

THE ESSENTIAL SYSTEMS & CONSUMABLES FOR HIGH PERFORMANCE LC PURIFICATION & MASS SPECTROMETRY



TWO COMPANIES, ONE GOAL BEST-IN-CLASS SOLUTIONS FOR SCIENTISTS



Dear Customers,

Sharing a customer-focused company vision, a taste for excellence with state-of-the-art product solutions and working hand in hand for eight years, it was natural that **Advion®**, a well known player in the world of mass spectrometry and chromatography products, and **Interchim®**, a global provider of instrumentation and consumables for life sciences, research and industry would strengthen their ties to accompany their customers and partners even further.

We are happy to introduce you the new **Advion Interchim Scientific**, we manufacture and deliver tailored solutions to improve our customers' most challenging identification, quantification, and purification needs with our broad range of innovative instruments, consumables, reagents, and scientific expertise.

Our unrivaled portfolio ranges from media and columns to consumables, accessories and instruments for flash chromatography, preparative (U)HPLC, analytical (U)HPLC, mass spectrometry, ICP-MS, coupled with intelligent apps and software.

You can find all our products on our websites advion-interchim.com, flash-chromatography.com as well as our application notes and tips and tricks in our blog articles. Both technical and support services from **Interchim®** and **Advion®** remain at your disposal to help you overcome your challenges and to choose the most appropriate product solutions.

Strategically aligned for global growth, we recognize that our success has always come from our customers, and we are dedicated and committed to providing best-in-class service and support worldwide.

From our respective headquarters in France and the United States, our subsidiaries, and our independent distributors network, we thank you for your confidence and we are proud to accompany you in the success of your projects.

Advion Interchim Scientific

GET A LC PURIFICATION PLATFORM AS UNIQUE AS YOUR WORK!

Customize it and make yours the puriFlash® 360° now



Key features:

- Simplicity: Powerful features but easy to use
- Concentrated of technologies in a minimum of space that improve the Chemists sphere of use
- Easy Accessibility of multi-profile users with a minimum of training thanks to InterSoft®X software.

Low to high pressure LC purification of small & large molecules with 3X detection UV, ELSD & MS

The puriFlash® 360° LC Purification Platform combines Simplicity & Best-in-Class design to make Chemists purifications by liquid chromatography easier, intuitive & productive. No matter what is your own expertise level, the platform piloted by InterSoft®X, with Genius our embedded artificial intelligence, allows routine to sophisticated RP purification of small organics, natural products, peptides & proteins. You can stay focused on your job with the necessary peace of mind while having the certainty to get the best purification as possible. There is no risk of product loss thanks to the full monitoring of the system through sensors, the management of overpressures and pauses. The platform runs 24/7 with Confidence for a minimum of After Sales Service required.

Small, but Mighty the puriFlash® XS 520 Plus with its specification able to run 300mL/min @ up to 20bar is the ideal entry system for routine NP purification of small organics. The puriFlash® 5.250, with up to 250bar, as for it, offers a second dimension to enlarge the separation potential to isolate safely high value compounds.



ULTRA HIGH PERFORMANCE PURIFICATION

puriFlash® XS 520 Plus

Small Organic molecules
 Impurities Identification
 Natural Products
 Peptides, Oligonucleotides
 Proteins, Bio-drugs
 Metabolites Isolation
 Traces Enrichment



Accuracy
& Repeatability

300
ml/min

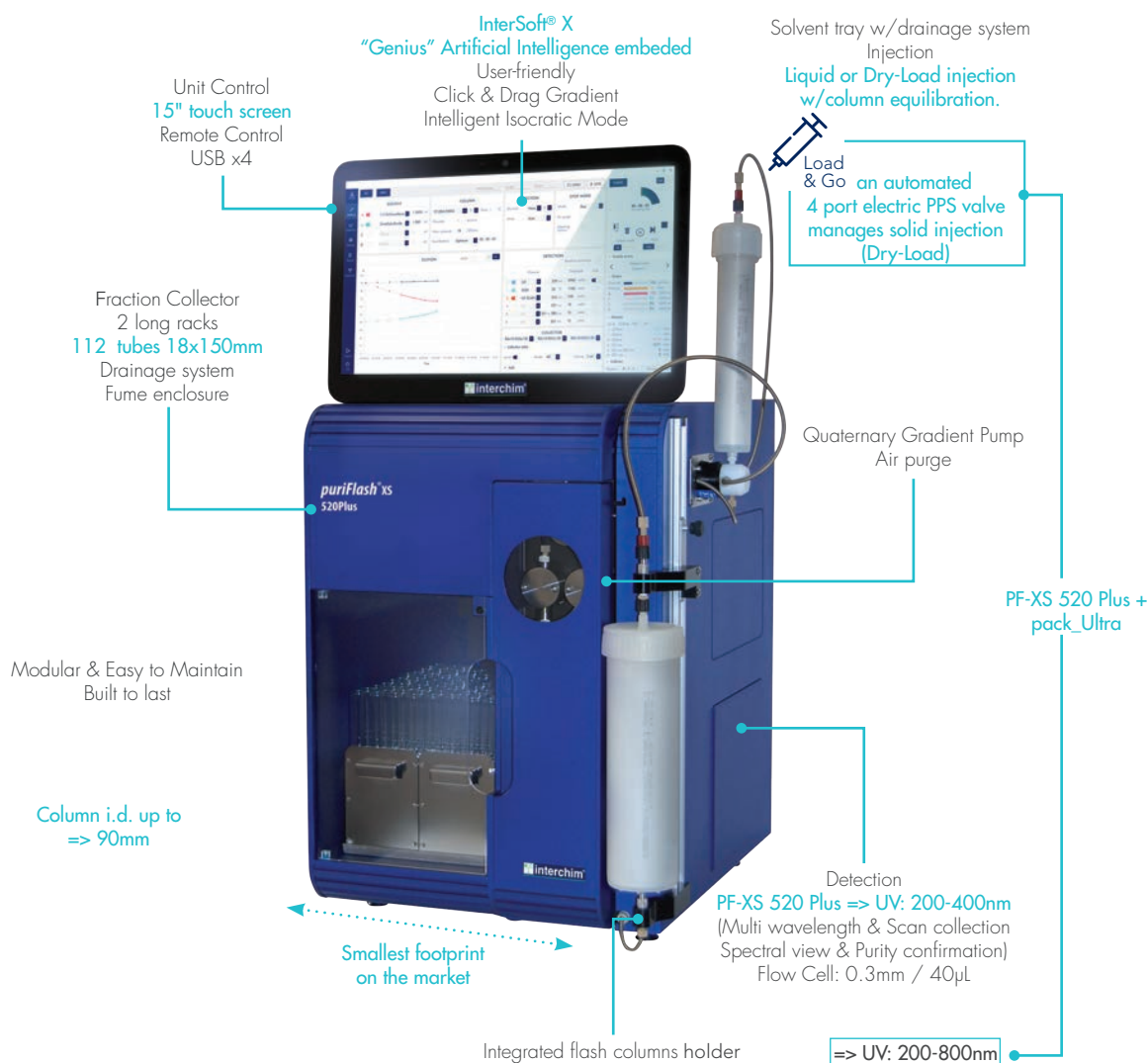
up to
800G

20
bar

Small but mighty

Concentrated technology for unmatched performance.

Designed for routine flash purifications, the technology and unique quality of the pump will take you much further. Increase the pressure, the puriFlash® XS 520 Plus will nevertheless offer precision, linearity and repeatability and allows you to perform complex and sophisticated purifications. No matter whether you're an expert or not, Genius will support you to achieve the best purification possible.



Flash
& Go



Boost
& Go

P/N: PFXS50 (220v)
 P/N: PFXS51 (110v)

puriFlash® 5.050

Small Organic molecules
 Impurities Identification
 Natural Products
 Peptides, Oligonucleotides
 Proteins, Bio-drugs
 Metabolites Isolation
 Traces Enrichment



250 ml/min
 up to 80mm i.d. Col.
 50 bar

Cross-over Flash / Prep

Access preparative chromatography.
 A single instrument to perform both flash and preparative purifications. Switch from normal to reverse phase and work with reusable columns.
 Finally, it achieve a better ecological approach and sustainable development of purification.

InterSoft® X
 "Genius" Artificial Intelligence embedded
 User-friendly
 Click & Drag Gradient
 Intelligent Isocratic Mode

Unit Control
 15" touch screen
 Remote Control
 USB x8 - RJ45

Fraction Collector
 3 racks Gen5
 132 tubes 18x150mm
 Drainage system

Modular & Easy to Maintain
 Built to last

Column i.d. up to
 => 80mm

Solvent tray w/drainage system

Pre-cols holder

Quaternary Gradient Pump
 Air purge

Injection
 Liquid or Dry-Load injection
 w/column equilibration.

Load & Go™ technology:
 an automated
 6 port electric valve
 manages solid injection

Detection
 PF-5.050: UV: 200-400nm
 PF-5.050 + Pack-UVextended: UV: 200-800nm
 (Multi wavelength & Scan collection
 Spectral view & Purity confirmation)
 Flow Cell: 0.3mm / 40µL

Integrated flash columns holder



P/N: PFG5C0 (220v)
 P/N: PFG5C1 (110v)



ULTRA HIGH PERFORMANCE PURIFICATION

	Flash Purification			Flash Purification
	XS 520			5.020
Pump				
Flow rate	300mL/min			300mL/min
Pressure max.	20bar			20bar
Quaternary Gradient	yes			yes
Air purge	yes			yes
Washing discs	no			no
Pump washing discs (pack)	no			no
Detector				
UV: 200 - 400nm multi wavelength & scan collection	*Plus	_UVextended	_Ultra	yes
UV: 200 - 800nm multi wavelength & scan collection	no	yes	yes	pack-UVextended
Spectral view & purity confirmation				yes
iELSD Detection (pack)				pack-iELSD
pH/Conductimeter				no
Injection				
4 port electrical valve	*Plus	_UVextended	_Ultra	yes
6 port electrical valve w/loop				no
6 port + 10 port electrical valves w/loop				no
Injection mode: liquid - Dry-Load				yes
Column Selection valve				
14 port /6 position electrical valve				no
6 port electrical valve				no
System Optimization				
Tubings - after pump	1/8" x 1.6mm id			1/8" x 1.6mm id
Flow cell-optical length	0.3mm/40µL			0.3mm/40µL
Columns Holder				
Integrated	yes			yes
Pre-column holder	no			yes
Fraction Collector				
Regular Collector	2 long racks 112 tubes 18x150mm			3 racks Gen5 132 tubes 18x150mm
Unit control				
Touch screen 15"	yes			yes
USB	4			8
RJ45	yes			yes
Software				
Intersoft® X	yes			yes
Safety				
Leak detection (pump, FC, iELSD, holders)	no			yes
Solvent tray w/drainage system	yes			yes
Collector w/drainage sytem	yes			yes
Solvent level monitoring	no			yes
RFID	no			yes
Fume Encloser	yes			yes
Size				
	W: 14" - 35.5cm D: 18.5" - 47cm H: 30" - 77cm			W: 15.75" - 40cm D: 20.0" - 51cm H: 29.5" - 75cm

Flash Purification**5.050**

250mL/min

50bar

yes

yes

yes

no

yes

pack-UVextended

yes

pack-iELSD

no

no

yes

no

yes

no

no

1/8" x 1.6mm id
0.3mm/40µL

yes

yes

3 racks Gen5
132 tubes 18x150mm

yes

8

yes

yes

yes

yes

yes

yes

yes

yes

W: 15.75" - 40cm
D: 20.0" - 51cm
H: 29.5" - 75cm

ULTRA HIGH PERFORMANCE PURIFICATION

puriFlash® 5.250

Small Organic molecules
Impurities Identification
Natural Products
Peptides, Oligonucleotides
Proteins, Bio-drugs
Metabolites Isolation
Traces Enrichment



Accuracy
& Repeatability

250
mL/min

up to
80mm i.d.
Col.

