SAMPLE PREPARATION

Solid phase extraction - Automate SPE LV6

Plunger technology for 6mL columns

Description	P/N	Qty
Instrument		
Advion Interchim Scientific SPE workstation LV6	SPE000	1
Sample rack (for autosampler)		
Advion Interchim Scientific SPE workstation LV6 Sample Rack 13X100MM	SPE010	1
Advion Interchim Scientific SPE workstation LV6 Sample Rack 18X150MM	SPE020	1
Collection rack		
Advion Interchim Scientific SPE workstation LV6 collection rack 12X32MM	SPE030	1
Advion Interchim Scientific SPE workstation LV6 collection rack 12X75MM	SPE040	1
Advion Interchim Scientific SPE workstation LV6 collection rack 13X100MM	SPE050	1
Advion Interchim Scientific SPE workstation LV6 collection rack 16X100MM	SPE060	1
Advion Interchim Scientific SPE workstation LV6 collection rack 18X150MM	SPE070	1
Advion Interchim Scientific SPE workstation LV6 collection rack 28X140MM	SPE300	1
Plungers for SPE columns 1- 3 and 6 mL		
Advion Interchim Scientific SPE workstation LV6 plunger 1 mL cartridges	SPE080	1
Advion Interchim Scientific SPE workstation LV6 plunger 3 mL cartridges	SPE090	1
Advion Interchim Scientific SPE workstation LV6 plunger 6 mL cartridges	SPE100	1
Adapters for SPE columns 1 and 6 mL		
Advion Interchim Scientific SPE workstation LV6 insert 1mL cartridges	SPE110	1
Advion Interchim Scientific SPE workstation LV6 insert 3mL cartridges	SPE120	1
Consumables - seals for plungers		
Advion Interchim Scientific SPE workstation LV6 seal for plunger 1 mL cartridges	SPE130	10
Advion Interchim Scientific SPE workstation LV6 seal for plunger 3 mL cartridges	SPE140	10
Advion Interchim Scientific SPE workstation LV6 seal for plunger 6 mL cartridges	SPE150	10
Advion Interchim Scientific SPE workstation LV6 seal Kalrez for plunger 1 mL cartridges	SPE160	10
Advion Interchim Scientific SPE workstation LV6 seal Kalrez for plunger 3 mL cartridges	SPE170	10
Advion Interchim Scientific SPE workstation LV6 seal Kalrez for plunger 6 mL cartridges	SPE160	10

Concentrate your elution fractions with the puriVap-6™ evaporation system

Vacuum manifold SPE columns

Compatible with all existing SPE columns with "luer" tip on the market, the vacuum manifold saves sample preparation time and contributes to reproducibility.

This type of instrument provides the simultaneous filtration or purification of 12 to 24 samples. A shut-off valve is installed on each channel.

Easy to use, it requires a simple laboratory water tube to make the vacuum. To avoid flow problems due to a loaded sample or an insufficient vacuum, it is preferable to use a vacuum pump, which will bring a better reproducibility and repeatability of the extractions.

The flow rate of the fluids depends on the size of the columns used.

RELATED PRODUCTS

Find our SPE ranges :
Upti-Clean®, PolyClean™ & Atoll™

Vacuum manifold protocol P/N 518101

1. Screw the black lid of the upper part of the manifold.
2. Introduce the plastic waste in the Glass basin.
3. Insert collection needles on male Luer outlets under the lid.
4. Set taps on the lids female Luer inlets.
5. Place lid cover on the glass basin.
6. Install SPE columns on closed taps.
7. Close unused lids on female Luer inlets.
8. Open vacuum on the Glass basin outlet valve.
9. Establish SPE steps at constant flow and depression (the vacuum may be monitored with the Glass basin valve).
10. Remove waste after the rinsing step & insert collection rack with glass tubes.
11. Replace lid cover, add vacuum to Glass chamber, elute to collect sample.
12. Insert dry cover instead of the lid. re-apply vacuum.
13. Attach dry cover (with heated nitrogen outlet) for evaporation and sample concentration.

