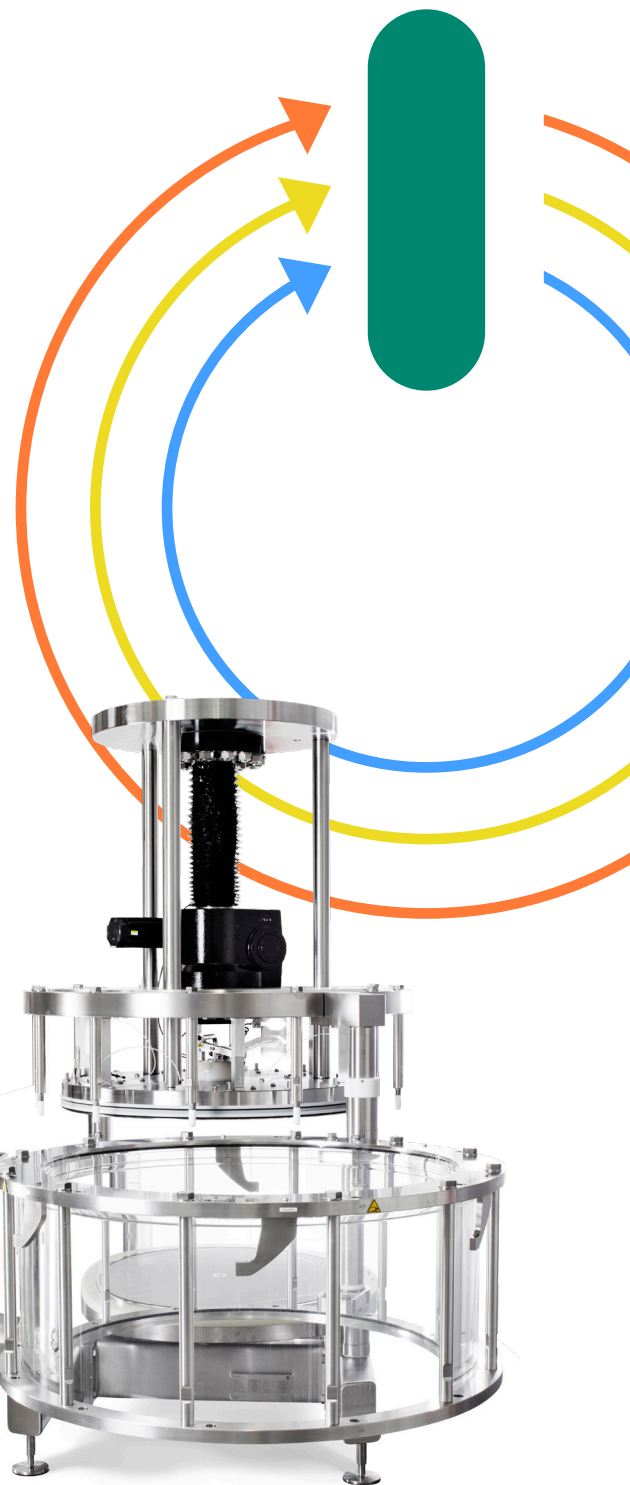


OptiRun Service Solutions

Ensure continuous performance from your AxiChrom™ columns with preventive maintenance (PM)



**OptiRun™
LifeCycle**



**Service
traceability**



**Maximized
productivity**

Cytiva integrates PM into the design process when developing equipment. Planned PM visits maximize uptime, and they are more cost-effective and predictable than ad hoc repairs. We leverage global experience maintaining thousands of bioreactors to optimize PM procedures that protect your AxiChrom columns performance, as well as your outcomes and schedule.

Cytiva PM supports your bioprocess needs

Main components of PM	Outcomes you can expect from PM
Functional testing and inspections	Restore equipment to factory standards to ensure accurate results and reliable functionality
Wear and tear change	Minimize unexpected failure risk and extend the life of your AxiChrom column
Exchange of all elastomers in contact with process fluid	Control leakage and contamination risk to ensure a high-quality product for human use
Documentation	Signed preventative maintenance service report upon PM completion to enable traceability

Comprehensive testing and inspections

During PM, our trained service engineers run tests and verifications to identify and make necessary replacements and ensure your equipment performance meets our factory standards. We designed and optimized these tests throughout product development. They reflect functional tests performed during equipment manufacture and before delivery to your site.

During the PM visit, our service engineers perform a comprehensive set of tests and inspections. These typically include:

AxiChrom tests and inspections

Pressure test

Leakage test

Valve test (if applicable)

Mechanical inspection

Cleaning

Parts replacement during a PM visit vary based on equipment configuration. They typically include:

Quality parts replaced during PM

PPMA Column

O-rings used in:
- Top inlet
- Adaptor plate
- Bottom plate
- Resin valve

Scrapers

- Bed support adaptor
- Bed support bottom

Snap ring

Bed support adaptor

Bed support bottom*

SS Column

O-rings used in:
- Top inlet
- Adaptor plate
- Bottom plate
- Resin valve

Plastic bed supports are included. Stainless steel bed supports are optional and can be included depending on your needs.



Documentation

The service engineer will document each PM visit and provide you with a service report upon completion. Documenting PM visits supports the validation life cycle process.

PM schedule

We recommend PM frequencies for AxiChrom columns based on:

PM usage	PM interval
Normal to high usage (<4000 hours/year)	One PM visit every two years
Continuous usage	One PM visit annually

Our service team can advise on the best frequency for your level of usage.

PM, an integral part of our service agreements

To ensure the continued performance of your system, we build PM into all our service agreements.

Service agreements ensure:

- Confidence in the accuracy of your results with regularly scheduled service
- Predictable ownership costs – rates are guaranteed for the duration of the agreement
- Minimal disruption with priority response from our trained service engineers
- Timely access to secured, product-specific wear parts to maximize uptime

For more information, visit cytivalifesciences.com/optirunservice or to schedule preventive maintenance, visit cytivalifesciences.com/optirunpreventive.

cytiva.com

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CY12363-06Oct20-PA

