SARTORIUS
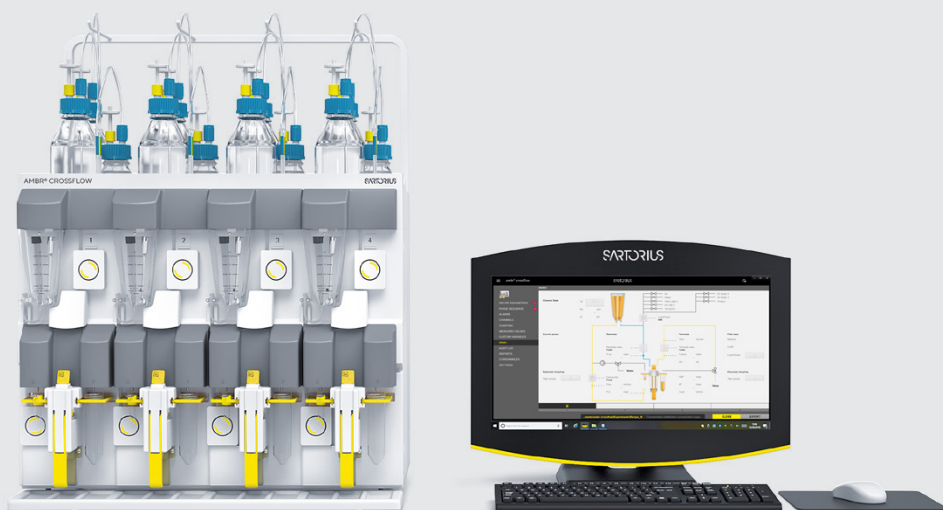
Ambr® Crossflow

Technical Specification

Scope
System consists of 4, 8, 12 or 16 independent crossflow channels (four per module). Up to four modules can be managed by one control station. This means Ambr® Crossflow is capable of performing screenings with up to 16 Ambr® CF filters simultaneously.

Recommended Working Space

System Dimensions Including Control Station

Ordering Code	System	Width	Depth	Height
061-8A60	Ambr® Crossflow—4 channel system	138.5 cm | 45.6"	42.0 cm | 16.5"	79.5 cm | 31.3"
061-8A61	Ambr® Crossflow—8 channel system	200.5 cm | 70.6"	42.0 cm | 16.5"	79.5 cm | 31.3"
061-8A62	Ambr® Crossflow—12 channel system	262.5 cm | 94.4"	42.0 cm | 16.5"	79.5 cm | 31.3"
061-8A63	Ambr® Crossflow—16 channel system	324.5 cm | 118.8"	42.0 cm | 16.5"	79.5 cm | 31.3"

Expansion Module Dimensions (Without Control Station)*

Ordering Code	System	Width	Depth	Height
061-8A70	Ambr® Crossflow—4 channel system	62.0 cm | 24.4"	42.0 cm | 16.5"	79.5 cm | 31.3"
061-8A71	Ambr® Crossflow—8 channel system	124.0 cm | 48.8"	42.0 cm | 16.5"	79.5 cm | 31.3"
061-8A72	Ambr® Crossflow—12 channel system	186.0 cm | 73.2"	42.0 cm | 16.5"	79.5 cm | 31.3"

* extension on an existing Ambr® Crossflow System to a maximum of 16 channel

Technical Data

Component Specification

Filter area		10 cm² | 50 cm² (with adapter)
Peristaltic pump (feed and load)		0 – 80 mL/min
Min. recirculation volume		5 mL
Retentate vessel		120 mL
Load cell		0 – 150 g
Mixer		0 – 500 rpm
Pressure sensors		0 – 5 bar
Max. inlet pressure		3 bar (43.5 psi)
pH probe		Operating range 4.0 – 9.0
Conductivity probe		1 to 60 mS/cm
Dimensions (W × D × H) 4 channel module		62.0 × 42.5 × 54.0 cm
Weight | 4 channel module		42 kg (93 lbs.)
IP- Standard		IP 2X
Electrical requirements	Control System	230 VAC | 50 Hz 0.9 Amp 120 VAC | 60 Hz 1.3 Amp
	Module	230 VAC | 50 Hz 0.75 Amp 120 VAC | 60 Hz 1.5 Amp

Accuracy of Measuring Systems & Pumps

	Units	Value
Load cells		
Quantity per module		4
Weighing range	g	0 – 150
Accuracy	g	0.1
Pressure sensors		
Measuring range	bar	0 – 5
Accuracy	%	±5
pH sensor		
Measuring range	pH	4.0 – 9.0
Accuracy	pH	±0.1
Conductivity sensor		
Measuring range	mS/cm	<1 – 60
Accuracy	%	±10 or 1mS
Sampling pumps		
Quantity per module		4
Accuracy (min quantity)	µL	4
Pumps		
Quantity per module		8
Max. capacity	mL/min	80
Min. capacity	mL/min	0.01

Accessory
Ambr® CF Adapter Kit for Sartocon® Slice 50

Ambr® Crossflow can now be run with the 50 cm² membrane area Sartocon® Slice 50 cassettes.

