

YMC HPLC COLUMNS

CHROMSPEC™ STANDALONE DEGASSER



- More effective at removing dissolved gas from mobile phases than sonication or helium-sparging
- Degas 4 solvents simultaneously
- The extremely low volume of each channel (480 μ L) offers rapid equilibration and very short start-up times
- Uses the ZHCR® (Zero Hysteresis Constant Run) stepper motor driven vacuum pump, specifically designed and developed for membrane degassing of HPLC mobile phase
 - Vacuum is maintained at a constant 50mm/Hg
 - Eliminates detector baseline noise due to varying vacuum levels in the chamber
- Short vacuum pull-down times, typically 3 minutes

Product Number	Description	Price
DEG0001	Chromspec™ Standalone Degasser	\$2,764.00

Upgrade your 1100 Degasser

The 1100 upgrade kit is a drop in assembly that can be installed in less than 20 minutes, requires only the use of a screwdriver, and provides the following benefits over the original configuration:

- Lower internal volume for faster equilibration times
 - < 5 minutes vs. 30 minutes
- ZHCR® vacuum control

This kit retains the original control board and vacuum sensor, so all communication functions with the HPLC stack and computer software are maintained.

For more information, please contact our Technical Support Team at 1-800-267-8103 or email tech@chromspec.com.

Pro Series columns represent the very best value for customers when selecting YMC columns. YMC also offers bulk packing materials in various chemistries, particles and pore size.

YMC REVERSED PHASE COLUMNS FOR METHOD DEVELOPMENT

YMC Triart C18 Hybrid

- Novel, multi-layered, organic/inorganic hybrid particle with C18 phase
- Chemically stable and physically durable over a wide pH and solvent range



YMC UltraHT

- Designed for high-speed and high-throughput analysis
- Superior column performance at higher flow rate and higher pressure
- Speed-up analysis and cut costs

YMC Pack-Pro and Hydrosphere C18 Ultra HT

- Applicable to both conventional HPLC and specific ultra pressure system
- Simple method transfer from conventional HPLC
- Excellent resolution with back pressure less than that of sub-2 μ m

ID x Length (mm)	Pack Pro C18	Hydrosphere C18	Price	Triart C18 1.9 μ m*	Price
2.0 x 50	YMAS12S020502WT	YMHS12S020502WT	\$722.10	YMTA12SP90502WT	\$814.70
2.0 x 100	YMAS12S021002WT	YMHS12S021002WT	722.10	YMTA12SP91002WT	814.70
3.0 x 100	YMAS12S021003WT	YMHS12S021003WT	722.10	YMTA12SP91003WT	814.70

* 3 μ m, 5 μ m and 10 μ m columns for analytical and semi-prep separations are also available.

YMC Pack Pro

- High purity silica gel
- Excellent Durability
- Low in metal impurities
- Excellent Reproducibility
- Advanced endcapping technology

YMC C18, C8, C4

- Columns for analysis of difficult compounds by HPLC; ideal for LC/MS applications
- Novel Lewis acid/Lewis base endcapping

YMC Hydrosphere C18

- "Hydrophilic" C18 surface for enhanced polar selectivity
- Ideal for pharmaceutical method development

YMC Pack Pro C18 RS

- High selectivity, high carbon ODS column of polymeric type
- Excellent separation of basic compounds
- Choice of a wide range of eluent conditions, easy method development

ID x Length (mm)	Pack Pro C18	Pack Pro C18 RS	Pack Pro C8	Pack Pro C4	Hydrosphere C18
3 μm					
2.0 x 100	YMAS12S031002WT \$542.40	YMRS08S031002WT \$542.40	YMOS12S031002WT \$542.40	YMBS12S031002WT \$542.40	YMHS12S031002WT \$558.00
3.0 X 100	YMAS12S031003WT \$564.70	YMRS08S031003WT \$564.70	YMOS12S031003WT \$564.70	YMBS12S031003WT \$564.70	YMHS12S031003WT \$564.70
3.0 x 150	YMAS12S031503WT \$709.80	YMRS08S031503WT \$709.80	YMOS12S031503WT \$709.80	YMBS12S031503WT \$709.80	YMHS12S031503WT \$709.80
4.6 x 150	YMAS12S031546WT \$737.70	YMRS08S031546WT \$737.70	YMOS12S031546WT \$737.70	YMBS12S031546WT \$737.70	YMHS12S031546WT \$762.20
5 μm					
4.6 x 250	YMAS12S052546WT \$774.50	YMRS08S052546WT \$774.50	YMOS12S052546WT \$774.50	YMBS12S052546WT \$774.50	YMHS12S052546WT \$797.90

Pricing is subject to change without prior notice. For up-to-date prices, contact the

