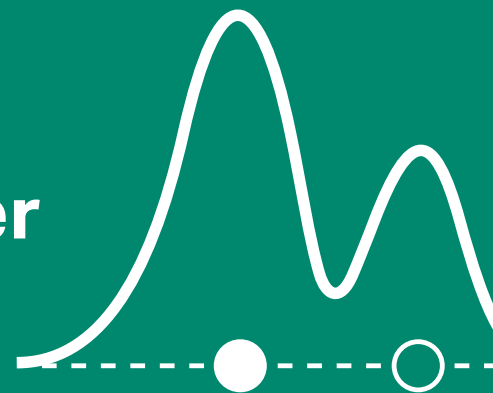


Comparison between ÄKTA avant, ÄKTAexplorer, ÄKTA pure, and ÄKTApurifier



		ÄKTA™ avant	ÄKTAexplorer	ÄKTA pure	ÄKTApurifier
Pumps					
Flow rate range	Low flow	0.001–25 mL/min	0.001–10 mL/min	0.001–25 mL/min	0.001–10 mL/min
	High flow	0.01–150 mL/min	0.01–100 mL/min	0.01–150 mL/min	0.01–100 mL/min
Flow rate range, gradients	Low flow	0.25–25 mL/min	0.25–10 mL/min	0.1–25 mL/min	0.1–10 mL/min
	High flow	1–150 mL/min	0.5–100 mL/min	0.5–150 mL/min	0.5–100 mL/min
Max. flow rate, sample pump	Low flow	50 mL/min	10 mL/min	50 mL/min	10 mL/min
	High flow	150 mL/min	50 mL/min	150 mL/min	50 mL/min
Max. flow rate, column packing	Low flow	50 mL/min	10 mL/min	50 mL/min	10 mL/min
	High flow	300 mL/min	100 mL/min	300 mL/min	100 mL/min
Max. pressure	Low flow	20 MPa	25 MPa	20 MPa	25 MPa
	High flow	5 MPa	10 MPa	5 MPa	10 MPa
Max. pressure, sample pump	Low flow	10 MPa	2 MPa	10 MPa	2 MPa
	High flow	5 MPa	2 MPa	5 MPa	2 MPa
Automatic pressure flow control		Yes	No	Yes	No
Valves					
In-line buffer preparation		Yes (BufferPro)	Yes (BufferPrep)	No	Optional (BufferPrep)
Number of buffer inlets		18 (optionally up to 32)	11	2 (optionally 4 or 14)	2 (optionally 4 or 11)
Number of sample inlets		7 (optionally 14)	7	Optionally 1 or 7	Optionally 1 or 7
Number of extra inlets		Optionally up to 16	Optionally up to 16	Optionally up to 16	Optionally up to 16
Number of column positions		5 (optionally 10)	7	1 (optionally 5)	1 (optionally 7)
Integrated column bypass and reverse flow		Yes	Yes	Optional	Optional
Number of outlets (incl. fraction collector and waste)		12 (optionally 23 or 34)	8	Optionally 3 or 12	Optionally 2 or 8
Loop valve (enables multi-step purification)		Optional	No	Optional	No
Versatile valve (high flexibility in configurations)		Optionally 4	No	Optionally 4	No

	ÄKTA™ avant	ÄKTAexplorer	ÄKTA pure	ÄKTApurifier
Detectors and sensors				
Automatic bypass of pH electrode and flow restrictor	Yes	No	Optional	No
In-line calibration and storage of pH electrode	Yes	No	Optional	No
Number of conductivity monitors	1 (optionally 2)	1	1	1
Number of UV detectors	1 (optionally 2)	1	1 (optionally 2)	1
Automatic UV cell identification	Yes	No	Yes (for U9-M)	No
Integrated air sensors in inlet valves	Yes	No	Optional	No
External air sensors	Optionally 1	Optionally 3	Optionally up to 4	Optionally up to 3
Precolumn pressure	Yes	No	Yes	No
Delta column pressure	Yes	No	Optional	No
Fraction collectors				
Number of fraction collectors	1 (optionally 2)	Optionally 1	Optionally 2	Optionally 1
Cooled fraction collector	Yes	No	No	No
Automatic identification of rack type	Yes	No	Optional	No
Software				
Drag-and-drop method creation	Yes	No	Yes	No
Interactive process picture	Yes	No	Yes	No
Single-click evaluation	Yes	No	Yes	No
Predefined methods for Cytiva's columns	Yes	Yes	Yes	Yes
Design of experiments	Yes	No	Optional	No
Tracking of column history	Yes (Column Logbook)	No	Optional	No
Database storage	Yes	No	Yes	No
External equipment interface	Optional	Optional	Optional	Optional

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