

About Us:

Welcome to Breakwood Enterprises. Since 2003, we have worked tirelessly to earn the trust of our customers by providing high quality products for liquid chromatography and solid phase extraction. *Integrity, Quality, Service and Value* separate Breakwood from its peers. Our products are proudly made in the USA and we are committed to being *the best value* in the market. We look forward to supporting your growth and exceeding your expectations. Let us know how we can help.

Our History:

- Late 1960's – Isolab began in Elkhart IN by Murray Volk and Joe Penksa
- Early 1970's – Isolab relocates to Norton OH
- 1978 – Isolab develops, produces and distributes the first commercial HbA1c test for type 1&2 diabetes
- 1998 – EG&G Wallac acquires Akron OH, based Isolab Inc. as part of their Life Sciences, Research and Diagnostics Division.
- 1999 – EG&G acquires the Analytical Instruments Division of PerkinElmer and assumes the PerkinElmer name.
- 2003 – Breakwood is spun-off from Perkin Elmer Life Sciences.
- 2018 – AMDGroup LLC acquires Breakwood.
- 2020 – Breakwood expands its product range of columns, sorbents and components.
- 2021 - Breakwood expands its service offering to include...
 - Chromatography consulting, methods and assay development, evaluation and validation
 - Product design, development and production
 - Filling, kitting and packaging

Thank you for choosing Breakwood Enterprises. We look forward to supporting you. Please contact us @...

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SPE - Standard Format Columns



Notes:

Flangeless and Rimless versions upon request.

Custom bed weights are available upon request.

20µ hydrophobic polyethylene frits come standard.

70µ and 100µ hydrophobic PE and 5µ PTFE frits available upon request.

Part Numbering - "format - internal volume - sorbent - bed weight"