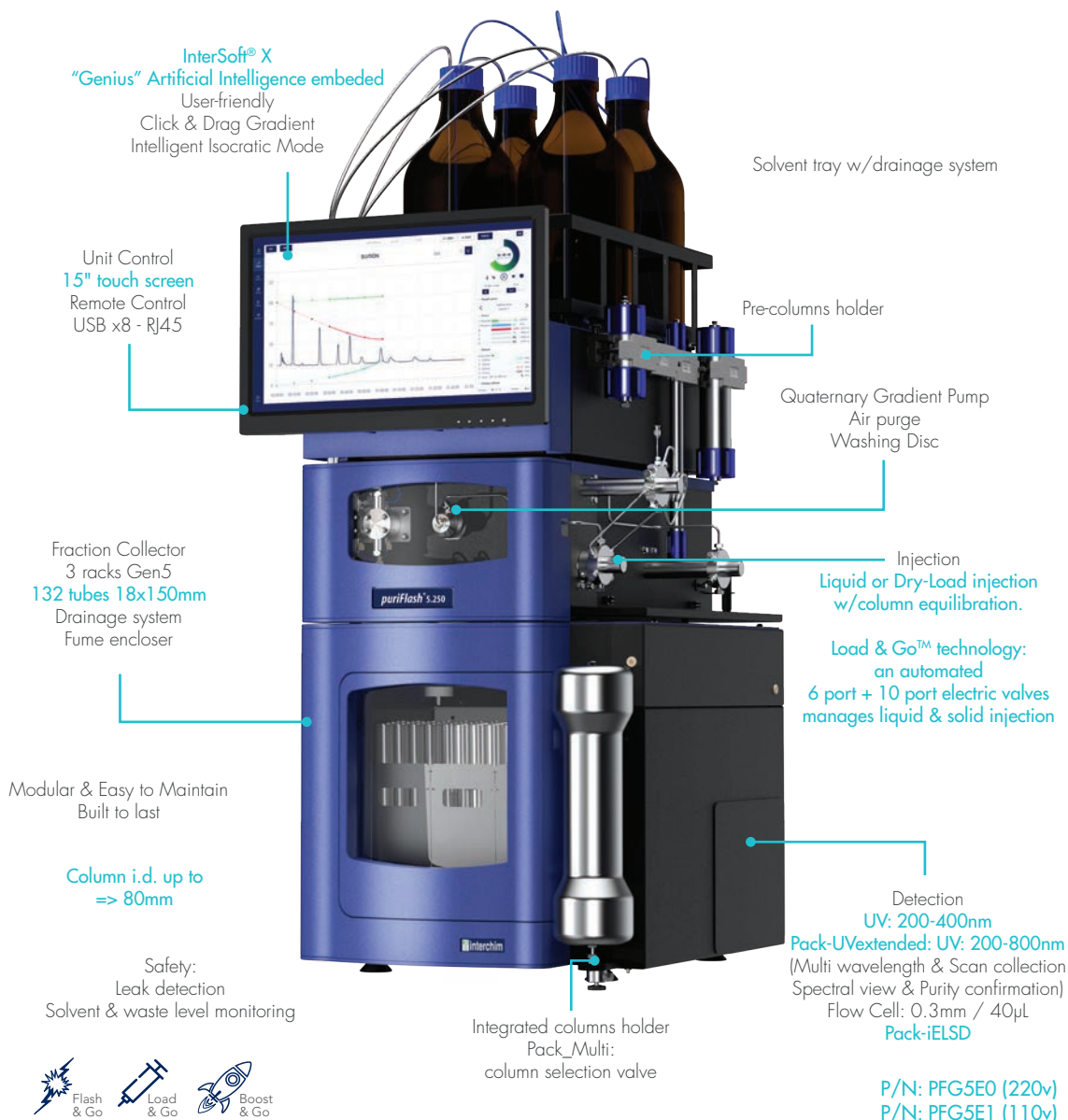
250
bar

Small but limitless

Maximum Versatility and Flexibility.

The system brings a unique performance in all circumstances. It adapts to all needs from routine purification to complex mixtures, impurity separation, or trace enrichment.

It is continuously ready to start multiple purifications in normal or reverse phase, flash or prep.



puriFlash® 5.400UV

Small Organic molecules
 Impurities Identification
 Natural Products
 Peptides, Oligonucleotides
 Proteins, Bio-drugs
 Metabolites Isolation
 Traces Enrichment



Accuracy & Repeatability

125 mL/min

up to 60mm i.d. Col.

400 bar

The Ultra-Purification

Method development and purification of rare and high added value compounds. From method development to purification on the same instrument, the system offers more flexibility, saving time. It is compatible with a sub-2 micron column for maximum separating power.

InterSoft® X
 "Genius" Artificial Intelligence embedded
 User-friendly
 Click & Drag Gradient
 Intelligent Isocratic Mode

Unit Control
 15" touch screen
 Remote Control
 USB x8 - RJ45

Fraction Collector
 3 racks Gen5
 132 tubes 18x150mm
 Drainage system

Modular & Easy to Maintain
 Built to last

Column i.d. up to
 => 60mm

Solvent tray w/drainage system

Pre-columns holder

Quaternary Gradient Pump
 Washing Disc

Injection
 Liquid or Dry-Load injection
 w/column equilibration.

Load & Go™ technology:
 an automated
 6 port + 10 port electric valves
 manages solid injection

Detection
 PF-5.400: UV: 200-400nm
 PF-5.400 + Pack-UVextended:
 UV: 200-800nm
 (Multi wavelength
 & Scan collection
 Spectral view & Purity confirmation)
 Flow Cell: 1.0mm / 20µL

Integrated columns holder



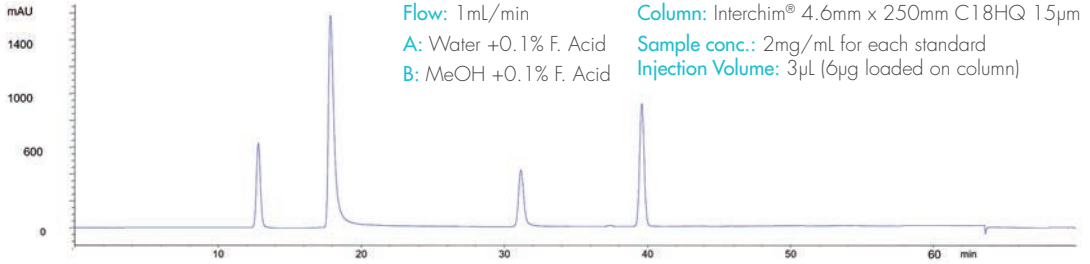
P/N: PFG5F0 (220v)
 P/N: PFG5F1 (110v)



ULTRA HIGH PERFORMANCE PURIFICATION

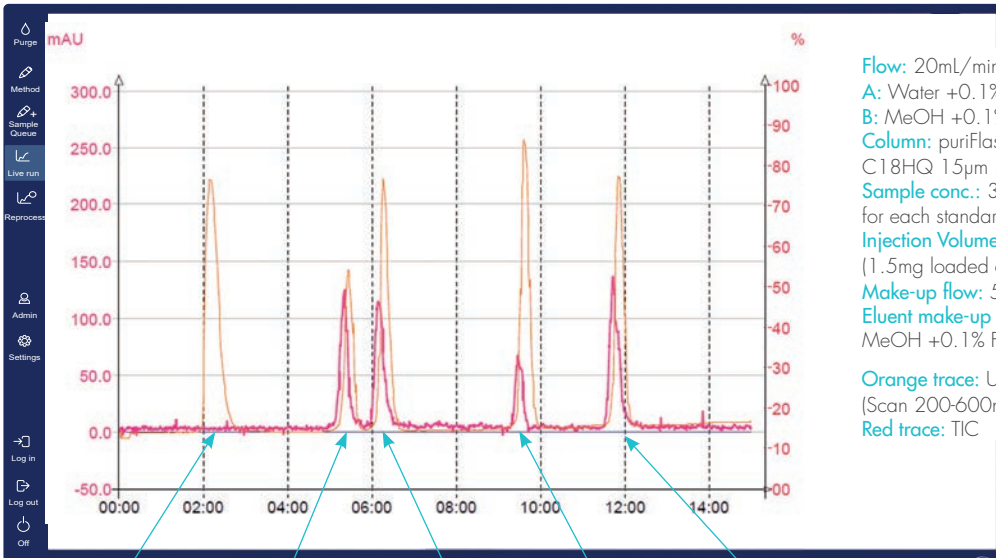
	Preparative 5.250	Ultra-Prep 5.400
Pump		
Flow rate	250mL/min	125mL/min
Pressure max.	250bar	400bar
Quaternary Gradient	yes	yes
Air purge	yes	no
Washing discs	yes	yes
Pump washing discs (pack)	pack-PWD	pack-PWD
Detector		
UV: 200 - 400nm multi wavelength & scan collection	yes	yes
UV: 200 - 800nm multi wavelength & scan collection	pack-UVextended	pack-UVextended
Spectral view & purity confirmation	yes	yes
iELSD Detection (pack)	pack-iELSD	
pH/Conductimeter	no	no
Injection		
4 port electrical valve	no	no
6 port electrical valve w/loop	no	no
6 port + 10 port electrical valves w/loop	yes	yes (1/16" & 0.75mm)
Injection mode: liquid - Dry-Load	yes	no
Column Selection valve		
14 port /6 position electrical valve	no	no
6 port electrical valve	pack-Multi	no
System Optimization		
Tubings - after pump	1/8" x 1.6mm id	55 - 1/16" x 0.50mm id
Flow cell-optical length	0.3mm/40µL	1.0mm/20µL
Columns Holder		
Integrated	yes	yes
Pre-column holder	yes	no
Fraction Collector		
Regular Collector	3 racks Gen5 132 tubes 18x150mm	3 racks Gen5 132 tubes 18x150mm
Unit control		
Touch screen 15"	yes	yes
USB	8	8
RJ45	yes	yes
Software		
Intersoft® X	yes	yes
Safety		
Leak detection (pump, FC, iELSD, holders)	yes	yes
Solvent tray w/drainage system	yes	yes
Collector w/drainage system	yes	yes
Solvent level monitoring	yes	yes
RFID	yes	yes
Fume Encloser	yes	yes
Size		
	W: 15.75" - 40cm D: 20.0" - 51cm H: 29.5" - 75cm	W: 15.75" - 40cm D: 20.0" - 51cm H: 29.5" - 75cm

HPLC analysis using standard gradient method



Gradient transfer method

UPFP-APCI/MS



Flow: 20mL/min
A: Water +0.1% F. Acid
B: MeOH +0.1% F. Acid
Column: puriFlash® Column C18HQ 15µm 35g
Sample conc.: 3mg/mL for each standard
Injection Volume: 500µL (1.5mg loaded on column)
Make-up flow: 500µL/min
Eluent make-up flow: MeOH +0.1% F. Acid
Orange trace: UV (Scan 200-600nm)
Red trace: TIC

Solvent Theophylline Papaverine Quercetin Piperine

Original method (1)			
Original column geometry		Original exp. Conditions	
Column length (L _c)	250mm	Flow-rate (F _i)	1000µL/min
Column diameter (d _c)	4.6mm	Inj. volume (V _{inj})	20.0µL
Particle size (d _p)	10.0µm		
Dwell volume (V _d)	1.0mL		
Additional gradient information			
Suggested reconditioning step	29min		
Original gradient profile			
Step	time (min)	%A	%B
initial conditions	0.00	60	40
initial hold	20.00	25	75
3	30.00	25	75
4	40.00	0	100
5	70.00	0	100

Transferred method (2)			
Transferred column geometry		Transferred exp. Conditions	
Column length (L _c)	250mm	Flow-rate (F _i)	21240 µL/min
Column diameter (d _c)	21.2mm	Inj. volume (V _{inj})	424.8 µL
Particle size (d _p)	10.0µm		
Dwell volume (V _d)	25.0mL		
Additional gradient information			
Suggested reconditioning step	29 min		
Geometric transfer of the gradient profile			
Step	time (min)	%A	%B
initial conditions	0.00	60	40
initial hold	19.82	25	75
3	29.82	25	75
4	39.82	0	100
5	69.82	0	100



puriFlash® 5.250
 250mL/min - 250bar
 Optimized for your preparative purifications



Mass triggered fraction collection for NP & RP Flash Purification & prep-LC

Unique design Dynamic split & dilution:

- High-speed work with all columns sizes without generating backpressure
- Integrated post-split dilution to adjust the concentrations used in the MS source (no concentration limit - no signal saturation)
- Normal & Reverse Phase
- Intelligent Pilot of the puriFlash® system
- Normalized Scale signals MS, UV, ELSD (6 acquisition signals)

Compact Single Quad - APCI

Real-time reaction monitoring of batch reactions.

