

KAMGO TECHNOLOGIES INDIA PVT. LTD.

Kamgo Technologies India Private Limited

kamgo tech

Established in the year 2018 in Chennai, India.

Kamgo Technologies India Private Limited is a recognized market leader in providing comprehensive laboratory solutions to the analytical, life sciences, food, CRO industries in South India. We have operations in Chennai, Bangalore and Hyderabad. We represent world-leading analytical column brands, Consumables, instruments.

We also partner with them to provide value added and cost-effective services to our esteemed clients.



Kamgo Technologies India Private Limited has received sustainable growth and good recognition from customers in the recent years. We believe that in the forthcoming years KTPL becomes one of the leading techno commercial organization with a strong emphasis on science for setting quality standards through analytical and separation science and providing best value products, services and solutions to our customers.



MISSION

To become one point of solution for all analytical needs of the science community. Build long lasting relationship with our clients with the help of our quality services. To provide solutions to the new challenges in separations and purifications faced in the industry.



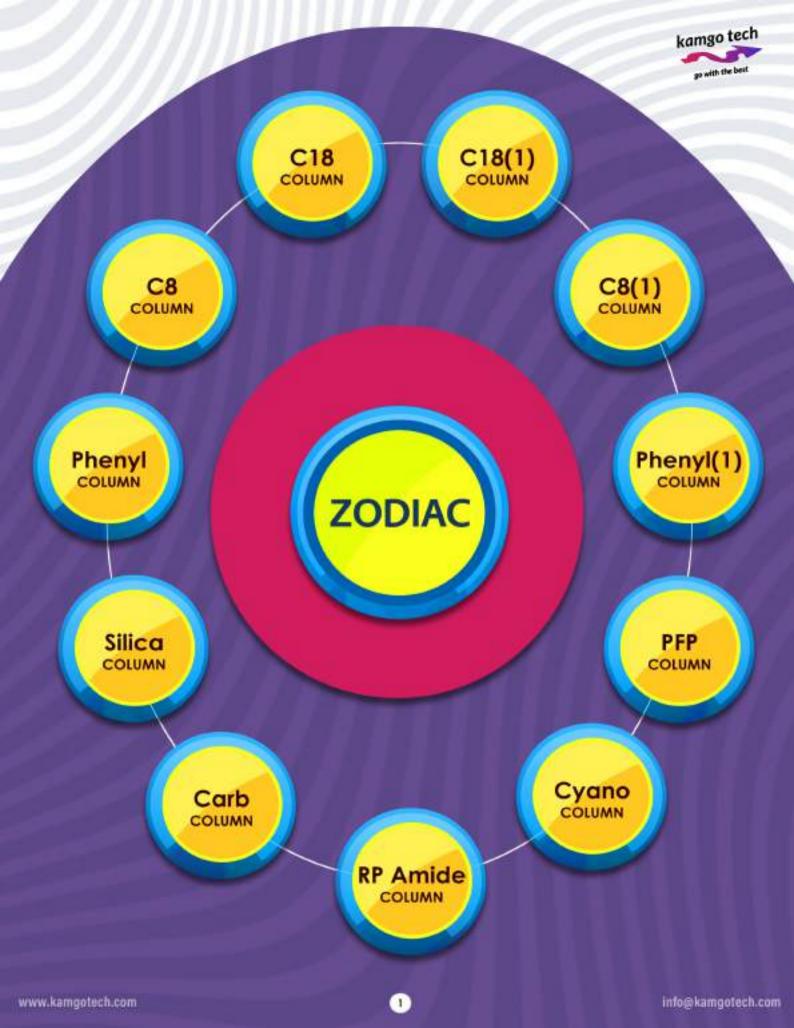
OUR STRENGTHS

Dedicated and knowledgeable sales team which understands the customer's needs and their pain points and support the with our optimum and economical solutions.

We have well equipped and adequately staffed offices to handle end -to-end business functions such as sales, service, logistics, distribution, warehousing, accounts, etc.

With the help of our application lab in Chennai, we can immediately handle any kind of analytical column troubleshooting for our clients.

www.kamgotech.com info@kamgotech.com



Zodiac - C18 Column





Perfect "all - Purpose' column for analytical use High resolution of complex mixtures Ideal retention

Zodiac C18 columns are prepared with ultra pure and high surface area silica. The silica surface area is 440 m²/g. The column has high carbon load of about 24% and unique bonding technology to achieve excellent resolution, Good peak symmentry and high performance.

Technical Specifications

	Particle Size mm	Pare Size Å	Surface Area m ¹ /g	Pore Volume cm ³ /g	Carbon Load %	pH Range	USP
ĺ	3, 5, 10	100	440 m²/g	1.1	24	1.5 - 10	L1

Zodiac - C18 (1) Column

All round application Perfect hydrophobic selectivity

Speeds up separations Eminent capability and reliability

Zodiac C18 (1) columns are prepared with ultra pure and optimal surface area silica. The silica area is 200m²/g.

The column has reduced carbon load of about 13% and unique bonding technology to achieve excellent resolution, good peak symmentry and high performance.



Particle Size mm	Pore Size Å	Surface Area m³/g	Pore Volume cm³/g	Carbon Load %	pH Range	USP
3, 5, 10	190	200 m²/g	1,1	12.9	1.5 - 10	Lt

Zodiac - Altin C18 Column





All round application Perfect hydrophobic slectivity

Speeds up separations Eminent Capability and Reliability.

Altin C18 columns prepared with Ultra pure silica.

The silica sureface is 340 m²/g.

The column has reduced Carbon load of 17% and

Unique bonding technology to achive excellent resolution.

Technical Specifications

	Particle Size mm	Pore Size Å	Surface Area m ¹ /g	Pore Volume cm ³ /g	Carbon Load %	pH Range	USP
ı	5, 10	100	340 m²/g	1.1	17	1.5 - 10	L1

Zodiac - C8 Column

Excellent resolution for critical separations
Faster analysis compared to C18 Increased selectivity
Exceptional reproducibility

Zodiac C8 is an admirable choice for separations that need marginally more polar phase than C18. The high surface area that is about 440 m²/g in Zodiac C8 column provides additional resolution to polar phase. Zodiac C8 column is less hydrophobic column with hight surface area, optimal carbon load and unique bonded silica packing.



Particle Size mm	Pore Size Å	Surface Area m³/g	Pore Volume cm³/g	Carbon Load %	pH Range	USP
3, 5, 10	100	440 m²/g	1.1	15	1.5 - 10	L7

Zodiac - C8 (1) Column





Faster Separations than the C18 (1) column Ideal for Selectivity of Polar compounds Improved peak symmetrry for better resolution

Zodiac C8 (1) column has a modified chemistry and is designed to be less hydrophobic than the C18 (1) column. The ultra pure silica has a surface area of 200m2/g, the column has reduced carbon load of about 8 % which leads to faster separation of the compunds and results in flawless peak symmentry.

Technical Specifications

Particle Size mm	Pore Size Å	Surface Area m ¹ /g	Pore Volume cm³/g	Carbon Load %	pH Range	USP
3, 5, 10	190	200 m²/g	1.1	7.4	1.5 - 10	L7

Zodiac - Altin C8 Column

Faster Separation than the Altin C18 column Ideal for Selectivity of polar compounds Improved peak symmetry for better resolution.

Altin C8 Column has a modified chemistry and is designed to be less hydrophobic than the Altin C18 column.

The ultra pure silica has a surface area of 340 m²/g.

The column has reduced carbon load of about 12% which leads to faster separation of the compounds and results in flawless peak symmetry.



Particle Size mm	Pore Size Å	Surface Area m³/g	Pore Volume cm³/g	Carbon Load %	pH Range	USP
3, 5, 10	100	340 m²/g	1.1	12	2 - 8	L7

Zodiac - Phenyl Column





Extraordinary resolution excellent choice for Separating mixture of polar and non-polar analytes Superior selectivity of structurally comparable compounds

Employing ultra pure, higher stability silica and unique bonding technology, Zodiac - Phenyl columns are exceptionally designed to ensure maximum performance. It contains carbon load of about 14% which gives Best retention. The silica phase Packing and Protective end capping of column is completely controlled, Hence ensures column-to-column reproducibility.

Technical Specifications

	Particle Size mm	Pare Size Å	Surface Area m ¹ /g	Pore Volume cm ³ /g	Carbon Load %	pH Range	USP
ĺ	3, 5, 10	100	440 m²/g	1.1	14	1.5 - 8	LII

Zodiac - Phenyl (1) Column

Reduced rentention for very fast separations

Best selectivity and peak symmentry Best use for aromatic,

Polar Comounds

Employing ultra pure, higher stability silica and unique bonding technology,

Zodiac - Phenyl (1) columns are exceptionally designed to

Ensure maximum performance. It contains carbon load of about 8%

which gives positively reduced retention which in-turn leads to

very fast separation without any effect on selectivity and peak symmentry.



Particle Size mm	Pore Size Å	Surface Area m³/g	Pore Volume cm³/g	Carbon Load %	pH Range	USP
3, 5, 10	190	200 m²/g	1.1	7.4	1.5 -8	Ln

Zodiac - Silica



Best choice for polar compounds seperations



Zodiac Silica columns are made with spherical, highly pure silica particles (99.999% Pure). Zodiac Silica is the basis for our high quality Zodiac stationary Phases

Technical Specifications

Particle Stae mm	Pore Size Å	Surface Area m1/g	Pore Volume cm1/g	Carbon Load %	pH Range	USP
3, 5, 10	100	450 m²/g	ta	0	2-6	L3

Zodiac - RP Amide



Different selectivity than C18 or C8 Less retention than C 18 phase

Zodiac RP Amide stationary surface has been covalently modified with palmit amidopropyi groups and endcapped. It has all the benefits of enhanced polar compound retention and selectivity, without any of the disadvantages

Technical Specifications

Particle Size mm	Pore Size Å	Surface Area m ¹ /g	Pore Volume am²/g	Carbon Load %	pH Range	USP
3, 5, 10	190	200 m²/g	1.1	15	2-8	L60

Zodiac - Cyano



Best peak shape and efficiency Unique selectivity compared to C18 & C8 phase Very low operating back pressure

Zodiac Cyano phase has unique selectivity, long column operating life, and excellent peak shapes in both reverse phase and normal phase modes. Ready for LC/MS Applications

Technical Specifications

Particlo Size mm	Pore Size A	Surface Area m ¹ /g	Pore Volume am ² /g	Carbon Load %	pH Range	USP
3, 5, 10	100	450 m²/g	1.7	15	2 - 7.5	L10

Zodiac - PFP



Excellent for separating peptides or proteins

Possesses multiple types at interaction : dispersive. dipole-dipole. p -p. charge-transfer Unique selectivity Extra Retention for Halogenated Specie

Zodiac PfP is a pentafluorophenyl phase with a propyl spacer, this bonded phase provides reversed-phase separations that are distinctly different from C18 silica surface for a unique aromatic selectivity due to highly electronegative fluorine atoms on the periphery of the phenyl ring ligand.

Particle Size mm	Pore Size A	Surface Area m ¹ /g	Pore Volume cm²/g	Carbon Load %	pH Range	USP
3, 5, 10	190	200 m²/g	33	15	2 - 8	1343

Zodiac - Preparative Column





High efficiency and wide pH range - from pH 5 to 10. Excellent resolution of complex mixture of compounds. Maximum loadability. Excellent column lifetime.

Preparative chromatography is an important stage in liquid chromatography employed for scale-ups, isolation of proteins, peptides, or impurities, and purification of samples in pharma and life sciences industries. Zodiac provides various ranges of preparative columns for analytical and preparative separations.

Our product range is ideal in meeting your requirements to deliver end-to-end results. Employing high purity and higher stability silica and unique bonding technology, Zodiac Prep columns are exceptionally designed to ensure maximum performance. The columns possess uniform and stable packing for maximum column efficiency, Performance and column life.

The whole column manufacturing process is completely controlled under stringent testing procedures by Zodiac to Provide best satisfaction to users with the quality implemented by us. The silica phase packing of a column is completely controlled, that ensures column-to-column reproducibility.

Our novel column chemistry is a high-impact strategy that is competitive and economical. We also provide bulk Packing phases for preparative chromatography. Whether the most important factor is analysis speed. pH stability, resolution, peak symmetry sensitivity, adjustable selectivity or analyte molecular weight from a variety of particle sizes and chemistries (C18, C8, C4, phenyl, cyano and silica) Zodiac offers greater flexibility in selection of preparative column to suit your application.

Preparative Columns Available

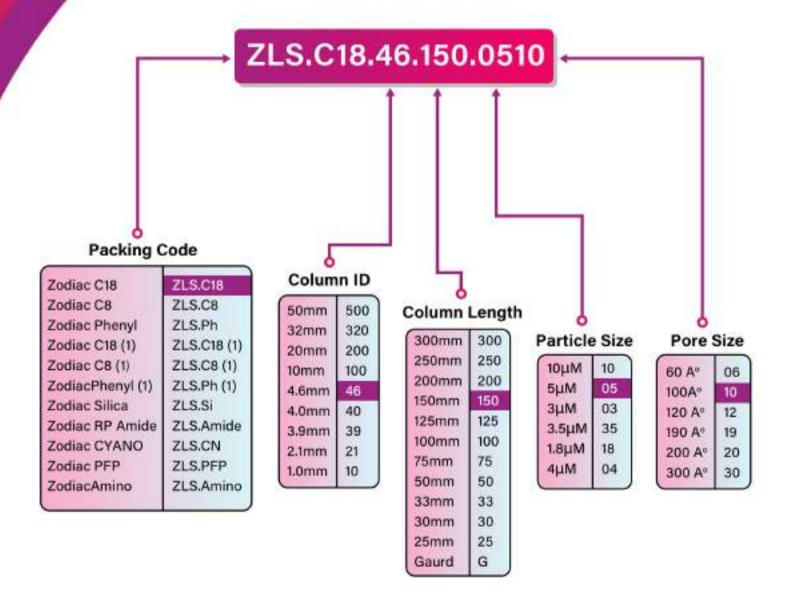
Column List	Column Code	Length Available (mm)	ID's availble (mm)	Particle size available (um)	
Zodiac C18 Prep column	ZLS.C18 Prep	50, 100, 150, 200, 300, 500	10, 20, 30, 40, 50	10, 15, 20, 30	
Zodiac C8 Prep column	ZLS.C8 Prep	50, 100, 150, 200, 300, 500	10, 20, 30, 40, 50	10, 15, 20, 30	
Zodiac Phyle Prep column	ZLS.Ph Prep	50, 100, 150, 200, 300, 500	10, 20, 30, 40, 50	10, 15, 20, 30	
Zodiac C18 (1) Prep column	ZLS.C18 (1) Prep	50, 100, 150, 200, 300, 500	10, 20, 30, 40, 50	10, 15, 20, 30	
Zodiac C8 (1) Prep column	ZLS.C8 (1) Prep	50, 100, 150, 200, 300, 500	10, 20, 30, 40, 50	10, 15, 20, 30	
Zodiac Phenyl (1) Prep column	ZLS.Ph (1) Prep	50, 100, 150, 200, 300, 500	10, 20, 30, 40, 50	10, 15, 20, 30	

Order Information



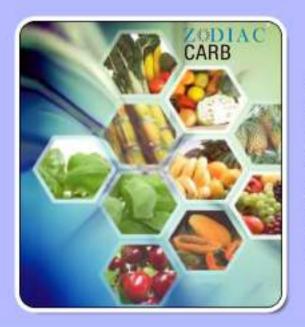
Columns Part Number Generator

How to generate part number for Zodiac C18 150mm X 4.6mm 5mm 100A°



Zodiac - Carbo Hydrate HPLC





Analysis of carbohydrates, sugars & sugar alcohols in different
Formulations, matrices and substances is a complex process.
Because carbohydrates have more physical and chemical similarity,
They are bit difficult to analyze when compared to many other
Compounds and drugs. Any one Carbo column cannot
Separate all carbohydrates.
Hence, Zodiac provides a range of columns to
Select from in order to achieve specific,
Selected separations and analysis of carbohydrates.

