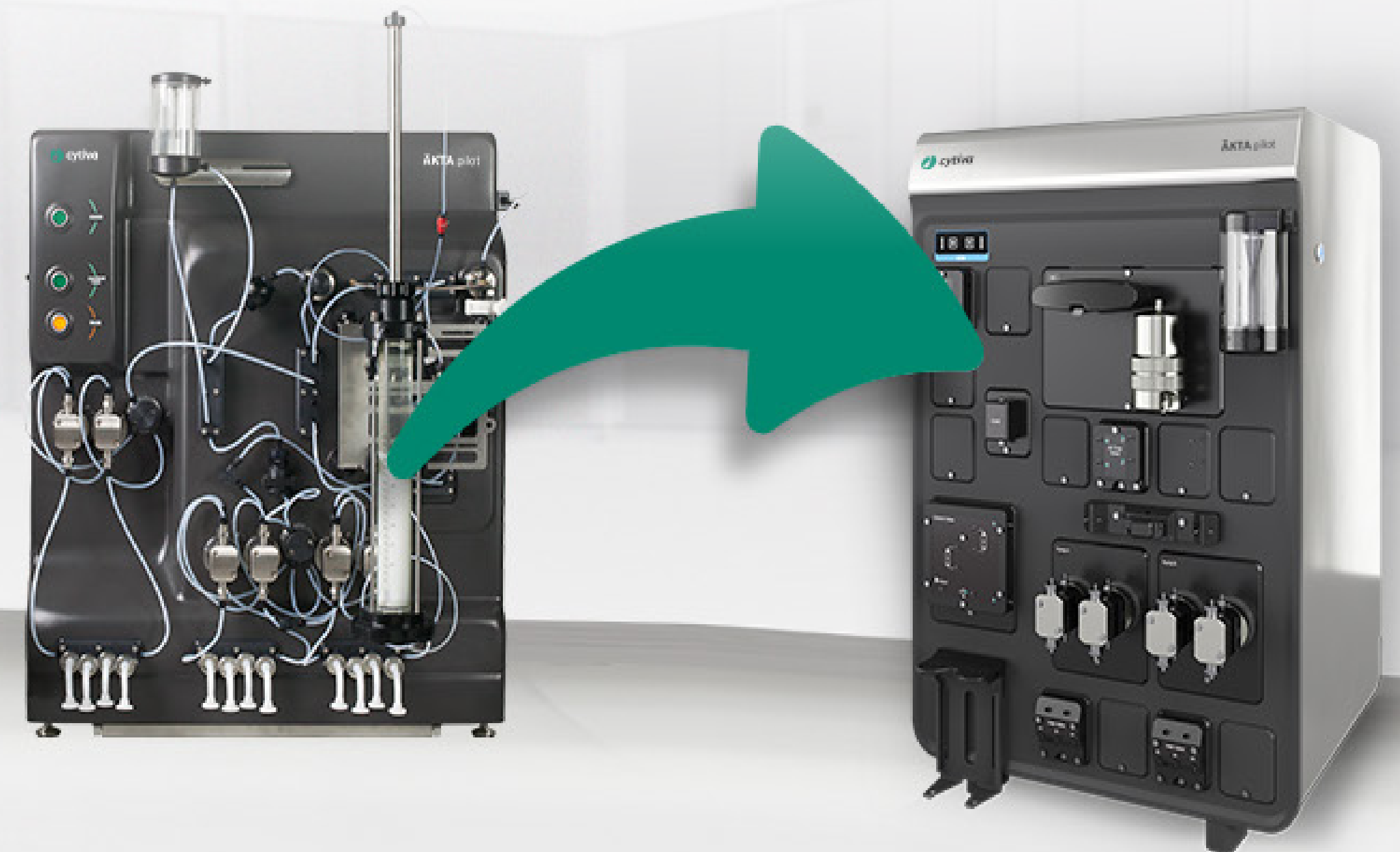


Selection guide

Comparison: ÄKTA pilot 600 vs ÄKTApilot chromatography system



Comparison: ÄKTA pilot 600 vs ÄKTApilot system

Scaling down size, scaling up capabilities

	ÄKTA™ pilot 600	ÄKTApilot™
Flow rate (mL/min)	4–600 (in gradient mode) 1–1200 (in isocratic mode)	4–400 (in gradient mode) 1–800 (in isocratic mode)
Weight (kg)	77–83 (depending on configuration)	114 kg (monitor arm not included)
Footprint (mm)	575 × 440	750 × 540

