

ECO Glass Columns - Overview



ECO columns are glass columns suitable for all types of soft gel and medium pressure LC applications.

Advantages:

- Easy handling and self-packing
- Compatible with any LC system
- For use with all types of soft gels

Specifications

Area of application	Low to medium pressure LC
Inner diameters	10, 15, 25, 50, 70, 80mm
Bed lengths	120, 200, 450, 750, 1000mm
Versions	AB (Aqueous buffer) SR (Solvent resistant)
Temperature range	4-40° C
Packing adaptor	Available
Heating/cooling jacket	Optional, available
Column stand	Available for 25, 50, 70, 80mm ID

Pressure Resistance

ID (mm)	10	15	25	50	70	80
Pressure limit (bar)	30	25	15	10	5	5

External tubing connection

- ⇒ Quick and easy tubing replacement
- ⇒ No tube twisting during piston adjustment
- ⇒ Tubing replacement possible with a packed column

Linear piston movement

- ⇒ Homogenously packed column beds
- ⇒ Excellent column performance
- ⇒ Increased resin lifetime

Sealing method: compressed o-ring

- ⇒ Reliable sealing in a temperature range from 4 to 40 °C
- ⇒ Easy replacement and simple maintenance
- ⇒ High quality materials for a long lifetime

Fully porous frits

- ⇒ Optimum flow distribution
- ⇒ Securely fixed in the piston
- ⇒ Different materials and porosities available

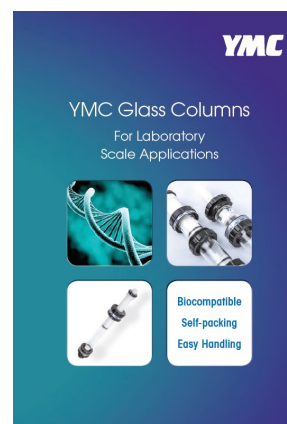
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Inner diameter column (mm)	Pressure limit (bar)	One adjustable piston (Vario)		Two adjustable pistons (Multivario)	
		Bed length range (mm)	Column volume range (mL)	Bed length range (mm)	Column volume range (mL)
10	30	0-120	0-9	0-120	0-9
		80-200	7-15	0-200	0-15
		330-450	28-35	220-450	19-35
		630-750	54-58	520-750	44-58
		880-1,000	75-78	780-1,000	66-78
15	25	0-120	0-19	0-120	0-19
		80-200	16-32	0-200	0-32
		330-450	63-73	210-450	40-73
		630-750	120-122	510-750	97-122
		880-1,000	163-163	760-1,000	145-163
25	15	0-120	0-60	0-120	0-60
		80-200	50-100	0-200	0-100
		330-450	190-230	220-450	130-230
		630-750	365-390	520-750	300-390
		880-1,000	510-520	770-1,000	445-520
50	10	0-120	0-235	0-120	0-235
		80-200	180-390	0-200	0-390
		330-450	730-885	230-450	510-885
		630-750	1,390-1,480	530-750	1,170-1,480
		880-1,000	1,945-1,970	780-1,000	1,725-1,970
70	5			0-120	0-425
				0-200	0-710
				70-450	290-1,610
				370-750	1,530-2,680
				620-1,000	2,560-3,570
80	5			0-120	0-560
				0-200	0-940
				70-450	380-2,120
				370-750	1,980-3,530
				620-1,000	3,320-4,710

Solvent	AB-Version		SR-Version	
	10-50 mm ID	70-80 mm ID	10-50 mm ID	70-80 mm ID
Acetone	Not resistant	Resistant	Not resistant	Not resistant
Acetonitrile	Limited resistant	Resistant	Limited resistant	Limited resistant
Ammonium dihydrogen phosphate	Limited resistant	Resistant	Limited resistant	Limited resistant
Cyclohexane	Resistant	Not resistant	Resistant	Resistant
Dichloromethane	Limited resistant	Not resistant	Limited resistant	Limited resistant
EDTA (3%)	Resistant	Resistant	Resistant	Resistant
Acetic acid (6%)	Resistant	Resistant	Resistant	Limited resistant
Ethanol	Resistant	Resistant	Resistant	Resistant
Ethyl acetate	Not resistant	Limited resistant	Limited resistant	Limited resistant
n-Hexane	Resistant	Not resistant	Resistant	Resistant
Isopropanol	Resistant	Resistant	Resistant	Resistant
Methanol	Limited resistant	Resistant	Limited resistant	Limited resistant
NaOH (2M)	Limited resistant	Resistant	Limited resistant	Limited resistant
HCl (1M)	Not resistant	Not resistant	Not resistant	Not resistant
Urea (8M)	Resistant	Resistant	Resistant	Resistant
NaCl (1M)	Resistant	Resistant	Resistant	Limited resistant
Na ₂ SO ₄ (0.5M)	Resistant	Resistant	Resistant	Limited resistant

Not resistant
Limited resistant
Resistant



View the complete YMC Glass Columns brochure for more detailed information.



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