Introducing the **PrinCE Next|870**

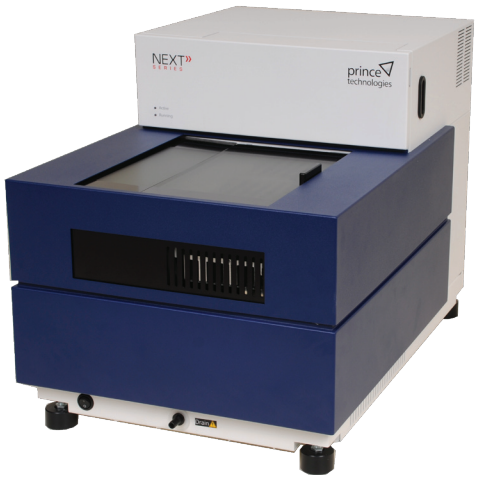
The PrinCE Next|870 is a fully flexible, automated capillary electrophoresis system, comprised of an inlet- and outlet autosampler, integrated DAD and configurable flexible external capillary outlet. The system's DAD 190-610nm can be used simultaneously with a wide selection of external detectors. The system is supplied with a PC, a start-up kit and pre-installed PrinCE Next Clarity software for data-acquisition and analyses. It is designed for easy, user-friendly operation with fast and reliable precision for routine analyses as well as method development.

Features

- User configurable multi effective capillary length
- User replaceable sample and buffer trays
- Pressure injection from 96 well plate
- Ultra short capillary length to external detectors
- High pressure up to 10bar by gas cylinder at one or both capillary ends
- Ability to perform fraction collection under precisely controlled circumstances
- Sufficient capillary compartment space for external remote detector cells, giving you a whole new range of research possibilities
- Allows robotic arms to operate the unique designed sliding door as well as load and unload well plates for unattended operation
- High performance capillary cooling with high air flow speed
- Full temperature control of sample and buffer cooling during injection and analyses
- Broad range of accessories and consumables
- Regulatory compliance tools (optional)

PrinCE Next|870's analytical abilities allow you to perform both complex and routine analysis for environmental, forensic, pharmaceutical, food safety and life sciences and, let you separate, identify and quantify from the smallest ions to larger molecules.

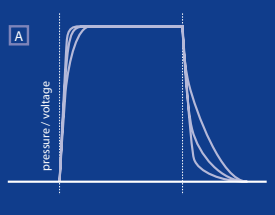
The after sales support offered by Prince Technologies is uniquely dedicated and as flexible as our technology itself.



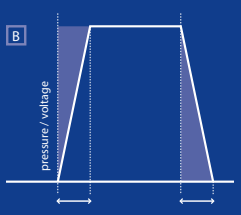
Automated Sample Injection System
The most accurate and reliable injection unit on the market, based on our Dynamic Compression Injection (DCI) technology.

Whereas other systems suffer from variations in pressure and voltage during the injection process, our DCI system offers a precise, reliably controlled application environment.

The visible advantage (pressure/voltage over time):



Other systems produce variable and unpredictable voltage / pressure curves.



Our system offers accurate, reproducible precision every time.