Available Formats

SC = standard column

FC = flangeless column

RC = rimless column

LRC = large reservoir column

MC = micro cartridge

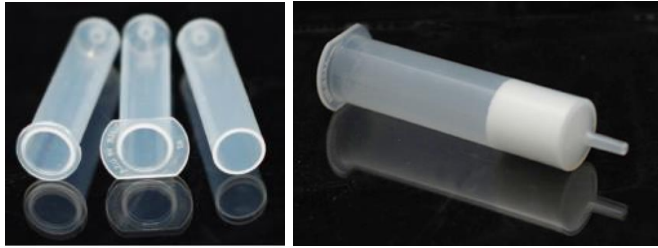
WP = 96 well plate

Flangeless - Standard - Rimless

Sorbent			Internal Volume & Bed Weight					
			1mL	3mL	3mL	6mL	6mL	6mL
phase	code	description	100mg	200mg	500mg	500mg	1gram	2gram
Silica based sorbents - 40micron, 60 angstrom								
Reverse	C18/14	Octadecyl - 14% carbon	SC-1-C18/14-100	SC-3-C18/14-200	SC-3-C18/14-500	SC-6-C18/14-500	SC-6-C18/14-1	SC-6-C18/14-2
	C18/18	Octadecyl - 18% carbon	SC-1-C18/18-100	SC-3-C18/18-200	SC-3-C18/18-500	SC-6-C18/18-500	SC-6-C18/18-1	SC-6-C18/18-2
	C18/22	Octadecyl - 22% carbon	SC-1-C18/22-100	SC-3-C18/22-200	SC-3-C18/22-500	SC-6-C18/22-500	SC-6-C18/22-1	SC-6-C18/22-2
	C18/OH	Octadecyl/OH (not end-capped)	SC-1-C18/OH-100	SC-3-C18/OH-200	SC-3-C18/OH-500	SC-6-C18/OH-500	SC-6-C18/OH-1	SC-6-C18/OH-2
	C8	Ocytl	SC-1-C8-100	SC-3-C8-200	SC-3-C8-500	SC-6-C8-500	SC-6-C8-1	SC-6-C8-2
	PH	Phenyl	SC-1-PH-100	SC-3-PH-200	SC-3-PH-500	SC-6-PH-500	SC-6-PH-1	SC-6-PH-2
	CH	Cyclohexyl	SC-1-CH-100	SC-3-CH-200	SC-3-CH-500	SC-6-CH-500	SC-6-CH-1	SC-6-CH-2
	C4	Butyl	SC-1-C4-100	SC-3-C4-200	SC-3-C4-500	SC-6-C4-500	SC-6-C4-1	SC-6-C4-2
	C2	Ethyl	SC-1-C2-100	SC-3-C2-200	SC-3-C2-500	SC-6-C2-500	SC-6-C2-1	SC-6-C2-2
C1	Methyl	SC-1-C1-100	SC-3-C1-200	SC-3-C1-500	SC-6-C1-500	SC-6-C1-1	SC-6-C1-2	
Normal	CNe	Cyanopropyl	SC-1-CNe-100	SC-3-CNe-200	SC-3-CNe-500	SC-6-CNe-500	SC-6-CNe-1	SC-6-CNe-2
	CN	Cyanopropyl (not end-capped)	SC-1-CN-100	SC-3-CN-200	SC-3-CN-500	SC-6-CN-500	SC-6-CN-1	SC-6-CN-2
	DIO	Diol	SC-1-DIO-100	SC-3-DIO-200	SC-3-DIO-500	SC-6-DIO-500	SC-6-DIO-1	SC-6-DIO-2
	SI	Silica Gel	SC-1-SI-100	SC-3-SI-200	SC-3-SI-500	SC-6-SI-500	SC-6-SI-1	SC-6-SI-2
Ion Exchange	COOH	Carboxylic Acid	SC-1-COOH-100	SC-3-COOH-200	SC-3-COOH-500	SC-6-COOH-500	SC-6-COOH-1	SC-6-COOH-2
	SCX	Benzenesulfonic Acid	SC-1-SCX-100	SC-3-SCX-200	SC-3-SCX-500	SC-6-SCX-500	SC-6-SCX-1	SC-6-SCX-2
