

essentialLife Solutions

Your Preparative Chromatography Source for Product & Services

Essential Life Solutions Ltd

ECONOLINE LP series Glass Columns LARGE SERIES LP70 and LP80



Specifications

Aqueous Buffer (AB) - Version

temperature range	4 - 40°C
Inner/outer central screw	POM (Polyoxymethylene)
Sealing	O-ring, EPDM (ethylene propylene diene monomere)
Frit	polyethylene
Height adjustment	Double Piston (each side 180 mm)
Connections	1/4"-28G female screw thread

Solvent Resistant (SR) - Version

temperature range	16 - 40°C
Inner/outer central screw	PVDF (polyvinylidene fluoride)
Sealing	O-ring, Kalrez®
Frit	stainless steel
Height adjustment	Double Piston (each side 180 mm)
Connections	1/4"-28G female screw thread

ID [mm]	Pressure limit [bar]	Bed length [mm]	Volume [ml]
70	5	0 - 120	0 - 462
70	5	0 - 200	0 - 770
70	5	90 - 450	356 - 1732
70	5	390 - 750	1501 - 2886
70	5	640 - 1000	2463 - 3848
80	5	0 - 120	0 - 603
80	5	0 - 200	0 - 1005
80	5	90 - 450	452 - 2262
80	5	390 - 750	1960 - 3770
80	5	640 - 1000	3217 - 5026

All columns supplied with:

2x plugs, PTFE (1/4"-28G)
1x 2 m FEP-tubing (2.4 x 3.2 mm)
4x 1/4"-28G nut and 4x ferrule (collapsible) for 1/8" tubing
2x M6 nut and ferrule for 1/8" tubing

Econoline LP Large Series, Aqueous Buffer Applications

Height adjustment	Each side 180 mm
Inner/outer central screw	POM
Sealing	O-ring, EPDM

Frit Porosity Part No.	ID [mm]	Pressure limit [bar]	polyethylene 10 µm		Frit porosity [µm]
			Bed length [mm]	Volume [ml]	
ECO70/120M0E	70	5	0 - 120	0 - 462	10
ECO70/200M0E	70	5	0 - 200	0 - 770	10
ECO70/450M0E	70	5	90 - 450	346 - 1732	10
ECO70/750M0E	70	5	390 - 750	1501 - 2886	10
ECO70/999M0E	70	5	640- 1000	2463 - 3848	10
ECO80/120M0E	80	5	0 - 120	0 - 603	10
ECO80/200M0E	80	5	0 - 200	0 - 1005	10
ECO80/450M0E	80	5	90 - 450	452 - 2262	10
ECO80/750M0E	80	5	390 - 750	1960 - 3770	10
ECO80/999M0E	80	5	640- 1000	3217 - 5027	10

Econoline LP Large Series, Solvent Resistant Applications

Height adjustment

Each side 180 mm

Inner/outer central screw

POM

Sealing

O-ring, Kalrez®

Frit

stainless steel

Porosity

10 µm

Part No.	ID [mm]	Pressure limit [bar]	polyethylene 10 µm		Frit porosity [µm]
			Bed length [mm]	Volume [ml]	
ECO70/120M0K	70	5	0 - 120	0 - 462	10
ECO70/200M0K	70	5	0 - 200	0 - 770	10
ECO70/450M0K	70	5	90 - 450	346 - 1732	10
ECO70/750M0K	70	5	390 - 750	1501 - 2886	10
ECO70/999M0K	70	5	640- 1000	2463 - 3848	10
ECO80/120M0K	80	5	0 - 120	0 - 603	10
ECO80/200M0K	80	5	0 - 200	0 - 1005	10
ECO80/450M0K	80	5	90 - 450	452 - 2262	10
ECO80/750M0K	80	5	390 - 750	1960 - 3770	10
ECO80/999M0K	80	5	640- 1000	3217 - 5027	10

Spare parts for Econoline LP Large series glass columns

ECO Glass bodies

Part No.	ID	Max. bed length
	[mm]	[mm]
ECO70/120	70	120
ECO70/200	70	200
ECO70/450	70	450
ECO70/750	70	750
ECO70/999	70	1000
ECO80/120	80	120

ECO80/200	80	200
ECO80/450	80	450
ECO80/750	80	750
ECO80/999	80	1000

Econoline LP coupling units for packing adapters, incl. EPDM O-ring

Part No.	For column ID [mm]
ECO70KU/E	70
ECO80KU/E	80

Econoline LP70 and Econoline LP80 column stand, tripod

Part No.	For column ID [mm]
ECO70/FUSS-MV	70
ECO80/FUSS-MV	80

Econoline LP70 and Econoline LP80 end pieces

Assembly includes inner/outer central screw, counternut and -screw, washer, spring washer, O-ring and frit

Econoline end piece Aqueous - variable

Part No.	For column ID [mm]	Frit porosity [µm]
ECO70END/V0E	70	10
ECO80END/V0E	80	10

Econoline LP end piece Solvent Resistant - variable

Part No.	For column ID [mm]	Frit porosity [µm]
ECO70END/V0K	70	10
ECO80END/V0K	80	10

Frits

Part No.	For column ID [mm]	Frit porosity [µm]
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Polyethylene (Aqueous-version)

ECO70AB110PE/10	70	10
ECO80AB110PE/10	80	10

Stainless steel (Solvent Resistant-version)

ECO70SR110SS/10	70	10
ECO80SR110SS/10	80	10

Other porosities and materials are available upon request

O-rings

Part No.	For column ID
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	[mm]
EPDM O-ring (plunger), AB-version	
ECO70AB100E	70
ECO80AB100E	80
EPDM O-ring (frit), AB-version	
ECO70AB102E	70
ECO80AB102E	80
Kalrez® O-ring (plunger), SR-version	
ECO70SR100K	70
ECO80SR100K	80
Kalrez® O-ring (frit), SR-version	
ECO70SR102K	70
ECO80SR102K	80
Frit support ring, AB-version	
ECO7026	70
ECO8026	80
Frit support ring, SR-version	
ECO7026-SR	70
ECO8026-SR	80

Additional spare parts

Tubing

Part No.	Description
ELS-1523	FEP-tubing 2.4 x 3.2 mm (1/8") (10 ft length)

Part No.	Description
ELS-FRT	Frit removal tool
ELS-32968	Plug, PTFE (1/4"-28G)
ELS-P620	Connector (both sides ID 1/4"-28G)
ELS-P621	Adapter 1/4"-28G to M6

Part No.	Description
ELS-JR-55051	Nut, 1/4"-28, PPS, for collapsible ferrule for 1/8" tubing
ELS-JR-CL-CB2KF	Ferrule, collapsible, for 1/8" tubing
ELS-P301	Nut 1/4"-28G for 1/8" tubing
ELS-P300N	Flangeless ferrule for 1/8" tubing
ELS-P307	M6 (nut, for 1/8" tubing)
ELS-P300N	M6 (ferrule, for 1/8" tubing)

more spare parts are available upon request