



HICHROM

Chromatography Columns and Supplies

LC CONSUMABLES
AND ACCESSORIES
YMC Glass Columns

Catalogue 9

Hichrom Limited

1 The Markham Centre, Station Road
Theale, Reading, Berks, RG7 4PE, UK

Tel: +44 (0)118 930 3660 Fax: +44 (0)118 932 3484

Email: sales@hichrom.co.uk www.hichrom.co.uk

YMC Europe GmbH offers a large selection of high quality borosilicate glass columns (formerly Kronlab) for analytical to preparative applications. These glass columns can be used for the entire spectrum of applications in classic normal-phase and reversed-phase chromatography, as well as biochromatography. Two product lines are available: ECO and ECO^{PLUS}.

ECO Glass Columns

- Biocompatible
- 10-80mm i.d.
- Up to 1000mm bed length
- One or two adjustable plungers
- Solvent resistant (SR) and aqueous buffer (AB) versions
- Temperature range 4-40°C (AB), 16-40°C (SR)
- Pressure limit 5-30 bar
- Compatible with any LC system

The ECO Series glass columns are suitable for most types of soft gel and low pressure (5-30 bar) liquid chromatography applications. They use a simple, reliable screw-lock endfitting system for easy and quick opening and sealing. They are available with column i.d.s from 10 to 80mm, and 5 different bed lengths up to 1000mm. An adjustable plunger provides up to 120mm bed height adjustment. Two adjustable plungers can be supplied on request.

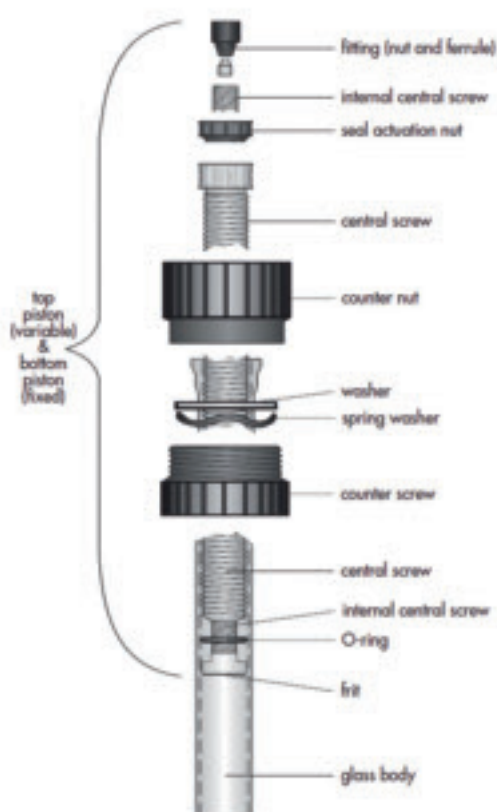


Figure 1. Schematic diagram of ECO column (10 - 50 i.d.)

ECO Series glass columns are available in two different formats:

ECO AB (aqueous buffer) columns are suitable for use with aqueous buffers and cold room applications.

ECO SR (solvent resistant) columns are suitable for all forms of normal- and reversed-phase chromatography.

The specifications of these two column formats are summarised in Table 1 below. Each column passes a quality control pressure test. A water-jacketed option (see below) can be supplied on request.

All ECO Series glass columns are supplied with a frit removal tool, 2 PTFE plugs and adaptors to allow direct connection to any LC system.