	NH2	Aminopropyl	SC-1-NH2-100	SC-3-NH2-200	SC-3-NH2-500	SC-6-NH2-500	SC-6-NH2-1	SC-6-NH2-2
	PSA	Pri/sec Amine	SC-1-PSA-100	SC-3-PSA-200	SC-3-PSA-500	SC-6-PSA-500	SC-6-PSA-1	SC-6-PSA-2
	DEA	Diethylamino	SC-1-DEA-100	SC-3-DEA-200	SC-3-DEA-500	SC-6-DEA-500	SC-6-DEA-1	SC-6-DEA-2
	N+	Quaternary Amino	SC-1-N+-100	SC-3-N+-200	SC-3-N+-500	SC-6-N+-500	SC-6-N+-1	SC-6-N+-2
Non-silica based adsorbents								
FLO	Florasil	SC-1-FLO-100	SC-3-FLO-200	SC-3-FLO-500	SC-6-FLO-500	SC-6-FLO-1	SC-6-FLO-2	
ALN	Alumina (neutral)	SC-1-ALN-100	SC-3-ALN-200	SC-3-ALN-500	SC-6-ALN-500	SC-6-ALN-1	SC-6-ALN-2	
ALA	Alumina (acidic)	SC-1-ALA-100	SC-3-ALA-200	SC-3-ALA-500	SC-6-ALA-500	SC-6-ALA-1	SC-6-ALA-2	
ALB	Alumina (basic)	SC-1-ALB-100	SC-3-ALB-200	SC-3-ALB-500	SC-6-ALB-500	SC-6-ALB-1	SC-6-ALB-2	
ABN	mixed mode - reverse / ion	SC-1-ABN-100	SC-3-ABN-200	SC-3-ABN-500	SC-6-ABN-500	SC-6-ABN-1	SC-6-ABN-2	
HLB	hydrophilic-lipophilic balanced	SC-1-HLB-100	SC-3-HLB-200	SC-3-HLB-500	SC-6-HLB-500	SC-6-HLB-1	SC-6-HLB-2	
CMP	chemically modified polymer	SC-1-CMP-100	SC-3-CMP-200		SC-6-CMP-500			
CMPf	chemically modified polymer - fast	SC-1-CMPf-100	SC-3-CMPf-200		SC-6-CMPf-500			
NaSO4	sodium sulfate	SC-1-NaSO4-100	SC-3-NaSO4-200	SC-3-NaSO4-500	SC-6-NaSO4-500	SC-6-NaSO4-1	SC-6-NaSO4-2	
Poly	Polymide	SC-1-Poly-100	SC-3-Poly-200	SC-3-Poly-500	SC-6-Poly-500	SC-6-Poly-1	SC-6-Poly-2	
PBA	Phenylboronic Acid	SC-1-PBA-100	SC-3-PBA-100	SC-3-PBA-500	SC-6-PBA-500	SC-6-PBA-1	SC-6-PBA-2	
DE	diatomaceous earth			SC-3-DE-500		SC-6-DE-1		

Columns / Package	100	50	50	30	30	30
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SPE - Standard Format Columns - Large



Flangeless - Standard - Rimless

Notes:

Flangeless and Rimless versions upon request.
 Custom bed weights are available upon request.
 20µ hydrophobic polyethylene frits come standard.
 70µ and 100µ hydrophobic PE and 5µ PTFE frits available upon request.
 Part Numbering - "format - internal volume - sorbent - bed weight"