24 positions vacuum manifold

Description	P/N	Qty
Vacuum manifold Set-Complete*	Q72031	1 u
Include the following part numbers: Q72231, Q72241, Q72251, Q57831, Q72291, Q72301, Q72331, B0D910 Additional options not included: Q72341, Q72271		
Spare parts & Accessories		
Glass chamber	Q72231	1 u
Cover, gasket, & 24 valves	Q72241	1 u
Gasket	Q72251	2 u
Polypropylene SPE needles	Q57831	24 u
Stainless steel SPE needles	Q72271	24 u
Complete collection rack	Q72281	1 u
Tray / tubes 13 mm	Q72291	1 u
Tray / tubes 16 mm	Q72301	1 u
Valves	Q72331	24 u
Drying cover	Q72341	1 u
Polypropylene waste container	B0D910	2 u

24 positions vacuum manifold
Q72031

Q72241

SAMPLE PREPARATION

Solid phase extraction - Vacuum manifold SPE columns

RELATED PRODUCTS

Vacuum flow: 18L/min
Maximum vacuum pressure: 20mbar
Vacuum control: yes - manual vacuum regulator
Vacuum manometer: yes
P/N : VPAA10 (220-240V)
P/N : VPAA11 (110-120V)

GLASS TEST TUBE BOROSILICATE

Type 1 neutral glass, resistant to thermal shock
Pharmaceutical grade

Volume	Dim.	P/N	Qty
4 mL	10 x 75 mm	AXETM5	1000 u
6 mL	12 x 75 mm	AXETN5	1000 u
10 mL	13 x 100 mm	AXETO5	1000 u
15 mL	16 x 100 mm	AXETP5	1000 u
20 mL	16 x 125 mm	AXETR5	1000 u
22 mL	16 x 150 mm	AXETS5	1000 u
30 mL	18 x 150 mm	ACETT5	500 u

12 positions vacuum manifold

Description	P/N	Qty
Vacuum manifold Set-Complete	518101	1 u
Include the following part numbers: Q71531, Q71541, Q71551, Q71561, Q57821, Q71591, Q71601, Q71611, Q71641, Q71661, Q71671, Q71681, Q71701 Additional options not included: Q71571, Q71691		
Spare parts & Accessories		
Glass chamber	Q71531	1 u
Cover, gasket, & 12 valves	Q71541	1 u
Gasket	Q71552	2 u
Glass chamber + vacuum valve	Q71561	1 u
Polypropylene SPE needles	Q57821	12 u
Stainless steel SPE needles	Q71571	12 u
Complete collection rack	Q71581	1 u
Tray / tubes 13 mm	Q71591	1 u
Tray / volumetric tube	Q71601	1 u
Tray / tubes 16 mm	Q71611	1 u
Tray / autosampler vials	Q71641	1 u
Tray / tube holder	Q71661	1 u
Tray / base	Q71671	1 u
Valves	Q71681	12 u
Drying cover	Q71691	1 u
Polypropylene waste container	Q71701	2 u

Accessories

Description	P/N	Qty
Female Luer Fittings	Q72361	2 u
Male Luer Fittings	Q72371	2 u
Support posts for rack	Q72381	3 u
Legs for cover - black	Q72391	4 u
Vacuum gauge & valve assembly	Q72401	1 u
Valve assembly only	Q72421	1 u
Vacuum gauge	Q72441	1 u
Retaining clips	Q72451	12 u
Retaining clips	Q72452	24 u
Vacuum manifold plugs	Q72462	50 u

Needles and control valves

Description	P/N	Qty
Control Valve / PTFE SPE needle	Q72470	25 u
Control Valve / PTFE SPE needle	Q72471	50 u
PTFE SPE needles	Q72500	100 u
PTFE SPE needles	Q72501	500 u

Concentrate your elution fractions with the puriVap-6™ or puriFlash® XS-Vap evaporation systems

Vacuum manifold for well plates

An essential tool for the use of multi-well plates, the vacuum extraction device provides simple, fast and effective implementation of sample preparation techniques.

- Filtration
- Filtration of precipitated proteins
- Liq/Liq Extraction
- Solid Phase Extraction

Description	P/N	Qty
Acrylic vacuum manifold with control valve	CV6200	1 u
Universal vacuum Manifold with valve and gauge	113050	1 u
Adaptor for medium skirt / drip plates (for use with 113050)	113100	1 u
Adaptor for short skirt / long drip plates (for use with 113050)	113110	1 u
Spacer Insert to allow use of round well Polypropylene microplates (compatible with CV6200 and 113050)	113380	1 u
Spacer Insert to allow use of 350µl Microplates (compatible with CV6200 and 113050)	113410	1 u
Replacement gasket, profile (to fit between top plate and vacuum chamber), for CV6200 and 113050.	113420	1 u
Replacement gasket, flat (to fit under the filtration plate), for CV6200 and 113050.	113450	1 u
Disposable Reservoir Tray	BB2150	25 u