NEXT SERIES

Leaders in Capillary Electrophoresis Technology

Technical Specifications PrinCE Next|870

Injection Modes			
Hydrodynamic	-230 to 300mbar, 1mbar resolution		
Electrokinetic	-30 to +30kV		
Modes	Current, voltage and/or power		
PrinCE Next Dynamic Compression Pressure Injection System			
Flush range	0 to +3500mbar on inlet or dual pressurisation. Up to 10bar by external pressure		
Repeatability of injected	< 1.0% RSD (n> 10, based on area response of injected analytes measured under electrophoretic conditions)		
Autosampler			
Inlet Tray	Buffer: 50 positions. Sample: 50 positions or optional 96 well plate with 96 well plate adapter		
Type of vials	300µl inserts, 2ml vials with resealing snap starburst caps. 96 well plate with foil		
Inlet Buffer Temperature range	17 – 40°C		
Sample Temperature range	4 – 55°C		
Outlet	20 positions		
Capillary Oven Compartment			
Temperature range	4 – 55°C		
Capillary cassette	Flexible capillary length and diameter depending on application or configuration. Capillary O.D. 200 - 365µm.		
PrinCE Next Clarity DAD			
Diagnostic functions	Lamp with timer and maintenance notification.		
DAD channels	Up to 8 channels (simultaneously)		
Readouts	Pressure, Inlet Current, Outlet Electrode Current, Power, Voltage, Inlet Buffer Temperature, Sample Temperature, Capillary Temperature and others (simultaneously)		
Features	Time programmable parameters within each step: Start time within the step. Pressure, Voltage, Current and/or Power ramping to setpoint, programmable relay outputs and programmable I/O's		
Real time display	Inlet, Outlet, Pressure, Voltage, HVPS Current, Outlet Electrode Current, Power, Methods, Inlet Buffer Temperature, Sample Temperature, Capillary Temperature and DAD settings		
On Board Detector	Real time UV/VIS diode array detector		
Wavelength	190 – 610nm (512 diodes)	Wavelength accuracy	< 0.3nm
Repetitive accuracy	<0.1nm	Noise level	< 3.10-5AU
Integration time	6ms – 10s		
Weight	42.5kg	Dimensions (W x H x D)	43 x 48 x 66cm
Line voltage	115/230V	Line frequency	50/60Hz

Ordering Information

Part No.	Model	Description
0005.550	PrinCE Next|870 (230V)	PrinCE Next CE with integrated DAD detector 190-610 nm, temperature controlled inlet autosampler 50/96* sample and 50 buffer positions, outlet autosampler 20 buffer positions, temperature controlled capillary compartment, HVPS, selectable external pressure (up to 10bar), pre-installed PrinCE Next Clarity DAD software, PC and a start-up kit
0005.555	PrinCE Next|870 (115V)	PrinCE Next CE with integrated DAD detector 190-610 nm, temperature controlled inlet autosampler 50/96* sample and 50 buffer positions, outlet autosampler 20 buffer positions, temperature controlled capillary compartment, HVPS, selectable external pressure (up to 10bar), pre-installed PrinCE Next Clarity DAD software, PC and a start-up kit

** Optional*

We reserve the right to alter the specifications of the instruments without prior notice.

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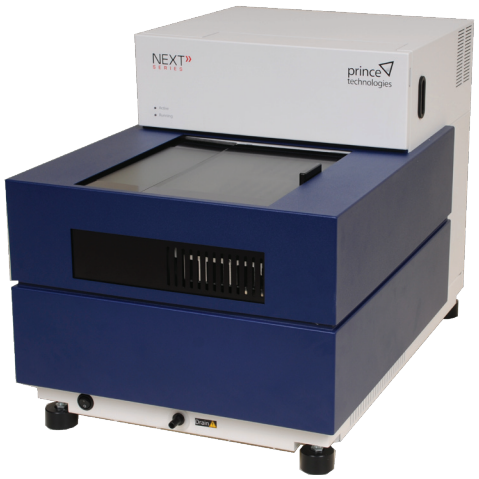

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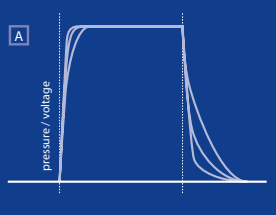

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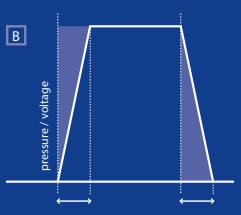

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Part No.	Model	Description
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0005.556	PrinCE Next|870 (Clarity Advanced, 115V)	PrinCE Next CE with integrated DAD detector 190-610 nm, temperature controlled inlet autosampler 50/96* sample and 50 buffer positions, outlet autosampler 20 buffer positions, temperature controlled capillary compartment, HVPS, selectable external pressure (up to 10bar), pre-installed PrinCE Next Clarity DAD Advanced software, PC and a start-up kit

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