

# Preventive maintenance

Ensure optimal performance of your ÄKTA flux™ system

Preventive maintenance (PM) reduces the risk of unexpected breakdowns, helps keep your schedule on track, and ensures your equipment remains properly calibrated. 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 flux™ system meets original factory specifications. They replace any necessary components 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

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Pump flow rate test
Pressure sensor test
Temperature sensor test
Valve test
Software check, including software updates for non-validated instruments
Load cell test
Mixer test
Mechanical inspection
User interface functional test

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Fig 1. ÄKTA flux s system.



### Parts replaced

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Feed pump
Peristaltic tubes
Exchange of wear-and-tear kit
Valves
Tank air filter
Sanitary clamp gaskets (ÄKTA flux 6 system)
Valve diaphragms
Tygon tube kit (ÄKTA flux s system)
Pressure sensor diaphragms
Optional pumps
Mixer stirrer

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## 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 PM visit every second year
High usage: 2000 to 4000 hours per year, or use with aggressive solvents	One PM visit annually
Continuous usage: more than 4000 hours per year	Two PM visits annually

## 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 equipment runs according to specifications after completed PM.
Documentation	Enables traceability with signed preventative maintenance service report upon completion of PM.

## An integral part of our service plans

To maintain consistent system performance of your ÄKTA flux 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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CY12072-28Nov25-FL