Available Formats

SC = standard column
 FC = flangeless column
 RC = rimless column
 LRC = large reservoir column
 MC = micro cartridge
 WP = 96 well plate

			Internal Volume & Bed Weight					
Sorbent			12mL	12mL	12mL	20mL	20mL	20mL
phase	code	description	1gram	2gram	3gram	2gram	3gram	5gram
Silica based sorbents - 40micron, 60 angstrom								
Reverse	C18/14	Octadecyl - 14% carbon	SC-12-C18/14-1	SC-12-C18/14-2	SC-12-C18/14-3	SC-20-C18/14-2	SC-20-C18/14-3	SC-20-C18/14-5
	C18/18	Octadecyl - 18% carbon	SC-12-C18/18-1	SC-12-C18/18-2	SC-12-C18/18-3	SC-20-C18/18-2	SC-20-C18/18-3	SC-20-C18/18-5
	C18/22	Octadecyl - 22% carbon	SC-12-C18/22-1	SC-12-C18/22-2	SC-12-C18/22-3	SC-20-C18/22-2	SC-20-C18/22-3	SC-20-C18/22-5
	C18/OH	Octadecyl/OH (not end-capped)	SC-12-C18/OH-1	SC-12-C18/OH-2	SC-12-C18/OH-3	SC-20-C18/OH-2	SC-20-C18/OH-3	SC-20-C18/OH-5
	C8	Ocyl	SC-12-C8-1	SC-12-C8-2	SC-12-C8-3	SC-20-C8-2	SC-20-C8-3	SC-20-C8-5
	PH	Phenyl	SC-12-PH-1	SC-12-PH-2	SC-12-PH-3	SC-20-PH-2	SC-20-PH-3	SC-20-PH-5
	CH	Cyclohexyl	SC-12-CH-1	SC-12-CH-2	SC-12-CH-3	SC-20-CH-2	SC-20-CH-3	SC-20-CH-5
	C4	Butyl	SC-12-C4-1	SC-12-C4-2	SC-12-C4-3	SC-20-C4-2	SC-20-C4-3	SC-20-C4-5
	C2	Ethyl	SC-12-C2-1	SC-12-C2-2	SC-12-C2-3	SC-20-C2-2	SC-20-C2-3	SC-20-C2-5
	C1	Methyl	SC-12-C2-1	SC-12-C2-2	SC-12-C2-3	SC-20-C2-2	SC-20-C2-3	SC-20-C2-5
Normal	CNe	Cyanopropyl	SC-12-CNe-1	SC-12-CNe-2	SC-12-CNe-3	SC-20-CNe-2	SC-20-CNe-3	SC-20-CNe-5
	CN	Cyanopropyl (not end-capped)	SC-12-CN-1	SC-12-CN-2	SC-12-CN-3	SC-20-CN-2	SC-20-CN-3	SC-20-CN-5
	DIO	Diol	SC-12-DIO-1	SC-12-DIO-2	SC-12-DIO-3	SC-20-DIO-2	SC-20-DIO-3	SC-20-DIO-5
	SI	Silica Gel	SC-12-SI-1	SC-12-SI-2	SC-12-SI-3	SC-20-SI-2	SC-20-SI-3	SC-20-SI-5
Ion Exchange	COOH	Carboxylic Acid	SC-12-COOH-1	SC-12-COOH-2	SC-12-COOH-3	SC-20-COOH-2	SC-20-COOH-3	SC-20-COOH-5
	SCX	Benzenesulfonic Acid	SC-12-SCX-1	SC-12-SCX-2	SC-12-SCX-3	SC-20-SCX-2	SC-20-SCX-3	SC-20-SCX-5
	NH2	Aminopropyl	SC-12-NH2-1	SC-12-NH2-2	SC-12-NH2-3	SC-20-NH2-2	SC-20-NH2-3	SC-20-NH2-5
	PSA	Pri/sec Amine	SC-12-PSA-1	SC-12-PSA-2	SC-12-PSA-3	SC-20-PSA-2	SC-20-PSA-3	SC-20-PSA-5
	DEA	Diethylamino	SC-12-DEA-1	SC-12-DEA-2	SC-12-DEA-3	SC-20-DEA-2	SC-20-DEA-3	SC-20-DEA-5
	N+	Quaternary Amino	SC-12-N+-1	SC-12-N+-2	SC-12-N+-3	SC-20-N+-2	SC-20-N+-3	SC-20-N+-5
Non-Silica based sorbents								
FLO	Florisil	SC-12-FLO-1	SC-12-FLO-2	SC-12-FLO-3	SC-20-FLO-2	SC-20-FLO-3	SC-20-FLO-5	
ALN	Alumina (neutral)	SC-12-ALN-1	SC-12-ALN-2	SC-12-ALN-3	SC-20-ALN-2	SC-20-ALN-3	SC-20-ALN-5	
ALA	Alumina (acidic)	SC-12-ALA-1	SC-12-ALA-2	SC-12-ALA-3	SC-20-ALA-2	SC-20-ALA-3	SC-20-ALA-5	
ALB	Alumina (basic)	SC-12-ALB-1	SC-12-ALB-2	SC-12-ALB-3	SC-20-ALB-2	SC-20-ALB-3	SC-20-ALB-5	
ABN	mixed mode - reverse / ion	SC-12-ABN-1	SC-12-ABN-2	SC-12-ABN-3	SC-20-ABN-2	SC-20-ABN-3	SC-20-ABN-5	
HLB	hydrophilic-lipophilic balanced	SC-12-HLB-1			SC-20-ABN-2			
CMP	chemically modified polymer							
CMPf	chemically modified polymer - fast							
NaSO4	sodium sulfate	SC-12-NaSO4-1	SC-12-NaSO4-2	SC-12-NaSO4-3	SC-20-NaSO4-2	SC-20-NaSO4-3	SC-20-NaSO4-5	
Poly	Polymide	SC-12-Poly-1	SC-12-Poly-2	SC-12-Poly-3	SC-20-Poly-2	SC-20-Poly-3	SC-20-Poly-5	
PBA	Phenylboronic Acid	SC-12-PBA-1	SC-12-PBA-2	SC-12-PBA-3	SC-20-PBA-2	SC-20-PBA-3	SC-20-PBA-5	
DE	diatomaceous earth	SC-12-DE-1				SC-20-DE-3		
Columns / Package			20	20	20	20	20	20

