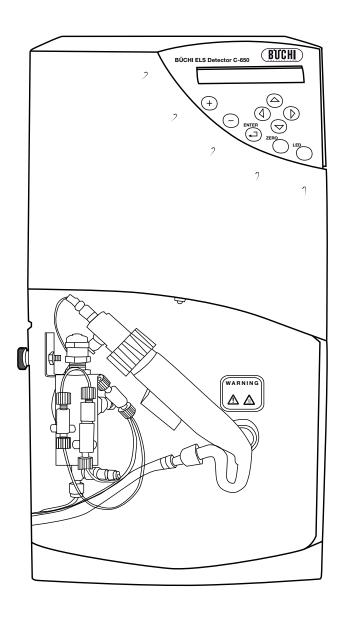


ELS Detector C-650

Technical data sheet

The Evaporative Light Scattering Detector C-650 detects all non-volatile compounds thanks to its low-temperature evaporation technology. It handles any combination of mobile phases and gradients required for efficient and fast separations.



Scope of delivery

Components	Qty
Autozero cable	1
Signal cable	1
RS-232 cable	1
External event cable	1
Gas tubing 6 mm OD	1
Set of fuses	1
Power cable	1
Operation Manual	1

Order code



ELS Detector C-650 115V / 60Hz

ELS Detector C-650 230V / 50Hz

Technical data

Dimensions (WxHxD)	250 x 450 x 550 mm
Weight	18.5 kg
Current consumption	1.8 A for 115V, 1.7 A for 230V
Frequency	50/60 Hz
Overvoltage category	II
Pollution degree	2
Detection	High sensitivity photomultiplier
Light source	Selected high efficiency blue LED
Temperature range	Ambient to 100°C
Gas consumption	< 5 L/min
Eluent flow rate	0.1 to 5 mL/min
Instrument control	Stand alone keypad control or remote control through RS-232
Signal output	0 – 1 V analog or RS-232
Inputs	Remote autozero and remote Power down mode
Power down modes	General, Standby or Cleaning

Accessories

Part	Order number
Splitter kit	11059007
Nebulizer assembly	11059162
Glass nebulization assembly	11059164
Drain assembly	11059239

Functional principle

The C-650 Evaporative Light Scattering Detector detects all non-volatile compounds, including those invisible to UV. There are three different steps in the operation of the detector: nebulization of the eluent, evaporation of the solvent and detection of the compound of interest using a light scattering detection module. It is capable of monitoring flow rates from 0.1 to 5 mL/min.

Detection principle

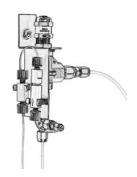


- (1) Nebulization and removal of big droplets
- (2) Evaporation in a heated tube
- (3) Detection using light diffraction

Splitter kit for ELSD

The splitter kit is designed to split the flow coming out of a preparative chromatography column and feed the ELSD with a flow comprised between 0.1 and 5 mL/min. It handles an inlet flow rate up to 250 mL/min and is best integrated with the BUCHI ELSD C-650.

Part	Order number
Splitter kit	11059007



Scope of delivery

The splitter kit is delivered fully mounted and includes the following items:

Components	Qty	Order number
Set of fittings 1/16", 2 pcs	1	44816
Set of 1/16" ferrules, 25 pcs	1	44269
Tube cutter	1	19830
Turix wrench	1	044349
Union adapter 1/4"UNF-28	1	44302
Swagelok ferrule set 1/16"	1	11059072
Swagelok ferrule set 1/8"	1	11059073
FEP capillary, 0.10 mm ID, 100 mm, 5 pcs	1	11059074
FEP capillary, 0.15 mm ID, 100 mm, 5 pcs	1	11059075
Set of frits diam. 6.25 mm, 5 pcs	1	11059076
Instruction leaflet	1	11593451

Functional principle

The flow splitter kit is designed to allow the connection of the ELSD C-650 to a preparative chromatography system. The flow rate entering the ELSD nebulizer must be smaller than 5 mL/min, whatever the flow rate coming out of the preparative chromatography column (≤ 250 mL/min). A pressure relief valve is used to monitor the flow rate going through a restriction capillary. An inline filter is inserted between the valve and the capillary to avoid plugging the capillary.