Bridging transitions from non-GMP to GMP

	ÄKTA pilot 600S*	ÄKTA pilot 600R*	ÄKTApilot
Sanitizable	Yes	Yes	Yes
Material qualities	USP<88>Class VI, CFR part 177, Free from animal-derived components or compliance with EMA 410/01, Rev 3		USP<88>ClassVI
IQ/OQ documentation	Yes	Yes	Yes
Configurations and documentation	<ul style="list-style-type: none">Standard configurationAdditional functionality ordered in parallel, or when neededGeneric product documentationValidation services available	<ul style="list-style-type: none">Configured at point of orderSystem mounted, calibrated, and tested prior to deliveryConfiguration specific, ASME-BPE complying documentation for GMPValidation and change notification services availableCustom upgrade kits including certificates and updated documentation	<ul style="list-style-type: none">Standard configurationUp to six external valve blocks can be ordered separatelyValidation services available
System design	<ul style="list-style-type: none">Smooth surfaceOne functional sideModular design. Modules not in use can be disconnected to simplify sanitization procedures. Clear distinction between wetted and functional parts.		<ul style="list-style-type: none">Smooth, but lacquered, surfaceSeveral functional sidesNot modular
Connectors	<ul style="list-style-type: none">Novel SNAP connector to speed up exchange of tubingEasily adapted to, for example, TC connector on both inlet and outlet		<ul style="list-style-type: none">Screw connectors precut with molded ends and O-ring sealsTC connectors on inlet

* ÄKTA pilot 600 is available in two versions. ÄKTA pilot 600S is suitable for non-GMP environments and 600R is suitable for GMP environments. Both versions can be modified to fit specific needs thanks to the modular design.

Flow accuracy and gradient performance

	ÄKTA pilot 600	ÄKTApilot
Flow rate accuracy (%)	< ±2% in the range 1–1200 mL/min	< ±2% (4–400 mL/min, 0.1–2 MPa)
Viscosity (cP)	Max. 10	Max. 5
Hold-up volume	30 mL	31 mL
Restrictor	Yes <ul style="list-style-type: none">– Improved gradient performance at low flow rate– Optimized siphoning– Optimized for minimal carryover from A to B	No
Mixer	Optional <ul style="list-style-type: none">– 5 mL mixer and mixer valve, possible to bypass	Yes <ul style="list-style-type: none">– 5 mL mixer
Air trap	Yes <ul style="list-style-type: none">– Improved manual handling– Improved software support for filling/draining– Improved mixing	Yes <ul style="list-style-type: none">– Manual handling
Sample application	<ul style="list-style-type: none">• Optimized flow path to reduce tubing length• A-inlet and system pump for loading directly onto the column• Air trap and mixer (optional), inline or bypassed• Superloop™ 150 for small sample volumes	<ul style="list-style-type: none">• Separate sample pump• A-inlet for loading through air trap
Fraction collection	<ul style="list-style-type: none">• Up to 15 outlets in chassis• Improved software support for outlet fractionation• Optimized volumes, automatic delay volume handling, combined straight- and peak fractionation and phase independency	<ul style="list-style-type: none">• Up to 22 outlets with external valve blocks• Compatible with Frac-950 (discontinued) up to 100 mL/min
Inlets	Total number of inlets: 15 (12 for ÄKTA pilot 600R) 9 combined A-inlets and sample-inlets (3 A-inlet valves) 6 B-inlets (2 B-inlet valves)	Total number of inlets: 24 (including external valve block) 4 to 8 A-inlets 4 to 8 B-inlets 4 to 8 sample inlets (Max numbers if external valve block is included)
Max. number of outlets	15	8 included, 22 with external valve block

Column packing and column life cycle management

	ÄKTA pilot 600	ÄKTApilot
Column valve	1 multi-functional valve <ul style="list-style-type: none">– 2 columns– 2 columns in series– Intelligent packing functionality	3 valves <ul style="list-style-type: none">– 2 columns or Intelligent packing functionality
Intelligent packing support	Yes <ul style="list-style-type: none">– Dedicated AxiChrom™ column packing port on the column valve– Interactive graphical packing workflows in UNICORN™ software	Yes (limited compared to ÄKTA pilot 600 support)
General column packing support	<ul style="list-style-type: none">• Integrated column performance test in UNICORN• Column logbook to store and track packed columns	Limited support for UNICORN versions 6 or higher

Sensors at a glance

	ÄKTA pilot 600	ÄKTApilot
Air sensors	One built-in, precolumn Optional: 4 external air sensors for inlets	One external, to place on optional inlet
Precolumn conductivity monitor	Optional	No
UV detection	UV cells: 2 or 5 mm <ul style="list-style-type: none">– Easily changed– Automatic reading of cell length, factory calibrated– Automatic compensation for cell length	UV cells: 1, 2, or 5 mm <ul style="list-style-type: none">– Changeable with shim plates
pH monitor	Optional <ul style="list-style-type: none">– Calibration in-line– Improved electrode with lower salt memory effect	Included <ul style="list-style-type: none">– Calibration off-line

Learn more about ÄKTA pilot 600.

cytiva.com/aktapilot600

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CY16043-10Dec20-SG