SPE - Standard Format Columns - Extra Large



Flangeless - Standard - Rimless

Notes:

Flangeless and Rimless versions upon request.
 Custom bed weights are available upon request.
 20µ hydrophobic polyethylene frits come standard.
 70µ and 100µ hydrophobic PE and 5µ PTFE frits available upon request.
 Part Numbering - "format - internal volume - sorbent - bed weight"

Available Formats

SC = standard column
 FC = flangeless column
 RC = rimless column
 LRC = large reservoir column
 MC = micro cartridge
 WP = 96 well plate

Sorbent			Internal Volume & Bed Weight				
			35mL	35mL	35mL	60mL	60mL
phase	code	description	2gram	3gram	5gram	10gram	20gram
Silica based sorbents - 40micron, 60 angstrom							
Reverse	C18/14	Octadecyl - 14% carbon	SC-35-C18/14-2	SC-35-C18/14-3	SC-35-C18/14-5	SC-60-C18/14-10	SC-60-C18/14-20
	C18/18	Octadecyl - 18% carbon	SC-35-C18/18-2	SC-35-C18/18-3	SC-35-C18/18-5	SC-60-C18/18-10	SC-60-C18/18-20
	C18/22	Octadecyl - 22% carbon	SC-35-C18/22-2	SC-35-C18/22-3	SC-35-C18/22-5	SC-60-C18/22-10	SC-60-C18/22-20
	C18/OH	Octadecyl/OH (not end-capped)	SC-35-C18/OH-2	SC-35-C18/OH-3	SC-35-C18/OH-5	SC-60-C18/OH-10	SC-60-C18/OH-20
	C8	Ocyl	SC-35-C8-2	SC-35-C8-3	SC-35-C8-5	SC-60-C8-10	SC-60-C8-20
	PH	Phenyl	SC-35-PH-2	SC-35-PH-3	SC-35-PH-5	SC-60-PH-10	SC-60-PH-20
	CH	Cyclohexyl	SC-35-CH-2	SC-35-CH-3	SC-35-CH-5	SC-60-CH-10	SC-60-CH-20
	C4	Butyl	SC-35-C4-2	SC-35-C4-3	SC-35-C4-5	SC-60-C4-10	SC-60-C4-20
	C2	Ethyl	SC-35-C2-2	SC-35-C2-3	SC-35-C2-5	SC-60-C2-10	SC-60-C2-20
C1	Methyl	SC-35-C2-2	SC-35-C2-3	SC-35-C2-5	SC-60-C2-10	SC-60-C2-20	
Normal	CNe	Cyanopropyl	SC-35-CNe-2	SC-35-CNe-3	SC-35-CNe-5	SC-60-CNe-10	SC-60-CNe-20
	CN	Cyanopropyl (not end-capped)	SC-35-CN-2	SC-35-CN-3	SC-35-CN-5	SC-60-CN-10	SC-60-CN-20
	DIO	Diol	SC-35-DIO-2	SC-35-DIO-3	SC-35-DIO-6	SC-60-DIO-10	SC-60-DIO-20
	SI	Silica Gel	SC-35-SI-2	SC-35-SI-3	SC-35-SI-5	SC-60-SI-10	SC-60-SI-20
Ion Exchange	COOH	Carboxylic Acid	SC-35-COOH-2	SC-35-COOH-3	SC-35-COOH-6	SC-60-COOH-10	SC-60-COOH-20
	SCX	Benzenesulfonic Acid	SC-35-SCX-2	SC-35-SCX-3	SC-35-SCX-6	SC-60-SCX-10	SC-60-SCX-20
	NH2	Aminopropyl	SC-35-NH2-2	SC-35-NH2-3	SC-35-NH2-6	SC-60-NH2-10	SC-60-NH2-20
	PSA	Pri/sec Amine	SC-35-PSA-2	SC-35-PSA-3	SC-35-PSA-6	SC-60-PSA-10	SC-60-PSA-20
	DEA	Diethylamino	SC-35-DEA-2	SC-35-DEA-3	SC-35-DEA-6	SC-60-DEA-10	SC-60-DEA-20
	N+	Quaternary Amino	SC-35-N+-2	SC-35-N+-3	SC-35-N+-6	SC-60-N+-10	SC-60-N+-20
Non-Silica based sorbents							
FLO	Florisil		SC-35-FLO-2	SC-35-FLO-3	SC-35-FLO-5	SC-60-FLO-10	SC-60-FLO-20
ALN	Alumina (neutral)		SC-35-ALN-2	SC-35-ALN-3	SC-35-ALN-6	SC-60-ALN-10	SC-60-ALN-20
ALA	Alumina (acidic)		SC-35-ALA-2	SC-35-ALA-3	SC-35-ALA-6	SC-60-ALA-10	SC-60-ALA-20
ALB	Alumina (basic)		SC-35-ALB-2	SC-35-ALB-3	SC-35-ALB-6	SC-60-ALB-10	SC-60-ALB-20
ABN	mixed mode - reverse / ion		SC-35-ABN-2	SC-35-ABN-3	SC-35-ABN-6	SC-60-ABN-10	SC-60-ABN-20
HLB	hydrophilic-lipophilic balanced				SC-35-ABN-6		
CMP	chemically modified polymer						
CMPf	chemically modified polymer - fast						
NaSO4	sodium sulfate		SC-35-NaSO4-2	SC-35-NaSO4-3	SC-35-NaSO4-6	SC-60-NaSO4-10	SC-60-NaSO4-20
Poly	Polymide		SC-35-Poly-2	SC-35-Poly-3	SC-35-Poly-5	SC-60-Poly-10	SC-60-Poly-20
PBA	Phenylboronic Acid		SC-35-PBA-2	SC-35-PBA-3	SC-35-PBA-5	SC-60-PBA-10	SC-60-PBA-20
DE	diatomaceous earth				SC-35-DE-5	SC-60-DE-10	SC-60-DE-20
Columns / Package			20	20	20	12	12

SPE - 96 Well Plate Format



Notes:

Flangeless and Rimmless versions upon request.

Custom bed weights are available upon request.

20µ hydrophobic polyethylene frits come standard.

Part Numbering - "format - internal volume - sorbent - bed weight"

Available Formats

SC = standard column

FC = flangeless column

RC = rimless column

LRC = large reservoir column

MC = micro cartridge

WP = 96 well plate (WPS = square, WPR = round)

