on operation conditions



Components	LabStak® M10	LabUnit M10
All external steel parts	AISI 304	AISI 304
Internal, product wetted steel parts	AISI 316L	AISI 316L
Support and spacers plate	Polysulphone (PSO)	Polysulphone (PSO)
Permeate outlet hose	Silicone rubber	Silicone rubber
O-ring set	Viton	Viton
Module	-	LabStak® M10
Cross-flow pump	-	Eco 0.37 kW with rpm control
Heat/cooler exchanger	-	Alfa Laval, 0.079 m ²
Valve	-	Gemü
Pressure gauges	-	Tempress

Connections	LabStak® M10	LabUnit M10
Feed inlet	1/4" / 1/2" hose connection	1/4" / 1/2" hose connection
Retentate outlet	1/4" / 1/2" hose connection	1/4" / 1/2" hose connection
Permeate outlet, hose	OD 4 , ID 4.7mm	OD 4 , ID 4.7mm
Cooling/heating water in/out	-	ID 6mm hose / 1/4" nipple
Electrical power	-	3 x 400V, 50/60 Hz, PE, 3 m cable

Dimensions	LabStak® M10	LabUnit M10
L x W x H	200 x 190 x 130 mm	500 x 380 x 435 mm
Weight	3 kg	30 kg

Order numbers	LabStak® M10	LabUnit M10
	516652	517551

Alfa Laval reserves the right to change specifications without prior notification. ALFA LAVAL is a trademark registered and owned by Alfa Laval
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How to contact Alfa Laval

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