The hood-based puriFlash MS reduces the burden on open-access platforms.

puriFlash® MS (1200 m/z): 1H5460

puriFlash® MS (2000 m/z): 1G6770



	puriFlash® MS for small molecules, synthetic organic chemists. Upgraded specs for pos/neg switching, faster scanning & higher flow rate	puriFlash® MS-HMW for large molecules - peptide synthesis, polymer chemistry & natural products
Sources	APCI - (ESI option)	APCI or ESI
Patented API	Orthogonal ion sampling from heated capillary allows for small single turbo pump.	Orthogonal ion sampling from heated capillary allows for small single turbo pump.
Positive/Negative Ionization	Simultaneous analysis	Simultaneous analysis
Flow rate range ESI	10µL/min - 1mL/min	10µL/min - 1mL/min
Flow rate range APCI	10µL/min - 2mL/min	10µL/min - 2mL/min
Mass range (m/z)	10 to 1200	10 to 2000
Scan rate (m/z-units per second)	10 000	10 000
Resolution (m/z-units FWHM)	0.5 - 0.7	0.5 - 0.7
Sensitivity (SIM - S/N de 10pg Reserpine, FIA 5µL injection at 100µL/min)	100:1	100:1
Accuracy (m/z)	0.1	0.1
Stability (m/z-units per 24 hour period: 18 - 24°C)	0.1	0.1

THE EXPRESSION CMS FAMILY OF COMPACT MASS SPECTROMETERS

expression
CMS

The family of **expression**[®] CMS was developed with maximum versatility in mind allowing users to switch rapidly between various sample introduction techniques with little sample preparation. The affordability, small size, and ease of use make them ideal for a variety of applications including reaction monitoring, teaching, cannabis/hemp, food/ingredients, environmental and more.

Most laboratories require the ability to analyze a range of samples using more than one technique for more complete identification and characterization of samples. The **expression**[®] CMS integrates with nearly every chemistry technique from the simplest, fastest direct probe analysis requiring no sample preparation to ultra-high performance compound separation with LC integration. The **expression**[®] CMS offers the most versatile sample techniques on the market.



OPSI Open Port Sampling Interface

The Touch Express Open Port Sampling Interface (OPSI), is designed for simple sampling of solids, liquids and sample preparation tips and fibers. Any soluble sample touching the port is analyzed by the mass spectrometer in mere seconds.

The OPSI source is a unique, prep-free sample technique that offers:

- Compound ID and impurity detection from almost any surface
- Direct assays from sample preparation tips and SPME fibers
- Easy screening applications for drug research, food safety, environmental, forensics
- Large molecule applications including proteins, peptides, oligonucleotides and polymers

vAPCI Volatile APCI Source

vAPCI combined with the **expression**[®] CMS is a fast and easy method to quickly and confidently analyze compounds in air, breath, headspace and other gas samples without the need for additional sample preparation. vAPCI provides a sample inlet linked by a heated transfer line to the APCI ion source of the CMS, where the sample is ionized by chemical reaction by a corona discharge.

vAPCI enables chemists to:

- Analyze samples directly in the gas phase
- Solvent-free APCI allows a greater range of compounds to be ionized compared to traditional APCI ion sources.



UNRIVALED UTILITY AND FLEXIBILITY FOR A WIDE RANGE OF APPLICATIONS

expression^{CMS} APPLICATIONS



Reaction Monitoring

With the CMS, users can monitor progress and side reactions, and can quickly determine the optimal time to quench a reaction mixture.

Teaching Chemistry

The system is available with a teaching package with curriculum including video lectures and PowerPoint slides, offering professors the ability to easily provide students with industry-related knowledge and experience.

Cannabis & Hemp

Easy cannabinoid analysis, ideal for characterization, potency testing, screening for contaminants such as pesticides, and determination of optimal harvest time.



Food Safety and Ingredients Analysis

The CMS provides characterization, screening and purity determination.

Environmental Analysis

The perfect environmental testing companion, the CMS offers fast, direct screening and can be deployed in a field setting for immediate, on-site answers.



Clinical Diagnostics

The CMS with the AVANT (U)HPLC is optimized for clinical LC/MS assays such as Vitamin D2/D3 analysis or can be used standalone with a variety of prep-free screening techniques.

Proteins and Peptides

The expression[®] CMS extended range mass spectrometer is ideal for large molecule synthesis analysis including proteins, peptides, and oligonucleotides



Plate Express

Thin-layer chromatography (TLC) is a routine, reliable method used in most chemistry laboratories, but traditional visualization techniques give no structural information on the TLC spots. Mass Spectrometry is a powerful technique for identifying spots, but traditional, manual steps involving scraping spots from the plate, extraction in suitable solvents and finally reconstitution in solvent appropriate for injection into the mass spectrometer (MS), make obtaining spectra difficult and time consuming. The Plate Express is a device that provides a simple, automated means of obtaining mass spectra directly from TLC plates.

With the Plate Express you can:

- Identify spots in <1 minute
- Avoid the risk of overloading the mass spectrometer
- TLC spots contain the ideal amount of sample for mass spectrometry
- Simplify the process of obtaining spectra
- Ideal for multi-user labs
- Software controlled - spectra obtained within a few mouse clicks
- No scraping TLC spots



ASAP Atmospheric Solids Analysis Probe

The direct atmospheric solids analysis probe, otherwise known as ASAP, permits chemists fast and reliable sample analysis of liquid and solid samples such as reaction mixtures, food samples, natural products and tablets.

The ASAP probe offers:

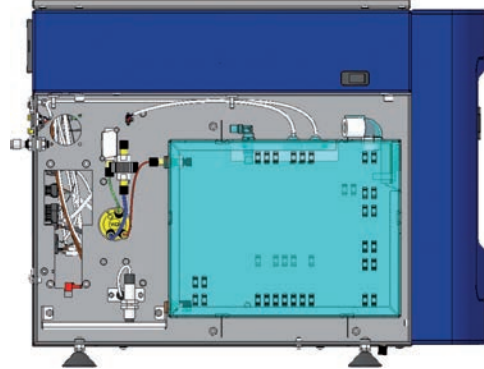
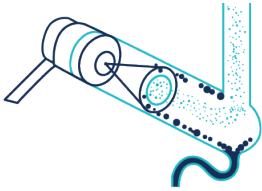
- No sample preparation
- No chromatography
- Fast and affordable sample analysis
- Solvent-free APCI
- Green practices without the need to buy and dispose of solvent
- Ionizes a wider range of compounds

iASAP Inert ASAP Probe

The inert ASAP (iASAP) is a modification of the ASAP technique, allowing easy sampling of air-sensitive compounds, such as metal catalysts and organometallics, from reactions that are carried out in a glove box or Schlenk line to prevent oxidation.

Secure your purification by an Universal Detector

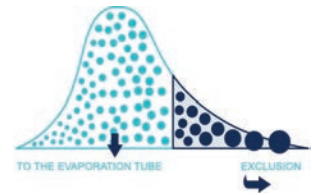
- Even non chromophore are now visible
- Specifically developed for purification mass response detector
- Full control of the split and the inlet flow
- True purification design nebulizer: no clogging
- Large dynamic range: mg up to hundred g
- Easy access /easy maintenance



Optimized **Low Temperature** Technology
Quicker droplets drying at lower temperature
 Preserves the **integrity** of thermo-sensitive compounds

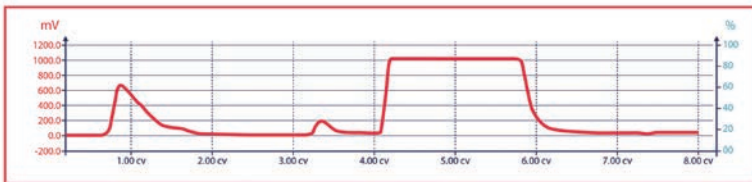
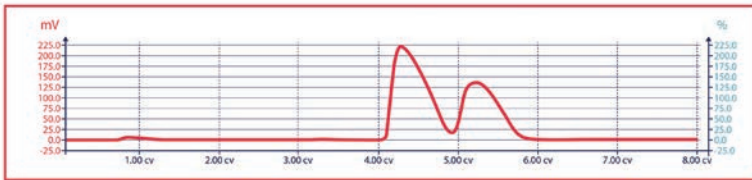
Low Temperature Technology:

This technology provides greater sensitivity with both the nebulizer that enables droplet selection and an effective photomultiplier. With this patented technology nebulizer, the droplets dry faster at low temperatures, providing appropriate signal intensities for semi-volatile compounds. This technology requires no additional peripherals, such as a nebulizer with heating system (spray chamber) or an evaporation tube (Peltier cooling) that can degrade the heat-sensitive compounds.

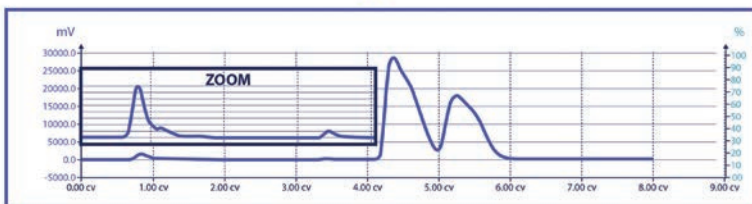


Dynamic Gain SAGA:

SAGA adapts the gain to avoid saturation while continuing to detect small quantities of products. ELSD becomes unsaturable without impact on sensitivity.



Now, with Interchim SAGA



- Detection: high sensitivity photodiode
- Source: LED (470nm)
- Ambient temperature to 100°C
- Dynamic Split: 40µL / min sample in DEDL
- Gas: 1-1.5L/min - 1 bar

puriVap-6™



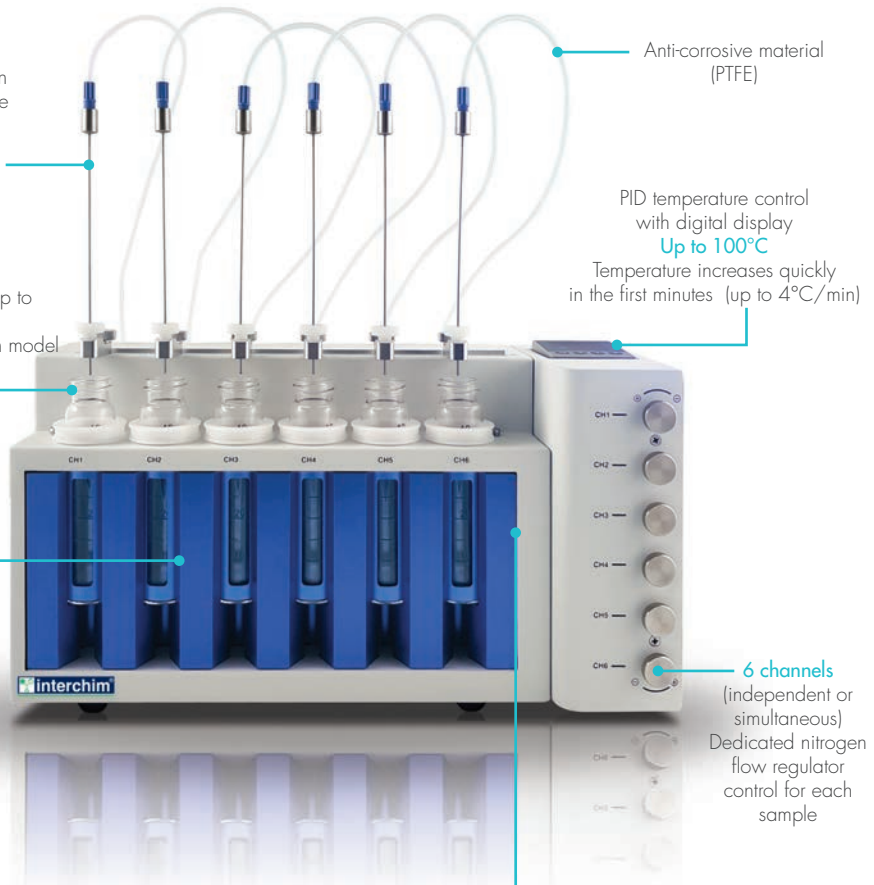
Simple & Smart - 6 positions

- 6 channels to run up to 6 samples (independent or simultaneous)
- Sample volumes from 2mL up to 60mL
- PID temperature control with digital display up to 100°C
- Temperature increases quickly in the first minutes (up to 4°C/min)
- Dedicated nitrogen flow regulator control for each sample
- Nitrogen blow in combination of heating concentration mode
- Possibility to choose the best position of nitrogen needle to ensure the most efficient evaporation
- Anti-corrosive material (PTFE)
- "Open view" to control sample volume level during the evaporation process
- Dry aluminium block heating mode to avoid potential water vapor interference
- Small difference temperature between channels (RSD: 0.11%)
- Low gas consumption (nitrogen gas supply : 1-2 bar max | flow rate: 7-8L/min)