Internal Volume & Bed Weight - Square well

Sorbent			1mL		2mL			
phase	code	description	25mg	50mg	25mg	50mg	100mg	200gram
Silica based sorbents - 40micron, 60 angstrom								
Reverse	C18/14	Octadecyl - 14% carbon	WPS-1-C18/14-25	WPS-1-C18/14-50	WPS-2-C18/14-25	WPS-2-C18/14-50	WPS-2-C18/14-100	WPS-2-C18/14-200
	C18/18	Octadecyl - 18% carbon	WPS-1-C18/18-25	WPS-1-C18/18-50	WPS-2-C18/18-25	WPS-2-C18/18-50	WPS-2-C18/18-100	WPS-2-C18/18-200
	C18/22	Octadecyl - 22% carbon	WPS-1-C18/22-25	WPS-1-C18/22-50	WPS-2-C18/22-25	WPS-2-C18/22-50	WPS-2-C18/22-100	WPS-2-C18/22-200
	C18/OH	Octadecyl/OH (not end-capped)	WPS-1-C18/OH-25	WPS-1-C18/OH-50	WPS-2-C18/OH-25	WPS-2-C18/OH-50	WPS-2-C18/OH-100	WPS-2-C18/OH-200
	C8	Ocytl	WPS-1-C8-25	WPS-1-C8-50	WPS-2-C8-25	WPS-2-C8-50	WPS-2-C8-100	WPS-2-C8-200
	PH	Phenyl	WPS-1-PH-25	WPS-1-PH-50	WPS-2-PH-25	WPS-2-PH-50	WPS-2-PH-100	WPS-2-PH-200
	CH	Cyclohexyl	WPS-1-CH-25	WPS-1-CH-50	WPS-2-CH-25	WPS-2-CH-50	WPS-2-CH-100	WPS-2-CH-200
	C4	Butyl	WPS-1-C4-25	WPS-1-C4-50	WPS-2-C4-25	WPS-2-C4-50	WPS-2-C4-100	WPS-2-C4-200
	C2	Ethyl	WPS-1-C2-25	WPS-1-C2-50	WPS-2-C2-25	WPS-2-C2-50	WPS-2-C2-100	WPS-2-C2-200
C1	Methyl	WPS-1-C1-25	WPS-1-C1-50	WPS-2-C1-25	WPS-2-C1-50	WPS-2-C1-100	WPS-2-C1-200	
Normal	CNe	Cyanopropyl	WPS-1-CNe-25	WPS-1-CNe-50	WPS-2-CNe-25	WPS-2-CNe-50	WPS-2-CNe-100	WPS-2-CNe-200
	CN	Cyanopropyl (not end-capped)	WPS-1-CN-25	WPS-1-CN-50	WPS-2-CN-25	WPS-2-CN-50	WPS-2-CN-100	WPS-2-CN-200
	DIO	Diol	WPS-1-DIO-25	WPS-1-DIO-50	WPS-2-DIO-25	WPS-2-DIO-50	WPS-2-DIO-100	WPS-2-DIO-200
	SI	Silica Gel	WPS-1-SI-25	WPS-1-SI-50	WPS-2-SI-25	WPS-2-SI-50	WPS-2-SI-100	WPS-2-SI-200
Ion Exchange	COOH	Carboxylic Acid	WPS-1-COOH-25	WPS-1-COOH-50	WPS-2-COOH-25	WPS-2-COOH-50	WPS-2-COOH-100	WPS-2-COOH-200
	SCX	Benzenesulfonic Acid	WPS-1-SCX-25	WPS-1-SCX-50	WPS-2-SCX-25	WPS-2-SCX-50	WPS-2-SCX-100	WPS-2-SCX-200
	NH2	Aminopropyl	WPS-1-NH2-25	WPS-1-NH2-50	WPS-2-NH2-25	WPS-2-NH2-50	WPS-2-NH2-100	WPS-2-NH2-200
	PSA	Pri/sec Amine	WPS-1-PSA-25	WPS-1-PSA-50	WPS-2-PSA-25	WPS-2-PSA-50	WPS-2-PSA-100	WPS-2-PSA-200
	DEA	Diethylamino	WPS-1-DEA-25	WPS-1-DEA-50	WPS-2-DEA-25	WPS-2-DEA-50	WPS-2-DEA-100	WPS-2-DEA-200
	N+	Quaternary Amino	WPS-1-N+-25	WPS-1-N+-50	WPS-2-N+-25	WPS-2-N+-50	WPS-2-N+-100	WPS-2-N+-200
Non-silica based adsorbents								
	FLO	Florisil	WPS-1-FLO-25	WPS-1-FLO-50	WPS-2-FLO-25	WPS-2-FLO-50	WPS-2-FLO-100	WPS-2-FLO-200
	ALN	Alumina (neutral)	WPS-1-ALN-25	WPS-1-ALN-50	WPS-2-ALN-25	WPS-2-ALN-50	WPS-2-ALN-100	WPS-2-ALN-200
	ALA	Alumina (acidic)	WPS-1-ALA-25	WPS-1-ALA-50	WPS-2-ALA-25	WPS-2-ALA-50	WPS-2-ALA-100	WPS-2-ALA-200
	ALB	Alumina (basic)	WPS-1-ALB-25	WPS-1-ALB-50	WPS-2-ALB-25	WPS-2-ALB-50	WPS-2-ALB-100	WPS-2-ALB-200
	ABN	mixed mode - reverse / ion	WPS-1-ABN-25	WPS-1-ABN-50	WPS-2-ABN-25	WPS-2-ABN-50	WPS-2-ABN-100	WPS-2-ABN-200
	HLB	hydrophilic-lipophilic balanced	WPS-1-HLB-25	WPS-1-HLB-50	WPS-2-ABN-25	WPS-2-ABN-50	WPS-2-ABN-100	WPS-2-ABN-200