CV6200

113050

RELATED PRODUCTS

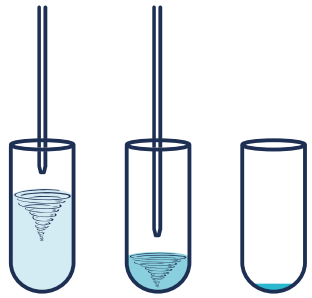
Vacuum flow: 18L/min
Maximum vacuum pressure: 20mbar
Vacuum control: yes - manual vacuum regulator
Vacuum manometer: yes
P/N : VPAA10 (220-240V)
P/N : VPAA11 (110-120V)

SAMPLE PREPARATION

Evaporation - Evaporator puriFlash® XS-Vap

Next-generation multifunction evaporator designed for sample concentration

With the puriFlash® XS-Vap, the concentration of your samples will no longer be a constraint! Integrating innovative technologies, both evaporation time and gas consumption are reduced. Our evaporator is controlled by software to guarantee you working comfort and daily time savings.
Its operation is so simple: place your sample tubes to be concentrated in the device. Start the evaporation process and rely on our nozzle height adjustment technology. In a few minutes, your solvent is evaporated and your compounds are ready for analysis



The puriFlash® XS-Vap evaporator is at your side, from A to Z, during your concentration/evaporation

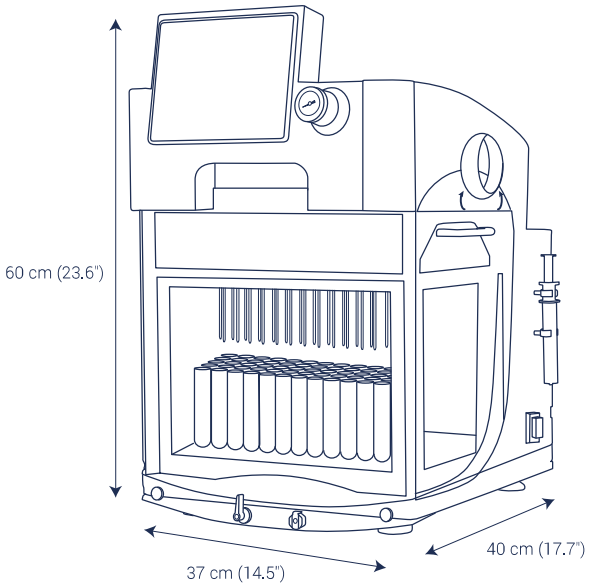
Whatever your field of activity (Research, Development, Quality Control, Process), the puriFlash® XS-Vap will become an essential instrument in your laboratory.
The puriFlash® XS-Vap has been designed to be much more than a simple solvent evaporator! Thanks to the height adjustment of the nozzles, the gas consumption is drastically reduced and the evaporation speed is increased without losing your molecules.

PLUG & PLAY: Plug in, use

Take advantage of the many features of your evaporator.
The puriFlash® XS-Vap can be up and running in a matter of moments to make your work easier and save you time every day.

How to check the evaporation process?

The transparent design provides visibility to control the samples during the evaporation and to adjust the position of the nozzle according to the solvent level in the tube.