Ligand exchange is the preferred method for the separation of many sugars and sugar alcohols due to the simple water eluent. In ligand exchange, the negatively charged hydroxyl groups on the carbohydrate molecule interact with the positively charged metal loaded groups on the Chromatography substrates.

The carbohydrates are eluted by the polar water eluent mobile phase which competes for the sites on the metal ion.

The Carbohydrate columns are made across-linked polysterene /divinylbenzene (PS /DVB) spherical particles which are further modified with the metal ligands that finally yield columns with Sodium, Potassium, Silver, Lead or Calcium ligand form. In order to maximize the separation of a wide variety of samples, Zodiac has developed the most complete line of carbohydrate analysis columns available on the market by combining ligand exchange (metals), size exclusion and partitioning (cross-linkage of polymer), particle size (column efficiency) and column size (speed versus resolution).

Zodiac carbohydrate columns are designed for achieving high resolution separation of water soluble and partially water soluble compounds like carbohydrates, sugars and many other small bio organic molecules. Zodiac's unique column preparation process guarantees the column to exhibit excellent separation performance for all kinds of carbohydrates, saccharides and sugars.



Column List

Zodiac Carb 620:

The column is made of spherical, porous, Polystyrene Divinyl benzene copolymer of 6.0% cross-linkage, with Ligand exchange Calcium (Ca) form and with particle size of 10mm.

Zodiac Carb USP L19:

The column is made of spherical, porous, Polystyrene Divinyl benzene copolymer of 8.0% cross-linkage, with Ligand exchange Calcium (Ca) form and with particle size of 8mm.

Zodiac Carb 87C:

The column is made of spherical, porous, Polystyrene Divinyl benzene copolymer of 8.0% cross-linkage, with Ligand exchange Calcium (Ca) form and with particle size of 9mm.

Zodiac Carb 87N:

The column is made of spherical, porous, Polystyrene Divinyl benzene copolymer of 8.0% cross-linkage, with ligand exchange Sodium {Na} form and with particle size of 9mm.

Zodiac Carb 87K:

The column is made of spherical, porous, Polystyrene Divinyl benzene copolymer of 8.0% cross-linkage, with Ligand exchange Potassium {K} form and with particle size of 9mm,

Zodiac Carb 87P:

The column is made of spherical, porous, Polystyrene Divinyl benzene copolymer of 8.0% cross-linkage, with Ligand exchange Lead {Pb} form and with particle size of 9mm.

Advantage

- Columns are packed with chemically very stable polymeric phases of PS /DVB.
- The varied percentage cross-linkage of copolymers and varied particle sizes gives choice of selecting required column.
- * High temperature stability is exhibited by the columns I up to 95'C.
- Excellent performance and consistency is guaranteed from column to column and batch to batch.
- Choice of eluents can be used depending on the column and compound requirement, the simplest eluent being Water.
- * Any required combination of cross-linkage, particle size, metal Itgands or other column specifications can be provided on request.



Zodiac Carb Columns perfectly suits your needs as per key samples

Zodiac	Cross Linkage	lonic Size	Particle Size (uM)	Key Samples	Comments
Zodiac Carb 511 N	5	Sodium	5	Oligosaccharides through Dp8	
Zodiac Carb 620 C	6	Calcium	6	Versalile analysis of corn syrup, sugars, sugar alcohol.	
Zodiac Carb USP L-19	8	Calcium	8	Mannitol and Sorbitol - USP approved	
Zodiac Carb 87C	9	Calcium	9	General sugar analysis	Higher efficiency version of Zodiac - 87C
Zodiac Carb 87C Fast Analysis	8	Calcium	8	Fast analysis of simple Sugars	about the sections
Zodiac Carb 87C	8	Calcium	8	Industry standard for analysis of general sweeteners	
Zodiac Carb 87K	8	Potassium	8	Sugar samples such as brewing wort, bataine	Use witch samples containing potassium
Zodiac Carb 87N	8	Sodium	8	Molasses and other sugars high salt samples	Easy to regenerate sodium form low selectivity
Zodiac Carb 87P	8	Lead	8	Monosaccharides and cellulose products	Less resolution than Zodiac Carbo 87p, 7mm partical high flow rate.

Zodiac	Cross Linkage	lonic Size	Particle Size (uM)	Key Samples	Comments
Zodiac Carb 511 N	5	Sodium	12	Oligosaccharides through Dp8	
Zodiac Carb 620 C				Versalile analysis of corn syrup, sugars, sugar alcohol.	
Zodiac Carb USP L-19	8	Calcium	8	Mannitol and Sorbitol - USP approved	
Zodiac Carb 87C				General sugar analysis	Higher efficiency version of COREGel- 87C
Zodiac Carb 87C Fast Analysis	8	Calcium	9	Fast analysis of simple Sugars	
Zodiac Carb 87C				Industry standard for analysis of general sweeteners	
Zodiac Carb 87K	8	Potassium	9	Sugar samples such as brewing wort, bataine	Use witch samples containing potassium
Zodiac Carb 87N				Molasses and other sugars high salt samples	Easy to regenerate sedium form low selectivity
Zodiac Carb 87P	8	Lead	9	Monosaccharides and cellulose products	Less resolution than CHO-882, high flow rate

Zodiac - Organic Acid Column



The ion exclusion method is the best possible method for the separation of organic acids and alcohols. Zodiac provides a range of columns to select from, which results in varying efficiencies and selectivities for the separation of weak acids by ion exclusion.

The Organic Add columns are made of sulphonated polysterene /divinylbenzene (PS /DVB) cross-linked copolymer spherical particles which possess a negative charge. This negative charge of polymer particles plays a role in selectivity by adsorbing the compounds having no charge and allowing to enter into the spheres. Illustrated below is the process:



R-000-+H+<--A-COOH (Ropelled)(Retained)

The pKa constant of the organic acid or alcohol regulates equilibrium and therefore, compounds that are analyzed by ion exclusion elute according to their pKa value. In order to maximise the separation of a wide vanety of samples, Zodiac has developed the required organic acid columns and further ready to bring up most complete line of the organic acid columns by custom making of columns as per the customer requirements. Zodiac Carbo and Organic Acid columns are applicable for analysis of organic compounds of carbohydrates, alcohols, organic acids, sugars in food, beverage, biochemical, biomedical, biotechnology and pharma industries.

Column List

Zodiac Carb USP L17:

The column is made of spherical, porous, Polystyrene Divinyl benzene copolymer of 8.0% cross-linkage, with sulphonyl functional groups and with particle size of 8mm.

Zodiac Carb 87H:

The column is made of spherical, porous, Polystyrene Divinyl benzene copolymer of 9.0% cross-linkage, with sulphonyl functional groups and with particle size of 9mm.

Zodiac Carb 67H:

The column is made of spherical, porous, Polystyrene Divinyl benzene copolymer of 6.7% cross-linkage, with sulphonyl functional groups and with particle size of 9mm.

Zodiac Carb 64H:

The column is made of spherical, porous, Polystyrene Divinyl benzene copolymer of 6.4% cross-linkage, with sulphonyl functional groups and with particle size of 9mm.

Ordering Information

Column	Dimensions (mm)	Particle size (um)	Part Number
Zodiac Carb 620	300mm x 6.5mm	10	ZLS.Carb.65.300.10.60Ca
Zodiac Carb USP L19	250mm x 4.0mm	В	ZLS,Carb.40.250.08.80Ca
Zodiac Carb 87C	300mm x 7.8mm	9	ZLS.Carb.78.300.09.80Ca
Zodiac Carb 87N	300mm x 7.8mm	9	ZLS.Carb.78.300.09.80Na
Zodiac Carb 87K	300mm x 7.8mm	9	ZLS.Carb.78.300.09.80K
Zodiac Carb 87P	300mm x 7.8mm	9	ZLS.Carb.78.300.09.80Pb
Zodiac Carb USP L17	300mm x 4.1mm	8	ZLS.Carb.41.250.08.USPL17
Zodiac Carb 87H	300mm x 7.8mm	9	ZLS.Carb87H.78.300.09.87H
Zodiac Carb 67H	300mm x 7.8mm	9	ZLS.Carb67H.78.300.09.67H
Zodiac Carb 64H	300mm x 7.8mm	10	ZLS.Carb64H.78.300.10.64H

Advantage

- Columns are packed with chemically very stable polymeric phases of PS /DVB.
- The varied percentage cross-linkage of copolymers and varied particle sizes gives choice of selecting required column.
- * Temperature stability is exhibited by the columns up to 90 °C.
- * The stable cross-linked polymeric phase gives sustainability throughout the pH range of 0 to 14.
- Excellent performance and consistency is guaranteed from column to column and batch to batch. Can undoubtedly achieve high resolution and high efficiency.
- Any required combination of cross-linkage, particle size or other column specifications can be provided on request.



About the Product

Reversed-phase gradient HPLC is an essential and extremely powerful technique in liquid chromatography, but some unknown peaks called Ghost peaks to appear in chromatograms reducing analysis reliability particularly in trace sample component analysis.

There are many possible causes for ghost peaks including mobile phase solvents, mobile phase containers, flow lines, pump, filters, gradient mixer, etc.

A chromatogram may contain ghost peaks from a variety of these sources and this can make the overall resolution of ghost peak problems quite difficult.

The primary is UV absorbing organic impurities in the mobile phase which are eluted in the gradient process.

What Sifto Ghost Buster Column can do?

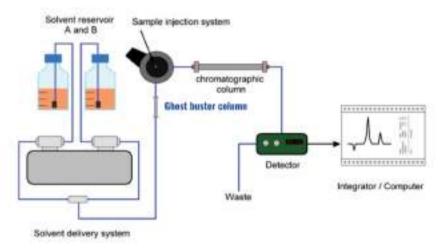
- Sifto Ghost Buster Column can very efficiently absorb the impurities from mobile phase and eliminates.
 The risk of ghost peaks interfering with target peaks and make the gradient analysis reliable.
- Longer Column life (Main column) when used with Sifto Ghost Buster Column.
- · Stable over a wide range of pH, organic solvents and aqueous buffers.
- Easy to install with all HPLC systems.



Installation



Installed between the gradient mixer and the sampler, Ghost Buster column can trap most ghost peaks before HPLC analysis.



Why fear of Ghost peaks when Sifto Ghost Buster column is with you Install Sifto Ghost Buster column and have a reliable Ghost peak free analysis Trouble with unknown peaks in gradient analysis install Sifto Ghost Buster column

Applications

Sample 1

Condition

Column: Zodiac C18, 250mm x 4.6, 5um

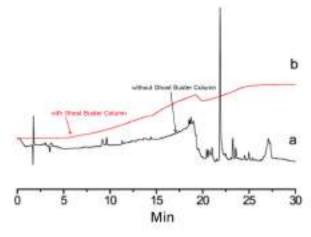
Flow Rate: 1.0 mL/min

Injection Volume: 10 uL

Wavelength: 210 nm Column

Column Temperature : 40°C

Sample Preparation Solution: ultrapure water Mobile Phase A : ultrapure water Mobile Phase B: acetonitrile



Gradient Program

Time (min)	Mobile Phase A	Mobile Phase B
0	90	10
20	10	90
30	10	90
30.1	90	10
38	90	10



Situations not Suitable for Ghost Buster column

lonparing solvent

If ion pairing reagents are used in the analysis, it is possible that the reagents may be retained by the Ghost Buster column, impacting the analysis retention time and peak shape.

Amines additives

If amines additives, such as ammonia and triethylamine, are used in the solvent, the peakshape may change.

Note:

- It should be noted that not all impurities can be removed from the mobile phase.
- It is not recommended to flush the GhostBuster column with 100% water for a long time.
- GhostBuster column is installed between the gradient mixer and the sampler.
 If it is installed like a guard column, target peaks may disappear.
- GhostBuster column's service life differs by analysis conditions, mobile phase and its purity.
 New column is recommended when the result is not ideal.



Velox Solvent waste systems



Introduction:

Fluids in HPLC waste containers are overwhelmingly dangerous containing potent volatile organic compounds (VOC) posing a potent risk to the health of Lab workers & lab safety.

Zodiac came with an innovative solution of introducing VELOX Solvent waste system with activated carbon filters not only creating an organised containment for HPLC solvent waste but also providing an efficient way for collection and disposal of volatile vapours.

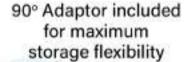


ADVANTAGES

- Filters system against harmful vapours
- Several systems can be connected to 1 container
- Capillary fixations with PFA Fittings
- Different size containers compatible to any space condition









Normal cap is additionally provided for convenient transport of the wastes



Blind fittings are provided to block the remaining ports when not in use

Zodiac Velox Solvent Waste System allows 99 percent of the volatile vapours to be trapped into its Powerful exhaust filters keeping the laboratory environment safe and clean, This system is more organised than traditional techniques protects against spills and leaks. This is a necessary addition to every lab for improved solvent waste handling and disposal

Item Description	Part Number
Velox Solvent Waste System - 5Ltrs	ZLS.332.2419
Velox Solvent Waste System - 10Ltrs	ZLS.332-3413
Velox Solvent Waste System - 20Ltrs	ZLS.332-4413











Velox Solvent Safety Cap

The extraction of fluids from improper sealed mobile phase bottles results in the suction of dust, air dirt particles that could be drawn into the capillaries which are not properly in position making their way into highly sensitive analysis systems

Velox Solvent safety caps provides an airtight seal around the bottles with filter function working in dual ways by preventing the dust, contaminant particles from air entering the mobile phase, at the same time blocking the volatile vapour's escaping and hence ensuring constant precise mixing ratios of solvents throughout the time



ADVANTAGES

- All harmful vapours are blocked
- No accidental intake of air into HPLC system
- Easy container changes freely rotatable cap
- With Velox you pass quality and safety inspections with confidence

The new, improved air valve combines valve and filter functions ensuring safe extractions of the solvents so the results of your analysis stay correct



The valve fits your existing Velox Safety Caps without any technical modification

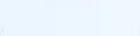
Replace every 6 months for optimal protection as per our filter studies.



- The air valve with the part number is delivered with a change-advice-label.
- Just sign-in the current date at the installation and you are safe in observing the service life.