Plates / Package	1	1	1	1	1	1
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SPE - LRC & Micro Cartridge Formats



Notes:

Custom bed weights are available upon request.
 20 μ hydrophobic polyethylene frits come standard.
 70 μ and 100 μ hydrophobic PE and 5 μ PTFE frits available upon request.
Part Numbering - "format - internal volume - sorbent - bed weight"

Available Formats

SC = standard column
 FC = flangeless column
 RC = rimless column
 LRC = large reservoir column
 MC = micro cartridge
 WP = 96 well plate

Sorbent			Internal Volume & Bed Weight			
			LRC	LRC	LRC	MC
phase	code	description	100mg	300mg	500mg	
Silica based sorbents - 40micron, 60 angstrom						
Reverse	C18/14	Octadecyl - 14% carbon	LRC-C18/14-100	LRC-C18/14-300	LRC-C18/14-500	MC-C18/14-500
	C18/18	Octadecyl - 18% carbon	LRC-C18/18-100	LRC-C18/18-300	LRC-C18/18-500	MC-C18/18-500
	C18/22	Octadecyl - 22% carbon	LRC-C18/22-100	LRC-C18/22-300	LRC-C18/22-500	MC-C18/22-500
	C18/OH	Octadecyl/OH (not end-capped)	LRC-C18/OH-100	LRC-C18/OH-300	LRC-C18/OH-500	MC-C18/OH-500
	C8	Ocytl	LRC-C8-100	LRC-C8-300	LRC-C8-500	MC-C8-500
	PH	Phenyl	LRC-PH-100	LRC-PH-300	LRC-PH-500	MC-PH-500
	CH	Cyclohexyl	LRC-CH-100	LRC-CH-300	LRC-CH-500	MC-CH-500
	C4	Butyl	LRC-C4-100	LRC-C4-300	LRC-C4-500	MC-C4-500
	C2	Ethyl	LRC-C2-100	LRC-C2-300	LRC-C2-500	MC-C2-500
C1	Methyl	LRC-C1-100	LRC-C1-300	LRC-C1-500	MC-C1-500	
Normal	CNe	Cyanopropyl	LRC-CNe-100	LRC-CNe-300	LRC-CNe-500	MC-CNe-500
	CN	Cyanopropyl (not end-capped)	LRC-CN-100	LRC-CN-300	LRC-CN-500	MC-CN-500
	DIO	Diol	LRC-DIO-100	LRC-DIO-300	LRC-DIO-500	MC-DIO-500
	SI	Silica Gel	LRC-SI-100	LRC-SI-300	LRC-SI-500	MC-SI-500
Ion Exchange	COOH	Carboxylic Acid	LRC-COOH-100	LRC-COOH-300	LRC-COOH-500	MC-COOH-500
	SCX	Benzenesulfonic Acid	LRC-SCX-100	LRC-SCX-300	LRC-SCX-500	MC-SCX-500
	NH2	Aminopropyl	LRC-NH2-100	LRC-NH2-300	LRC-NH2-500	MC-NH2-500
	PSA	Pri/sec Amine	LRC-PSA-100	LRC-PSA-300	LRC-PSA-500	MC-PSA-500
	DEA	Diethylamino	LRC-DEA-100	LRC-DEA-300	LRC-DEA-500	MC-DEA-500
	N+	Quaternary Amine	LRC-N+-100	LRC-N+-300	LRC-N+-500	MC-N+-500
Non-silica based adsorbents						
FLO	Florisol	LRC-FLO-100	LRC-FLO-300	LRC-FLO-500	MC-FLO-500	
ALN	Alumina (neutral)	LRC-ALN-100	LRC-ALN-300	LRC-ALN-500	MC-ALN-500	
ALA	Alumina (acidic)	LRC-ALA-100	LRC-ALA-300	LRC-ALA-500	MC-ALA-500	
ALB	Alumina (basic)	LRC-ALB-100	LRC-ALB-300	LRC-ALB-500	MC-ALB-500	
ABN	mixed mode - reverse / ion	LRC-ABN-100	LRC-ABN-300	LRC-ABN-500	MC-ABN-500	
HLB	hydrophilic-lipophilic balanced	LRC-HLB-100	LRC-HLB-300	LRC-HLB-500	MC-HLB-500	
NaSO4	sodium sulfate	LRC-NaSO4-100	LRC-NaSO4-300	LRC-NaSO4-500	MC-NaSO4-500	
Poly	Polymide	LRC-Poly-100	LRC-Poly-300	LRC-Poly-500	MC-Poly-500	
PBA	Phenylboronic Acid	LRC-PBA-100	LRC-PBA-300	LRC-PBA-500	MC-PBA-500	

Columns / Package	20	20	20	50
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Precipitation Cartridges - faster, easier, more accurate precipitations

- For DNA, protein and clinical and diagnostic applications
- Eliminate the need to pipette avoiding contamination and sample loss



Cartridges / Package	500	100	50
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SPE - All Formats - Empty & w/ Frits

Notes:

Flangeless and Rimless versions are available upon request.

