

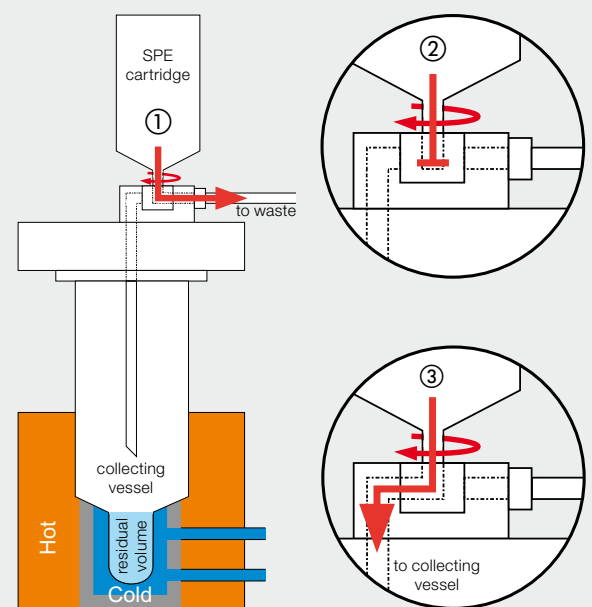
SPE & Evaporation



Conventional solid phase extraction (SPE), an essential step in many analytical procedures, includes a number of laborious steps. With the help of the modified parallel evaporator, Syncore®, all essential work-up steps including evaporation of the eluates are achieved without any sample handling between the individual steps.

The SPE modules meet the following requirements:

- little sample handling: conditioning, enrichment, washing, elution and evaporation are carried out without interruption rendering high throughput
- individual control: each sample has its own stopcock to control the flow, therefore achieving safe operation and high recovery rates
- no cross-contamination: no risk of contamination from adjacent samples due to individual sample sealing
- efficient evaporation: elimination of sample transfer allows for fast parallel evaporation in an environmentally sound way



① "Waste" position:

Cartridge is conditioned, enriched with the analyte, and washed. All liquids are transferred to a waste vessel.

② "Stop" position:

Closure of the cartridge to prevent from running dry or to close the system during evaporation.

③ "Elute" position:

Elution of the analyte into the collecting vessel, followed by concentration to a residual volume.

Syncore SPE work-up accessories

The Syncore® SPE work-up accessories are available in two different configurations. With the SPE Basic setup, the sample is transferred directly into the collecting vessel for subsequent evaporation. The flow of each position

can be individually controlled. In contrast, the SPE Advanced setup allows separating the liquid passed through a SPE cartridge into either a waste vessel or a collecting vessel, respectively. The eluate is then evaporated to dryness (Polyvap) or to a pre-defined residual volume (Analyst). The accessories are

available as MODULE to upgrade a standard Syncore vacuum cover, or as fully equipped COVER. The accessories are compatible with standard Luer-tipped SPE columns or filter discs. For further information please visit our homepage:

www.buchi.com → parallel evaporation

SPE Basic accessories



The SPE Basic MODULE intended to upgrade an existing Syncore vacuum cover comprises a coated aluminium plate, flow-control valves (PEEK) and flanged tubes (FEP). The corresponding SPE Basic COVER consists of a complete vacuum cover equipped with the SPE Basic Module.

SPE Basic setup	Order-no.	
	MODULE	COVER
Format 4	*	*
Format 6	*	*
Format 12	051440	051438
Format 24	051463	051439
Format 48	*	*

* available on request

SPE Advanced accessories



The SPE Advanced MODULE intended to upgrade an existing Syncore vacuum cover comprises a coated aluminium plate, 3-way stopcocks (PTFE, FEP) fitted on a support, a waste vessel and tubes (FEP). The corresponding SPE Advanced COVER consists of a complete vacuum cover equipped with the SPE Advanced Module.

SPE Advanced setup	Order-no.	
	MODULE	COVER
Format 4	*	*
Format 6	*	*
Format 12	051164	051448

* available on request

Accessories and spare parts

Item	Order-no.
Set of 12 flow-control valves	051453
Set of 12 three-way stopcocks	051457
Tube cutter	019830
FEP tube (OD 1/8", ID 1/16", L 5 m)	044354

Item	Order-no.
Set of 6 flanged FEP tubes	051459
Set of 4 x 3 FEP waste tubes, length adjusted	051455
Set of 25 tube fittings (1/8", green)	040956
Set of 25 ferrules (1/8", green)	040961

BÜCHI Labortechnik AG

CH – 9230 Flawil 1
T +41 71 394 63 63
F +41 71 394 65 65
buchi@buchi.com
www.buchi.com

BÜCHI Labortechnik GmbH

D – 45127 Essen
Freecall 0800 414 0 414
T +49 201 747 490
F +49 201 237 082
deutschland@buchi.com
www.buechigmbh.de

BÜCHI Sarl

F – 94656 Rungis Cedex
T +33 1 56 70 62 50
F +33 1 46 86 00 31
france@buchi.com
www.buchi.fr

BÜCHI UK Ltd.

GB – Oldham OL9 9QL
T +44 161 633 1000
F +44 161 633 1007
uk@buchi.com
www.buchi.co.uk

BÜCHI Labortechnik GmbH

NL – 3342 GT
Hendrik-Ido-Ambacht
T +31 78 684 94 29
F +31 78 684 94 30
netherlands@buchi.com
www.buchi.nl

BÜCHI Italia s.r.l.

I – 20090 Assago (MI)
T +39 02 824 50 11
F +39 02 57 51 28 55
italia@buchi.com
www.buchi.it

BÜCHI Hong Kong Ltd.

HK – Central
T +852 2389 2772
F +852 2389 2774
china@buchi.com
www.buchi.com.cn

BÜCHI Shanghai

RC – 500052 Shanghai
T +86 21 6280 3366
F +86 21 5230 8821
china@buchi.com
www.buchi.com.cn

BÜCHI (Thailand) Ltd.

T – Bangkok 10600
T +66 2 862 08 51
F +66 2 862 08 54
bacc@buchi.com
www.buchi.com

Nihon BÜCHI K.K.

J – Tokyo 110-0008
T +81 3 3821 4777
F +81 3 3821 4555
nihon@buchi.com
www.nihon-buchi.jp

BÜCHI India Private Ltd.

IND – Mumbai 400 055
T +91 22 667 18983 / 84 / 85
F +91 22 667 18986
india@buchi.com
www.buchi.in

BÜCHI Canada Ltd.

CDN – Thornhill, Ontario L4J6Z2
T +1 416 277 7407
F +1 905 764 5139
canada@buchi.com
www.mybuchi.com

BÜCHI Corporation

USA – New Castle, Delaware 19720
Toll Free: +1 877 692 8244
T +1 302 652 3000
F +1 302 652 8777
us-sales@buchi.com
www.mybuchi.com

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www.buchi.com

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