Nitrogen blow in combination of heating concentration mode
Possibility to choose the best position of nitrogen needle to ensure the most efficient evaporation

Possibility to run up to **6 samples**
Parallel concentration model

Dry aluminium block heating mode to avoid potential water vapor interference
Small temperature difference between channels (RSD: 0.11%)



Anti-corrosive material (PTFE)

PID temperature control with digital display
Up to 100°C
Temperature increases quickly in the first minutes (up to 4°C/min)

6 channels (independent or simultaneous)
Dedicated nitrogen flow regulator control for each sample

"Open view" to control sample volume level during the evaporation process



puriFlash® 535-XL

Small Organic molecules
 Impurities Identification
 Natural Products
 Peptides, Oligonucleotides
 Proteins, Bio-drugs
 Metabolites Isolation
 Traces Enrichment



Accuracy & Repeatability

400 ml/min

up to 1600G

35 bar

Process - Kilo-Lab

Reliability and robustness with significant loading capacity. Its reliability and robustness over time, as well as security features are the essential assets to make semi-continuous productions effective with up to hundreds of grams of the compound of interest. Continuity of production on the same device independently of the scale-up factor.

InterSoft® X
 "Genius" Artificial Intelligence embedded
 User-friendly
 Click & Drag Gradient
 Intelligent Isocratic Mode

Solvent tray w/drainage system

Unit Control
 15" touch screen
 Remote Control
 USB x4

Injection
 Liquid or Dry-Load injection
 w/column equilibration.

Fraction Collector
 2 long racks
 112 tubes 18x150mm
 Drainage system
 Fume enclosure



Quaternary Gradient Pump
 Air purge

Modular & Easy to Maintain
 Built to last

Column i.d. up to
 => 100mm

Detection
 UV: 200-400nm
 (Multi wavelength & Scan collection
 Spectral view & Purity confirmation)
 Flow Cell: 0.3mm / 40µL
 Pack-UVextended: UV: 200-800nm

Smallest footprint
 on the market

Pack-ColHolder:
 Integrated flash columns holder

P/N: PFXL00 (220v)
 P/N: PFXL01 (110v)



puriFlash® 5.015-XL

- Small Organic molecules
- Impurities Identification
- Natural Products
- Peptides, Oligonucleotides
- Proteins, Bio-drugs
- Metabolites Isolation
- Traces Enrichment



Accuracy & Repeatability

825 ml/min

up to **150mm i.d. Col.**

15 bar

Process - Kilo-Lab

Reliability & robustness with significant loading capacity. Its reliability, its robustness over the time as well as its security features are the essential assets to make semi-continuous productions effective up to Kgs of compound of interest. Continuity of production on the same device independently of the scale-up factor.

InterSoft® X
 "Genius" Artificial Intelligence embedded
 User-friendly
 Click & Drag Gradient
 Intelligent Isocratic Mode

Solvent tray w/drainage system

Unit Control
 15" touch screen
 Remote Control
 USB x8 - RJ45

Quaternary Gradient Pump
 Washing Disc

Fraction Collector
 3 racks Gen5
 44 tubes 29.5x200mm
 Drainage system
 Fume enclosure

Detection
 UV: 200-400nm
 Pack-UVextended:
 UV: 200-800nm
 (Multi wavelength & Scan collection
 Spectral view
 & Purity confirmation)
 Flow Cell: 0.3mm / 80µl

Modular & Easy to Maintain
 Built to last

Column i.d. up to
 => 150mm

Safety:
 Leak detection
 Solvent & waste level monitoring

Pack-Process:
 Integrated flash columns holder
 & pre-columns holder

P/N: PFG5L0 (220v)
 P/N: PFG5L1 (110v)



	Flash Purification Process 535-XL	Flash Purification Process 5.015-XL
Pump		
Flow rate	400mL/min	825mL/min
Pressure max.	35bar	15bar
Quaternary Gradient	yes	yes
Air purge	yes	no
Washing discs	no	yes
Pump washing discs (pack)	no	no
Detector		
UV: 200 - 400nm multi wavelength & scan collection	yes	yes
UV: 200 - 800nm multi wavelength & scan collection	pack-UVextended	pack-UVextended
Spectral view & purity confirmation	yes	yes
iELSD Detection (pack)	no	no
pH/Conductimeter	no	no
Injection		
4 port electrical valve	no	no
6 port electrical valve w/loop	no	no
6 port + 10 port electrical valves w/loop	no	no
Injection mode: liquid - Dry-Load	yes	yes
Column Selection valve		
14 port /6 position electrical valve	no	no
6 port electrical valve	no	no
System Optimization		
Tubings - after pump	1/8" x 1.6mm id	1/8" x 2.4mm id
Flow cell-optical length	0.3mm/40µL	0.3mm/80µL
Columns Holder		
Integrated	pack-ColHolder	pack-Process
Pre-column holder	no	pack-Process
Fraction Collector		
Regular Collector	2 long racks 112 tubes 18x150mm	3 racks Gen5 42 tubes 29.5x200mm
Unit control		
Touch screen 15"	yes	yes
USB	4	8
RJ45	yes	yes
Software		
Intersoft® X	yes	yes
Safety		
Leak detection (pump, FC, iELSD, holders)	no	yes (except holders)
Solvent tray w/drainage system	yes	yes
Collector w/drainage sytem	yes	yes
Solvent level monitoring	no	yes
RFID	no	yes
Fume Encloser	yes	yes
Size		
	W: 14" - 35.5cm D: 18.5" - 47cm H: 30" - 77cm	W: 15.75" - 40cm D: 20.0" - 51cm H: 29.5" - 75cm



puriFlash® 5.250P

- Small Organic molecules ●●●●●○
- Impurities Identification ●●●●●●
- Natural Products ●●●●●●
- Peptides, Oligonucleotides ●●●●●●
- Proteins, Bio-drugs ●●●●●○
- Metabolites Isolation ●●●●●●
- Traces Enrichment ●●●●●●

Accuracy & Repeatability

125 ml/min

up to **60mm** i.d. Col.

250 bar

Purification of complex mixtures of peptides

Maximum efficiency. The use of small particle size combined with the reduction of dead volume makes it possible to discriminate nearby peptides in terms of amino acid sequence.

InterSoft® X
"Genius" Artificial Intelligence embedded
User-friendly
Click & Drag Gradient
Intelligent Isocratic Mode

Unit Control
15" touch screen
Remote Control
USB x8 - RJ45

Solvent tray w/ drainage system

Precols holder

Quaternary Gradient Pump
Air purge
Washing Disc + Pump

Injection
Liquid or Dry-Load injection
w/ column equilibration.

Load & Gotm technology:
an automated
6 port electric valve
+ 10 port electric valve
manages solid injection

Fraction Collector
3 racks Gen5
132 tubes 18x150mm
Drainage system

Modular & Easy to Maintain
Built to last

Column i.d. up to
=> 60mm

Detection
PF-5.250P: UV: 200-400nm
PF-5.250P + Pack-UVextended: UV: 200-800nm
(Multi wavelength & Scan collection
Spectral view & Purity confirmation)
Flow Cell: 1.3mm / 55µL

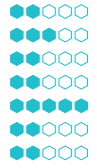
Integrated cols holder

P/N: PFG5Q0 (220v)
P/N: PFG5Q1 (110v)



puriFlash® UP³ *Coming*

- Small Organic molecules
- Impurities Identification
- Natural Products
- Peptides, Oligonucleotides
- Proteins, Bio-drugs
- Metabolites Isolation
- Traces Enrichment



Accuracy & Repeatability

100 ml/min

up to 50mm i.d. Col.

50 bar

UP³ - Ultra Performance Proteins Purification

Open new horizons in method development and purification of proteins. A single user-friendly instrument that provides more capabilities and flexibility, saving time. Compatible with 100% of existing SEC, IEX, affinity low and medium pressure bio-columns.

InterSoft® X
"Genius" Artificial Intelligence embedded
User-friendly
Click & Drag Gradient
Intelligent Isocratic Mode

Unit Control
1.5" touch screen
Remote Control
USB x8 - RJ45

Fraction Collector
96 well plates up to bottles
Drainage system
Fume enclosure

Modular & Easy to Maintain
Built to last

Column i.d. up to
=> 50mm

Detection
UV: 250 or 280nm
pH meter: 0.14
Conductimeter: 0.01 - 800 mS/cm
RI

Solvent tray w/drainage system

Back flush valve

Integrated column holder

Quaternary Gradient Pump
Washing (pump + discs)

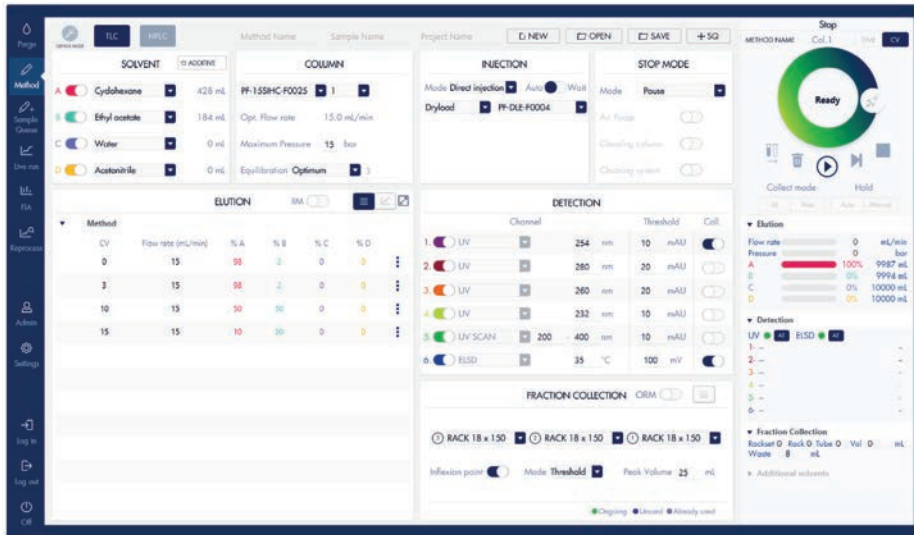
Injection
Liquid injection
w/column equilibration
or via external pump.

