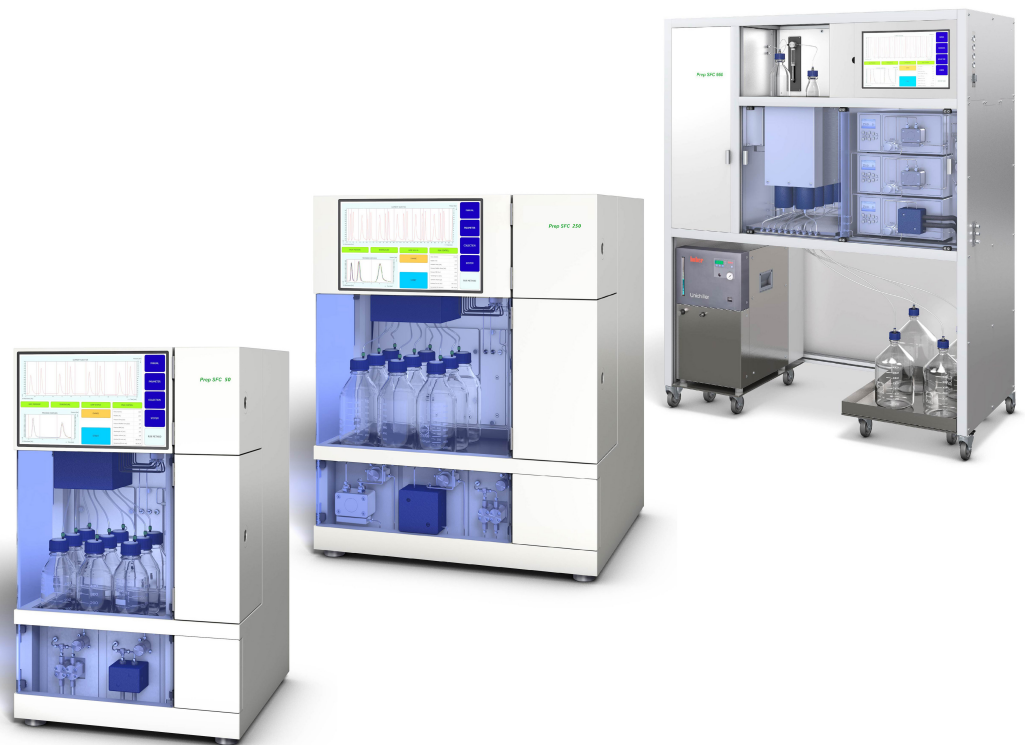




Sepiatec SFC System

Technical data sheet

The Sepiatec SFC chromatography systems are extremely compact, ensure safety on the highest level and are easy to use for any preparative separations. The systems offer the comprehensive benefits of SFC technology, such as faster separations, lower costs due to reduced consumption of organic solvents, as well as being more environmentally friendly at increased safety.



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Scope of delivery

All configurations are supplied ready to use.



NOTE

The scope of delivery depends on the configuration of the purchase order.

Accessories are delivered as per the purchase order, order confirmation, and delivery note.

Order code



NOTE

The desired configuration has to be definitely set at the order. The options included in the configurator can not be added after purchasing.

Choose the configuration according to your needs:

1 1 S F C [] [] [] [] 0 0 [] 0 []

Flow rate (at 40% modifier)

050 50 mL/min
250 250 mL/min

Multi sample and fraction module

0 Without
1 Multi sample and fraction module

Column selection valve

0 Without
1 Column selection valve

Voltage

0 100 – 120 V
1 220 – 240 V

1 1 S F C 6 6 0 0 0 0 0 [] []

CO2 recycling module

0 Without
1 CO2 recycling module

Voltage

0 100 – 120 V
1 220 – 240 V

Technical data

Sepiatec SFC systems

Specification	Sepiatec SFC-50	Sepiatec SFC-250	Sepiatec SFC-660
Dimensions (W × D × H)	560 mm × 600 mm × 880 mm	720 mm × 600 mm × 880 mm	1,500 mm × 680 mm × 1,780 mm
Weight	86 kg	130 kg	320 kg
Connection voltage	Europe: 230 ± 10% VAC	Europe: 230 ± 10% VAC	Europe: 230 ± 10% VAC
	Asia: 230 ± 10% VAC	Asia: 220 ± 10% VAC	Asia: 220 ± 10% VAC
	USA: 115 ± 10% VAC	USA: 120 ± 10% VAC	USA: 120 ± 10% VAC
Power consumption	Max. 1,300 W	Max. 2,300 W	Max. 7,500 W
Overvoltage category	II	II	II
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
IP Code	IP 20	IP 20	IP 20
Pollution degree	2	2	2
Minimum clearance on all sides	100 mm	100 mm	100 mm
Electronic connections	3 USB ports, Ethernet, HDMI	3 USB ports, Ethernet, HDMI	3 USB ports, Ethernet, HDMI
Certificate	CE / UKCA	CE / UKCA	CE / UKCA