ECO column with water jacket

Table 1. Specifications of ECO columns¹

Version	Column i.d. (mm)	Temperature Range (°C)	Plunger	Seal	Frit
ECO AB (Aqueous Buffer)	10-50	4-40	POM	Viton® O-ring	Sintered glass
	70-80	4-40	POM	EPDM	Polyethylene
ECO SR (Solvent Resistant)	10-50	16-40	PVDF	Kalrez® O-ring	Sintered glass
	70-80	16-40	PVDF	Kalrez® O-ring	Stainless steel

¹ Packing reservoirs and adaptors available POM = polyoxymethylene PVDF = polyvinylidene fluoride EPDM = ethylene propylene diene monomer

ECO^{PLUS} Glass Columns

- Biocompatible
- 5-50mm i.d.
- Up to 500mm bed length
- Two long or two short adjustable plungers
- Solvent resistant (SR) and aqueous buffer (AB) versions
- Temperature range 4-40°C (AB), 16-40°C (SR)
- Pressure limits 30-80 bar
- Compatible with any LC system

ECO^{PLUS} glass columns are multi-purpose columns suitable for most types of liquid chromatography applications (pressure limit 30-80 bar). The Quick-Lock connection (bayonet) system makes it possible to open and seal the column simply and quickly. The ECO^{PLUS} glass columns are available with column i.d.s from 5 to 50mm and 3 different bed lengths up to 500mm. Adjustable length plungers at both ends (60mm adjustment each) are standard. Longer plungers (120mm) are available on request.

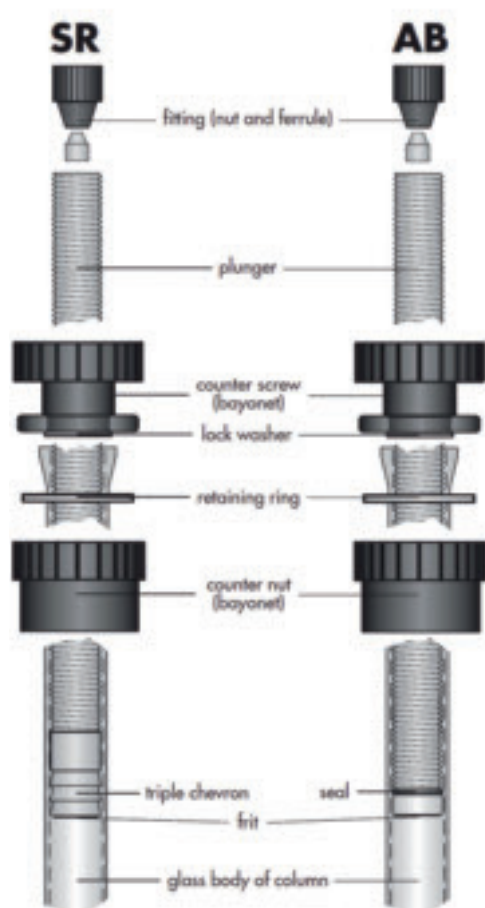


Figure 2. Schematic diagram of ECO^{PLUS} column

ECO^{PLUS} Series glass columns are available in two different formats:

ECO^{PLUS} AB (aqueous buffer) columns are suitable for use with aqueous buffers and cold room applications.

ECO^{PLUS} SR (solvent resistant) columns are suitable for all forms of normal- and reversed-phase chromatography. A totally inert triple chevron sealing system is used.

The specifications of these two column formats are summarised in Table 2 below. Each column passes a quality control pressure test.

All ECO^{PLUS} Series glass columns are supplied with a frit removal tool, 2 PTFE plugs and adaptors to allow direct connection to any LC system.

Please contact Hichrom for a free catalogue and ordering information for the YMC glass columns.

Table 2. Specifications of ECO^{PLUS} columns¹

Version	Column i.d. (mm)	Temperature Range (°C)	Plunger	Seal	Frit
ECO ^{PLUS} AB (Aqueous Buffer)	5-50	4-40	Polyethylene	O-ring EPDM	Polyethylene
ECO ^{PLUS} SR (Solvent Resistant)	5-15 25-50	16-40	PTFE	PTFE triple chevron ²	Sintered glass Stainless steel

¹ Packing reservoirs and adaptors available

² Kalrez O-ring version available on request

EPDM = ethylene propylene diene monomer

PTFE = polytetrafluoroethylene