The Ambr® CF Adapter Kit SC50 enables the use of Sartocon® Slice 50 with Ambr® Crossflow systems from software release R8.29.

The reusable adapter kit is designed to accommodate four Sartocon® Slice 50 cassettes by redirecting feed, retentate, and permeate lines to the Sartocon® Slice 50 cassettes instead. They are accommodated in a specially designed filter holder. The adapter kit can be flushed with a CIP block for reuse.
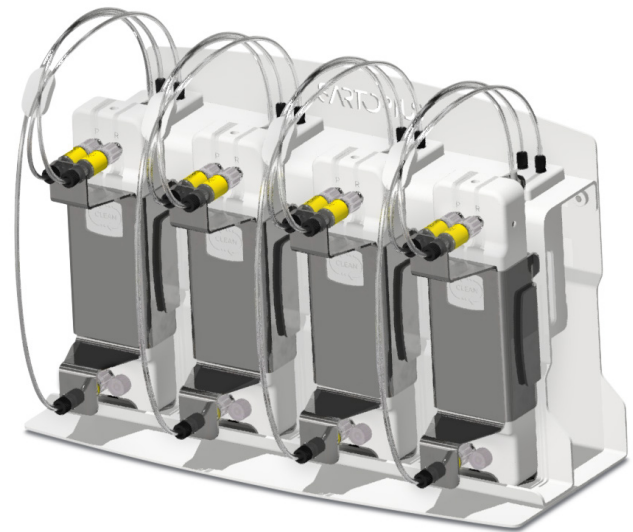

Single Ambr® CF adapter for Sartocon® Slice 50

This means Ambr® Crossflow is now capable of performing membrane screenings with up to 16 Sartocon® Slice 50 modules simultaneously.

Intuitive design of the Ambr® CF Adapter Kit SC50 ensures quick and error free assembly to the Ambr® Crossflow system. Once installed CIP of the adapter kit can be performed, leaving only the cassettes to be disposed.

Sartocon® Slice 50 Adapter Set

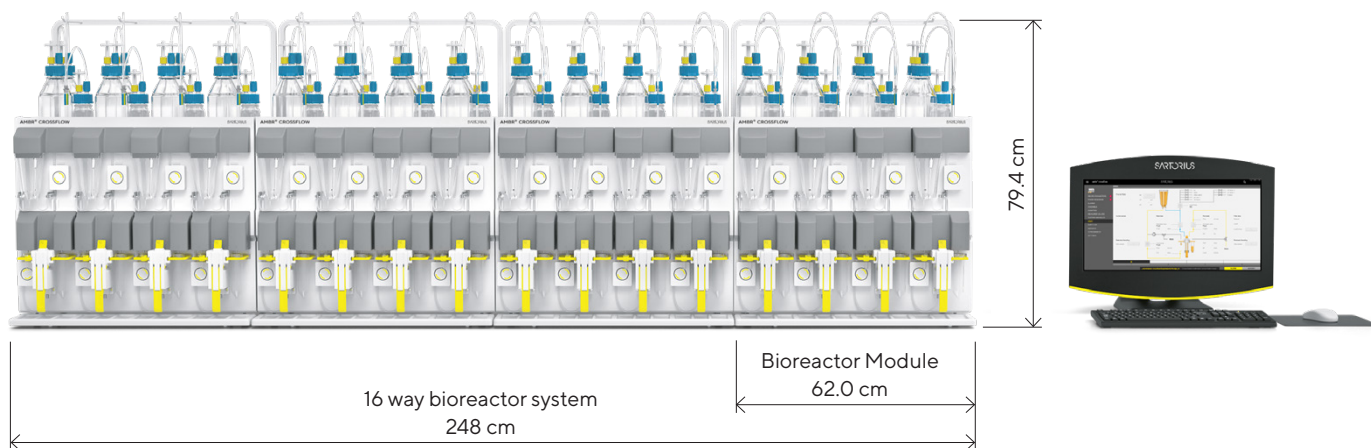| Item	Quantity
Adapter	4
Filter holder	4
CIP block	4
Stand	1
Installation Instructions	1

Ordering Details

Ordering Code	Item	Description
061-2A50	Ambr® CF Adapter Kit SC50 (pack of 4)	Adapter kit for the use of Sartocon® Slice 50 with Ambr® Crossflow

Sartocon® Slice 50 cassettes are not included and need to be ordered seperately.

Note
Please ensure that you use Ambr® Crossflow software release R8.29 or later with this accessory. For software upgrades, please contact your local support team.

Dimensions of Ambr® Crossflow—
16 Channel System

79.4 cm

Bioreactor Module
62.0 cm

16 way bioreactor system
248 cm