System controller

Specification	Sepiatec SFC-50	Sepiatec SFC-250	Sepiatec SFC-660
Controller	15.6" touchscreen, 16:9 format	15.6" touchscreen, 16:9 format	15.6" touchscreen, 16:9 format
System	Integrated Windows 10	Integrated Windows 10	Integrated Windows 10
Control software	Prep SFC control software	Prep SFC control software	Prep SFC control software

Method and operation

Specification	Sepiatec SFC-50	Sepiatec SFC-250	Sepiatec SFC-660
Operating temperature range	15 – 25 °C	15 – 25 °C	15 – 25 °C
Operating pressure	Max. 400 bar	Max. 400 bar	Max. 400 bar
Method development	Yes, on analytical columns (ID: 4 – 4.6 mm)	No	No
Preparative SFC	Yes	Yes	Yes
Column Dimensions	ID: 4 – 16 mm	ID: 15 – 30 mm	ID: 30 – 50 mm
	Length: max. 250 mm	Length: max. 250 mm	Length: max. 800 mm
Column oven Temperature	Ambient to 70 °C	Ambient to 70 °C	Ambient to 50 °C
Standard column capacity	2	2	1
Max column capacity (optional)	10	10	2

Sample injection

Specification	Sepiatec SFC-50	Sepiatec SFC-250	Sepiatec SFC-660
Syringe	1.0 mL Other volumes on request	5.0 mL Other volumes on request	25 mL Other volumes on request
Loop	0.5 mL	2.5 mL	10 mL
Stack injection	Standard	Standard	Standard

Fraction collection

Specification	Sepiatec SFC-50	Sepiatec SFC-250	Sepiatec SFC-660
Pressure-less collection	Standard	Standard	Standard
Fraction Collector (Standard)	1 – 8 Fractions, individual GLS	1 – 8 Fractions, individual GLS	Single mode: 1 – 8 Fractions, individual GLS Tandem mode: 1 – 4 Fractions, individual GLS
Multi Sample and Fraction Module (Optional)	Up to 195 Fractions, Autosampler, open bed fraction collector, continuous GLS	Up to 195 Fractions, Autosampler, open bed fraction collector, continuous GLS	No

Solvents

Specification	Sepiatec SFC-50	Sepiatec SFC-250	Sepiatec SFC-660
CO ₂	Liquid	Liquid	Liquid Gaseous (with CO ₂ recycling module)
Number of organic modifier	4	4	3
CO ₂ Recycling module available	No	No	Yes

Detectors

Specification	Sepiatec SFC-50	Sepiatec SFC-250	Sepiatec SFC-660
DAD wavelengths range	190 – 720 nm	190 – 720 nm	190 – 720 nm
DAD wavelengths selectable	8	8	8
ELSD (optional)	Yes	Yes	Yes
MS (optional)	Yes	Yes	Yes

Pumps

Specification	Sepiatec SFC-50	Sepiatec SFC-250	Sepiatec SFC-660
Total flow rate at 40 % modifier	50 mL / min	250 mL / min	660 mL / min
CO ₂ pump flow rate	Max. 30 mL/min	Max. 150 mL/min	Max. 400 mL/min
CO ₂ pump pressure	400 bar	400 bar	400 bar
Number of modifier pumps	1	1	2
Modifier pump flow rate	Max. 30 mL/min	Max. 150 mL/min	Max. 250 mL/min Max. 150 mL/min
Modifier pump pressure	400 bar	400 bar	400 bar

Specification	Sepiatec SFC-50	Sepiatec SFC-250	Sepiatec SFC-660
Add-on pump	Optional external	Standard integrated	Standard integrated

Ambient conditions

For indoor use only.

Max. altitude above sea level	2,000 m
Ambient and storage temperature	15 – 25 °C
Maximum relative humidity	45 – 75% not condensing

Spare parts and accessories

Use only genuine BUCHI consumables and spare parts in order to ensure correct, safe and reliable operation of the system.



NOTE

Any modifications of spare parts or assemblies are only allowed with the prior written permission of BUCHI.

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