Certified to standards CE & UL

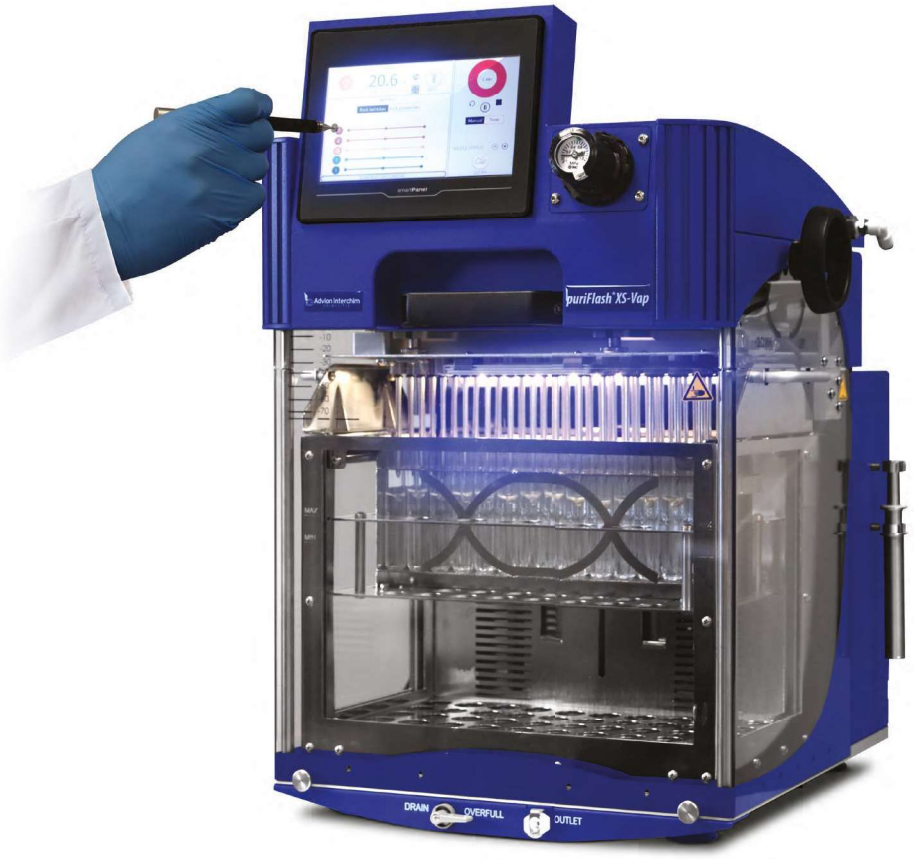
Specifications

- Evaporation capacity: up to 90 samples in parallel
- Sample volume: from a few milliliters to 250 mL per position
- Gas consumption: use of nitrogen or compressed air to supply the device at a pressure of 1-3 bar. The consumption is less than
  1L/min per position
- Heating temperature: ambient to 90°C
- Adjustment of the nozzles: the level of the nozzles is adjustable depending on the volume and the evaporation rate of the solvent.
- Lights: different lights visually indicate the stage of operation
- Control software: intuitive control software integrated in a touch screen
- Compatibility: puriFlash® XS-Vap is compatible with all types of solvents. Compatible with the racks of our puriFlash®
- Tube sizes: 13 x 100 mm, 16 x 100 mm, 16 x 150 mm, 18 x 150 mm & flacons 250 mL, vials 2 mL, 4 mL, 7 mL
- Footprint & weight: width 37 cm x Depth 40 cm x Height 60 cm. Weight: 35 kg

Evaporation - Evaporator puriFlash® XS-Vap

Integrated software

- Control of the heating temperature
- Two modes: Manual and Timer (programming of an evaporation time)
- Working status by colored light in the device
- Messages indicate the steps status
- Select the nozzle rows and rack dimensions



Evaporation rate table

Solvent	Boiling point	Gas consumption per position	Heating temperature Evaporation time 30°C	35°C	40°C	50°C	60°C
Acetonitrile	82°C	< 1L/min	---	40	30	24	15
Cyclohexane	80.75°C	< 1L/min	---	---	14	11	9
Chloroform	61.2°C	< 1L/min	---	---	12	10	---
Dichloromethane	39.6°C	< 1L/min	12	---	---	---	---
Ethyle acetate	77.1°C	< 1L/min	---	19	17	11	9
Diethylether	34.6°C	< 1L/min	6	---	---	---	---
Ethanol	78°C	< 1L/min	---	---	40	33	23
Isopropyl alcohol	82.5°C	< 1L/min	---	---	40	32	---
Hexane	69°C	< 1L/min	---	12	9	6	4
Methanol	64.7°C	< 1L/min	---	29	28	19	---
Methylterbutyl ether	55.2°C	< 1L/min	---	---	8	---	---
THF	66°C	< 1L/min	---	---	13	11	---
Toluene	110.6°C	< 1L/min	---	---	38	29	---
Water	100°C	< 1L/min	---	---	---	110	104

- Sample volume: 10 mL
- Test tube sizes: 16 x 100mm
- Gas: 1 bar - Nitrogen

Solvent	Boiling point	Gas consumption per position	Heating temperature Evaporation time 40°C	50°C
Ethyle acetate	77.1°C	1.2L/min	---	17
Ethanol	78°C	1.2L/min	---	36
Isopropyl alcohol	82.5°C	1.2L/min	---	32
Hexane	69°C	1.2L/min	11	8
Methanol	64.7°C	1.2L/min	---	23
Toluene	110.6°C	1.2L/min	---	36