Load & Gotm technology
through an automated
6 ports electric valves
manages liquid & injection



	Peptides & Oligonucleotides PF-5.250P	Proteins Purification UP ³
Pump		
Flow rate	125mL/min	100mL/min
Pressure max.	250bar	50 bar
Quaternary Gradient	yes	yes
Air purge	yes	no
Washing discs	yes	yes
Pump washing discs (pack)	yes	yes
Detector		
UV: 200 - 400nm multi wavelength & scan collection	yes	254 nm & 280 nm 200-to-400 nm as an option*
UV: 200 - 800nm multi wavelength & scan collection	pack-UVextended	no
Spectral view & purity confirmation	yes	*pack-UV
iELSD Detection (pack)		no
pH/Conductimeter	no	yes
Injection		
4 port electrical valve	no	no
6 port electrical valve w/loop	no	yes
6 port + 10 port electrical valves w/loop	yes	no
Injection mode: liquid - Dry-Load	yes	no
Column Selection valve		
14 port /6 position electrical valve	no	no
6 port electrical valve	pack-Multi	no
System Optimization		
Tubings - after pump	peek 1/16" x 0.75mm id	n.c.
Flow cell-optical length	1.3mm/55µL	n.c.
Columns Holder		
Integrated	yes	yes
Pre-column holder	yes	no
Fraction Collector		
Regular Collector	3 racks Gen5 132 tubes 18x150mm	3 racks Gen5 132 tubes 18x150mm
Unit control		
Touch screen 15"	yes	yes
USB	8	8
RJ45	yes	yes
Software		
Intersoft® X	yes	yes
Safety		
Leak detection (pump, FC, iELSD, holders)	yes	yes
Solvent tray w/drainage system	yes	yes
Collector w/drainage sytem	yes	yes
Solvent level monitoring	yes	yes
RFID	yes	yes
Fume Encloser	yes	yes
Size		
	W: 15.75" - 40cm D: 20.0" - 51cm H: 29.5" - 75cm	W: 15.75" - 40.0cm D: 20" - 51.0cm H: 29.5" - 75.0cm

Intersoft® X



- Accessibility of multi-profile users with minimum training
- Best-in-class design that makes the chemist's life easier.
- Challenge Genius, your Personal Artificial Intelligence, to develop the purification method, or do it yourself
- "Push the boundaries" with the intuitive Flash&Go, Load&Go and Boost&Go technologies



Flash
& Go

Flash your TLC plate using our mobile app., send the data automatically to InterSoft®X "Genius". You are set to run the purification.



Boost
& Go

Intelligent management of the flow rate increase to safely speed up the purification.



Load
& Go

Load your sample liquid or solid through multi-way electrical valve. InterSoft®X "Genius" will manage column equilibration for you, sample loading and system cleaning.



Flash & Prep columns, dry-loads, racks, loops identification & data implementation into Genius.





"TLC to Flash & Prep Chromatography"

Revolutionize your TLC using our App

Augmented reality for a greatly improved daily routine.

In our capacity as experts for purification, we aim to offer maximum working comfort as well as the highest efficiency in your laboratory.

Thanks to the app that we have developed, we can share your future vision by constantly providing new technology solutions. It takes a digital form here, virtual but already real on the screen of your mobile or tablet.

A unique technology that slides through your fingers with one single click.

Our goal is to support you and to save you time day by day. Therefore our App allows for:

- Automatic detection of your compounds and calculation of your R_f and $\Delta CV (= \Delta K)$ values
- Direct (and secure) information transfer to puriFlash® and the "Genius" software, which suggests the best method for a successful purification
- Data archiving, if desired.



Flash & Go: "New TLC"

The application is extremely intuitively and user-friendly:



Take a picture of the TLC with your smartphone or download it from your library.



Your compounds will be detected automatically. Select the ones of interest with a tap.



The application calculates R_f and $\Delta CV (= \Delta K)$. It indicates if the R_f are placed in the comfort zone to carry out your purification.



From the smallest ΔCV obtained on your TLC plate, the application gives you the level of difficulty of the separation.



Indicate the solvents, their proportions and your comments in the dedicated areas.



Save your TLC plate information. Send them to the email address of your choice or directly to your puriFlash® by bluetooth or wifi: the "Genius" software will recommend the best method for a successful purification.



"MY TLC" for the retention of data

All information of your previous TLC plates are archived in a single location. In case you would like to reuse the parameters of the plate for a new separation, simply send them to any puriFlash® with a single click.



"SETTINGS" to personalize your experience

Connect your smartphone and Tablet with your puriFlash® via bluetooth or Wifi. Configure your application according to your preferences. Quickly and directly access our internet sites.

You need a tablet or smartphone to benefit from our application in your laboratory?

Nothing more simple: Select your choice from the accessories offered for all our purification systems.



"TLC to Flash & Prep Chromatography" is a free application. Our wish was to enable everybody to use it freely. You can even use it if you do not possess a puriFlash® purification system. Nevertheless, your experience as an user may be reduced since our systems are equipped with a unique technology that allows for data exchange only within these systems. Therefore you cannot equally benefit from the "Genius" proposals with regard to the best methods for your purification.

GENIUS MAKES EASY & SECURED PURIFICATIONS

Whatever your sample, from any of NP-TLC, NP-LC, NP-LC screening, RP-LC, RP-LC screening experiments, Genius, your personal Artificial Intelligence embedded in InterSoft® X, generates the best possible purification method in current knowledge.

Safely run the method and get your products pure!

1. TLC method development

TLC 1



Mobile phase:
87% DCM / MeOH 13%

Compound	Rf	CV
1	0.95	1.05
2	0.68	1.47
3	0.64	1.56

$$\Delta CV_{32} = 0.09$$

TLC 2

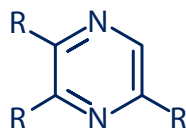


Mobile phase:
90% Toluene / MeOH 10%

Compound	Rf	CV
1	0.57	1.75
2	0.31	3.23
3	0.25	4
4	0.18	5.56
5	0.14	7.14

Rf of compounds 2 and 3 are close, the separation will not be optimal on Flash column.

Genius provides new TLC conditions (TLC 2) in order to increase ΔR_f & ΔCV .



2. Genius proposal



Among the columns proposed by Genius, we have selected a PF-15SIHP-F0012, which was available in stock:

TLC to Flash & Prep (Normal Phase)

UPLOAD

RESET

Crude sample 100 mg

Solvent 1 Toluene 90 % Additive

Solvent 2 Methanol 10 % Additive

Select your compound(s) of interest

Rf 0.57 ✓

Rf 0.31 ✓

Rf 0.25 ✓

Rf 0.18 ✓

Rf 0.14 ✓

SELECT A COLUMN

Column	Stock
PF-30SIHP-F0012	●
PF-15SIHP-F0012	●
PF-30SIHP-F0025	●
PF-30SIHP-F0040	●
PF-30SIHP-F0080	●
PF-30SIHP-F0120	●

Top 3 columns

INJECTION MODE

The crude is fully soluble in the below conditions:

Toluene 98.9%

Methanol 1.1%

Yes No

Liquid _____ mL (max 1.66 mL)

Dry load PF-DLE-F0004

GO TO MANUAL METHOD

GO TO RUN

3. Flash conditions

Device: puriFlash® 5.020

Solvents: A: Toluene

B: Methanol

Column: PF-15SIHP-F0012

Flow rate: 1.5mL/min

Injection mode: Solid deposit with celite

(Dry-load F0004)

Crude sample: 100mg

Detection: UV 265nm

Pressure: 4bar

Elution conditions:

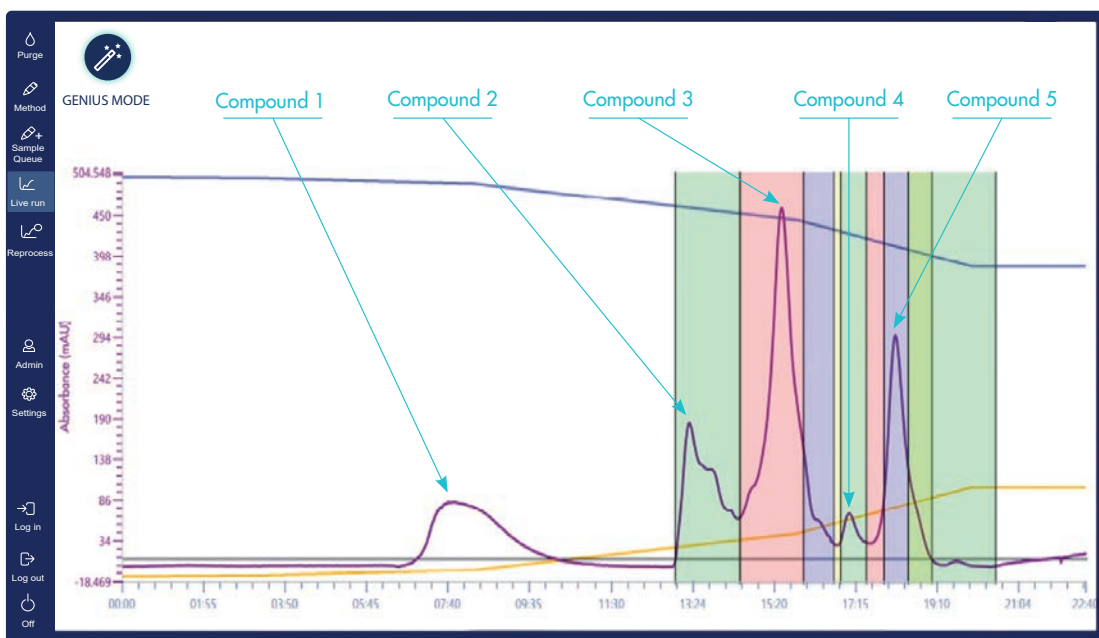
t (min)	A (%)	B (%)
00:00	98.9	1.1
03:27	98.6	1.4
08:17	97.3	2.7
15:52	88.4	11.6
20:00	77	23
26:13	77	23



puriFlash® 5.250

250mL/min - 250bar

Optimized for your preparative purifications



THE ESSENTIAL STATIONARY PHASES FOR PURIFICATION

Normal Phase



puriFlash® IR-SI

60Å - 450m²/g
20 & 40/63µm
pH stability: 1.5 to 6.5
Economical



puriFlash® SI-HP

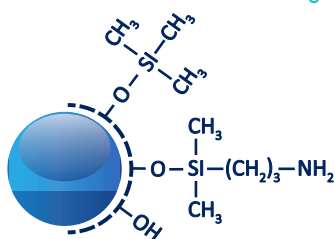
60Å - 500m²/g
5, 10, 15, 30 & 50µm
pH stability: 1.5 to 6.5
High efficiency



puriFlash® SI-HC

60Å - 680m²/g
15, 25 & 50µm
pH stability: 1.5 to 6.5
Greater loading capacity & productivity
Low back pressure

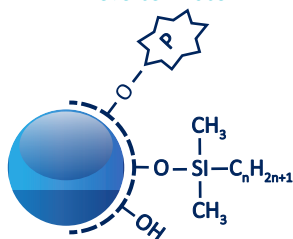
Normal Phase / Ion exchange



puriFlash® NH2

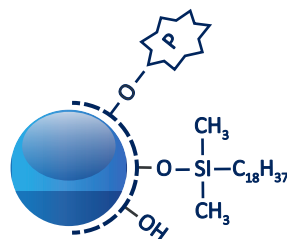
100Å - 300m²/g
5, 10, 15, 30 & 50 µm
Amino
%C: 4
End-capping: One-step
pH stability: 2 to 6.5
Can be both a weak anion exchanger for strong acids or a polar phase that can interact with the OH, NH, SH... functions.

Reverse Phase



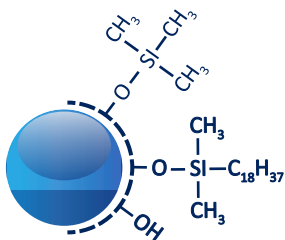
puriFlash® RP-AQ

60Å - 500m²/g
15 & 30µm
RPalkyl
%C: 6
End-capping: Mixte
pH stability: 2.0 to 7.5
The bonding chemistry makes it possible to start the gradient at a 100% water. Suitable for the separation and purification of strongly and moderately polar molecules. Compared to a C18, the peaks are eluted earlier from the beginning of the gradient.



