

# Preventive maintenance

Ensure optimal performance of your ÄKTA process™ system

Preventive maintenance (PM) reduces the risk of unexpected breakdowns, helps keep your schedule on track, and ensures your equipment is performing according to specifications. PM is built into our equipment design process for long-term reliability and backed by extensive global experience. Our certified service engineers are trained to deliver expert PM tailored to your system. On completion, we provide detailed service reports for full traceability.

## Comprehensive system assessment

During PM, our qualified engineers perform comprehensive tests and verifications to ensure your ÄKTA process™ system meets original factory specifications. They replace components below using quality parts from Cytiva. These procedures are based on protocols optimized during system design and reflect the same functional and quality checks applied during assembly and pre-delivery validation.

### Tests and inspections

Flow meter test	Valve test(s): inlet, sample, column, outlet, air trap, cleaning in place
Pump capacity test(s)	
Pressure meter test	Pressure control valve test
Air sensor test	Buzzer test
Temperature sensor test	Cabinet air filter
Conductivity meter test	Mechanical inspection and process line
UV meter test	Hydrostatic leakage test
Re-certification linearity calibration unit	Level sensor test
pH meter test(s)	Stack light test
Emergency stop test	Filter and airtrap inspection
PC battery test	Final test



Fig 1. ÄKTA process chromatography system.

### Parts replaced

O-ring pressure sensor flow cell	Valve block o-rings
O-ring kit conductivity flow cell	PCV diaphragms
O-ring kit UV flow cell	Pump wear and tear kits
O-ring kit air trap	Drive element lubricant in pumps
O-ring kit pH flow cell	Cabinet air filters
Valve diaphragms	All process line gaskets

**Note:** Parts replaced during preventive maintenance may vary from model to model. If your system is not covered by a Cytiva service agreement, any part replaced other than a wear part will incur additional charges.

## Documentation

We provide a standardized set of documentation and test results after each service or repair. This ensures full traceability, saves time, reduces costs, and supports compliance in regulated environments. Our service engineers document every PM visit and issue a service report upon completion.

## Frequency

System usage	Type of PM visit
Normal usage: up to 2000 hours per year	One comprehensive PM visit the year after warranty expiration, and one basic PM visit the following year (repeat cycle every two years)
High usage: 2000 to 4000 hours per year, or use with aggressive solvents	One visit annually
Continuous usage: more than 4000 hours per year	Two visits annually

**Note:** Your service team can advise on the right frequency for you.

## What we do and why it matters

Main components	Outcomes
Functional testing, inspections, and calibration	Ensures reliable accuracy of testing data and system functionality.
Wear-and-tear replacement	Minimizes unexpected failure risk. Extends the life of your equipment.
Exchange of all elastomers in contact with process fluid	Minimizes contamination risk due to leakage to ensure high quality end product for human use.
As-found/as-left testing	Ensures evidence equipment runs according to specifications after completion.
Documentation	Signed service report after completion.

## An integral part of our service plans

To maintain consistent system performance of your ÄKTA process system, PM is included in all our service agreements.



Extended  
life cycle



Service  
traceability



Maximized  
productivity

Learn more about how our service agreements can support your operations at [cytiva.com/equipment-services](https://www.cytiva.com/equipment-services)

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