Part No.	Description	Thread size	Connector 3.2 mm O OD	
ZLSIVSC 01	Safety Cap I	GL- 45	1X	
ZLSIVSC 02	Safety Cap II	GL- 45	2X	
ZLSIVSC 03	Safety Cap III	GL- 45	3X	
ZLSIVSC 04	Safety Cap IV	GL- 45	4X	
ZLSIVSCs 01	Safety Cap Set	GL- 45	4X	
ZLSAV	Air Value	GL- 45		



Chiral separation Chromatography

Normal phase Chromatography

Reversed-phase Chromatography

Ion exclusion Chromatography

Ligand exchange Chromatography

Hydrophilic interaction Chromatography ULTRON ES-OVM ULTRON ES-OVM-C ULTRON ES-PEPSIN
ULTRON ES-CD ULTRON ES-CD-B ULTRON ES-PhCD

ULTRON VX-SIL

ULTRON VX-ODS STR ODS-II STR ODS-M

ULTRON VX-Octyl

ULTRON PS-80H

ULTRON PS-80N ULTRON PS-80C ULTRON PS-80P ULTRON CI ULTRON CL-II

Chiral separation Chromatography

ULTRON AF-HILIC-CD

Hydrophilic interaction Chromatography

> Ligand exchange Chromatography

HPLC

Normal-phaselum Chromatography

Reversed-phase Chromatography

lon exclusion Chromatography





USP NO	Shinwa Columns	Description
L01	ULTRON VX-ODS STR ODS-II STR ODS-M	Octadecyl silane bonded to porous silica or ceramic microparticles, 3 to 10 mc in diameter.
L03	ULTRON VX-SIL	Porous silica microparticles, 5mm to 10 mm in diameter.
L07	ULTRON VX-Octyl	Octylsilane bonded to totally Porous microsilica particles, 3 to 10 mm in diameter.
L17	ULTRON PS-80H	Strong cation exchange resin consisting of sulfonated crosslinked styrene divinylbenzene copolymer in the hydrogen form, 7 to 11 mm in diameter
L19	ULTRON PS-80C	Strong cation exchange resin consisting of sulfonated crosslinked styrene divinylbenzene copolymer in the calcium form, 9mm in diameter.
L34	ULTRON PS-80P	Strong cation exchange resin consisting of sulfonated crosslinked styrene divinylbenzene copolymer in the lead form, 9mm in diameter.
L45	ULTRON ES-CD ULTRON ES-PhCD	Beta cyclodextrin bonded to porous silica particles, 5 to 10.
L57	ULTRON ES-OVM	Chiral recognition protein, ovomucoid, chemically bonded to silica particles, about 5 mm, with a pore size of 120 A
L58	ULTRON PS-80N	Strong cation exchange resin consisting of sulphonated crosslinked styrene divinylbenzene copolymer in the sodium form, about 7 to 11mm.

ULTRON ES-OVM

Ovomucoid protein-based stationary phase

Chemically bonded to silica support (5 µm, 120 Å) It shows a broad asymmetric discrimination ability as it can recognize hydrogen-bonding, polar, ionic, and hydrophobic sites, as well as the three-dimensional structure of sample molecules, Enables separations of a wide variety of compounds ranging from basic to acidic. Can be used over wide solvent concentration and temperature ranges.

- * ULTRON ES-CD
- * ULTRON ES-PhCD USP column list L45
- * ULTRON ES-CD-B



Features

- * ULTRON ES-CD and ULTRON ES-PhCD columns are enantiomeric separation columns with chemically bonded β-cyclodextrin (CD) and phenyl carbamate β-cyclodextrin (PhCD), stationary phases.
- * ULTRON ES-CD and ULTRON ES-PhCD columns are effective for enantiomeric separations of hydrophobic cyclic compounds.
- * Both reverse-phase and normal-phase mobile phases can be used for separations.

ULTRON ES-PEPSIN

Features

- * Employs the polypeptide splitting enzyme pepsin (obtained from pig stomach linings), which is chemically bonded to the base material in an extremely stable manner.
- * Displays superior performance with respect to chiral separations of amino alcohol pharmaceuticals such as beta-blockers.
- * No sample pretreatment is required for chiral separations.
- * Can be used for reversed-phase analyses.
- * Trace analyses are possible (several nanograms).

ULTRON PS-80N ULTRON PS-80C ULTRON PS-80P

The ULTRON PS series consists of HPLC columns packed with sulfonic acid type polystyrene cation exchange resin designed for sugar and sugar alcohol analyses. Columns are available in the following three types: PS-80N (Na type), PS-80C (Ca type), and PS-80P (Pb type).

Applications

- * Oligosaccharides, disaccharides, monosaccharides
- * Sugar alcohols
- * Monitoring of fermentation hydrolysis of polysaccharides.



ULTRON AF-HILIC-DA

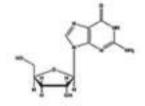
Hydrophilic Interaction Chromatography (HILIC) is a separation mode used for analysing polar compounds that are difficult to retain on a reversed-phase column. In contrary to reverse phase chromatography, samples with low hydrophobicity elutes faster in HILIC mode. When analysing hydrophilic compounds, ion pair reagents are often used because they are difficult to retain in reversed-phase columns, but in HILIC it is possible to retain and separate without using this ion pair reagent.

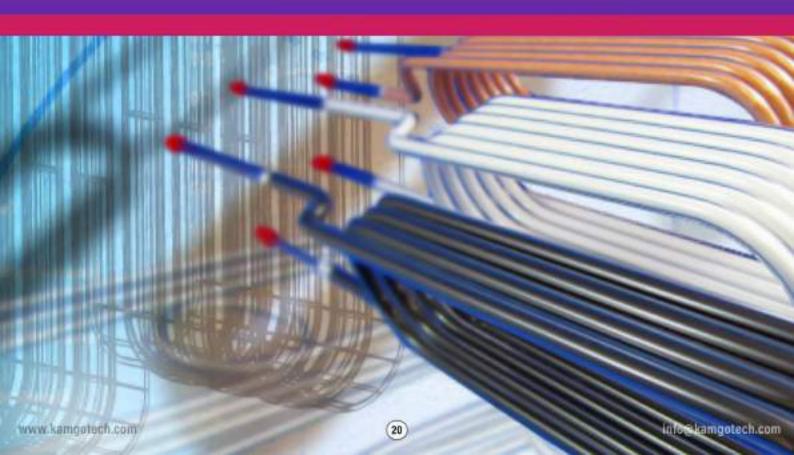
ULTRON AF-HILIC-CD

In these columns, β-cyclodextrin is chemically bound to silica gel substrate.

These columns exhibit high selectivity of molecular structure, high resolution for structural analogs and structural isomers of acidic to neutral molecules

- * β-cyclodextrin is chemically bonded to the silica via spacer
- * By optimising the amount of β-cyclodextrin, excellent separation selectivity and reproducibility were displayed along good durability were also realized.
- * Cyclodextrin has a cavity derived from cyclic structure, which is hydrophobic on the inside and hydrophilic on the outside. The inclusion complex formation phenomenon with various compounds by The intermolecular forces inside the ring structure are characteristic.











Primesep

Primesep stationary phases offer unprecedented selectivity in the separation of a broad array of chemical compounds and in multiple applications.

A wide range of HPLC columns with id's from 0.5 mm to 22 mm are available.

Corresponding Primesep guard columns are available with all

stationary phases and do not require holders. SIELC offers a method development service which is available for all customers.

Ask about our special custom LC-phases tailored for specific separations.

Newcrom

A column with a new outer design. This column and corresponding adapter entirely eliminate the need for any high-pressure fittings or tubing as well as minimizing all possible dead volumes. Furthermore, if a leak ever occurs in the high-pressure column inlet, the mobile phase is contained within the column adapter (no external leakage).

Obelisc

Two complimentary columns, Obelisc R and Obelisc N, based on Liquid Separation Cell (LiSC™) technology, offer a new approach to separate a variety of small molecules. Buffer concentration, buffer pH, and organic modifier concentration are three orthogonal parameters of the mobile phase that allow adjustment of column properties to separate complex mixtures.

Cannsep

SIELC has developed a special line of Cannsep columns to resolve most of the compounds attributed to cannabis physiological properties.

Three columns: Cannsep A, Cannsep B, and Cannsep C resolve all the cannabinoids providing different and significantly orthogonal selectivity.

Legacy

SIELC has developed the Legacy column, which can be used in many USP Validated methods.





Promix

Promix is an alternative chromatography technology for efficient resolution of peptides and proteins. The technology is based on a combination of two interactions – hydrophobic and ionic.

This approach is possible due to a new type of separation media: a

chemical combination of hydrophobic and ionic functional groups on a ligand bonded to a silica support.

With this phase, unparalleled selectivity and peak capacity can be achieved. Independent adjustment of the amount of buffer and organic modifier creates an infinite number of separation conditions that are suitable for many types of bio-molecules.

SHARC™

SHARC™ HPLC columns are the latest, innovative columns from SIELC Technologies, the inventors of Primesep*. SHARC™ columns are the first commercially available columns with separation based primarily on hydrogen bonding.

SHARC stands for Specific Hydrogen-bond Adsorption Resolution Column.

Hydrogen bonding is an interaction (attraction) of bound hydrogen atom to the molecules with electronegative atoms such as oxygen, nitrogen, and fluorine.

Specialty Columns

There are several million compounds isolated and described in chemical literature. An even greater number of combinations of these compounds (mixtures) requires analysis by HPLC. SIELC produces custom phases for our customers who were not able to obtain desirable results with commercially available HPLC phases.

Solid-Core

SIELC Technologies has developed mixed-mode Columns based on solid-core-porous-shell particles. This separation media combines the efficiency of solid-core technology with the unique selectivity of lon-Exchange (IE), reverse phase (RP), surface chemistry and ion-exchange HILIC surface.



One Stop Solution for Complete Chromatography Products



GC Columns

Fused Silica Capillary Columns

- High Performance Rxi columns
- General purpose columns
- Guard / Retention Gap Columns
- Fast GC Columns Application Specific column
- Metal MXT Capillary columns
 PLOT
- Alumina Bond Columns
- Molecular Sieve 5A Columns
- Porous Polymers Columns
- Tubing Scorer

Packed / Micropacked Columns

- Bonded stationary phases
- Packed Column Tubing
- Packed Column Packing Materials
- Custom Coated Packing Materials
- Application Specific Columns

HPLC Columns

- Pinnacle" DB 1.9pm Small Particle Columns C18, Silica, PFP Propyl, Biphenyl, Aqueous C18, Cyano, C18 and 180 Phases
- pHidelity® C18 5pm Columns
- LC Capillary Columns
- Pinnacle' DB Biphenyl, 3pm & 5pnn Columns
- Pinnacle' DB PFP Propyl, 3pm & 5pm Columns
- Pinnacle' DB Silica, 3pm Columns
- Pinnacle' DB Aqueous C18, 3pm & 5pm Columns
- Pinnacle' II PAH, 4pm Columns
- Trident HPLC Guard Cartridges
 Pinnacle' DB Aqueous C18,
 Pinnacle' DB Biphenyl,
 Pinnade DB PFP Propyl
- Trident Direct Guard Cartridge system

Gas Sampling & Air Sampling (SPE Cartridge - Sample Preparation)

Thermal Desorption Unit (TDU) Tubes



GC Accessories

- SKY Inlet Liners Agilent GC's,
 Bruker /Varian GC's, PerkinElmer GC's,
 Shimadzu GC's and Thermo Scientific GC'S.
- Other Deactivations and Inlet Liner accessories.
- Restek Electronic Leak Detector and Flowmeter
- Septa, Ferrules, connectors and Regulators.
- Instruments Supplies for GC's from Agilent,
 Bruker /Varian, Shimadzu &Thermo Scientific.
- Gas Management Systems and Filters along with Traps.
- Gas Generators and Stations
- Switchover Systems
- Gas Pressure System s and Accessories such as Swagelok Fittings & tubings.





HPLC Accessories

- HPLC Instrument Supplies along with complete range of Fittngs, connectors, tubings and Lab organizers.
- Mobile Phase Accessories
- LC-MS Genetrators & Traps
- Syringes
- QuEchERS Products for Solid Phase extractions etc.

Reference Standards

 Complete range of reference standards for Clinical, toxicology, forensic, Environmental, Food, flavours, petroleum, and Pharmaceutical applications







GC COLUMNS

Column Cross-Reference

Columns by Phase

Restok	Phase Composition	USP Nomenclature	- Aligent	SGE	Phenomosex	Macherey- Nagel	Supelice	Alltech	Quadres
Rbs-1(p.39) MD(T-1 (p.93)	directly/ polysituane	61, 62, 638	HP-1, DB-1, CP SI 5 CB	BP1	28-1	OPTIMA1	SP8-1	00-1AT-1, EC-1	007-1
Rui-1HT(p.37)	directly/ polysiturane		DE-11st		28-1HTinterne			AT-1ht	
Rxi-1ms(p.31)	directly/ polysitexane (low bleed)		HP-1,HP-1ms, HP-1msUI DB-1, DB-1ms, DB-1msUI Ultra-1, VF-1ms CP-SI 5 CB	BP1	29-1 28-1ms	OPTIMA 1 MS OPTIMA 1 MS Accent	SPB-1 Equity-1	AT-1ms	007-1
Rbs-5(p.40) NOT-5 (p.94)	diphenyl dimethyl polysiloxane	G27, G36	HP-5, D8-5, CP SH 8 C8	8P5	28-5	OPTIMA 5	SPB-5	EC-5 AT-5	007-5
Rei-SHT(p.37)	diphenyl dimethyl polysitorane		DB-5M, VF-5M	HT5	28-SHTinlemo	OPTIMA SHT			
Rxi-5ma(p.31)	diphenyl dimethyl polysiloxane (low bleed)	627, 636	HP-5, HP-5ms,08-5 Ultra-2, CP St 8 C8	BP-5ms	28-5 23-5ms	OPTIMA 5 OPTIMA SMS	SPB-5 Equity-5	AT-Sms	007-5
Rxil-558 MS (p. 32,57,64,56,73)	1,4-bis(dimethylsiloxy)phenyl- ene dimethyl polysiloxane		DB-5ms, DB-5msUl, VF-5ms, CP Sil 8 CB	8995	28-5msi	OPTIMA SHT Accest	SLB-5ms		007-5MS
Rat-XLB (p. 34, 60)	unique phase		DB-XLB, VF-XMS		MR1, 8-XLB	OPTIMA XLB			
Pbx-20(p.41) MXT-20(p.94)	diphenyl dimethyl polysiloxane				-		SP8-20	EC-20, AT-20	007-20
Rbs-35(p.41) IVXT-35(p.95)	diphenyl dimethyl polysiloxane	642	HP-35, DB-35	8PX35, 8PX808	28-35		SP8-35, SP8-608	AT-35, AT-35ms	007-35
Pai-35SH MS(p.35)	unique phase		DB-35ms, DB-5msUl, VF-35ms,	BPX 35	MR2	OPTIMA 35MS			
Rtx-50(p.42) MXT-50(p.95)	přenyl methyl polysitovane	G3	11 3434				SP8-50	AT-50	007-17
Pat-17(p.34)	diphenyl dimethyl polysiloxane		HP-50+, D8-17, D8-17ht D6-608, CP St 24 C8		ZB-50	OPTIMA 17	SP8-17		
Rul-175H MS (p.35,65)	unique phase		DB-17ms, VF-17ms CP Sil 24 CB	BPX S0	ZB-50	OFTIMA 17MS			
Rbs-65(p.42) MXT-65(p.95)	diphenyl dimethyl polysilozane	617							007-651-0
Pad-624SII MS (p. 36, 70, 80)	uniquo phase		DB-624, VF-624ms CP-Select 524 CB	BP624	23-624	CPTIMA 624LB			
Rbs-1301(p.45), Rbs-624(p.45), MXT-1301(p.95)	cyanopropypheryl dimetryl polysikovane	643	08-1301, 08-624ms VF1301ms, VF-624ms, CP-1301	BP624	28-624	OPTIMA 1301, OPTIMA 624	SP9-624	AT-624, AT-1301	007-130 007-62
Rtx-1701(p.46), MXT-1701(p.96)	cyanopropyphenyl direthyl polysikoane	G46	DB-1701R, DB-1701, CP St 19 CB, VF-1701ms, VF-1701 Pesticides	BP10	ZB-1701, ZB-1701P	OPTIMA 1701	Equity 1701	AT-1701	007-170
Rbs-200(p.44), MXT-200(p.96)	tryfluoropropyphenyl polysilosane	G6	DB-210, DB-200, VF-200ms,			OPTIMA 210		AT-210	
Rtx-200MS(p.44)	tryfluoropropyphenyl polysigsane (low bleed)		VF-200ms,						
Pts-225 (a.46)	cyanopropyphenyl ptenylmetnyl polysiloxane	G7,G19	DB-225ms, CP St 43 CB	BP225		OPTIMA 225	5P8-225	AT-225	007-225
Rtx-440(p.43)	unique phase				Restek	Innovation			
Rts-2330(p.47)	tiscyanopropyl cyanopropyphenyl polysiosano	G48	W-23ma,	BPX70			SP-2330 SP-2331 SP-2380	AT-Silar90	007-23
Rts-2560(p.47,71)	Siscyanopropyl polysilosane		HP-88, CP SI 88				SP-2560		
Rtx-Wax(p.48)	ployethylene glycol	G14, G15, G16 G20, G39	DB-Wax, CP Wax 52CB	8P20	2B-Wax	OPTIMA WAX		AT-WAXINS, EC-WAX	907-CW
Stabiliwaa (p. 49,81) MXT-WAX (p. 96)	ployethylene glycol	G14, G15, G16 G20, G39	HP-fanoWax, GP Wax 52CB, VPWAX MS		ZB-WAXpks	OPTIMA WAXIPLIS	Supelcowas-10	AT-WAX	