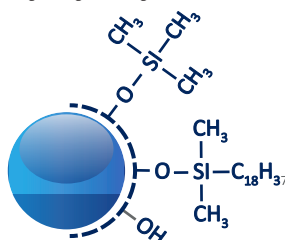
puriFlash® C18-AQ

100Å - 300m²/g
5, 10, 15 & 30µm
C18 Mono-functional
%C: 14
End-capping: Mixte
pH stability: 2.0 to 7.5
The bonding chemistry makes it possible to start the gradient at a 100% water. Suitable for the separation and purification of moderately polar and non-polar molecules.



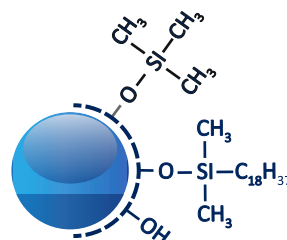
puriFlash® C18-HP

100Å - 300m²/g
5, 10, 15, 30 & 50µm
C18 Mono-functional
%C: 16,5
End-capping: One-step
pH stability: 1.5 to 7.5
Suitable for multiple pharmaceutical applications. This is an excellent choice for routine reverse phase purifications.



Uptisphere® Strategy™ C18-HQ

100Å - 425m²/g
1.7, 2.2, 3, 5, 10, 15µm
C18 Mono-functional
%C: 19
End-capping: Multi-step
pH stability: 1.0 to 10.0
Suitable for many pharmaceutical applications and routine methods. Its specific surface area of 425m²/g gives it a high loading capacity.



puriFlash® C18-SX

100Å - 300m²/g
5, 10, 15 & 30µm
C18 Mono-functional
%C: 17
End-capping: Multi-step
pH stability: 1 to 10.0
The proprietary end-capping multi-step technology ensures stability under high pH conditions, up to 10. It is an excellent phase for the complete separation of basic molecules.

Flash columns

We offer more than 35 selections for the purification of small & bio-molecules.

Our Ultra Pure Spherical Silica combined with our chemistry establishes optimized sample recovery and makes easier transfer from analytical to purification.

Interchim® Genius allows an easy transfer from any TLC or analytical data from any columns to “ready-to-go” and safe Gradient Purification Method RFID Traceability.



Selectivity / Purity -> Capacity -> Productivity

Code	F0001	F0004	F0012	F0025	F0040	F0080	F0120	F0220	F0330	F0800	F1600
Ø int. (mm)	9	12	21	21	27	31	36	60	60	78	104
L (mm)	26	68	84	133	135	205	224	153	226	341	385
CV _r (mL)	1.2	5	19	32	48	102	153	269	405	1 078	2 170
Flowrate - Typical (mL/min)	2.5	5	15	15	26	34	46	127	127	216	383
Flowrate - Range (mL/min)	1-10	5-20	15-50	15-50	20-70	30-100	40-150	80-300	80-300	150-300	200-500

LC Preparative columns

Preparative columns range from 10.0 to 50.8mm i.d and are for the purification of samples ranging from 0.5mg to 1 gram.

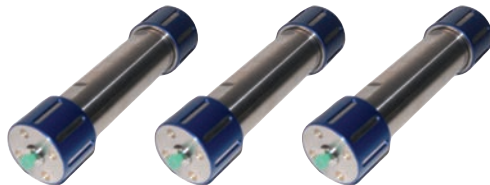
Column tubing & column packing

The tube polishing value (Ra) has a fundamental importance in preparative chromatography. A primary reason for broad peaks and low efficiency is the utilization of poor quality tubing. Molecules in the center of the mobile phase stream can move more rapidly than molecules closer to the side due to friction against the tubing surface. The lower the Ra value, the smoother the surface is, and the less “drag” the tubing will place upon a given separation. Modulo-cart preparative columns pay particular attention to this potential negative phenomenon. All columns have extremely smooth internal surfaces (typically 8µ inch of Ra) to considerably reduce issues of drag and maintain column efficiency.

Efficiency is also managed through Interchim®’s state-of-the-art proprietary packing processes - Modulo-cart Prep can withstand packing pressures up to 550bar contributing strongly to a good bed stability and column life.

Sample dispersion

The loading of sample onto a preparative column requires stringent management to establish quality



separations. Column overloading results in a poor retention of pure fraction and therefore particular attention needs to be placed upon selecting the appropriate column dimension and the properties of the stationary phase. In addition, careful sample introduction control

to the column is necessary to establish a homogeneous sample dispersion through the sorbent bead head. Sample typically enters a preparative column through a 1/16” fitting; poor sample loading will lead to overloading certain areas of the stationary phase whilst other areas will be underloaded.

E.g. For a 50mm i.d column with a 500µm i.d capillary fitting - sample introduced to the column (without any sample distributor) will only interact with 0.01% of the surface column head. In addition to a dramatic loss in capacity there will also be a high potential for the column head to prematurely clog, rapidly reducing column life.

To prevent this problem, Interchim®’s Modulo-cart Preparative columns are outfitted with a sample distributor. The sample distributor design maximizes the efficiency of sample volume dispersion and the sample mass introduced to the surface of the column head extending column life.



PURIFLASH® COLUMNS

puriFlash® IR-SI

Flash Columns	20µm	Qty	50µm	Qty
F0004	IR-20SI-F0004	40u	IR-50SI-F0004	40u
F0012	IR-20SI-F0012	30u	IR-50SI-F0012	30u
F0025	IR-20SI-F0025	25u	IR-50SI-F0025	25u
F0040	IR-20SI-F0040	20u	IR-50SI-F0040	20u
F0080	IR-20SI-F0080	10u	IR-50SI-F0080	10u
F0120	IR-20SI-F0120	8u	IR-50SI-F0120	8u
F0220	IR-20SI-F0220	4u	IR-50SI-F0220	4u
F0330	IR-20SI-F0330	4u	IR-50SI-F0330	4u
F0800	IR-20SI-F0800	1u	IR-50SI-F0800	1u
F1600	IR-20SI-F1600	1u	IR-50SI-F1600	1u

puriFlash® SIHP

LC Preparative Columns	5µm	Qty	10µm	Qty	15µm	Qty
250 x 4.6mm	PF5SIHP-250/P46	1u	PF10SIHP-250/P46	1u	PF15SIHP-250/P46	1u
150 x 10.0mm	PF5SIHP-150/100	1u	PF10SIHP-150/100	1u	PF15SIHP-150/100	1u
250 x 10.0mm	PF5SIHP-250/100	1u	PF10SIHP-250/100	1u	PF15SIHP-250/100	1u
50 x 21.2mm	PF5SIHP-050/212	1u	PF10SIHP-050/212	1u	PF15SIHP-050/212	1u
100 x 21.2mm	PF5SIHP-100/212	1u	PF10SIHP-100/212	1u	PF15SIHP-100/212	1u
150 x 21.2mm	PF5SIHP-150/212	1u	PF10SIHP-150/212	1u	PF15SIHP-150/212	1u
250 x 21.2mm	PF5SIHP-250/212	1u	PF10SIHP-250/212	1u	PF15SIHP-250/212	1u
50 x 30.0mm	PF5SIHP-050/300	1u	PF10SIHP-050/300	1u	PF15SIHP-050/300	1u
100 x 30.0mm	PF5SIHP-100/300	1u	PF10SIHP-100/300	1u	PF15SIHP-100/300	1u
150 x 30.0mm	PF5SIHP-150/300	1u	PF10SIHP-150/300	1u	PF15SIHP-150/300	1u
250 x 30.0mm	PF5SIHP-250/300	1u	PF10SIHP-250/300	1u	PF15SIHP-250/300	1u
50 x 50.0mm	PF5SIHP-050/500	1u	PF10SIHP-050/500	1u	PF15SIHP-050/500	1u
250 x 50.0mm	PF5SIHP-250/500	1u	PF10SIHP-250/500	1u	PF15SIHP-250/500	1u

puriFlash® SIHP

Flash Columns	15µm	Qty	30µm	Qty	50µm	Qty
F0001	SC-15SIHP-F0001	50u	---	---	---	---
F0004	PF-15SIHP-F0004	20u	PF-30SIHP-F0004	40u	PF-50SIHP-F0004	40u
F0012	PF-15SIHP-F0012	20u	PF-30SIHP-F0012	30u	PF-50SIHP-F0012	30u
F0025	PF-15SIHP-F0025	12u	PF-30SIHP-F0025	25u	PF-50SIHP-F0025	25u
F0040	PF-15SIHP-F0040	12u	PF-30SIHP-F0040	20u	PF-50SIHP-F0040	20u
F0080	PF-15SIHP-F0080	4u	PF-30SIHP-F0080	10u	PF-50SIHP-F0080	10u
F0120	PF-15SIHP-F0120	4u	PF-30SIHP-F0120	8u	PF-50SIHP-F0120	8u
F0220	PF-15SIHP-F0220	2u	PF-30SIHP-F0220	4u	PF-50SIHP-F0220	4u
F0330	PF-15SIHP-F0330	2u	PF-30SIHP-F0330	4u	PF-50SIHP-F0330	4u
F0800	---	---	PF-30SIHP-F0800	1u	PF-50SIHP-F0800	1u
F1600	---	---	PF-30SIHP-F1600	1u	PF-50SIHP-F1600	1u

puriFlash® SIHP - Jumbo pack

Flash Columns	15µm	Qty	30µm	Qty	50µm	Qty
F0004	PF-15SIHPJP-F0004	80 u	PF-30SIHPJP-F0004	160u	PF-50SIHPJP-F0004	160u
F0012	PF-15SIHPJP-F0012	80 u	PF-30SIHPJP-F0012	120u	PF-50SIHPJP-F0012	120u
F0025	PF-15SIHPJP-F0025	48 u	PF-30SIHPJP-F0025	100u	PF-50SIHPJP-F0025	100u
F0040	PF-15SIHPJP-F0040	48 u	PF-30SIHPJP-F0040	80u	PF-50SIHPJP-F0040	80u
F0080	PF-15SIHPJP-F0080	32 u	PF-30SIHPJP-F0080	40u	PF-50SIHPJP-F0080	40u
F0120	PF-15SIHPJP-F0120	32 u	PF-30SIHPJP-F0120	32u	PF-50SIHPJP-F0120	32u
F0220	PF-15SIHPJP-F0220	8 u	PF-30SIHPJP-F0220	16u	PF-50SIHPJP-F0220	16u
F0330	PF-15SIHPJP-F0330	8 u	PF-30SIHPJP-F0330	16u	PF-50SIHPJP-F0330	16u
F0800	---	---	PF-30SIHPJP-F0800	4u	PF-50SIHPJP-F0800	4u
F1600	---	---	PF-30SIHPJP-F1600	4u	PF-50SIHPJP-F1600	4u

puriFlash® SIHC

Flash Columns	15µm	Qty	25µm	Qty	50µm	Qty
F0001	SC-15SIHC-F0001	50u	---	---	---	---
F0004	PF-15SIHC-F0004	20u	PF-25SIHC-F0004	40u	PF-50SIHC-F0004	40u
F0012	PF-15SIHC-F0012	20u	PF-25SIHC-F0012	30u	PF-50SIHC-F0012	30u
F0025	PF-15SIHC-F0025	12u	PF-25SIHC-F0025	25u	PF-50SIHC-F0025	25u
F0040	PF-15SIHC-F0040	12u	PF-25SIHC-F0040	20u	PF-50SIHC-F0040	20u
F0080	PF-15SIHC-F0080	4u	PF-25SIHC-F0080	10u	PF-50SIHC-F0080	10u
F0120	PF-15SIHC-F0120	4u	PF-25SIHC-F0120	8u	PF-50SIHC-F0120	8u
F0220	PF-15SIHC-F0220	2u	PF-25SIHC-F0220	4u	PF-50SIHC-F0220	4u
F0330	PF-15SIHC-F0330	2u	PF-25SIHC-F0330	4u	PF-50SIHC-F0330	4u
F0800	---	---	PF-25SIHC-F0800	1u	PF-50SIHC-F0800	1u
F1600	---	---	PF-25SIHC-F1600	1u	PF-50SIHC-F1600	1u

