



OptiRun™

service solutions

Secure continuous performance of your ÄKTA™ pilot 600R system with preventative maintenance



Peak performance and compliance are important for your bioproduction workflow. Preventative maintenance (PM) is critical to optimal outcomes and reduces the likelihood of unexpected breakdowns while maintaining schedule and product quality.

It keeps your equipment properly tuned and provides PM service reports upon completion. At GE Healthcare Life Sciences, PM is also an integral part of the design process. You benefit from our global experience maintaining thousands of Life Science systems. Designing and servicing complex bioprocess equipment requires deep understanding of both the process and the science behind it. GE Healthcare service engineers are trained and certified to perform PM on your 600R.

GE Healthcare Life Sciences PM supports your bioproduction needs.

Main components of PM	Outcomes you can expect from PM
Functional testing, inspections, and calibration	Ensure reliable accuracy of testing data and system functionality; extend the life of your 600R production system
Wear and tear change	Minimize unexpected failure risk; extend the life of your equipment
Exchange of all elastomers in contact with process fluid	Minimize contamination risk due to leakage to ensure a high quality product for human use
As found as left testing	Ensure evidence equipment runs according to specifications after completed PM
Documentation	Signed preventative maintenance service report upon completion of PM; enable traceability

Extensive testing and inspections

During preventative maintenance, our qualified engineers run an extensive set of tests and verifications to keep your equipment to factory specifications and replace any necessary components using quality parts from GE Healthcare. These tests were designed and optimized throughout the development of the equipment and reflect functional tests performed during assembly, as well as quality tests performed prior to delivery to your site.

Extensive set of tests and inspections	
Initial performance test	Pressure pulsation test
Air sensor test	System backpressure test
Air Trap leakage test	System leakage test
Valve test (air trap)	UV monitor test
Valve test (column)	Conductivity monitor test
Valve test (inlet)	Mixer module test <i>(optional module)</i>
Valve test (outlet)	Valve test <i>(mixer, optional module)</i>
Pressure sensor test	pH module test <i>(optional module)</i>
Check valve test	Final performance test

Quality parts replaced during PM	
Restrictor inserts	Pump rinse diaphragm
Pump seals	Valve membranes (inlets, air, column, outlets and any <i>optional modules</i>)
UV lamp	Mixer O-ring <i>(optional module)</i>
O-rings used in the air trap valve	O-ring pH module <i>(optional module)</i>
Pressure sensor O-rings	Mixer stirrer <i>(optional module)</i>
All O-rings used in the air trap	

Note: optional modules will depend on the configuration of your system

Documentation

GE Healthcare provides a standardized set of documentation and test results after the service or repair. This saves time, reduces costs, and supports compliance when working in a regulated environment. The service engineer documents each PM visit and provides a service report upon completion.

PM interval

Our standard recommended PM frequency for BioProcess™ systems varies with usage:

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 of aggressive solvents	One comprehensive PM visit annually
24/7 USAGE: More than 4000 hours per year	Two comprehensive PM visits annually

Note: A basic system PM includes replacement of only valve membrane kit, restrictor inserts and pump seal.

PM, an integral part of our service agreements

To ensure the continued performance of your system, we build preventative maintenance into all our service agreements. Go to gelifesciences.com/service to learn more about our OptiRun service agreements.

For more information, or to schedule a preventative maintenance visit: gelifesciences.com/service

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A copy of these terms and conditions is available on request. Contact your local GE Healthcare representative for the most current information.

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