



Presenting the **PrinCE-C 700** flexible CE systems

Smart laboratory solutions from Prince Technologies.

At Prince Technologies we've been working hard to provide cutting edge compact instruments to the scientific community. We're proud to present the fully automated PrinCE-C 700 series, powerful integrated Capillary Electro-Chromatography systems, which allow the user more hands off time.

Flexible, modular and suitable for almost any application the PrinCE-C 700 couples to any external CE detectors, including UV/VIS, CD, LIF and or MS without the need for any special tools.

Large buffer vials eradicate the need for a replenishment system reducing down-time, making the PrinCE-C 700 systems unique in the CE field.

Flexible

- Ultra short effective capillary length from 7.2cm
- Outlet end injection
- Sample/buffer cooling to a broad temperature range

Modular

- Suitable for a broad range of applications including (R&D, Food, Forensic, Pharmaceutical and Life Science)
- Choice of 2 types of diode array detectors (512 & 1024)

Practical

- Large sample injection volume
- Dual pressurisation
- Increase analysis time
- Complete temperature control of capillary
- Powerful automated analysis software package
- Unrivalled reproducibility and sample injection

PrinCE-C 700 Series Specifications

Injection Modes

Hydrodynamic injection uses patented Dynamic Compression Injection (DCI) to generate and apply a range of positive and negative pressures with controlled ramping. Electrokinetic injection features controlled ramping in voltage and/or current mode

Duration Up to 650 minutes, 0.01 minutes resolution

Hydrodynamic -180 to 250 mbar, 1mbar resolution

Electrokinetic -30 to +30kV

Modes Current and/or voltage

Ramping Programmable voltage and/or current

Flushing system

Flush range 0 to +2500 mbar, up to 10 bar by external pressure

Features Inlet or outlet and dual pressurisation

Autosampler/fraction collector

User replaceable sample and buffer segments. Automatic randomly optimised choice of positions for inlet and outlet. 30/48 position carousel

Temperature control 4-40°C

Type of vials 300µl inserts, 4ml vials with resealing snap starburst caps including Eppendorf micro centrifuge tubes

Sample volume Minimum 10µl, maximum 4ml

Buffer volume Maximum 4ml

Capillary compartment

Complete temperature control 5°C below ambient up to 60°C

Capillary Standard: minimum effective capillary length 8.5cm, minimum total length 30cm
Optional: minimum effective capillary length 7.2cm, minimum total length 30cm

Integrated detector

Real time UV, VIS NIR diode array detector

PrinCE-C 760 190-610nm (512 diodes)

PrinCE-C 770 190-1010nm (1024 diodes)

Wavelength accuracy < 0.3nm

Repetitive accuracy < 0.1nm

Noise level < 3* 10⁻⁵AU

Integration time 6ms - 10s

DAx 3D

Powerful CE specific data acquisition and data analysis software package. Peak purity comparing spectrum and the end of a peak, Spectrum library search, identification database, combined peak lists different wavelengths, import and export of data and others

Channels Up to 8 channels

Raw data Simultaneously detects signals, pressure, monitor current, outlet electrode current, oven temperature, tray temperature and more

Unique features Current and/or voltage controlled method step durations (for on-line pre-concentration). Positive or negative pressure during electrophoresis. Outlet end injections for samples or reagents. Automatic cross-over

Features Programmable time parameters within each step: start time within the step pressure voltage and/or current ramping to set-point + set-point, external events and extended marker programming

Real time display Inlet, outlet, pressure, voltage, current, methods, external events, oven and tray temperature

Power requirements 115/230V, 50/60Hz, 300VA

Dimensions 61×45×48cm

Weight 45kg