


# Intensify your downstream process

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ÄKTA pcc

ÄKTA pcc 75 chromatography system

ÄKTA™ pcc 75 allows for purification of your target molecule in a continuous bioprocess using periodic counter-current chromatography (PCC). Continuous chromatography enables maximized use of the potential of your chromatography resin at a minimized system footprint. Continuous chromatography is especially suitable for purification of unstable molecules, as the short process time helps ensure stability of your target product. ÄKTA pcc 75 is based on the well-established ÄKTA platform of chromatography systems designed to simplify system interaction and operational handling. ÄKTA pcc 75 can be connected as an integral unit in a process workflow from upstream to downstream operations, enabling continuous biomanufacturing.

"ÄKTA pcc 75 allows for a wider exploration of continuous processing options for antibody and recombinant protein molecules."

"ÄKTA pcc 75 is currently implemented with process analytical tools in laboratory scale to increase chromatography productivity and ensure process robustness. We are keen to evaluate scale-up of this technology!"

*Rebecca Chmielowski*  
Associate Principal Scientist  
Biologics Process Development  
and Engineering, Merck & Co. Inc

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## Productive

ÄKTA pcc 75 can contribute to increased productivity by maximizing use of resin potential as well as reducing system footprint and buffer consumption compared with a batch process.

## Stable

The dynamic control functionality enables a stable process performance even under changing conditions, for example, due to variable feed concentrations or chromatography resin lifetime effects.

## Scalable

ÄKTA pcc 75 enables scalable processes, from process development to manufacturing scale. Process scale PCC systems are available as custom instruments.

## Proven

ÄKTA pcc 75 is based on the well-established ÄKTA chromatography platform operated through the UNICORN™ system control software.

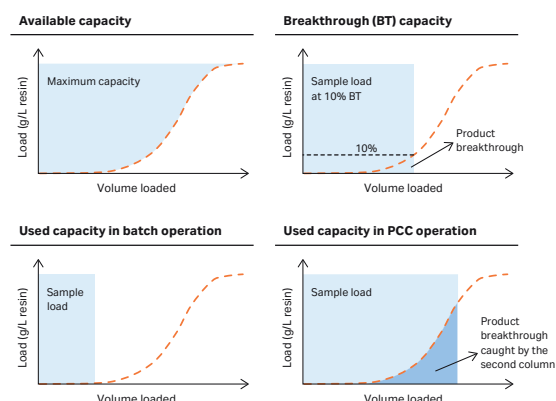
### Key technical features of ÄKTA pcc 75 include:

- Support of three (3CPCC) and four (4CPCC) column operations
- Trend curves allows for instant process understanding
- Interactive process picture highlights status of columns and run at all times
- Flow rate range from 0.5 to 75 mL/min
- Maximum operating pressure of 20 bar
- Integrated pH and conductivity monitors and UV detectors to enable real time monitoring and control of the process (UV detector with a 0.4 mm flow cell path length is available for samples higher in titer or background)

## Ordering information

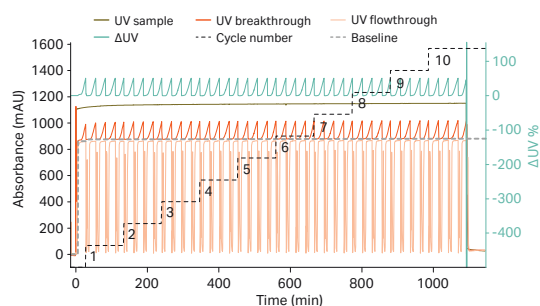
ÄKTA pcc 75 is offered through direct sales as custom systems. For quotes or more information, please contact your local sales representative.

## Maximized use of chromatography resin capacity



Schematic break-through curves in different chromatography setups.

## Consistent performance over multiple cycles



Chromatograms from 10 cycles on three protein A (MabSelect SuRe™ pcc) resin columns in a 4CPCC setup.

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