puriFlash® SIHC - Jumbo pack

Flash Columns	15µm	Qty	25µm	Qty	50µm	Qty
F0004	PF-15SIHC-JP-F0004	80u	PF-25SIHC-JP-F0004	160u	PF-50SIHC-JP-F0004	160u
F0012	PF-15SIHC-JP-F0012	80u	PF-25SIHC-JP-F0012	120u	PF-50SIHC-JP-F0012	120u
F0025	PF-15SIHC-JP-F0025	48u	PF-25SIHC-JP-F0025	100u	PF-50SIHC-JP-F0025	100u
F0040	PF-15SIHC-JP-F0040	48u	PF-25SIHC-JP-F0040	80u	PF-50SIHC-JP-F0040	80u
F0080	PF-15SIHC-JP-F0080	16u	PF-25SIHC-JP-F0080	40u	PF-50SIHC-JP-F0080	40u
F0120	PF-15SIHC-JP-F0120	16u	PF-25SIHC-JP-F0120	32u	PF-50SIHC-JP-F0120	32u
F0220	PF-15SIHC-JP-F0220	8u	PF-25SIHC-JP-F0220	16u	PF-50SIHC-JP-F0220	16u
F0330	PF-15SIHC-JP-F0330	8u	PF-25SIHC-JP-F0330	16u	PF-50SIHC-JP-F0330	16u
F0800	---	---	PF-25SIHC-JP-F0800	4u	PF-50SIHC-JP-F0800	4u
F1600	---	---	PF-25SIHC-JP-F1600	4u	PF-50SIHC-JP-F1600	4u

puriFlash® NH2

LC Preparative Columns	5µm	Qty	10µm	Qty	15µm	Qty
250 x 4.6mm	PF5NH2-250/P46	1u	PF10NH2-250/P46	1u	PF15NH2-250/P46	1u
150 x 10.0mm	PF5NH2-150/100	1u	PF10NH2-150/100	1u	PF15NH2-150/100	1u
250 x 10.0mm	PF5NH2-250/100	1u	PF10NH2-250/100	1u	PF15NH2-250/100	1u
50 x 21.2mm	PF5NH2-050/212	1u	PF10NH2-050/212	1u	PF15NH2-050/212	1u
100 x 21.2mm	PF5NH2-100/212	1u	PF10NH2-100/212	1u	PF15NH2-100/212	1u
150 x 21.2mm	PF5NH2-150/212	1u	PF10NH2-150/212	1u	PF15NH2-150/212	1u
250 x 21.2mm	PF5NH2-250/212	1u	PF10NH2-250/212	1u	PF15NH2-250/212	1u
50 x 30.0mm	PF5NH2-050/300	1u	PF10NH2-050/300	1u	PF15NH2-050/300	1u
100 x 30.0mm	PF5NH2-100/300	1u	PF10NH2-100/300	1u	PF15NH2-100/300	1u
150 x 30.0mm	PF5NH2-150/300	1u	PF10NH2-150/300	1u	PF15NH2-150/300	1u
250 x 30.0mm	PF5NH2-250/300	1u	PF10NH2-250/300	1u	PF15NH2-250/300	1u
50 x 50.0mm	PF5NH2-050/500	1u	PF10NH2-050/500	1u	PF15NH2-050/500	1u
250 x 50.0mm	PF5NH2-250/500	1u	PF10NH2-250/500	1u	PF15NH2-250/500	1u

Flash Columns	15µm	Qty	30µm	Qty	50µm	Qty
F0004	PF-15NH2-F0004	4u	PF-30NH2-F0004	4u	PF-50NH2-F0004	4u
F0012	PF-15NH2-F0012	2u	PF-30NH2-F0012	2u	PF-50NH2-F0012	2u
F0025	PF-15NH2-F0025	1u	PF-30NH2-F0025	1u	PF-50NH2-F0025	1u
F0040	PF-15NH2-F0040	1u	PF-30NH2-F0040	1u	PF-50NH2-F0040	1u
F0080	PF-15NH2-F0080	1u	PF-30NH2-F0080	1u	PF-50NH2-F0080	1u
F0120	PF-15NH2-F0120	1u	PF-30NH2-F0120	1u	PF-50NH2-F0120	1u
F0220	PF-15NH2-F0220	1u	PF-30NH2-F0220	1u	PF-50NH2-F0220	1u
F0330	PF-15NH2-F0330	1u	PF-30NH2-F0330	1u	PF-50NH2-F0330	1u
F0800	---	---	PF-30NH2-F0800	1u	PF-50NH2-F0800	1u
F1600	---	---	PF-30NH2-F1600	1u	PF-50NH2-F1600	1u



PURIFLASH® COLUMNS

puriFlash® NH2HC

Flash Columns	50µm	Qty
F0004	PF-50NH2HC-F0004	4u
F0012	PF-50NH2HC-F0012	2u
F0025	PF-50NH2HC-F0025	1u
F0040	PF-50NH2HC-F0040	1u
F0080	PF-50NH2HC-F0080	1u
F0120	PF-50NH2HC-F0120	1u
F0220	PF-50NH2HC-F0220	1u
F0330	PF-50NH2HC-F0330	1u
F0800	PF-50NH2HC-F0800	1u
F1600	PF-50NH2HC-F1600	1u

puriFlash® RP-AQ

LC Preparative Columns	15µm	Qty
250 x 4.6mm	PF15RPAQ-250/P46	1u
150 x 10.0mm	PF15RPAQ-150/100	1u
250 x 10.0mm	PF15RPAQ-250/100	1u
50 x 21.2mm	PF15RPAQ-050/212	1u
100 x 21.2mm	PF15RPAQ-100/212	1u
150 x 21.2mm	PF15RPAQ-150/212	1u
250 x 21.2mm	PF15RPAQ-250/212	1u
50 x 30.0mm	PF15RPAQ-050/300	1u
100 x 30.0mm	PF15RPAQ-100/300	1u
150 x 30.0mm	PF15RPAQ-150/300	1u
250 x 30.0mm	PF15RPAQ-250/300	1u
50 x 50.0mm	PF15RPAQ-050/500	1u
250 x 50.0mm	PF15RPAQ-250/500	1u



puriFlash® RP-AQ

Flash Columns	15µm	Qty	30µm	Qty
F0001	SC-15RPAQ-F0001	25u	---	---
F0004	PF-15RPAQ-F0004	4u	PF-30RPAQ-F0004	4u
F0012	PF-15RPAQ-F0012	2u	PF-30RPAQ-F0012	2u
F0025	PF-15RPAQ-F0025	1u	PF-30RPAQ-F0025	1u
F0040	PF-15RPAQ-F0040	1u	PF-30RPAQ-F0040	1u
F0080	PF-15RPAQ-F0080	1u	PF-30RPAQ-F0080	1u
F0120	PF-15RPAQ-F0120	1u	PF-30RPAQ-F0120	1u
F0220	PF-15RPAQ-F0220	1u	PF-30RPAQ-F0220	1u
F0330	PF-15RPAQ-F0330	1u	PF-30RPAQ-F0330	1u
F0800	---	---	PF-30RPAQ-F0800	1u
F1600	---	---	PF-30RPAQ-F1600	1u



Uptisphere® Strategytm C18-HQ

LC Preparative Columns		5µm	Qty	10µm	Qty	15µm	Qty
250 x 4.6mm	US5C18HQ-250/P46		1u	US10C18HQ-250/P46	1u	US15C18HQ-250/P46	1u
150 x 10.0mm	US5C18HQ-150/100		1u	US10C18HQ-150/100	1u	US15C18HQ-150/100	1u
250 x 10.0mm	US5C18HQ-250/100		1u	US10C18HQ-250/100	1u	US15C18HQ-250/100	1u
50 x 21.2mm	US5C18HQ-050/212		1u	US10C18HQ-050/212	1u	US15C18HQ-050/212	1u
100 x 21.2mm	US5C18HQ-100/212		1u	US10C18HQ-100/212	1u	US15C18HQ-100/212	1u
150 x 21.2mm	US5C18HQ-150/212		1u	US10C18HQ-150/212	1u	US15C18HQ-150/212	1u
250 x 21.2mm	US5C18HQ-250/212		1u	US10C18HQ-250/212	1u	US15C18HQ-250/212	1u
50 x 30.0mm	US5C18HQ-050/300		1u	US10C18HQ-050/300	1u	US15C18HQ-050/300	1u
100 x 30.0mm	US5C18HQ-100/300		1u	US10C18HQ-100/300	1u	US15C18HQ-100/300	1u
150 x 30.0mm	US5C18HQ-150/300		1u	US10C18HQ-150/300	1u	US15C18HQ-150/300	1u
250 x 30.0mm	US5C18HQ-250/300		1u	US10C18HQ-250/300	1u	US15C18HQ-250/300	1u
50 x 50.0mm	US5C18HQ-050/500		1u	US10C18HQ-050/500	1u	US15C18HQ-050/500	1u
250 x 50.0mm	US5C18HQ-250/500		1u	US10C18HQ-250/500	1u	US15C18HQ-250/500	1u

Flash Columns		15µm	Qty
F0001	SC-15C18HQ-F0001		25u
F0004	PF-15C18HQ-F0004		4u
F0012	PF-15C18HQ-F0012		2u
F0025	PF-15C18HQ-F0025		1u
F0040	PF-15C18HQ-F0040		1u
F0080	PF-15C18HQ-F0080		1u
F0120	PF-15C18HQ-F0120		1u
F0220	PF-15C18HQ-F0220		1u
F0330	PF-15C18HQ-F0330		1u

puriFlash® C18-XS

LC Preparative Columns		5µm	Qty	10µm	Qty	15µm	Qty
250 x 4.6mm	PF5C18XS-250/P46		1u	PF10C18XS-250/P46	1u	PF15C18XS-250/P46	1u
150 x 10.0mm	PF5C18XS-150/100		1u	PF10C18XS-150/100	1u	PF15C18XS-150/100	1u
250 x 10.0mm	PF5C18XS-250/100		1u	PF10C18XS-250/100	1u	PF15C18XS-250/100	1u
50 x 21.2mm	PF5C18XS-050/212		1u	PF10C18XS-050/212	1u	PF15C18XS-050/212	1u
100 x 21.2mm	PF5C18XS-100/212		1u	PF10C18XS-100/212	1u	PF15C18XS-100/212	1u
150 x 21.2mm	PF5C18XS-150/212		1u	PF10C18XS-150/212	1u	PF15C18XS-150/212	1u
250 x 21.2mm	PF5C18XS-250/212		1u	PF10C18XS-250/212	1u	PF15C18XS-250/212	1u
50 x 30.0mm	PF5C18XS-050/300		1u	PF10C18XS-050/300	1u	PF15C18XS-050/300	1u
100 x 30.0mm	PF5C18XS-100/300		1u	PF10C18XS-100/300	1u	PF15C18XS-100/300	1u
150 x 30.0mm	PF5C18XS-150/300		1u	PF10C18XS-150/300	1u	PF15C18XS-150/300	1u
250 x 30.0mm	PF5C18XS-250/300		1u	PF10C18XS-250/300	1u	PF15C18XS-250/300	1u
50 x 50.0mm	PF5C18XS-050/500		1u	PF10C18XS-050/500	1u	PF15C18XS-050/500	1u
250 x 50.0mm	PF5C18XS-250/500		1u	PF10C18XS-250/500	1u	PF15C18XS-250/500	1u

Flash Columns		15µm	Qty	30µm	Qty
F0001	SC-15C18XS-F0001		25u	---	---
F0004	PF-15C18XS-F0004		4u	PF-30C18XS-F0004	4u
F0012	PF-15C18XS-F0012		2u	PF-30C18XS-F0012	2u
F0025	PF-15C18XS-F0025		1u	PF-30C18XS-F0025	1u
F0040	PF-15C18XS-F0040		1u	PF-30C18XS-F0040	1u
F0080	PF-15C18XS-F0080		1u	PF-30C18XS-F0080	1u
F0120	PF-15C18XS-F0120		1u	PF-30C18XS-F0120	1u
F0220	PF-15C18XS-F0220		1u	PF-30C18XS-F0220	1u
F0330	PF-15C18XS-F0330		1u	PF-30C18XS-F0330	1u
F0800	---	---	---	PF-30C18XS-F0800	1u
F1600	---	---	---	PF-30C18XS-F1600	1u



