

Introduction of the New Glass Column Generation: YMC ECO and YMC ECO^{PLUS}

Dear Valued Customer,

We would like to inform you about the introduction of the new generation of our YMC ECO and YMC ECO^{PLUS} glass column series, which will be introduced to the market starting June 1st, 2026.

Over an extended period, we have carefully refined our existing column lines with the aim of further improving environmental compatibility, application suitability, and long-term durability.

Particular attention has been given to reviewing the use of PFAS-containing materials and, where appropriate for the respective applications, replacing them with alternative materials.

At the same time, we have focused on simplifying the selection of the most suitable column type, as well as improving the efficiency of choosing accessories and spare parts.

As a result, the portfolio is now clearly structured into two distinct product lines with defined areas of application, complemented by the established YMC HT series:

- **YMC ECO:** Robust hardware solution for BioLC applications
- **YMC ECO^{PLUS}:** Pressure-stable glass columns with high chemical resistance for small particles and high-performance separations
- **YMC HT:** Temperature-stable glass columns for applications up to 70°C

In the development of the new generation, special care has been taken to retain the well-established handling characteristics of YMC glass columns. The new products therefore represent a continuous evolution of the existing designs.

The product identification system has also been simplified. Article numbers have been streamlined while maintaining their informative structure, allowing key specifications such as column type, inner diameter, length, frit material, and porosity to be easily identified.

YMC ECO – Key Updates

The YMC ECO series has been further optimized for BioLC applications. Equipped with PE frits and EPDM O-rings, it is well suited for highly compressible media and compatible with common BioLC and CIP conditions.

The standard portfolio has been slightly adjusted in larger inner diameters, and standard column lengths have been optimised for IEX, SEC, and affinity chromatography applications.

Each column is now supplied with one long and one 'short piston, enabling an adjustment range of 100 mm, which can be extended if required.

YMC ECO^{PLUS} – Key Updates

The YMC ECO^{PLUS} series is designed for applications requiring high pressure stability and chemical resistance.

The introduction of PEEK pistons and an optimised frit design enhances pressure stability and enables a temperature range of 4 – 40°C across all column sizes.

Handling has been further improved, especially for columns with 10 – 50 mm inner diameter, where frit exchange can now be performed without tempering.

Glass frits are used across all dimensions, supporting a wide range of applications, including those involving corrosive media.

Spare Parts Kits

For the new generation, dedicated spare parts kits are available to simplify and streamline routine maintenance. Each kit combines all required frits and seals in one package, eliminating the need to identify and source individual part numbers separately. This helps ensure that all necessary replacement parts are readily available during servicing, reducing maintenance time and effort.

Packing Adapter Sets

Packing adapters continue to be available in the established YMC design and quality. Selection has been simplified through pre-configured sets, providing all necessary components for efficient column packing.

At YMC, we are committed to supporting our customers continuously by improving our products in line with application requirements and operational needs.

We will make every effort to ensure a smooth transition and to continue supporting your applications throughout this period.

Should you have any questions regarding the new column generation or require assistance in selecting the most suitable configuration for your applications, please do not hesitate to contact your local YMC representative.

We sincerely appreciate your continued trust and look forward to supporting your future projects.



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