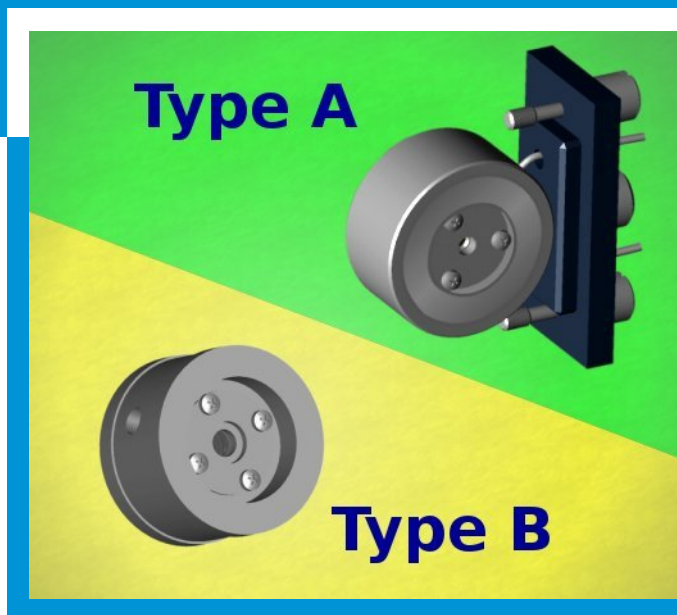


UV-VIS CELLS OVERVIEW

The ECOM Company produces several kinds of flow cells for liquid chromatography. Cell availability in the detector may be resolved by type of casing mainly, see next.

HPLC Cells are suited for analytical applications. Restriction of bubble formations in the cell is provided by a hydrodynamic resistor supplied with the cell. Restrictions of flow rate and temperature changes are provided by conical shape and heat exchanger on the cell input. Internal diameter of inlet capillary is 0.2 mm.

PLCC Cells are suited for preparative and flash applications. Cells design make possible to change the length of the optical path according to the particular conditions of the analysis.



MLCC Cells have very small internal volume and are suited for **microcolumn chromatography**. These cells have high pressure resistivity.

ZK Cells don't have windows and are used for validation (test) of detector operation, lamp age and working flow cell purity. These cells are parts of detectors accessories.

PARAMETERS

Name	<i>l</i> [mm]	<i>V</i> [μl]	<i>thread</i>	<i>D</i>	<i>F</i> _{max} [ml/min.]	Casing type	Application
HPLC 04	5	10	-	1/16"	10	A	Analytical
HPLC 08	5	10	-	1/16"	10	B	Analytical
PLCC 04	0.3*	40*	-	1/16"	200	A	Preparative and flash
PLCC 05	0.3*	40*	-	1/8"	500	A	Preparative and flash
PLCC 14	0.1*	40*	1/4"28	1/8"	500	B	Preparative and flash
PLCC 15	0.3*	40*	1/4"28	1/8"	500	B	Preparative and flash
PLCC 3L	0.3**	80**	5/16"24	3/16"	3000	B	Preparative and flash
PLCC 20	0.1**	150**	1/4"18	1/4"	15000	E	External, Preparative
HPLC 08 EX	5	10	-	1/16"	10	E	External, Analytical
MLCC 02	0.8	0.5	-	1/16"	5	A	Microcell
MLCC 03	0.8	0.5	-	1/16"	5	B	Microcell
ZK 02	-	-	-	-	-	A	Test cell
ZK 04	-	-	-	-	-	B	Test cell
ZK 05	-	-	-	-	-	B	Test cell

l - optical path length, *V* - internal cell volume, *thread* - type of thread for tubing/capillary connection, *D* - OD of tubing/capillary, *F*_{max} - max. flow rate

* basic optical path length which can be stepwise prolonged up to 1.1 mm or 2.4 mm and this cause extension of internal volume to 55 μl resp. 70 μl

** basic optical path length which can be prolonged and this cause extension of internal volume according to the prolonged path length

UV-VIS FLOW CELLS OVERVIEW

TYPE A



HPLC 04



PLCC 04



PLCC 05



MLCC 02



ZK 02

OCCURRENCES IN DETECTORS:

Cells with type A casing	Sapphire	Opal LED	LCD 2084	LCD 2083
HPLC 04	x	x	x	x
PLCC 04	x	x	x	x
PLCC 05	x	x	x	x
MLCC 02	x	x	x	x
ZK 02	x	x	x	x

Please, contact us when you need detail information about cells parameters, adjustment possibilities and modification possibilities.

TYPE B



HPLC 08



PLCC 14, 15



PLCC 3L



ZK 04



ZK 05

OCCURRENCES IN DETECTORS:

Cells with type B casing	Flash 06 x	Opal	Topaz	LCD 2073
HPLC 08	x	x	x	x
PLCC 14	x	x	x	x
PLCC 15	x	x	x	x
PLCC 3L	x	x	x	x
MLCC 03	x	x	x	x
ZK 04	x	x	x	x
ZK 05		x		

Please, contact us when you need information about older cells **PLCC 08, 09, 11, 13** and them compatibility.

Please, contact us when you need information about older detectors compatibility with these cells.

Please, contact us when you need detail information about cells parameters, adjustment possibilities and modification possibilities.

EXTERNAL

These cells are connected to the detector by **optical cables with SMA connectors**. Each detector which contains **Ex** in name could be used with these cells.



HPLC 08 EX



PLCC 20