Chromatographic Specialties Inc. Customer Service team at 1-800-267-8103 or email sales@chromspec.com

YMC REVERSED PHASE COLUMNS FOR METHOD DEVELOPMENT (cont'd)

YMC Pack Pro SIL

- Choice of 60Å, 120Å, 200Å and 300Å pore size packings
- Normal phase column using top quality silica

Original YMC-Pack and J'sphere Columns

YMC Pack ODS-A — Endcapped	YMC Pack ODS-AM — Improved Endcapping
YMC Pack ODS-AQ — 100% Aq Compatible	YMC Pack ODS-AL — Non-endcapped
YMC Pack PolymerC18 — Polymer based C18	J'sphere ODS-H80, M80, L80 — High, medium and low C load
YMC Pack C8 — Fully Endcapped	YMC Pack C4 — Wide polarity range
YMC Pack TMS — Unique Selectivity	YMC Pack Ph — Retains aromatics
YMC Pack CN — Most Polar Reversed-Phase	YMCbasic — Ideal for Analysis of Bases

Normal Phase

YMC Pack CN — Fast equilibration, uniform surface activity	YMC Pack Diol-NP — Selectivity without excessive retention
YMC Pack Polyamine II — Durable, normal or reversed phase	YMC Pack NH2 — Aqueous or nonaqueous normal phase use
YMC Pack PA — Separation of acidic oligosaccharides	YMC Pack PVA-Sil — Consistent surface activity, unaffected by water

CHIRAL

YMC Chiral CD BR — Bromo-cyclodextrin stationary phase	YMC Chiral NEA — R and S phases for reversible selectivity
YMC Chiral PREP CD ST/PM — For preparative isolation of optical isomers	

Ion Exchange

YMC-BioPro IEX Columns — For proteins and peptides
— Newly developed hydrophilic polymer with low nonspecific absorption
— Quaternary amine and Sulfonic acid based phases

Others

YMC-Pack Diol-SEC — Size determination of proteins and sugars	YMC-Pack PROTEIN-RP — Robust RP column for proteins and peptides
YMC-Carotenoid — C30 column for separation of cis and trans isomers	YMC-Pack R&D Series — Analytical and semi-prep columns
	— Packed from same lot for easy scale-up
Wide-Pore Columns — Many YMC columns are available in wide pore format for large biomolecule separations	



Need to go beyond analytical scale?

YMC-Actus High Throughput Extended Life Semi Prep Columns



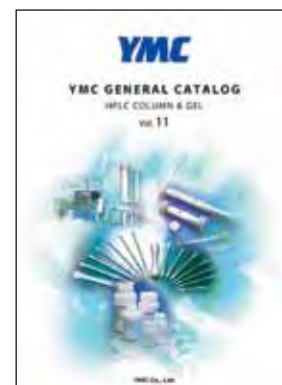
YMC-Actus series HPLC columns offer outstanding durability under high throughput conditions.

- Outstanding durability by adaptation of DAC column mechanism
- Long column lifetime
- Desirable for milligram scale preparative HPLC in R&D and for laboratory-scale isolation and purification
- Excellent resolution
- High throughput

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Product Number	Description	Price
YMAA12S031046WT	ODS-A, 100 x 4.6mm, 3 μm	\$601.50
YMAA12S031546WT	ODS-A, 150 x 4.6mm, 3 μm	642.80
YMAA12S052546WT	ODS-A, 250 x 4.6mm, 5 μm	704.20
YMAQ12S031546WT	ODS-AQ, 150 x 4.6mm, 3 μm	791.20
YMAQ12S032546WT	ODS-AQ, 250 x 4.6mm, 3 μm	955.30
YMAQ12S051546WT	ODS-AQ, 150 x 4.6mm, 5 μm	720.90
YMAQ12S052546WT	ODS-AQ, 250 x 4.6mm, 5 μm	830.30
YMJH08S041546WT	J'sphere H80, 150 x 4.6mm, 5 μm	753.30
YMOC12S031503WT	C8, 150 x 3.0mm, 3 μm	657.30
YMOS12S052546WT	C8, 250 x 4.6mm, 5 μm	774.50
YMDN12S051546WT	DIOL-NP, 150 x 4.6mm, 5 μm	720.90
YMPV12S052546WT	PVA-SIL-NP, 250 x 4.6mm, 5 μm	862.70
YMCT99S052546WT	Carotenoid, 250 x 4.6mm, 5 μm	876.10

This is only a partial listing of the most popular YMC columns. For more information, please request a copy of the YMC catalogue.



Call us to ask for Literature Code **YM01** or contact our Technical Support Team for advice on which YMC column is right for you.