

# Preventive maintenance

Ensure optimal performance of your ÄKTA ready™ 450 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 ready™ 450 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

Valve test (inlet, air trap, column, outlet)

Pressure meter test

Conductivity meter test

pH meter test

UV meter test

Flow meter test

Temperature test

Pump test

Air sensor test

Mechanical inspection

Safety tests

Final inspection



Fig 1. ÄKTA ready 450 system.

## Parts replaced

Air filter

Lamp assembly complete

Shaft-bearing cap unit

**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 visit every second year
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

## 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.
Documentation	Signed service report after completion.

## An integral part of our service plans

To maintain consistent system performance of your ÄKTA ready 450 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://cytiva.com/equipment-services)

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