PURIFLASH® COLUMNS

puriFlash® C18-HP

LC Preparative Columns		5µm	Qty	10µm	Qty	15µm	Qty
250 x 4.6mm	PF5C18HP-250/P46		1u	PF10C18HP-250/P46	1u	PF15C18HP-250/P46	1u
150 x 10.0mm	PF5C18HP-150/100		1u	PF10C18HP-150/100	1u	PF15C18HP-150/100	1u
250 x 10.0mm	PF5C18HP-250/100		1u	PF10C18HP-250/100	1u	PF15C18HP-250/100	1u
50 x 21.2mm	PF5C18HP-050/212		1u	PF10C18HP-050/212	1u	PF15C18HP-050/212	1u
100 x 21.2mm	PF5C18HP-100/212		1u	PF10C18HP-100/212	1u	PF15C18HP-100/212	1u
150 x 21.2mm	PF5C18HP-150/212		1u	PF10C18HP-150/212	1u	PF15C18HP-150/212	1u
250 x 21.2mm	PF5C18HP-250/212		1u	PF10C18HP-250/212	1u	PF15C18HP-250/212	1u
50 x 30.0mm	PF5C18HP-050/300		1u	PF10C18HP-050/300	1u	PF15C18HP-050/300	1u
100 x 30.0mm	PF5C18HP-100/300		1u	PF10C18HP-100/300	1u	PF15C18HP-100/300	1u
150 x 30.0mm	PF5C18HP-150/300		1u	PF10C18HP-150/300	1u	PF15C18HP-150/300	1u
250 x 30.0mm	PF5C18HP-250/300		1u	PF10C18HP-250/300	1u	PF15C18HP-250/300	1u
50 x 50.0mm	PF5C18HP-050/500		1u	PF10C18HP-050/500	1u	PF15C18HP-050/500	1u
250 x 50.0mm	PF5C18HP-250/500		1u	PF10C18HP-250/500	1u	PF15C18HP-250/500	1u

Flash Columns		15µm	Qty	30µm	Qty	50µm	Qty
F0001	SC-15C18HP-F0001		25u	---	---	---	---
F0004	PF-15C18HP-F0004		4u	PF-30C18HP-F0004	25u	PF-50C18HP-F0004	25u
F0012	PF-15C18HP-F0012		2u	PF-30C18HP-F0012	4u	PF-50C18HP-F0012	4u
F0025	PF-15C18HP-F0025		1u	PF-30C18HP-F0025	2u	PF-50C18HP-F0025	2u
F0040	PF-15C18HP-F0040		1u	PF-30C18HP-F0040	1u	PF-50C18HP-F0040	1u
F0080	PF-15C18HP-F0080		1u	PF-30C18HP-F0080	1u	PF-50C18HP-F0080	1u
F0120	PF-15C18HP-F0120		1u	PF-30C18HP-F0120	1u	PF-50C18HP-F0120	1u
F0220	PF-15C18HP-F0220		1u	PF-30C18HP-F0220	1u	PF-50C18HP-F0220	1u
F0330	PF-15C18HP-F0330		1u	PF-30C18HP-F0330	1u	PF-50C18HP-F0330	1u
F0800	---	---	---	PF-30C18HP-F0800	1u	PF-50C18HP-F0800	1u
F1600	---	---	---	PF-30C18HP-F1600	1u	PF-50C18HP-F1600	1u

puriFlash® C18-AQ

LC Preparative Columns		5µm	Qty	10µm	Qty	15µm	Qty
250 x 4.6mm	PF5C18AQ-250/P46		1u	PF10C18AQ-250/P46	1u	PF15C18AQ-250/P46	1u
150 x 10.0mm	PF5C18AQ-150/100		1u	PF10C18AQ-150/100	1u	PF15C18AQ-150/100	1u
250 x 10.0mm	PF5C18AQ-250/100		1u	PF10C18AQ-250/100	1u	PF15C18AQ-250/100	1u
50 x 21.2mm	PF5C18AQ-050/212		1u	PF10C18AQ-050/212	1u	PF15C18AQ-050/212	1u
100 x 21.2mm	PF5C18AQ-100/212		1u	PF10C18AQ-100/212	1u	PF15C18AQ-100/212	1u
150 x 21.2mm	PF5C18AQ-150/212		1u	PF10C18AQ-150/212	1u	PF15C18AQ-150/212	1u
250 x 21.2mm	PF5C18AQ-250/212		1u	PF10C18AQ-250/212	1u	PF15C18AQ-250/212	1u
50 x 30.0mm	PF5C18AQ-050/300		1u	PF10C18AQ-050/300	1u	PF15C18AQ-050/300	1u
100 x 30.0mm	PF5C18AQ-100/300		1u	PF10C18AQ-100/300	1u	PF15C18AQ-100/300	1u
150 x 30.0mm	PF5C18AQ-150/300		1u	PF10C18AQ-150/300	1u	PF15C18AQ-150/300	1u
250 x 30.0mm	PF5C18AQ-250/300		1u	PF10C18AQ-250/300	1u	PF15C18AQ-250/300	1u
50 x 50.0mm	PF5C18AQ-050/500		1u	PF10C18AQ-050/500	1u	PF15C18AQ-050/500	1u
250 x 50.0mm	PF5C18AQ-250/500		1u	PF10C18AQ-250/500	1u	PF15C18AQ-250/500	1u

Flash Columns		15µm	Qty	30µm	Qty
F0001	SC-15C18AQ-F0001		25u	---	---
F0004	PF-15C18AQ-F0004		4u	PF-30C18AQ-F0004	4u
F0012	PF-15C18AQ-F0012		2u	PF-30C18AQ-F0012	2u
F0025	PF-15C18AQ-F0025		1u	PF-30C18AQ-F0025	1u
F0040	PF-15C18AQ-F0040		1u	PF-30C18AQ-F0040	1u
F0080	PF-15C18AQ-F0080		1u	PF-30C18AQ-F0080	1u
F0120	PF-15C18AQ-F0120		1u	PF-30C18AQ-F0120	1u
F0220	PF-15C18AQ-F0220		1u	PF-30C18AQ-F0220	1u
F0330	PF-15C18AQ-F0330		1u	PF-30C18AQ-F0330	1u
F0800	---	---	---	PF-30C18AQ-F0800	1u
F1600	---	---	---	PF-30C18AQ-F1600	1u

Solid Sample

Dry injection



Allow to large sample amounts

Dry-load columns for solid deposits allow the injection of a raw sample insoluble (or soluble) in the mobile phase.

Compared to liquid injection, the solid deposit avoids the diffusion of raw sample in the purification column. It improves resolution, efficiency and purity of the products collected.

The solid deposit can be made with silica, C18 or Celite. Unlike open cartridges, it does not require the use of a piston or specific adapters.

The max. pressure is 2x the standard solid deposit cartridges.

They are compatible with the use of Interchim® 15µm puriFlash® columns.

Compatible with all purification systems

puriFlash® Dry-Load

Nature	Type	Format	P/N	Qty	
puriFlash® Dry-Load	Empty	F0004	PF-DLE-F0004	20u	
		F0012	PF-DLE-F0012	20u	
		F0025	PF-DLE-F0025	20u	
		F0040	PF-DLE-F0040	20u	
		F0060	PF-DLE-F0060	10u	
		F0080	PF-DLE-F0080	5u	
		F0100	PF-DLE-F0100	5u	
		F0120	PF-DLE-F0120	5u	
		F0220	PF-DLE-F0220	5u	
		F0330	PF-DLE-F0330	5u	
puriFlash® Dry-Load - Tightening tool				JV0470	1u
puriFlash® Dry-Load	SILICA HC 80%	F0004	PF-DLE-F0004	20u	
		F0012	PF-DLE-F0012	20u	
		F0025	PF-DLE-F0025	20u	
		F0040	PF-DLE-F0040	20u	
puriFlash® Dry-Load	SILICA HC 50%	F0004	PF-DLSIHC05-F0004	20u	
		F0012	PF-DLSIHC05-F0012	20u	
		F0025	PF-DLSIHC05-F0025	20u	
		F0040	PF-DLSIHC05-F0040	20u	
puriFlash® Dry-Load	CELITE 80%	F0004	PF-DLICET08-F0004	20u	
		F0012	PF-DLICET08-F0012	20u	
		F0025	PF-DLICET08-F0025	20u	
		F0040	PF-DLICET08-F0040	20u	
puriFlash® Dry-Load	C18 STD 80%	F0004	PF-DIIRC1808-F0004	5u	
		F0012	PF-DIIRC1808-F0012	5u	
		F0025	PF-DIIRC1808-F0025	5u	
		F0040	PF-DIIRC1808-F0040	5u	
puriFlash® Dry-Load	C18 STD 50%	F0004	PF-DIIRC1805-F0004	5u	
		F0012	PF-DIIRC1805-F0012	5u	
		F0025	PF-DIIRC1805-F0025	5u	
		F0040	PF-DIIRC1805-F0040	5u	

High-Pressure Dry-Load

Nature	Type	Format	P/N	Qty
puriFlash® HP Dry-Load	Empty	50 x 21.2mm	OA0320	1u
		75 x 21.2mm	OA0330	1u
		100 x 21.2mm	7A1870	1u
		50 x 30mm	OA0340	1u
		75 x 30mm	OA0350	1u
		100 x 30mm	7A1880	1u
puriFlash® Dry-Load - Tightening tool				
Spanner wrench for 21.2mm ID			7A1590	1u
Spanner wrench for 30mm ID			7A1610	1u
Replacement frit				
Replacement frit for 21.2mm ID			OA2100	1u
Replacement frit for 30mm ID			OA2110	1u



ULTRA PERFORMANCE FLASH PURIFICATION



puriFlash®
XS 520 Plus
300mL/min - 20bar
Small, but Mighty



puriFlash® 5.020
300mL/min - 20bar
The Partner of Daily Challenges



puriFlash® 5.050
250mL/min - 250bar
Cross-over Flash /Prep

ULTRA HIGH PERFORMANCE FLASH PURIFICATION



puriFlash® 5.250
250mL/min - 250bar
Optimized for your preparative purifications



puriFlash® 5.400UV
125mL/min - 400bar
The Ultra-Purification



puriFlash® 5.250P
125mL/min - 250bar
Purification of Complex Mixtures of Peptides



puriFlash® UP³
100mL/min - 50bar
Ultra Performance
Proteins Purification

PROCESS PURIFICATION



puriFlash®
535-XL
400mL/min - 35bar
Process-Kilo-Lab



puriFlash® 5.015-XL
825mL/min - 15bar
Process - Kilo-Lab

HOW TO ASK FOR A QUOTATION AND TO PLACE YOUR ORDERS

Always attentive to your needs, Advion Interchim Scientific offers you several solutions to ask for a quotation and to order your products quickly and easily.



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info.EMEA@advion-interchim.com
quotes.EMEA@advion-interchim.com
orders.EMEA@advion-interchim.com
Phone: +33 4 70 03 88 55

Asia Pacific

info.APAC@advion-interchim.com
quotes.APAC@advion-interchim.com
orders.APAC@advion-interchim.com
Phone: +46 703108410

North America

info.NAM@advion-interchim.com
quotes.NAM@advion-interchim.com
orders.NAM@advion-interchim.com
Phone: +1 607 266 9162

South America

info.SAmerica@advion-interchim.com
quotes.SAmerica@advion-interchim.com
orders.SAmerica@advion-interchim.com
Phone: +46 703108410

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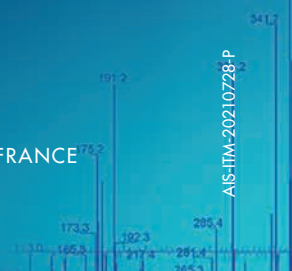




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www.advion-interchim.com

Interchim SAS | 211 Bis avenue J.F. Kennedy – BP 1140 | 03100 Montluçon | FRANCE
Advion Inc. | 61 Brown Rd. | Suite 100 | Ithaca, NY 14850 | USA



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