- Sample volume: 50 mL
- Test tube sizes: 250 mL
- Gas: 1 bar - Air compressed

SAMPLE PREPARATION

Evaporation - Evaporator puriFlash® XS-Vap

P/N	Description	Additional description	Qty
Evaporator puriFlash XS-Vap			
EVAA00	puriFlash® XS-Vap Evaporator 220-240V	Delivered without accessories (adapter; manifold, nozzles, rack) Tension : 220-240 VAC included : - drain tube (2 meters) - gas tube 1/4'' (3 meters) - basket delivered without accessories & power cord Certified CE & UL Warranty 1 year	1 u
Adapter for rack test tubes			
EVAA10	Adapter for puriFlash® rack XS-G4-G5 for puriFlash® XS-Vap	Adapter for 12,13,16 & 18 mm test tube racks (external diameter) the adapter is placed in the basket delivered with the puriFlash® XS-Vap	1 u
Manifold 6, 56 & 90 positions			
EVAA20	Manifold 56 positions for test tubes 13, 16, 18 mm OD with grid for puriFlash® XS-Vap	Delivered without nozzles Delivered with the grid Number of lines: 4 Number of positions per line: 14 P/N nozzles: EVAA50 Manifold compatible with the following racks: EVAB30,EVAB40, 1R8610, PF4391, AYHE50, PF4381, AYHE40 Not compatible with the rack puriFlash® XS - rack 16 x 100 & 16 x 150 mm test tubes Compatible with the following racks of flash chromatography system: - PF-XS520, PF-XS535 (tubes 18 mm OD) - Gen 4 :PF215 , PF430, PF450 , PF4125, PF4250 (tubes 16 mm & 18 mm OD) - Gen 5 : PF5020, PF5050, PF5125, PF5250, PF5250P (tubes 16mm & 18mm OD) - EVAB30 (16mm OD) , EVAB40 (13mm OD)	1 u
EVAA30	Manifold 90 positions for test tubes 13 mm OD with grid for puriFlash® XS-Vap	Delivered without nozzles Delivered with the grid Number of lines: 5 Number of positions per line: 14 P/N nozzles: EVAA50 Manifold compatible with the following racks: 1R8580 , 1R8590 Compatible with the following racks of flash chromatography system: - PF-XS520, PF-XS535 (tube 13 x 100 mm)	1 u
EVAA40	Manifold 6 positions for 250 mL glasswares for puriFlash® XS-Vap	Delivered with 6 nozzles (P/N: 390191) Delivered with the grid Rack suitable with this manifold: EVAB90 P/N glassware 250 mL - dry end point: B684D0 P/N glassware 250 mL - 1mL end point: BVLGH0	1 u
Nozzles for manifold			
EVAA50	Nozzle for manifold 56 & 90 positions for puriFlash® XS-Vap	For manifold EVAA30 & EVAA20	1 x 14 u
Tool to remove the nozzles from the manifold (optional)			
EVAA60	Tool to connect & disconnect nozzles from manifold for puriFlash® XS-Vap	Allows to disconnect/disconnect the nozzles Nozzles can be disconnected manually	1 u
Exhaust tube			
EVAA70	Fume enclosure with venting hose 4 meters for puriFlash® XS-Vap	Allow to work outside of a fume hood	1 u
Plate for use with 150 mm high tubes and heating temperature above 60°C			
EVAA80	Plate for water bath vapor for puriFlash® XS-Vap	Suitable for the following racks: 1R8580, 1R8590, 1R8610, PF4391, AYHE50, PF4381, AYHE40, AYHE30 Use only for tubes with a height of 150 mm and a heating temperature above 60°C	1 u
Test tubes and glasswares 250 mL			
BVLGH0	250 mL glasswares with 1 mL end point for puriFlash® XS-Vap 250 mL glasswares dry end point	Glassware for rack EVAB90	1 u
B684D0	250 mL glasswares dry end point	Glassware for rack EVAB90	1 x 10 u
1A0132	Empty centrifuge tubes 15 mL conical graduated with blue caps non sterile	PP centrifuge tube for rack 1R8610	1 x 1 000 u