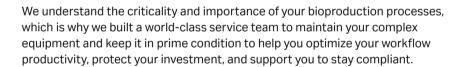
# OptiRun™ Service solutions

Ensure optimal performance of your Allegro™ STR system with a preventive maintenance







Regular preventive maintenance (PM) is critical to optimal outcomes and reduces the likelihood of unexpected breakdowns thus minimizing downtime, while maintaining schedule and product quality. Additionally, it minimizes unexpected costly failures, and ultimately prolongs your equipment's lifecycle.

Our service engineers are trained, certified, and experienced with deep knowledge and understanding to take complete care of your Allegro $^{\text{TM}}$  STR system.



**Extended lifecycle** 



Service traceability



**Maximized productivity** 

## Cytiva PM supports your bioproduction needs.

Main components of PM	Outcomes you can expect from PM
Functional testing, inspections, and verification	Ensure reliable accuracy of testing data and system functionality
Wear-and-tear change	Minimize unexpected failure risk; extend the life of your equipment
As-found/as-left testing	Ensure evidence equipment runs according to specifications after completed PM
Documentation	Enable traceability with signed preventive maintenance service report upon completion of PM



# **Comprehensive testing and inspections**

During preventive maintenance, our qualified engineers run necessary tests and verifications to keep your equipment to factory specifications and replace any necessary components using quality parts from Cytiva. 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.

#### Comprehensive set of tests and inspections

#### Functionalit verification

System start-Up

**Emergency stop functionality** 

Pressure transmitter functionality check and verification

Bio container over pressure functionality and measurement

 $\mbox{Air}/\mbox{CO}_2$  evacuation and gas overlay mass flow measurement

Air, CO<sub>2</sub>, O<sub>2</sub> and N<sub>2</sub> mass flow measurement

Visual inspection of pumps and rotational speed verification

Exhaust filter heater temperature measurement

Weigh frame/load-cell functionality and measurement

Interlock microswitch functionality

Agitation rotation speed measurement and direction

Level sensor functionality checks (if applicable/equipped)

Temperature control unit (TCU) filter clean and check (Lauda TCUs only)

Dissolved oxygen (DO) and pH sensor measurement

Temperature sensor accuracy check

#### Quality parts replaced during PM

#### Parts replaced

2 x single-use polymer optical fiber (POF) pH and DO cables

2 x electrical cabinet air filter media

#### **Documentation**

Cytiva 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 of the visit.

# Standard recommended PM frequency for Allegro™ STR systems

One preventive maintenance visit every year after warranty expiration.

#### PM, an integral part of our service agreements

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

### cytiva.com

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