Prep Resources



YMC-Actus Hardware Specifications

		ap ap	THE REPORT OF THE PARTY OF THE						
	Hardware Code	-xxx WX	-xxx>	(DX	-xxxAX				
	ID	20, 30mm		50r	nm				
	Lengths	50, 75, 100, 150, 250mm		100, 150), 250mm				
	Max. Pressure	300 bar (for 5µm)		200 bar (for 5µm)				
	Port depth	3.3mm (0.13", 1/16")			3.3mm (0.13", 1/16				
ı	Connection			emale Swagelok nut					
	Fitting		1/8"		1/16"				
	Stationary Phases	YMC-Triart Reversed phase classics CHIRAL ART							

Preparative Column Selection Guide

This guide is designed to assist in determining the following:

- Column ID for the required sample loading
- Particle size for optimum efficiency
- Column length for the necessary resolution

Note: These calculations are based on estimates that may vary depending on actual conditions. A loading study should always be completed for best results.

			Lab sca	ile						Production	n scale	
Column in	Column inner diameter (mm ID)		4,6	10	20	30	50	100	200	500	1,000	
Cross s	Cross sectional area ratio		1.0	4.7	19	42	118	473	1,890	11,800	47,300	
			Flow rate		2.4	9.5	21	60	235	950	6,000 (6 L)	24,000 (24 L)
Example of calculat		[ml/min]		1.0	4.7	19	42	120	470	1,900	12,000 (12 L)	47,000 (47 L)
			iding [mg]	5	25	100	220	600	2,500	10,000	60,000 (60 g)	240,000 (240 g)
НІСН			5	+++	+++	+++	+++	++	+	+		
			10	++	+++	+++	+++	+++	++	++	++	++
Column efficiency, Pressure, Costs	Particle size [µm]	10–20	+	++	++	++	+++	+++	+++	++	++	
			15–30		+	+	+	++	+++	+++	+++	++
LOW			50~					+	++	++	+++	+++

YMC-Actus Columns



Dynamic Axial Compression (DAC) columns are widely used for preparative separation at pilot or production scale. The axial compression technology results in the uniform high-density packing that is necessary for highly efficient and stable HPLC columns.



YMC-Actus preparative columns were developed by applying this same technology. The column bed is compressed when attaching the inlet end assembly of the YMC-Actus hardware. This provides increased bed density (10% higher than that of conventional columns) and bed uniformity. Packed with YMC resins, Actus columns have been shown to maintain high stability under high flow rates and steep gradient conditions.

To learn more about YMC-Actus preparative columns, view the complete brochure online.

Contents include hardware specifications, applications, scale-up information, and more.



Scan the QR code to download your copy.



You can also access it via this link: https://www.ymcamerica.com/resource/ymc-actus/



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