GC COLUMNS

Column Cross-Reference

Columns by Application/Industry

Restek	Applications	Aligert	Supolco	Macherey-Nagel	SEE	Altech	Phenomene
Chiral Columns		Vaccentin					
RI-(EDEXon, RI-(EDEXon), RI-(EDEXon, RI-(EDEXon), RI-(EDEXon, RI-(EDEXon), RI-(EDEXon ((I-80))	Onital compounds						
Clinical, Forensic & Toxicology							
Rbs-BAC Plas 1(p.55)	Blood alpohol testing	DB-ALC1					ZB-BAC1
Rts-BAC Plus 2 (p. 55)	Deport actions interrig	DB-ALC2					28-6AC2
Environmental							7-2000000
Rxi-588 MS/p. 57,64.86(Servivolatile - EPA Medinodo 8270, 525, 525	78-5ms, DB-5msUI VF-5ms, CR-SH808	SL8-5ms	OPTIVIA SMS Apport	BPV5		ZBSnsi
HTXLVMS(p,67)	Volatios-EPA Methods 8250,624,524			Restek innov	ation		
Rui-624 SHVS(p.70)	Votatiles-EPA Methods 624	DB-624, VF-624ms, DP-Select 624DB		OPTIMA 624 LB	BP 624		ZB 684
Rb-502.2(a.66)	Volution-GPA Methods	08-502.2	9000L			AT-507.2	
Pite-Volonies (p. 69)	8010, 8020, 502, 2, 601, 602		9000L				
Rts/VRX(p.68)	100000000000000000000000000000000000000	08-VEX					
Rtu-CLPestickles (p. 62)	Ovganochlorina Pesticides -	DB-CLP1					
Rts-CLPesticides2(p.62)	EPA Nothods 8010,8020,608,505,508	DB-CLIP2					
Rts-1614(p.56)	Bonninated Rame returdants			Restek innov			
Rts-PCB(p.56)	Polychloringted bightenyl -	70 10 0 10 10 10	_	Restek innov	ation		tions on the
Rvi VLB(p.60)	EF9. Methods 8082,688 PCB congeners	DB-XLB-VF-XMS		Dental Inc.	all con		MR1, 28-40.
Rts-OPPistoles(p.61)	Organophophorus Pesticides - ERA Mathed 8141			Restek innov			
Rox-OPPesitol des2(p.61) Rox-Dioxid 2(p.58)	Dioxie & Furans EFA Nethods			Restek innov			
Rei-17Sil MS(0,65)	Polycyclic aromatic hydrocarters	DB-17ms, VF-17ms		Restelt innov	BPX50		70-50
	Payores annual representation	CP-5824 CB		UP INVIA 1 NO	3FX00		10.46
Foods, Flavors & Fragrances	cistraus FASIEs	HF-88	SP8-2560				
HI-2560(p.71)	COLUMN THORES		arp-y500			AT-AssayNon	
FAMEWAX(p.71)	Marine pils	Select FAME	Orregewer	and the best of the second		AT-FAME	
Rxi-PAH(p.72)	PAHs			Restek Innov	ation		
Rox-65 TG(p.74)	Triglyparides			Restek innov			
Petroloum & Petrochemical					Contract of		
RE-Alumina BOND/CFC (p. 100)	Chlorinated fluorecarbons (CPEs)						
Rts-OHA(p.77)	Detailed hydrocarbons analysis	HP-PONA-DB-PWH, DP SEPONA CB	Petrood OH		IIP1PONA		
Rts-2887(p.79)	Hydrocarbons - ASTN 288	DB-2887	Petrocol 2887 Petrocol EX2587			AT-2887	
MOCT-2887 (p. 90) D-3806 (p. 121)	Ethanol ASTM 3606	120000	PUBLICUI ENZOEV	Restek innov	adion		
Ri-CTEP(a.75)	CHERO ROTAL SERVE	CP-TCEP	TOEP	Heates union	ange		
Liver had been		1111	22/11/05 22/1	21.000	Select Mineral		
Ros-Mineral (III(p.78)	DIN SNISO 9377-2	Select Winest Oil	Select Mineral Oil	Select Mineral Oil	Dit Description 5:		
1007-1HT SimDist(p. 100)	100,000,000,000	DB-HT-SimDis, CP-SimDist, CP-SimDist Utilinetal			BEXT	WI-3710	JB-TXT SIMO
MXT-1 SimDivi(p.101)	Simulated distillation	DB-HT-SimOte, CP-SimOst, CP-SimDot Utilinetal	CP-SAVDIST	CP-SIMOIST	CP-SIVE ST		
NDCT-500 Simbled(p.101)			i l	Restek Innov	ation		
Rtx-Blockeset TG(p. 70) MOCT-Blockeset TG(p. 99)	Triglycarides in blockesel	Biodesel, Select Biodesel		OPTIMA Biodicsal	min'an o'		ZB-Bloothon
Pharmacoutical		and the same					
Rts-627 w/integraGuard/p.83(
Rts-G43 w/integraGuardip.83)			041-643				
Rbi-624SV MS(p. 80)	Organic volatile impurities (OVI)-	DB-634, VF-634ers, CP-Select 624CB		0FTMA-624 LB	89-604		28-624
Hbr-(G27) (p.80)	USP 467	HP-5, D8-5, CP-SII 8 C8	SP9-5	DPTMA-5	84-0	EC-5, AT-5	28-0
Stabilwax (G16)(p.81)		HP-IMNDwar, CPwar 52CB, VF-WAX MS	Supelceway-10	CPTIMAWAYQUUS		AT-CAM	28 WWqa
Specially deactivated phases	-	DESIGN, VT-WALK RES					
Ro-Voletie Arnine (p.85)	Voidle arrives	CP/RVAmino.					
Rts-SAmino(p.86)	13400 41000	CP-SI 8 CB		OPTIMA 5 Amine			
Pite-35Amise(a.87)	Aminas	2 3 0 0		Restek Innov	ation		-
Stabilway-DB(p.88)		CAML OF WAX B1	Carbonway Amine	FS-CW 20 M-AM	1	AT-CAM	
Stabilwax DA(p.84)	Free tatty acids	HF-PFAR DB-FFAR VF-DA,CP WAXSB CB.	Mark .	PERMADOND FFAR OPTIMA FFAR	BP-21	AS-AquatMor DA	ZB-FFAP





9mm Screw Top Vials, Cap and Septa



8mm Screw Top Vials, Cap and Septa



11 mm Snap Top Vials, Cap and Septa



11 mm Crimp Top Vials, Cap and Septa



9mm LC Clean Bonded Screw Cap



- Color free, Bonded ultra clean septa.
- · For all LC HPLC and LCMS analysis.
- · Suitable for critical samples.

9mm Magnetic Screw Cap

- Designed for instruments using a magnetic sample transport system.
- · Truly Bonded Septa.
- Secure grip to auto sampler magnets.
- For liquid injection technique (Temp. upto 130°C).



Ultra Mass Spec Certified Screw, Cap with Septa (UM4)



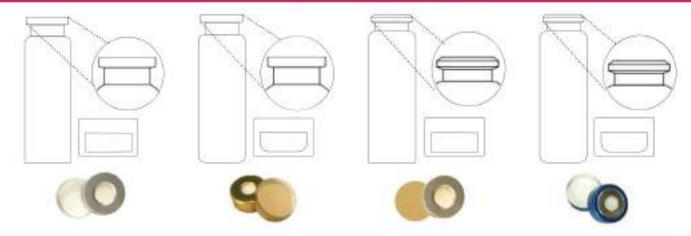
- · Extreme low-bleed.
- Conditioned to level 4 standard.
- · Cleanest in the industry.
- · Pharmaceutical grade.







20ml Headspace Vials, Cap and Septa



20ml Headspace Vials, Cap and Septa



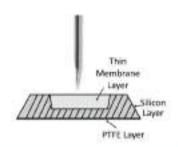


- · No crimping required.
- Secure grip to autosampler magnets.
- For Headspace technique. (Temp. up to 130°C).

18mm PolyMag Screw Cap with SPME MicroCenter Septa



- · Micro thin center.
- · Seals tightly.
- · Easy to pierce.
- Patented Product.
- For Headspace technique. (Temp. up to 130°C).



EPA Kit

33





- · Suitable for water or soil samples.
- Ultra-low bleed septa are suitable for all environmental sample analysis.
- Ideal for methods like EPA method 5035.





Smart Septa (RFID)

- Scan tags with commercially available RFID handheld devices.
- Track samples at the individual vial/cap level.
- · Temperature extreme agnostic.
- Protected from chemical sample with in the silicone/PTFE layers.
- Tag cannot be removed or tampered with.
- · Customizable data storage parameters.
- Secure administration of data.



1 ml Clear Glass Shell Vial with PE Plug Cap 1 ml PP Shell Vial with PE Plug Cap



Manual Decapper 11 mm/20mm



Manual Crimper 11 mm/20mm

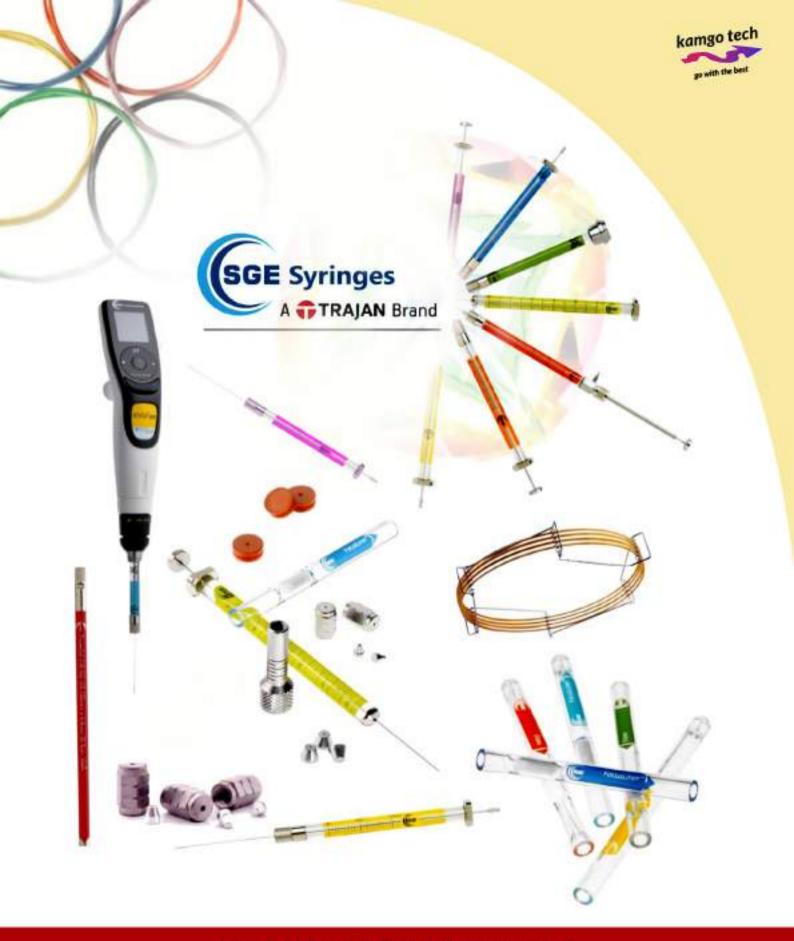






- OEM equivalent lamps.
- · Same bare lamps as used to produce.
- OEM lamp.
- Guarantee and warranties match those offered by OEM.





KAMGO TECHNOLOGIES INDIA PVT. LTD.



