

The new series of preparative stainless steel PFC cells is intended for ECOM HPLC systems with a UV-VIS detector and with a continuous flow of mobile phase. PFC cells are offered with different optical paths, pressure resistance, maximum flow rate of mobile phase and with the option of choosing the appropriate fitting and outer diameter (OD) of tubes and capillaries.

The PFC flow cells L (in bracket) are intended for ECOM detectors: OEM TOY18/20DAD L, standalone detectors TOY18/20DAD H, HK, the ECOM Compact system and the Prepbox system.

The PFC flow cells bring a whole range of important construction improvements. In the ECOM product portfolio they replace the previous PLCC series.

Advantages of the new PFC cells' design

- **Increased pressure resistance** – up to 6 MPa (870 psi, 60 bar)
- **Extended cell life** – thanks to the new cell window design
- **Increased temperature resistance range** – now from -50 °C up to 100 °C
- **Increased stability of the optical path** – even under high-pressure conditions



- **Extended optical path length choice to 9 options** – 0.05; 0.1; 0.3; 0.5; 1; 2; 3; 4 and 5 mm
- **New more intuitive product numbering system** – according to the optical path length
- **More easy exchangeable cells** – according to preferred sensitivity/application

TECHNICAL DETAILS PFC Series – L (In bracket)

Parameter	Value
Volume/Optical Path Length	35 µl /0.05 mm – 130 µl /5 mm
Wetted Materials	Stainless Steel, Quartz, FEP, (others upon request)
Body Material	Stainless Steel 316L, (others upon request)
Maximum Flow Rate	200 ml/min (tubing 1/16"), 500 ml/min (tubing 1/8"), 3000 ml/min (tubing 3/16")
Tubing OD Diameter	1/16"; 1/8"; 3/16"
Connecting Thread	UNF 10 – 32
	UNF 1/4"–28 (flat bottom)
	UNF 5/16"–24 (flat bottom)
	others upon request
Maximum Operating Pressure	6 MPa (870 psi, 60 bar)

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PRODUCT OVERVIEW

PFC Series – L (in bracket)

Product Description	Optical Path Length	Inside Volume (μl)	Max. flow-rate (ml/min)	Thread UNF	Tube OD	Part Number
PFC 005 L	0.05 mm	35	200	UNF 10–32	1/16"	PLSL0100
		40	500	UNF 1/4"–28	1/8"	PLSL0200
		70	3000	UNF 5/16"–24	3/16"	PLSL0300
PFC 010 L	0.1 mm	35	200	UNF 10–32	1/16"	PLSL1100
		40	500	UNF 1/4"–28	1/8"	PLSL1200
		70	3000	UNF 5/16"–24	3/16"	PLSL1300
PFC 030 L	0.3 mm	40	200	UNF 10–32	1/16"	PLSL3100
		40	500	UNF 1/4"–28	1/8"	PLSL3200
		70	3000	UNF 5/16"–24	3/16"	PLSL3300
PFC 050 L	0.5 mm	40	200	UNF 10–32	1/16"	PLSL5100
		45	500	UNF 1/4"–28	1/8"	PLSL5200
		80	3000	UNF 5/16"–24	3/16"	PLSL5300
PFC 100 L	1 mm	50	200	UNF 10–32	1/16"	PLSLA100
		50	500	UNF 1/4"–28	1/8"	PLSLA200
		80	3000	UNF 5/16"–24	3/16"	PLSLA300
PFC 200 L	2 mm	60	200	UNF 10–32	1/16"	PLSLD100
		60	500	UNF 1/4"–28	1/8"	PLSLD200
		95	3000	UNF 5/16"–24	3/16"	PLSLD300
PFC 300 L	3 mm	70	200	UNF 10–32	1/16"	PLSLF100
		75	500	UNF 1/4"–28	1/8"	PLSLF200
		110	3000	UNF 5/16"–24	3/16"	PLSLF300
PFC 400 L	4 mm	80	200	UNF 10–32	1/16"	PLSLG100
		90	500	UNF 1/4"–28	1/8"	PLSLG200
		120	3000	UNF 5/16"–24	3/16"	PLSLG300
PFC 500 L	5 mm	100	200	UNF 10–32	1/16"	PLSLH100
		100	500	UNF 1/4"–28	1/8"	PLSLH200
		130	3000	UNF 5/16"–24	3/16"	PLSLH300
PFC C L	CUSTOM 0.05–10 mm	according to the optical path length	CUSTOM	CUSTOM	CUSTOM	PLSLCXXX

Note: We are able to offer a number of other customer configurations. Please contact us for further details.