



Evolve™ Process Columns

Prometic Bioseparations Ltd (PBL) have developed a cost effective, ready-to-use range of process columns – EVOLVE™ [70, 100, 140, 200, 250 & 350 mm diameter] - in collaboration with Delta Precision Ltd.

The Evolve™ product range provides a high performance, easy to use, low maintenance, scalable technology for bio-process downstream processing applications.

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Our Technology

The Evolve™ product range consists of six cost effective, ready-to-use process columns (70, 100, 140, 200, 250 & 350 mm diameter) providing a high performance, easy to use, low maintenance, scalable technology with excellent flow distribution to support bio-process downstream processing applications.

The column tubes are manufactured from pharmaceutical grade acrylic, with a non-metallic flow path & utilise either a woven polymer or hydrophilic sinter (350 mm diameter column only) bed support capable of operating at both high pressure & high flow rates, whilst eliminating the risk of corrosion in the wetted flow areas.

PBL offers a 'Refresh Kit' for the entire Evolve range. The kit contains replacement parts for all the wetted components of the column, allowing an easy exchange and column 'refresh'. This provides significant cost savings whilst eliminating the need to prove clearance of previous product & cleaning validation.

Evolve™ Process Columns are suitable for use with a wide range of chromatography media types - agarose & polymethacrylate based adsorbents - for applications such as protein purification & contaminant removal (including PBL's extensive range of bioseparation products).

Evolve™ Range



Flow Distribution

- Easy to pack
- Low flow resistance
- Central inlet & ribbed distribution plate
- Integrated bed support & seal
- Woven polypropylene or hydrophilic sinter bed supports
- Minimal dead space

High Performance

- 4 bar pressure rating
- Flow rates up to 1000 cm/h
- 2 - 30 °C operating temperature range
- Scalability between column range
- All elastomers used in wetted regions suitable for biopharmaceutical applications & conform to both FDA & USP VI requirements

Non-Metallic

- Non-metallic flow path enables the use of high salt and guanidine HCl solutions
- Eliminates corrosion risk in wetted flow areas
- Prevents any product inactivation through metal contact
- Chemical resistance (see technical information table for more details)
- Disposable Approach

Easy To Use

- Easily adjustable bed height (2 to 52 cm)
- Central adjuster ensures even seal compression
- Low number of components & low maintenance
- Sanitary connections for quick & easy operation with other process equipment

Internal Diameter (mm):	70 mm	100 mm	140 mm	200 mm	250 mm	350 mm
Product Code:	AB070505	AB100505	AB140505	AB200505	AB250505	AB350505
Cross Sectional Area (cm²):	38.5	78.5	154	314.2	490.9	962.2
Minimum Bed Height (mm):	20	20	20	20	20	20
Maximum Bed Height (mm):	520	520	520	520	520	520
Maximum Column Volume (L):	2	4	8	16.3	25.5	50
Pressure Rating (Bar):	4	4	4	4	4	4
Operating Temperature (°C):	2 - 30	2 - 30	2 - 30	2 - 30	2 - 30	2 - 30
Bed Support Pore Size (µm):	8	8	8	8	8	10
Chemical Conformity (wetted components):	All commonly used downstream processing buffers & solutions including acids, alcohols, salts, glycols, detergents, denaturants, sodium hypochlorite & sodium hydroxide (see Operating Manuals for full details before use)					
Total Weight Empty (kg):	11.5	12.5	19	45.5	52	100
Adjuster Weight (kg):	4	5	7.5	12.7	15	39
Total Weight Full* (kg):	13	16	26	60	76	148
Footprint (mm):	226	226	282	455	495	700
Maximum Column Height (mm):	1523	1543	1545	1550	1550	1550
Minimum Clearance** (mm):	1620	1620	1620	1750	1750	1750

* Based on bed height of 520 mm & specific gravity 1.05

** Minimum height required to remove adjuster out from above the column tube unit



Ready To Use

Evolve™ Process Columns are supplied with:

- Operating manual (including instructions, material conformity, chemical compatibility, pressure flow curves & replacement parts)
- Tool kit (including torque wrench, spanners, allen keys, spirit level & seal tool)
- Connection kit (including adaptors, clamps & seals)
- Spares kit (including adjuster/flow tube seals & bed support assemblies)

Technical Support

- PBL are experts in chromatography development and can help optimize all process parameters including column packing
- PBL also supply an extensive range of replacement parts & accessories for the Evolve™ Process Column range



Disposable Approach

PBL offers a 'REFRESH KIT' for all the wetted parts of your used Evolve™ Process Columns (including the acrylic tube):



- **Hygienic** - Prevents cross contamination between multiple protein applications & eliminates the need to prove clearance of previous product & cleaning validation
- **Economical** - Refresh Kits offer significant cost savings in comparison to purchasing a complete new column
- **Environmentally Friendly** - PBL will recycle your old Evolve™ parts minimizing waste

Contact Us:

With sales and support offices in North America and Europe, R&D facilities in Cambridge, UK and manufacturing facilities located on the Isle of Man, British Isles and in Joliette, QC, Canada we are able to meet your needs and support your application wherever you are.

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Sales and Technical Support

Please contact us for further sales or technical support information regarding this product or any of our other innovative bioseparation products and services – let us show you how we can provide you with solutions to your biomolecular purification needs today:

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