PEEK TUBING





PEEK Tubing Part Number

Part Number	Fart description and detail	Cel	or
5' PEEK tubing			
1302005001-5#	1/16" OD x 0.005" ID x 5' length PEEK tubing, red	Red	
1302007002-5#	1/16" OD x 0.007" ID x 5" length PEEK tubing, yellow	Yellow	
1302010003-5F	1/16" OD x 0.010" ID x 5' length PEEK tubing, blue	Blue	
10' PEEK tubing			
1302005001-10F	1/16" OD x 0.005" ID x 10' length PEEK tubing, red	Red	
1302007002-10F	1/16" OD x 0.007" ID x 10' length PEEK tubing, yellow	Yellow	
1302010003-10F	1/16" OD x 0.010" ID x 10' length PEEK tubing, blue	tilue	
SO' PEEK tubing			
1302005001-50F	1/16" OD x 0.005" ID x 50' length PEEK tubing, red	fled	
1302007002-50F	1/16" OD x 0.007" ID x 50' length PEEK tubing, yellow	Yellow	
1302010003-50F	1/16" OD x 0.010" ID x 50' length PEEK tubing, blue	Blue	
100' PEEK tubing			
1302005001-100F	1/16" OD x 0.005" ID x 100" length PEEK tubing, red	Red	
1302007002-100F	1/16" OD x 0.007" ID x 100" length PEEK tubing, yellow	Yellow	
1302010003-100F	1/16" OD x 0.010" ID x 100' length PEEK tubing, blue	Blue	

HPLC COLUMNS



Part Number	Part description and detail
206610 WKS	150 X 4.6MM WAKOSIL CB RS 5µm HPLC COL
296505 WKS	250 x 4.6MM WAKDSIL C18 RS 5µm HPLC COL
2C183-05N465	PROTECOL C18 Q 100 150MM X 4.6MM 55
2C183-05R46S	PROTECOL C18 Q 105 250MM X 4.6MM SS
2C185-05N465	PROTECOL C18 G 125 250MM X 4.6MM X 5µm 55
2C185-05R46S	PROTECOL C 18 G 125 250MM X 4.6MM X 5µm SS
2C83-05N465	PROTECOL C8 H 120 150MM X 4.5MM 55
2C83-05R46S	PROTECOL CE H 125 250MM x 4.6MM SS





eVoP XR Digital Analytical Syringe

Part No.	Description
2910200	eVol®XR Starter Kit Contains: • eVol®XR handle. • 3 eVol®Syringes with 5cm Bevel Tipped Needles- 5 µL, 100 µL, 1ml. • Stand.
	 Universal Charger. Comprehensive Instruction Manual.
2910205	eVol®XR (handle only)

Typical Applications Include:

- · Preparation of calibration standards
- · Preparation and addition of internal standards
- Precise dispensing of aqueous and non-aqueous liquids
- GC and LC Instrument injections
- · FDA methods requiring 1ml syringe
- · Ergonomic operation with substance in a fume hood
- Serial dilutions
- · Micro titrations
- · Routine dispensing
- Precise measurements
- Sample dilution
- TLC spotting





KAMGO TECHNOLOGIES INDIA PVT. LTD.





Autosampler syringe selection Tree

This selection tree is provided to facilitate finding the syringes to suit your autosampler.

The relevant part number table can be found after following the path for your instrument and model.



SGE Syringes - volumetric color guide

SGE Syrings for autosamplers incorporate a vibrant color scheme, distinguished by volume, enabling easy identification of syringes installed in instruments.

Choose from a comprehensive range of SGE Syringe options including plunger protection, Removable or fixed needles, a range of needle gauge and length options as well as needle tip style alternatives.

Color	Syringe capacities			
Light orange	500 nL (0.5 µL)	500 µL		500 mL (0.5 L)
Yellow	1000 nL (1 µL)		1 mL	1000 mL (1 L)
Lime	5000 nL (5 µL)	5 µL	5 mL	
Dark grange		10 µL	10 mL	
		25 µL	25 mL	
Purple		50 µL	50 mL	
Aqua		100 µL	100 mL	
Gray		250 µL	2.5 mL	2000 mL (2 L)





Syringes I Hamilton cross reference

Variation notes:

FN = fixed needle, GT = gas tight, with PTFE tipped plunger, H = Hamilton, LL = Luer Lock, LT = Luer Tip, RN = removable needle, WO = without

Hamilton Part No	Part Description & Detail SGE Part Part Description & Detail Number		Equivalent or Option	Variation	
0160310	1750 HITACHI SYRINGE	007660	500 µL Hitachi LC autusampler syringe with GT plunger with M10 - 1.0 screw thread	ε	
202640	701RSN AOC 14/17(225/1.69°/2)	002898	10 µL removable needle Shimadzu syringe with 4.2 cm 0.63 mm 00 cone tipped needle	0	23 g needle
203084	1002LTN CTC SYRINGE (23/51/5)	008631	2.5 mi. fixed needle CTC head space syringe with energized GT plunger and 5.6 cm 0.63 mm GD side hole needle	E	
203205	701N CTC SYRINGE (26s/51/A5)	002700	10 µL fixed needle CTC syringe with 5 cm 0.47 mm OD cone tipped needle	E	
80000	1701N 10 µL SYR (26s/2*/2)	002200	10 pt. needle syringe with GT plunger and 5 cm 0.47 mm OD bevel tipped needle	E	
80079	1701ASN SYR(235/265/1.71"/HP)	002826	10 µL fixed needle Agilent syringe with GT plunger and 4.2 cm 0.63/0.47 mm OD cone tipped dual gauge needle	E	
80135	7001КН 1:0 µL SYR (25/2:75°/2)	000506	1.0 µL NanoVolume syringe with 7 cm 0.63 mm OD bevel tipped needle	0	23 g needle
80300	701N 10 µL SYR (26s/2"/2)	002000	10 µL fixed needle syringe with 5 cm 0.47 mm OD bevel tipped needle	E	
80330	701.RN 10 µL SYR (26s/2*/2)	002050	10 µL removable needle syringe with 5 cm 0.47 mm OD bevel tipped needle	E	
80370	901RN 10 µL SYR (26s/2"/2)	002450	10 µL removable needle guided plunger syringe with 5 cm 0.47 mm 00 bevel tipped needle	£	
80393	701ASN SYR (23-26/1.71*/HP)	002821	10 µL fixed needle Aglient syringe with 4.2 cm 0.47 mm 00 cone tipped dual gauge needle	e	
80400	702N 25 µL SYR (22s/2*/2)	003000	25 µL fixed needle syringe with 5 cm 0.5 mm OD bevel tipped needle	E	
80465	7025NR 25 JL SYR (22s/2*/3)	003300	25 µL fixed needle syringe with 5.1 cm 0.72 mm 00 tC needle	9.	
80500	705N 50 µL SYR (22s/2*/2)	004000	50 µL fixed needle syringe with 5 cm 0.5 mm OD bevel tipped needle	0	25 g needle
80565	7055NR 50 µL SYR (22s/2*/3)	004300	50 µL fixed needle syringe with 5.1 cm 0.72 mm OD LC needle	E	
80600	710N 100 jd 5YR (22s/2*/2)	005000	100 µL fised needle syringe with 5 cm 0.5 mm OD bevel tipped needle	0	
80665	7105NR 100 µL SYR (22s/2"/3)	005300	100 µL fixed needle syringe with 5.1 cm 0.72 mm 00 LC needle	E	25 g needle
81100	1725LTN 250 µL SYR (22x/2*/2)	006200	250 µL fixed needle syringe with GT plunger and 5 cm 0.5 mm QD bevel tipped needle	0	Not IT
81217	1750LTN 500 µL SYR (22/2*/2)	007200	500 µL fixed needle syringe with GT plunger and 5 cm 0.5 mm OD bevel tipped needle	o	Not IT
81317	1001LTN 1.0 mil 5YR (22/2*/2)	008102	1 and fined needle surines with GT phones and		Not IT
81320	1001TLL 1.0 mL SYR	008025	1 mL fixed Luer Lock syringe with GT plunger	t	
81327	1001TLL 1.0 mL SYR W/SLOTS	008025	1 ml. fixed Luer Lock syringe with GT plunger	Ē	
81330	1001RN 1.0 mL SYR (22/2*/2)	008100	1 mL removable needle syringe with GT plunger and 5 cm 0.63 mm OD bevel tipped needle	t	
84850	85N 5 µL SYR (26s/2*/2)	001400	5 µL fixed needle guided plunger syringe with 5 cm 0.47 mm OD bevel tipped needle	E	
87900	75N 5 µL SYR (26s/2*/2)	001000	5 µL fixed needle syringe with 5 cm 0.47 mm OD bevel tipped needle	E	



Ferrule Selection Guide



Material	User	Advantages	Disadvantages
100% Graphite	FID, NPO	Easy-to-use stable seal High temperature limit Can be easily removed Can be re-used	Not for MS or oxygen-sensitive detectors SoG, easily deformed or destroyed Possible system contamination
85% Vespel/ 15% Graphite	MS & oxygen-sensitive detectors	Long lifetime High temperature limit MS compatible	Can not be re-used Must be re-tightened aGer initial temperature cycle
SiTite Metal	MS & oxygen-sensitive detectors	Long lifetime High temperature limit MS compatible	Can not be re-used











Connectors & Ferrules for Agilent Instruments

Part No.	Instrument	Column ID	Ferrule ID	Pack Size
	15 % gr	aphite/ 85% Vespel ferrules		
073109		0.1 - 0.25 mm	0.4 mm	10
073111	Injectors & detectors at atmospheric pressure e.g. FID	0.32 mm	0.5 mm	10
073113	aunospheric pressure e.g. rio	0.53 mm	0.8 mm	10
072663		0.1 - 0.25 mm	0.4 mm	10
072654	GC-MS interface connection	0.32 mm	0.5 mm	10
072655		0.53 mm	0.8 mm	10
	10	00% graphite ferrules	70	V41
072635	Injectors & detectors at atmosperic pressure	0.1 - 0.32 mm	0.5 mm	10
072636	e.g. FID(not for GC-MS)	0.45 - 0.53 mm	0.8 mm	10
	Replace	ment SilTite metal ferrules	10	VII
073220	All connections	0.1 - 0.25 mm	0.4 mm	10

Connectors & Ferrules for PerkinElmer Instruments

Instrument	Column ID	Size of Nut	Ferrule ID	Pack Size
15 % grap	phite/ 85% Vespel fern	ules		
For injectors & detectors at atmospheric pressure e.g. FID	0.1 - 0.25 mm	1/16"	0.4 mm	10
	0.32 mm	1/16"	0.5 mm	10
	0.45 - 0.53 mm	1/16"	0.8 mm	10
100	056 graphite ferrules			
Injectors & detectors at	0.1 - 0.32 mm	1/16"	0.5 mm	10
e.g. FID(not for GC-MS)	0.45 - 0.53 mm	1/16"	0.8 mm	10
Replacen	nent SilTite metal fern	ales		
GC-MS interface connection	0.1 - 0.25 mm	1 8 1	0.4 mm	10
	For injectors & detectors at atmospheric pressure e.g. FID Injectors & detectors at atmosperic pressure e.g. FID(not for GC-MS) Replacen	For injectors & detectors at atmospheric pressure e.g. FID Injectors & detectors at atmospheric pressure e.g. FID Injectors & detectors at atmosperic pressure e.g. FID(not for GC-MS) Replacement SIITite metal fem	For injectors & detectors at atmospheric pressure e.g. FID 0.1 - 0.32 mm 1/16" 0.45 - 0.53 mm 1/16"	15 % graphite 35% Vespol ferrules



Connectors & Ferrules for Shimadzu Instruments



Part No.	Column ID	Description	Pack Size	
GC17A	GC2010 and GC2014 detector/ injec	tors (not for MS interface or QP2010 injec	ctor)	
0726080	0.10 - 0.25 mm ID columns	100% graphite	10	
0726082	0.45 - 0.53 mm IO columns	100% graphite	10	
QP500	0/5050 wide bore MS interface, QP2	010 injector & QP2010 standard MS inter	face	
072663	0.10 - 0.25 mm ID columns	15% graphite / 85% Vespel ferrules	10	
072654	0.32 mm ID columns	15% graphite / 85% Vespel ferrules	10	
072655	0.45 - 0.53 mm IO columns	15% graphite / 85% Vespel ferrules	10	
073220	0.10 - 0.25 mm ID columns	SITRe ferrules	10	
		A STATE OF THE PARTY OF THE PAR		

Connectors & Ferrules for Thermo Scientific Instruments

Part No.	Instrument	Column ID	Size of Nut	Ferrule ID	Pack Size
	Reg	lacement SiTite nuts			
	15 % gra	phite/ 85% Vespel fer	rules	79.75	
073109	For TRACE 1300 injectors	0.1 - 0.25 mm		0.4 mm	30
073311	& detectors at atmospheric	0.32 mm		0.5 mm	30
073113	pressure e.g. FID	0.53 mm	- 18	0.8 mm	30
072663		0.1 - 0.25 mm	17.	0.4 mm	10
072654	For TRACE 1300 GC-MS interface connection	0.32 mm	12	0.5 mm	30
072655		0.53 mm		0.8 mm	10
	10	0% graphite ferrules			
072635	For TRACE 1300 injectors &	0.1 - 0.32 mm		0.5 mm	10
072636	Pressure e.g.FID(not for GC-MS)	0.45 - 0.53 mm	in in	0.8 mm	10
	Replace	ment SilTite metal fen	rules		
073220	For TRACE 1300 connections	0.1 - 0.25 mm	12	0.4 mm	10





Inlet Liners for Agilent, Thermo Instruments



Description and Geometry	OD (mm)	ID (mm)	Length (mm)	Pack Size	Part No.
For Agilent 5890,6850,6890,78	90 and 4890 I For Thern	no Scientific	TRACE 1300GC		
Split / Splitless FocusLiner	6.3	4	78.5	5	092002
Split/ Splitless with single taper (quartz wool)	6.3	4	78.5	5	092019
Split/Splitless quartz, straight-through liner	6.1	2	78.5	5	092004

O-Ring and Sealing Rings

Part No.	Description	Usage	Pack Size
0726532	Viton O-Ring	Temperature up to 300°C. Suitable for liners with OD of 0.63 mm	10

Inlet Liners for PerkinElmer Instruments

Description and Geometry	OD (mm)	ID (mm)	Length (mm)	Pack Size	Part No.
For PerkinElr	ner AutoSystem and Clan	us 500, 600			
Split / Splitless FocusLiner	6.2	14	92	5	092092
Split / Splitless tapered FocusLiner	6.2	4	92	5	092095
Split, straigth-through liner	6.2	2	92	S	092100
Split / Splitless for PSS injector	4	4	86.2	5	092098
Split / Splitless FocusLiner for PSS injector	4	2	86.2	5	092101

O-Ring and Sealing Rings

Part No.	Description	Usage	Pack Size
0726536	Viton O-Ring	Temperature up to 300°C. For use with 6.2 mm OD liners	10

Inlet Liners for Shimadzu Instruments

Description and Geometry	OD (mm)	ID (mm)	Length (mm)	Pack Size	Part No
For PerkinEl	mer AutoSystem and Clan	us 500, 600			
Split / Splitless FocusLiner	5	3.4	95	5	092062
Split/ Splitless with middle gooseneck	5	3.4	95	5	092077
Split/ Splitless with middle gooseneck	5	3.4	95	5	092085
ConnecTite (0.53 mm ID columns)	5	2.6	95	5	092087

O-Ring and Sealing Rings

Part No.	Description	Usage	Pack Size
0726533	Viton O-Ring	Temperature up to 350°C. For 2010 & 2014 (SPL-2010 injector & SPL-2014 injector	10

LABORATORY VISCOMETERS

Ease of use, Flexibility, Reliable Performance and Quality of Service



DVNEXT RHEOMETER:

- · Quick Set up with new Viscosity Wizard and Digital Leveling
- Ethernet and LIMS Connectivity
- Single-handed Spindle Installation and Removal
- Compliant to 21 CFR Part 11 in Stand-alone Mode

					-
ww	nat	-61	me	wa	er.