20µ hydrophobic polyethylene frits come standard.

70µ and 100µ hydrophobic PE and 5µ PTFE frits available upon request.

Part Numbering - "format - internal volume - frits"

Available Formats

SC = standard column

FC = flangeless column

RC = rimless column

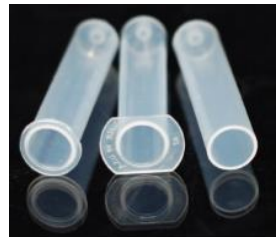
LRC = large reservoir column

MC = micro cartridge

WP = 96 well plate (WPS = square, WPR = round)

BW = Breakwood legacy columns

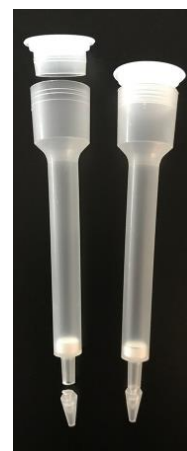
Traditional Formats				
	empty	1 frit	2 frits	units/pack
1mL	SC-1	SC-1+1	SC-1+2	100
3mL	SC-3	SC-3+1	SC-3+2	100
6mL	SC-6	SC-6+1	SC-6+2	100
12mL	SC-12	SC-12+1	SC-12+2	100
20mL	SC-20	SC-20+1	SC-20+2	100
35mL	SC-35	SC-35+1	SC-35+2	100
60mL	SC-60	SC-60+1	SC-60+2	100
LRC	LRC	LRC+1	LRC+2	100
MC	MC	MC+1	MC+2	100
WPS (1mL)	WPS-1	WPS-1+1	WPS-1+2	1
WPS (2mL)	WPS-2	WPS-2+1	WPS-2+2	1



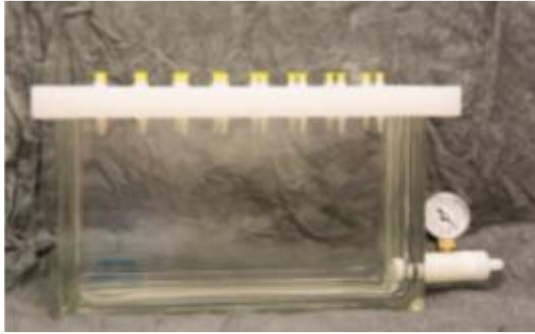
Flangeless - Standard - Rimless



Breakwood Legacy columns				
1mL	BW-1	BW-1+1	BW-1+2	100
2mL	BW-2	BW-2+1	BW-2+2	100
5mL	BW-5	BW-5+1	BW-5+2	100
6mL	BW-6	BW-6+1	BW-6+2	100



SPE - Vacuum Manifolds



Part Numbering - "VM - number of positions"

Our vacuum manifolds are heavy wall glass block construction with adjustable configurations to accommodate various collection vessels like test tubes, autosampler vials, scintillation vials and volumetric flasks.

The manifold includes a chemical resistant lid, gasket, luer-fitted connections and polypropylene needles, plugs, vacuum gauge controller, and bleed valve assembly.

	Vacuum Manifolds		
description	12 position	16 position	24 position
glass block manifold	VM-12	VM-16	VM-24
Units / Package	1	1	1

SPE - Accessories

Cap		
	part number	units/pack
1mL	C-1	100
3mL	C-3	100
6mL	C-6	100
12mL	C-12	100
20mL	C-20	100
35mL	C-35	100
60mL	CP-60	100



Cap - Breakwood Legacy		
	part number	units/pack
1mL	CBL-1	100
2mL	CBL-2	100
5mL	CBL-5	100
6mL	CBL-6	100



Luer Tips		
	part number	units/pack
hard	LT-H	100
soft	LT-S	100



Universal Adapters		
	part number	units/pack
one size	UA	100



Funnels		
	part number	units/pack
12mL	F-12	100
25mL	F-25	100



Stop Valves		
	part number	units/pack
Nylon	SV-Nylon	10
PTFE	SV-PTFE	10



Column Plungers		
	part number	units/pack
1mL	CP-1	100
3mL	CP-3	100
6mL	CP-6	100
12mL	CP-12	100
20mL	CP-20	100
35mL	CP-35	100
60mL	CP-60	100



Thank you for choosing Breakwood Enterprises. We look forward to supporting you. Please contact us @...

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