

ÄKTA oligosynt™ vs ÄKTA™ oligopilot plus oligonucleotide synthesizer



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Small footprint, larger range

	ÄKTA oligosynt™ synthesizer	ÄKTA™ oligopilot plus synthesizers
Footprint (W × H × D)	<ul style="list-style-type: none">• 535 × 630 × 470 mm Excludes space required for amidites and reagents• 700 × 630 × 540 mm Fully equipped	<ul style="list-style-type: none">• 450 × 610 × 480 mm Excludes space required for amidites and reagents
Weight	64 kg (fully equipped)	63 kg
Nominal synthesis scale	10 µmol to 12 mmol	<ul style="list-style-type: none">• ÄKTA™ oligopilot plus 10: 10–50 µmol• ÄKTA™ oligopilot plus 100: 50 µmol to 9 mmol
Flow rate	300 mL/min (two pumps)	<ul style="list-style-type: none">• ÄKTA™ oligopilot plus 10: 20 mL/min (two pumps)• ÄKTA™ oligopilot plus 100: 200 mL/min (two pumps)
Amidite inlets	16	12
Column positions	5	7
Reagent and solvent inlets	14	11
Waste outlets	11	8
Maximum operating pressure	25 bar g	20 bar g

Interactive user interface and method editing

	ÄKTA oligosynt™ synthesizer	ÄKTA™ oligopilot plus synthesizers
Control software	UNICORN™ 7.8 or higher	UNICORN™ 5
Process picture	<div>Extended interactivity<ul style="list-style-type: none">• Highlights the most important data and allows access to necessary functionality• Improved overview of flow path</div>	Limited interaction
Method creation	<div>Sequence editor<ul style="list-style-type: none">• Copy-and-paste sequence function for easy transfer</div>	<div>Sequence editor<ul style="list-style-type: none">• No copy-and-paste sequence function</div>
Method editing	<div>Text editing and phase editor<ul style="list-style-type: none">• User-friendly interface• Single cycle optimization• Ability to create and save user-defined phases and reuse parts of methods</div>	Text editing and variable list only

Robust process control

	ÄKTA oligosynt™ synthesizer	ÄKTA™ oligopilot plus synthesizers
Sensors	<ul style="list-style-type: none">• Conductivity• UV• Pressure• Air• Temperature• Pre-column temperature and conductivity (optional)	<ul style="list-style-type: none">• Conductivity• UV• Pressure
Method overview	Improved transparency with fewer macros	Complicated, hard-coded macros
Data collection	Up to 180 000 data points	Up to 16 000 data points
Data handling	Database storage <ul style="list-style-type: none">• Easier cross-analysis; easier data handling	File-based data storage

Flexible system design

	ÄKTA oligosynt™ synthesizer	ÄKTA™ oligopilot plus synthesizers
System module access	Open front allows easy access to system modules and supports full ventilation	Enclosed system modules
Flow path	One wet side supports optimized flow path and hold-up volume <ul style="list-style-type: none">• Limits the dilution of amidites• Reduces use of reagents and solvents, supporting future scale-up requirements	Two wet sides and fewer inlets
Bottle holder	Bottle holders on system rails; space for up to 16 amidite bottles up to 900 mL	Bottle sliders: space for up to 12 amidite bottles up to 100 mL
System components	Same verified and standardized components used in our ÄKTA™ chromatography systems. Supports faster service and easy access to components.	Ageing system components
Optional modules	Options include: <ul style="list-style-type: none">• Loop valve to connect multiple heat exchangers• Pre-column conductivity monitor with built-in temperature sensor• Connection of external flow meter and external sensors through the I/O-box	None
Recirculation	Yes	Yes

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