Instrument Lab Stand (Model G) 6 RV/HA/HB spindles or Screen Protector 4 GB Flash Drive (Includes 4 LV spindles RTD Temperature Probe Operator Instructions) Spindle Guard Leg* Carrying Case

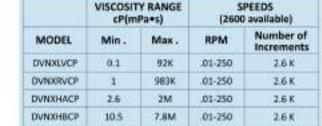


MODEL	VISCOSITY RANGE cP(mPas)		SPEEDS (2600 available)	
	Min .	Max.	RPM	Number of Increments
DVNXLV	17	6M	01-250	2.6K
DVNXRV	10011	40M	01-250	2.6K
DVNXHA	200++	80M	01-250	2.6K
DVNXHB	800++	320M	01-250	2.6K

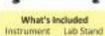
11 cP achieved with UL Adapter accessory, 15 cP on LV with standard spindles. †† Minimum visocosity is achieved with optiuonal RV/HA/HB-1 spindle. B = 1 billion M = 1 million K = 1 thousand cP = Centipoise mPas = Millipascalseconds

DVNEXT CONE/PLATE RHEOMETER:

- Determine absolute viscosity of small samples (0.5 2.0 mL)
- Precise shear rates for determining a material's flow curve behavior
- Rapid temperature control due to small sample size
- · Electronic gap adjustment for simplified setup and increased throughput
- Touch Screen Display available on DVNext Rheometers
- Auto-zero function to ensure precision torque measurement
- Auto-range function to define full-scale-range (FSR) for all spindle/speed combinations
- Torque measurement accuracy: 1% of full scale range
- Repeatability: 0.2% of full scale range



The above chart covers cores 40, 41, 42, 51 and 52 K = 1 thousand cP = Centipoise mPas = Millipascalseconds M = 1 million



DV2T TOUCH SCREEN VISCOMETER:

- 5.7-inch Full-Color Touch Screen Display
- Enhanced Security & Built-in Options
- Auto Range Showing & USB PC Interface
- Convenient Bubble Level Download custom test programs with PG Flash Software
- Built-in RTD Temperature Probe & Internal Data Storage



		0.17/10/202	VISCOSITY RANGE cP(mPa+s)		PEEDS available)
MODEL	Min .	Max.	RPM	Number of Increments	
DV2TLV	14	6M	.1-200	200	
DV2TRV	10011	40M	.1-200	200	
DV2THA	20011	80M	.1-200	200	
DV2THB	800++	320M	.1-200	200	

What's Included

Instrument 6 spindles (RV/HA/HB) or 4 LV spindles PG Flash Software RTD Temperature Probe-

Spindle Guard Leg* Lab Stand (Model G) Screen Protector Carrying Case "Not applicable to HA or HB torque models

DV1 DIGITAL VISCOMETER:

- User Configuration Display
- Choice of Multiple Languages & USB PC interface
- 18 speeds
- Automatic Range Calculation
- Simplified User interface
- Stylish Model G Base



	cP(mPa+s)		(200 available)		
MODEL	Min .	Max.	RPM	Number of Increment	
DV1MLV	1*	2M	.3-100	200	
DV1MRV	100	13M	.3-100	200	
DV1MHA	200	26M	.3-100	200	
DV1MHB	800	104M	.3-100	200	
	DV1MLV DV1MRV DV1MHA	MODEL Min . DV1MLV 1* DV1MRV 100 DV1MHA 200	DV1MLV 1* 2M DV1MRV 100 13M DV1MHA 200 26M	MODEL Min. Max. RPM DV1MLV 1* 2M .3-100 DV1MRV 100 13M .3-100 DV1MHA 200 26M .3-100	

VISCOSITY RANGE

What's Included

Instrument 6 spindles (RV/HA/HB) or 4 spindles (LV) Spindle Guard Leg

*Lab Stand (Model G) Carrying Case Not applicable to HA or Hill torque models



SPEEDS.





DVE DIGITAL VISCOMETER:

FEATURES & BENEFITS

- · Low cost and easy to use
- · Direct display in: cP or maps, % Torque, Spindle, and Speed
- Torque measurement accuracy: 1% of full scale range
- · Repeatability: 0.2% of full scale range
- · Compatible with all Brookfield accessories
- NIST traceable viscosity standards available
- 18 speeds for greater range capability (0.3 to 100 rpm).



		0.000,000,000,000	viscosity RANGE cP(mPa+s)		PEEDS available)
MODEL	Min .	Max .	RPM	Number of Increments	
DVELV	19	2M	.3-100	18	
DVERV	100**	13M	.3-100	18	
DVEHA	20011	26M	.3-100	18	
DVEHB	80011	104M	3-100	18	

What's included

*6 spindles (RV/HA/HB) or 4 spindles (LV) *Instrument *Lab Stand (Model G) *Spindle Guard Leg *Carrying Case

	viscosity RANGE cP(mPa+s)		SPEEDS (200 available)	
MODEL	Min .	Max.	RPM	Number of Increments
LVT	1+	2M	.3-60	8
RVT	100++	8M	.5-100	10
HAT	20011	16M	.5-100	10
HBT	800††	64M	5-100	10

What's included

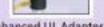
*6 spindles (RV/HA/HB) or 4 spindles (LV). *instrument *Spindle Guard Leg *Lab Stand (Model G) *Carrying Case

MODEL	RPM	Number of Increments
CAP 1000+	900/750	2
CAP 2000+	5-1K	995

What's Included

*Choice of Torque Range -Standard Torque (ICI Specification) 181,000 dyne- cm *Low Torque: 7,970 dyne. cm Choice of One Cone Spindle Choice of Temperature Control (L or H)









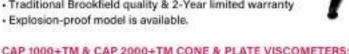
Vane Spindles

Viscosity Standards Available

DIAL READING VISCOMETER:

FEATURES & BENEFITS

- Continuous torque sensing capability
- · Torque measurement accuracy: 1% of full scale range
- · Repeatability: 0.2% of full scale range
- · Easy speed adjustment and on/off control
- Compatible with all Brookfield accessories
- NIST traceable viscosity standards available
- · Electronic drive means quiet, reliable operation
- · Universal power supply worldwide compatibility
- Traditional Brookfield quality & 2-Year limited warranty



CAP 1000+TM & CAP 2000+TM CONE & PLATE VISCOMETERS:

FEATURES & BENEFITS

- Quick single point test
- Choice of shear rate. Standard speeds include 750 and 900 rpm to provide shear rate at 10,000 sec-1.
- Rapid temperature control with built-in Peltier element in sample plate
- Meets Industry Standards: ASTM D4287, ISO 2884 and BS 3900
- Rugged design can handle production environment
- Small Sample Size, < 1 mL, Simplifies Testing
- · Easy to Clean
- Customizable options
- · Parallel printer output



Thermosel







Small Sample Adapter Enhanced UL Adapter Helipath Stand







WATHER BATHS

ACCESSORIES

AP Series Controllers

- Color touch-screen interface
- Standalone programmable or PC control with RheocalcT software
- Variable-speed pump
- Max. temperature up to 200°C
- Multiple languages (English, French, German, Spanish, Chinese available)
- Built-in help menu

SD Series Controllers

Best Value

- Programmable with PC control using RheocalcT software
- Quick scroll to set temperature in standalone mode
- 2-speed pump
- Maximum temperature up to 170°C

MX Series Controllers

- Economical
- Large character display
- Single-speed pump
- Maximum temperature up to 135°C

Model	Temp -Low	Temp-High	Stability	Capacity
TC-650AP	-20°C	+200°C	0.01°C	7.0 ltrs.
TC-6505D	-20°C	+170°C	0.04°C	7.0 ltrs.
TC-650MX	-20°C	+135°C	0.07°C	7.0 ltrs.
TC-550AP	-20°C	+200°C	0.01°C	7.0 ltrs.
TC-550SD	-20°C	+170°C	0.04°C	7.0 ltrs.
TC-550MX	-20°C	+135°C	0.07°C	7.0 ltrs.
TC-250AP*	-20°C	+150°C	0.01°C	10.0 Ltrs
TC-2505D*	-20°C	+150°C	0.04°C	10.0 ltrs.
TC-250MX*	-20°C	+135°c	0.07°c	10.0 ltrs
TC-150AP*	-20°C	+150°C	0.01°C	6.0 ltrs.
TC-150SD*	-20°C	+150°C	0.04°C	6.0 ltrs.
TC-150MX*	-20°C	+135°C	0.07°C	6.0 ltrs.
TC-351	-20°C	N/A	N/A	N/A

kamgo tech go with the best

TEXTURE ANALYZER

CT 3 TEXTURE ANALYZER:

FEATURES & BENEFITS

- · Choice of five load ranges up to 50kg
- A variety of probes and accessories for new application opportunities
- Choice of two adjustable base tables allows for versatility of sample testing
- Six available test modes plus a calibration check
- · Stores up to 10 additional customized test methods
- · Easy-to-read display and easy-to-use, intuitive controls
- · 21CFR compliant with optional TexturePro CT software

SPECIFICATION

Speed	
Range	0.01-0.1mm/s (increments 0.01mm/s) 0.1 - 10mm/s (increments 0.1mm/s)
Accuracy	±0.1% of setspeed
Position:	
Range	0-101.6mm
Resolution	0.1mm*
Accuracy	0.1mm

*Resolution 0.01 mm when used with Texture Pro CT Software



What's included: Instrument with choice of load cell Texture Loader Software USB & Power Cables

CTX TEXTURE ANALYZER:

FLEXIBILITY: Interchangeable load cells for optimal flexibility (eight choices ranging from 100g to 100kg)

FUNCTIONALITY : Extended boom travel up to 280mm for longer reach testing

SPEED : Faster travel means faster testing

PRECISION : 500 Hz data output rate captures the precise moment there is a change to your sample

ACCESSORIES

While many CT3/ CTX accessories have multiple applications, some are particularly useful for specific industries

TA-KF - Kieffer Dough and Gluten Extensibility Fixtures quantifies maximum force & distances needed to break sample.

TA-JPA - Junior Punch Fixture is for punching through flat samples;

TA-AACC36 - Probe for measuring bread firmness and performing texture analysis —FOOD

TA-PTF - Pizz tensile Fixture quantifies cooked pizza firmness by measuring the tensile force and

deformation distance to break sample - FOOD

TA-STF - Spread Test Fixture quantifies the spread, force of a material - Cosmetics

TA-TEF - Tube extrusion fixture measures continuous extrusion force of tube or sachet samples - Tooth paste

TA-TCA - Tablet Coating Adhesion fixture measures the adhesion force of a tablet coating to a tablet -Pharma

TA-BPS - Blister Pack Support Fixture is used to measure the force required to remove the tablet from its blister pack

Packaging A variety of cylindrical, cone, ball, needle, knife-edge and wire cutting probes are also available.
 Many more CT3/CTX accessories available.













PFT POWDER FLOW TESTERS



FEATURES & BENEFITS

- Tests powders for formulation, characterization and QA/QC
- · Quickly and easily develop product SOP
- Minimize or eliminate production downtime and expense
- · Compact design easily fits on a workbench
- · Easy to use and intuitive Powder Flow Pro software included
- Full Flow Function Test in 25 minutes

What's included Powder Flow Tester Instrument Powder Flow Software

Choose one or both:

- Standard Volume Accessory Kit 230cc
 Trough & 33cc Vane Lid
- Small Volume Accessory Kit 38cc
 Trough & 5cc Vane Lid

Each of the above include:

- Wall Friction Lid 304 s/s simulated 2B finish
- Outer Catch Tray
- Inner Catch Tray w/ Scraper Tool
- Powder Scoop
- Cleaning Brush







RHEOMETERS

RST RHEOMETER:

	VISCOSIT (Pa	SPEEDS	
MODEL	Min.	Max.	RPM
RST-CC Coaxial Cylinder	.00005	5.41M	0.01-1.3K
RST-CPS Cone/Plate	0.0006	814K	0.01-1.3K
RST-CPS Plate/Plate	0.002	2.49M	0.01-1.3K

K = 1 thousand M = 1 million 1 Pas = 1000 cP (centipoise)

RSO'N OSCILLATORY RHEOMETER:

Cone/Plate & Plate/Plate and Coaxial Cylinder DIN Geometry options

- Quick Test functionality allows for testing within minutes
- Stand-alone mode with easy-to-use interface makes it simple for QC Users
- Viscoelastic measurements provide R&D users with advanced testing capabilities
- Flexibility allows cone/plate and concentric cylinder in a single instrument



SPECIFICATIONS

Maximum Torque:	100 mN·m
Torque Resolution:	0.15 μ.N·m
Speed:	0.01-1,300 rpm
Data Output:	USB, RS232
Display Units	cP, Pa+s, dynes/cm2,Pa, "C, "F



RST Coaxial



RST coneplate



RST Soft solids

Min Torque	5µNm
Max Torque	100mNm
Resolution of Torque	0.02µNm
Bearing	Air bearing
Resolution of deformation	1.25µrad
Min speed	0.001rpm
Max speed	1500rpm
Min frequency	0.001 Hz / 0.006 rad/s
Max frequency	20 Hz / 126 rad/s
Measurement system	Cylinder/Cone Plate
Temp control	Peltier or bath option
Min Temp.	0°C
Max Temp.	180° C
Size W×H×D	360×600×340m
Weight	31kg



The Lab Balance that Adapts to Your Process

The Balance that Features

Since its launch the CUBIS Premium Lab balance has established itself as a benchmark for use in regulated sectors Like Global Pharmaceutical Labs with the most stringent requirements.

- Modularity- MSA- ultimate solution touch screen/Colour TFT
- MSU- Classic and Universal High resolution Monochrome graphic display
- MSE Large high contrast liquid crystal display
- Safe and easy to use with Standard —Q Guide or with Personalized Q-apps
- App-solutely individual
- Individual integration into YOUR APPLICATION
- Q level- the automatic Motorized Leveling function has now become standard Feature
- Q com- for Unlimited Communication
- Draftshied for any task
- Utmost precision for the Tiniest Sample sizes
- Speed and reliable results
- Safety and reset reliability
- Advanced pharma compliance for use in regulated sectors





Cubis Series



Model	Readability	Capacity	Pan Size	Response Time	Optimal Starting
-17-3	(mg)	(g)	(mm)	(s)	Range
2.75	0.0001	2.1	Ø20	10	0.082 mg
665	0.001	61g	Ø50	10	0.82 mg
365	0.001	31g	Ø50	10	0.82 mg
6.65	0.001	6.1	Ø30	8	0.82 mg
3.6P	0.001 10.002 0.005	1.1 2.1 3.1	Ø30	8	0.82 mg
2255	0.01	220	85 x 85	6	8.2 mg
225P	0.01 0.02 0.05	60 120 220	85 x 85	6	8.2 mg
5245	0.1	520	85 x 85	3	82 mg
2245	0.1	220	85 x 85	3	82 mg
52035	1	5,200	140x140	2	820 mg
32035	1	3,200	140x140	2	820 mg
12035	1	1,200	140x140	1.5	820 mg
142025	10	14,200	206 x 206	1.5	8.2 g
8202S	10	8,200	206 x 206	1.5	8.2 g
5202S	10	5,200	140x140	1	8.2 g
12025	10	1,200	206 x 206	1	8.2 g
122015	100	12,200	206 x 206	1	82 g
82015	100	8,200	206 x 206	1	82 g
70201S	100	70,200	400 x 300	1.5	82 g
362015	100	36,200	400 x 300	1.5	82 g
702005	1,000	70,200	400 x 300	1	820 g

According to USP chapter 41, the optimal operating range is defined. May vary as per installation location and environmental conditions

Optional Accessories

- Data Printer
- Filter weighing and anstistatic accessories
- Pipette calibtation Hardware and software
- Density determination kit





SECURA

The New Secura-



Easy, Reliable weighing in Regulated Areas

- Reliable weighing easier than before
- Compliance in regulated areas
- Advanced Pharma compliance operation
- Stress free-USP minimum sample measurements
- Isocal feature gives temp free influences on accuracy
- Easy cleaning
- Comes with passcode protection
- Interaction user guidancr for quick operation

M. E.	Readability	Capacity	Pan Size	Stabilization	Optimal Starting
Model	(mg)	(g)	(mm)	(s)	Range
Secura26-10IN	0.002	21	Ø 50	8	0.00164
Secura225D-10IN	0.01 0.01 0.1	60 120 220	Ø 80	6 6 2	0.0082
Secura125-10IN	0.01 0.01	60 120	Ø 80	6 6	0.0082
Secura324-10IN	0.1	320	Ø 90	2	0.082
Secura224-10IN	0.1	220	Ø 90	2	0.082
Secura124-10(N	0.1	120	Ø 90	2	0.082
Secura1103-10IN	1	1100	Ø 120	1.5	0.82
Secura613-10IN	1	610	Ø120	1	0.82
Secura513-10IN	1	510	Ø120	1	0.82
Secura313-10IN	1	310	Ø120	1	0.82
Secura213-10IN	1	210	Ø120	1	0.82
Secura6102-10IN	10	6,100	Ø180	1	8.2
Secura5102-10IN	10	5,100	Ø180	1	8.2
Secura3102-10IN	10	3,100	Ø180	1	8.2
Secura2102-10IN	10	2,100	Ø180	1	8.2
Secura1102-10IN	10	1,100	Ø180	1	8.2
Secura612-10IN	10	610	Ø180	1	8.2
Secura6101-10IN	100	6100	Ø180	1	82
Secura3101-10IN	100	3100	Ø180	1	82

According to USP chapter 41, the optimal operating range is defined. May vary as per installation location and environmental conditions



Optional Accessories

- Data printer
- Density Determination Kit
- Anti static weighing pan
- Interface cable
- Power Adapter

www.kamgotech.com

QUINTIX

Features

- Entirely new touch screen user interface with
- built-in application programs
- Chemically resistant housing
- Easy and convenient data transfer to your PC without the need of extra software by integrated
 PC —a direct function
- Highest accuracy and convenience with fully automatic internal temperature and time-controlled adjustment feature (isoCAL)

GLP/GMP - compliant printout



Teatronia	Readability	Capacity	Pan Size	Stabilization	Optimal Starting
Model	(mg)	(g)	(mm)	(s)	Range
Quintix 125D-10IN	0.01 0.01 .01	40 60 120	Ø 80	6 6 2	8.2 mg
Quintix 65-10IN	0.01 0.01	40 60	Ø 80	6 6	8.2 mg
Quintix 35-10IN	0.01	30	Ø 80	6	8.2 mg
Quintix 224-10IN	0.1	220	Ø 90	2	82 mg
Quintix 124-10IN	0.1	120	Ø 90	2	82 mg
Quintix 64-10IN	0.1	60	Ø 90	2	82 mg
Quintix 613-10IN	1	610	Ø 120	1	820 mg
Quintix 513-10IN	1	510	Ø 120	1	820 mg
Quintix 313-10IN	1	310	Ø 120	1	820 mg
Quintix 213-10IN	1	210	Ø 120	1	820 mg
Quintix 6102-10IN	10	6,100	Ø 180	1	8.2 g
Quintix 5102-10IN	10	5,100	Ø 180	- 1	8.2 g
Quintix 3102-10IN	10	3,100	Ø 180	1	8.2 g
Quintix 2102-10IN	10	2,100	Ø 180	1.5	8.2 g
Quintix 1102-10IN	10	1,100	Ø 180	1.5	8.2 g
Quintix 612-10IN	10	610	Ø 180	1.5	8.2 g
Quintix 412-10IN	10	410	Ø 180	1.5	8.2 g
Quintix 6101-10IN	100	6,100	Ø 180	1.5	82 g
Quintix 5101-10IN	100	5,100	Ø 180	1.5	82 g
Quintix 6100-10IN	1000	6,100	Ø 180	1.5	820 g

According to USP chapter 41, the optimal operating range is defined. May vary as per installation location and environmental conditions

Optional Accessories

- Data printer
- Density Determination Kit
- Anti static weighing pan
- Interface cable
- Power Adapter









MOISTURE BALANCES





Features

- Time-saving and convenient alternative to a drying oven
- Comprehensive range of options for flexible adaptation to various drying tasks
- Ideally suited for ambitious measuring tasks in the fields of quality control or research
- Particularly well suited for samples with demanding drying
- behavior and very dry samples
- Adjustable temperature rang
- GLP compliant printout connecting to the Sartorus printer
- Different Analysis modes
 Display mode for Results available in different parameters

Model	Accuracy (mg)	Capacity (g)	Readability	Temperature Range	Heating unit	Calibration	Program memories	Printer
MA100H	0.1	100	0.001%	30 ⁰ -180 ⁰ C	Halogen	Built-in	30	Integratable
MA100C	0.1	100	0.001%	30°-180° C	Ceramic	Built-in	30	Integratable
MA160	1	200	0.01%	40° -200° C	IR Heating	External	100	External
MA37	1	70	0.01%	40°-200° C	IR Heating	External	Standard	External
MA35	1	35	0.01%	40°-160° C	IR Heating	External	Standard	External



Haier Biomedical

Biological Safety Cabinet





- Class 2 microbiological safety cabinets offer 3 levels of protection operator, product, and environment suitable for virus work
- · Available in 3 sizes and single and dual exhaust filter options
- Patented technologies offers total user protection, improve cabinet 1 efficiency, and provides safe airflow disruption reducing contamination

-196°C Nitrogen Container

- For storage of virus samples and other biological products including patient samples
- SMART series includes realtime display oftemperature and liquid level
- Low LN2 consumption and durable construction for reliable storage



-80oC ULT Freezer



- For long term storage of novel coronavirus samples
- Hydrocarbon(HC) refrigeration solution lowers energy consumption and HC variable frequency conversion technology range (BP) provides additional energy savings whereas our dual compressor TwinCool (S) series delivers maximum sample security
- Large range of sizes from 100L to 959L capacities

Biomedical Freezer

- Exceptional temperature uniformity ±4 C provides stable storage conditions for virus samples
- HC refrigeration technology reduces energy consumption by 40%
- Utilising reliable leading European brand compressors





Biomedical Refrigerator



- Accurate temperature control maintains 2-8C throughout the unit to provide a stable storage environment
- Microprocessor controller with clear digital display and multiple alarms
- Full range of sizes available with glass door and solid door options

Combined Fridge Freezer

- High specification combined refrigerator-freezer with 2 to 8 C and
 -20 to -40 C independently controlled storage compartments
- Microprocessor controller with clear digital display and multiple alarms



Spark Free Refrigerator



- Easy one-step 180°C Dry-heat sterilisation of interior including all internal components including CO2 sensor
- Precise temperature control within the fluctuation range of ±0.1 C, with six-sided heating based on fuzzy PID control principles ensures the normal growth of cells throughout their life cycle
- Large arc angled corners manufactured from electropolished 304 stainless steel with seamless welding and bracketless shelving provides easy to clean interior without tools

Co₂ Incubator

- ATEX rated 360° explosion-proof interior
- Adjustable temperature and precise control and temperature uniformity
- Energy-efficient units utilising HC refrigeration solutions



Blood Bank Refrigerator





- Adopting high-end inverter compressor and variable speed fan to lower energy consumption.
- Double lock structure, NFC card opening door permission, recording the access information of the users.
- · Intelligent IoT PC and mobile monitoring.

Wireless Monitoring Solution

- One system with multiple applications including critical asset and conditions monitoring - temperature, gas (02, CO2), pressure, status
- Simple, smart, and easy to install without the need for IT
- The fully-featured Realtime-Online software and documentation system ensures compliance with IQ/OQ/PQ available for GCLP, GMP, and other areas, MKT reports for pharmaceutical storage requirements. Automated alerts (SMS, email, or call) with escalation ensure problems are dealt with effectively and promptly. Reports can be created and emailed to users on a weekly, monthly, or yearly basis



Haier Biomedical

Haier Biomedical was founded to focus on the design, manufacturing, marketing, and sales of low-temperature Storage equipment for biomedical samples. Operating on a global scale, Haier Biomedical provides the world's only complete storage solutions for a range of applications, including biological sample storage, blood management, vaccines, medical products and reagent storage across multiple sectors like pharma, academia, biotech and within medical/clinical areas.

Haier Biomedical's solutions can be found in many prestigious and leading organizations in the UK, Europe, America, Africa, the Middle East, and across the Asia Pacific. Furthermore, significant investment into the development and solution for solar-powered refrigeration units for areas that lack a constant electric power supply has significantly changed the landscape in solving the cold chain for remote communities.

Haier Biomedical's complete cold chain equipment and services are currently used in more than 70 countries.





HPLC COLUMN WASHING PUMP



SPECIFICATIONS

Flow Rate	Ų.	0.1 to 10.000 mL/min for 10 mL/min head
Pressure	12	0 to 6,000 psi
Flow Accuracy	12	±5% for a flow rate of 0.1 to 10.000 mL/min, with 100% Water © 1000 ps
Dimensions		5.5" high x 10.375" wide x 17.5" deep
Weight	4	24 lb
Power	1	100-120 VAC, 50-60 Hz; or 220-240 VAC, 50-60 Hz
Features	1.0	4 Line LCD Display, Splash Proof Key Pad, Prime Purge Valve,
		Auto Stop Timer, Service Mode
Optional		Pulse Damper
Nos of Column		Upto 4 Column can be washed simultaneously
Remote Inputs	:	R5-232



FEATURES

interchangeable Pump head	Provide 10m1 and 50m1 pump head according to the using environment
Washing Piston rod	when the buffer solution is used, the pump head is frequently abraded. Using washing piston rod function can elongate the piston rod using life and keep free with inorganic salt influence.
Automatic pressure calibration	The pump working pressure can be automatic calibrated only by press a key before using.
Interactive interface	Using 320x240 LCD display, it is very easy for user to edit programs and more information will be appeared in the screen. It reports performance and maintenance check
Product's information	By checking the product's information, you can find the serial Number, the CMC permission number, the installation date, the total running time and etc. It helps the user decide when the instrument should be maintenance.

SPECIFICATION

Power consumption	ower consumption		
Dimensions (Width x height x depth)		270x150x400mm	
Weight		15kg	
Flow Resolution	Analysis pump head	0.001ml/min	
	Semi-preparative pump head	0.001ml/min	
	Analysis pump head	0.001 ~ 10ml/min	
Flow Range	Semi-preparative pump head	0.001 ~ 50ml/min	
Flow Repeatability	Analysis pump head	0.2%	
. ion inspectability	Semi-preparative pump head	0.5%	
Flow set error percentage		0.1%	
Maximum working pressure	Analysis pump head	42MPa	
	Semi-preparative pump head	30MPa	





ULTIMA series **freestanding** labware washing systems

Professional cleaning Performance

Washer Function and Flexibility



4 Factory Preset Programs light, moderate, normal, heavy and dozens more as desired

Integrated systems, repeatable results.

From quality control to general laboratory research,
Lancer ULTIMA series washers meet space and budget
requirements in laboratories performing a range of
critical applications where clean labware is essential.
Typical applications include analytical chemistry,
quality control, pharmaceutical and environmental
science laboratories, wastewater treatment, food
and beverage analysis, public health and consumer
product testing facilities

The exclusive Prolux programmable microprocessor control-ler commands a full range of prewash, wash, rinse and drying functions through simple touchscreen menus on all ULTIMA series washers. The convenience of four preset programs for light to heavy loads simplifies operation, while more complex programs can be customized whenever needed to meet specific appl







Prolux programmable microprocessor controller with intuitive touchscreen user interface. Control screen shows actual cycle performance, alarm events. Data is captured for documentation and communication.

Preset or user programmed cycles are fully adjustable to permit multiple combinations of prewash, wash, rinse, acid rinse, purified final rinse, HEPA filtered forced air drying, controlled duration, temperature and more.

High efficiency powerful fluid circulation with direct fluid path and rear manifold connections deliver optimal pressure and flow rates.

Injector jet performance provides inside out wash and rinse functions.

Stainless steel top and bottom spray arms and multiple levels of injection washing ensure thorough spray coverage.

Two integrated automatic chemical dosing pumps are standard on all models. Convenient on-board chemical storage beneath chamber saves space.



View-In-Process Window
An optional View-In-Process (VIP) window
includes an interior LED light for visual verification
of the interior load during the cycle.

Lancer model 1400 LXP freestanding labware washer, shown with accessory loading rack, sold separately.





Uncommon selection, common controls.

The Lancer ULTIMA series freestanding washers include five high-performance models that offer a range of labware loading options using baskets, injector racks or combination racks for the best high capacity processing of multiple labware types in the industry.



Quiet Operation. Noise reduction design minimizes sound for quiet operation.



Cool Surface.
High-performance insulation contains heat and limits energy consumption





910 LX / 1300 LX Features

Prolux Control Interface 316L Stainless Steel, Fold-down Door Forced-air Drying, Injectors, HEPA Filtered



1400 LXP / 1600 LXP Features

Protux Plus Control Interface 316L Stainless Steel, Fold-down Door Forced-air Drying, Injectors, HEPA Filtered



1800 LXA Features

Protux Plus Control Interface High Impact Glass, Vertical Stiding Doors Forced-air Drying, Injectors, HEPA Filtered

Capacity Comparison

Model	Volume	Interior (W x H x D)	Positions.	Wash Levels	Configurations
910 LX	5.7 cu. ft. (160 L)	21.1" x 21.4" x 20.5" (535 x 544 x 520 mm)	3	2	3
1300 LX	6.4 cu. ft. (180 L)	21" x 26.4" x 20.5" (535 x 644 x 520 mm)	4	3	5
1400 LXP	10.7 cu, ff. (304 L)	24.6" x 30.4" x 24.8" (626 x 773 x 629 mm)	4	3	6
1600 LXP w/aptional height extension	14.4 cu. ft. (408 L) 18.6 cu. ft. (528 L)	27.7" x 33.8" x 26.7" (703 x 858 x 678 mm) 27.7" x 43.6" x 26.7" (703 x 7106 x 678 mm)	5	4	12
1800 LXA	16.2 cu. ft. (4581.)	43.3" x 31.2" x 20.7" (1100 x 793 x 526 mm)	4×2	3 x 2	20*

^{*} Three racks each side; six configurations each side.

Models are shown (left to right) 910 LX, 1300 LX, 1400 LXP, 1800 LXP with optional VIP window; 1800 LXA, glass door standard.



Application

- · thermal resistance analysis of building materials
- electronic and electro-technical components
- tests of properties of products subjected to high temperatures
- · drying of wires of papermaking machines
- drying of laboratory glass
- general aging and curing
- preheating
- digestion of proteins
- · plant tissues drying drug metabolism
- paper drying

Drying ovens are designed to provide high temperatures of up to 300°C.

+5°C above ambient temperature...+300°C



Calibration

All thermostatic equipment manufactured by POL-EKO-APARATURA can be provided with a Calibration Certificate issued by an accredited Measurement Laboratory. Detailed information on accreditation of POL-EKO Laboratorium Pomiarowe is available on website: www.polekolab.pl.



SL

Drying Ovens

	Model	SL 15	SL 32	SL 53	SL 115	SL 240	SL 400	SL 750	SL 1000			
Parameter		m	-					+	+			
air convection			nature	II (SLN) / forces	1 (SUW)		-11	forced (SLW)	-			
chamber capacity ⁵ [I]		15	32	50	112	245	424	749	1005			
door type		50	lid		solid	/ door with vie	wing window to	ption)				
temperature range				+5*0	above ambient	temperature	+300°C					
controller				microproc	essor with exte	mal LCD graph	ic display					
interior				ecid	-proof stainless	steel to DIN 1.	4301					
housing	14				powder or	ated sheet						
housing	INOK/G	stainless steel steel linen finish										
CONTRACTOR AND	width	515	595	595	655	815	1015	1260	1260			
overall dims ² [mm]	height	550	630	700	845	1130	1375	1590	2000			
	depth	440	495	600	700	780	760	865	865			
SANTELE CONTRACT	width.	320	400	395	460	600	800	1040	1040			
nternal dims [mm]	height	240	320	395	540	800	1040	1200	1610			
	depth	180	240	360	450	510	510	600	600			
max shelf workload [kg]	-	10	10	10	10	10	10	(4)	4			
	PW'version	- 1	- 6	80	50	100	100	100	100			
max unit workload (kg)	12	20	30	40	60	90	120	140				
7.0	W ^e version		- 2	80	120	300	300	300	300			
nominal power [W]		600	1100	1600	2400	3000	3900	5400	5400			
weight (kg)		27	35	50	65	126	174	260	330			
emperature resolution [*6	cj				EVER	y 0.1						
temperature fluctuation	SLN	±0.2	±0,2	±0,2	±0,2	±0,2		- V				
w +105°C [°C]	SLW	1,0±	±0.1	±0,1	±0.1	±0,2	±0.2	60,3	±0,4			
temperature variation*	SLN	12.5	±2.5	±1,2	±2.0	±2,5			10			
# +105°C[°C]	SLW	±2,0	±2,0	±1,2	±1,4	±2,0	±2.0	±2,3	±3.0			
over temperature protection	00			class 2.0 to 1	DIN 12880 / 64	sss 3.1 (option)	/3.1 in TOP+					
voltage*				230V 50Hz*				400 3/N*				
shelves		1	1	2	2	3	3	5	6			
warranty					24 m	onthe.						
manufacturer					POLEKO-A	PARATURA						

The above parameters apply to standard units (without optional equipment)

- * 230V 60Hz, 115V 60Hz also available
- * 3P 400V 60Hz, 3P 230V 60Hz also available
- 1- working capacity of chamber can be smaller
- 3 reinforced shelf
- 5 fluctuation measured in centre of the chamber
- 2 depth doesn't include 50 mm of power cable
- 4 reinforced version
- 6 in space

Options and Accesories























































= STD

= T0₽+

High Temperature Electric Furnaces



Muffle furnaces with fiber-insulated Chambers

High-accuracy laboratory electric furnaces with fiber-insulated chambers, that are designed for hardening, loosening, normalizing, and other thermal processing up to a temperature of 1100 °C or 1300 °C. The furnaces include ceramic hearth plates. To eliminate gasses or smoke that are released during thermal processing, a ventilation hole and an exhaust system may be additionally installed in the products. The furnaces are an excellent fit for scientific laboratories, educational institutions, medicine, and industry.







Basic model

- One-piece chamber made of fiber thermal insulation plates
- Heating elements are embedded in vacuum formed fiber (on models up to 1100 °C)
- Heating elements exposed on ceramic tubes (on models up to 1300 °C)
- · Microprocessor-controlled thermoregulator
- · Ceramic hearth plates
- High-quality, ecological thermal insulation material
- · Low electric power consumption
- · Short heating up/cooling down period
- High degree of accuracy
- Exterior painted with powder coating (RAL 7035)
- 1-year guarantee

Option:

- Process observation window (0 35 mm) up to 1100 °C
- · Fan-assisted chimney for air extraction
- · Additional ceramic hearth plates
- Buzzer
- · Digital timer
- · Protection against overheating
- Data recorder
- RS232/RS-485/USB interface
- · Calibration of temperature measurement system
- · Table for supporting the furnace
- · Protective gas atmosphere
- · Gas box up to 1100 °C
- · Metal tray
- Additional 1-year guarantee

stock) with	14	See .	Chamb	- 41-44	es mm	Dien	diamento.		PERMIT	Voltage, V	Morges ky		Совторнен	
	T.	100	Minde	Langet	melyle	With	Larght	Height	- W	Marie Co.		appoints	adamen	downward
Up to 1100°C														
SNOL 3/1 100 LHM01	1	1100	125	200	115	340	470	430	1,7	210	10		0	0
SNOL 4,2/1100 LHM01	8.2	1100	200	300	133	440	620	510	1,8	230	28		0	0
SNOL 8.2/1100 LSM01	8.2	1100	200	300	133	440	560	510	1.8	230	28	0	•	0
SNOL 8,2/1100 LZM01	8,2	1100	200	300	155	440	560	510	1,8	230	28	0	0	
SNOL 13/1100 LHM01	ti	1100	225	350	180	500	700	220	T.JI	230	38	•	0	0
SNOL 22/1100 LHM01	22	1100	275	500	155	600	890	610	3	230	58		0	0
SNOL 39/1100 LHM01	39	1100	315	515	225	649	899	739	6	300	24	•	0	0
Up to 1300°C														
SNOL 6,7/1300 LSM01	6,7	1300	160	295	133	440	550	540	2,4	230	.55	0		0



High Temperature Electric Furnaces



Chamber furnaces with fiber-insulated Chambers

Highly accurate laboratory electric furnaces with chambers made of thermal insulation fiber plates. The products are designed for hardening, loosening, normalizing, and other thermal processing up to a temperature of 1600 °C. To eliminate gasses or smoke that are released during thermal processing, a ventilation hole and an exhaust system may be supplementally installed in the products. The furnaces are an excellent fit for scientific laboratories, educational institutions, medicine, and industry.

Basic model

- · Chamber made of fiber thermal insulation plates
- Vacuumized heating elements (up to 1100 °C)
- · Heating elements in grooves (up to 1200 °C)
- · Heating elements on tubes (up to 1300 °C)
- . Exposed heat strips (up to 1600 °C)
- · Microprocessor-controlled thermoregulator
- · Ceramic hearth plates
- · High-quality, ecological thermal insulation material
- · Low electric power comsumption
- · Short heating up period
- · High degree of accuracy
- · Exterior painted with powder coating (RAL 7035)
- 1-year guarantee

Options

- Process observation window (0.35 mm) up to 1100 °C
- Fan-assisted chimney for forced air extraction
- · Additional ceramic bottom plates
- Buzzer
- · Digital timer
- · Protection against overheating
- Data recorder
- RS232/RS-485/USB interface
- Calibration of temperature measurement system
- · Table for supporting the furnace
- · Protective gas atmosphere
- + Gas box up to 1100 °C
- Metal tray



Model N	Wat:	Treat,	Tenan;	Danis	e dimento	for the	Overs	d directors	0.000	Preside	Wellings; V	Weight, log	Descripering		
	100		William	impli	Height	Wedte	Length	Height	***	Name and	C000-0010-70	upwords	delauje	STRUTTORS OF	
Up to 1100°C															
SNOL 30/1100 LSF01	30	1100	300	450	300	640	800	830	3,4	230	100	o	٠	0	
SNOL 80/1100 LSF01	80	1100	300	450	600	740	880	1250	5,4	400	135	0	•	0	
Up to 1200°C															
SNOL 40/1200 LSF01	40	1200	290	420	290	640	800	830	1,4	230	100	0	٠	0	
Up to 1300°C															
SNOL 30/1300 LSF01	30	1300	200	450	290	640	870	810	4,6	230	120	0	٠	0	
Up to 1600°C															
SNOL 8/1600 LSF01	*	1600	150	300	150	620	620	1400	В	400	170	0	٠	0	



High Temperature Electric Furnaces



Furnaces with ceramic chambers

Highly accurate laboratory electric furnaces with solid ceramic chambers. The products are designed for hardening, loosening, normalizing, and other thermal processing to a temperature of 1300 °C. The furnaces include ceramic bottom plates. To eliminate gasses or smoke that are released during thermal processing, a ventilation hole and an exhaust system may be supplementally installed in the products. The furnaces are an excellent fit for scientific laboratories, educational institutions, medicine, and industry



Basic model

- · Solid ceramic chamber
- Partially exposed heating elements (in 1100 °C max, and 1300 °C max, models)
- Enclosed heating elements (in 900 °C max and 1200 °C max, models)
- · Microprocessor-controlled thermoregulator
- · Ceramic hearth plates
- High-quality, ecological thermal insulation material
- · Low electric power consumption
- · High temperature inertness
- · High degree of accuracy
- Exterior painted with powder coating (RAL 7035)
- 1-year guarantee

Options

- Process observation window (ø 35 mm) up to 1100 °C
- Fan-assisted chimney for forced air extraction
- · Additional ceramic hearth plates
- Buzzer
- · Digital timer
- · Protection against overheating
- · Data recorder
- RS232/RS-485/USB interface
- Calibration of temperature measurement system
- · Table for supporting the furnace
- Additional 1-year guarantee

Model V	2000	September 1	Quant	Combin directions, run		Overa	denous	3.70		00000000	STATE OF THE PARTY.		Sour opens	y ·
	Vol.	Timus.	Width	Length	Height	Wille	Limght	Thight	TW	Witness, V	todate.ku	upreinte	Mennys	downward
Up to 900°C														
SNOL 4/900 LSC01	4	900	120	295	100	440	560	500	3.7	230	55	0		0
SNOL 7,2/900 LSC01	7.2	900	200	300	130	440	575	540	3.3	230	50	0		0
SNOL 12/900 LSC01	12	900	210	300	180	560	700	740	45	230	120			0
SNOL 15/900 LSC01	15	900	210	410	160	560	800	740	6	400	130	0		0
Up to 1100°C														
SNOL 4/1100 LSC01	4	1100	120	295	100	440	560	500	3.7	230	55	0		0
SNOL 7,2/1100 LSC01	7,2	1100	200	100	130	440	575	540	1.1	230	50	0		0
SNOL 12/1100 LSC01	12	1100	210	300	180	560	700	740	4.5	230	120	0	•	0
SNOL 15/1100 LSC01	15	1100	210	410	160	560	800	740	- 6	400	130	0	•	0
Up to 1200°C														
SNOL 4/1200 LSC01	4	1200	120	295	100	440	550	500	3.7	230	55	0	•	0
SNOL 7,2/1200 LSC01	7,2	1200	200	300	130	580	750	690	3.5	230	104	0		0
SNOL 12/1200 LSC01	12	1200	210	100	180	560	700	740	4.5	250	120	0		0
SNOL 15/1200 LSC 01	15	1200	210	410	160	560	800	740	6	400	130	0		0
Up to 1300°C														
SNOL 4/1300 LSC01	4	1300	120	295	100	440	560	500	1,7	230	55	0	•	0
SNOL 7,2/1300 L5C01	7,2	1300	200	300	130	580	750	690	3.5	230	104	0		0
SNOL 12/1300 LSC01	12	1300	210	100	180	560	700	740	4.5	230	120	0		0
SNOL 15/1300 LSC01	15	1300	210	410	169	560	800	740		400	130	0		0







MULTI-HS Series

Digital multiposition heating magnetic stirrers

Safe, compact and easy to use multiposition hotplate stirrers



Multiposition Hotplate stirrers



- Synchronous stirring and heating of 6 and 15 positions
- Homogeneous temperature up to 120°C for all positions
- CerAlTopTm plate ensures easy cleaning and maximum resistance
- VELP brushless motor ensures longevity and guarantees constant speed in all positions
- SpeedServo[™] technology maintains speed constant when viscosity changes
- Easy to operate digital interface with icons
- The integral timer allows programming of unsupervised operation
- Programmable auto-reverse of the stirring direction
- Suitable for continuous work
- Safe hot plate warnings when the plate temperature is above 50°C
- The Lock feature prevents unintentional changes





INSTRUMENT - CODE

MULTI-HS 6	230 V / 50-60 Hz	F20500530	MULTI-HS 15	230 V / 50-60 Hz	F20500531
MULTI-HS 6	115V / 60 Hz	F20510530	MULTI-HS 15	115V / 60 Hz	F20510531

TECHNICAL DATA

	MULTI-HS 6	MULTI-HS 15
USER INTERFACE	Digital	Digital
MOTOR	6 Brushless motors	15 Brushless motors
PLATE MATERIAL	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)
PLATE DIMENSION	432 x 223 mm	432 x 223 mm
VOLUME (H2O)	6 beakers of 400 mil	15 beaker of 250 ml
STIFFRING POSITION DISTANCE	100 mm	74 mm
STIRRING SPEED	100 - 1000 rpm	100 - 1000 rpm
SPEED SETTING ACCURACY	5 rpm	5 rpm
TEMPERATURE RANGE	0+120 °C	0 - 120 10
TEMPERATURE SETTING RESOLUTION	1.0	1.0
HOT TOP WARNING	On display (> 50°C)	On display (> 50°C)
TIMER	From 1 min to 99 h ; 59 min	From 1 min to 99 h : 59 min
TIMER SETTING STEPS	1 min	1 min
AUTOREVERSE	From 5 s to 99 min : 59 s	From 5 s to 99 min : 59 s
AUTOREVERSE SETTING STEPS	14	1.0
DIMENSIONS (WXHXX)	240x66x560 mm (9.4x2,6x21,7 m)	240x56x550 mm (9,4x2,6x21.7 m)
WEIGHT	4.7 Kg (10.4 b)	4.8 Kg (10.5 b)
POWER INPUT	820W - 2,7A	620W - 5,4A
WORKING IN CONTINUOUS	Admitted	Admitted
HEATING OUTPUT	600 W	600 W

COLUMN STORAGE CABINET



To meet requirements of storage of HPLC columns, we design, manufacture and supply column storage cabinets from small to larg capacities with storage range from 30 to 500 columns. Also, any customization on storage and sizes can be provided.

All models are constructed with stainless steel interior and exterior with high quality finishing.





TECHNICAL SPECIFICATION

Model	KTPL-CRS-30	KTPL-CRS-50	KTPL-CRS-100	KTPL-CRS-150	KTPL-CRS-200	KTPL-CRS-300	KTPL-CRS-500
Column Storage Capacity	30 Nos	50 Nos	100 Nos	150 Nos	200 Nos	300 Nos	500 Nos
No. of Drawers	5 x 6 Columns	5 x 10 Columns	10 x 10 Columns	15 x 10 Columns	10 x 20 Columns	15 x 20 Columns	25 x 20 Columns
Construction	Exterior: Sta		owder Coated N	lildSteel - Optio	nal)		





KAMGO TECHNOLOGIES INDIA PVT. LTD.