BioFlo Pro Performance Plans

Bioprocess systems include several sophisticated technologies. Peak performance requires smooth interplay of the subsystems and fully functioning consumable parts. Regular maintenance by qualified engineers helps to ensure reliable operation, while deferring it can cause unreliable results, expensive repairs, and prolonged downtime.

The BioFlo Pro fermentor is a modular system designed for quick delivery, dependable operation, and system flexibility. Systems are available in seven vessel sizes with working volumes from 32 L to 2,400 L. All BioFlo Pro fermentors utilize industry-standard components including an Allen Bradley Compact Programmable Logic Controller (PLC).

Eppendorf Bioprocess Performance Plans help you to maintain the optimal performance of your equipment over years of frequent use.

Bioprocess maintenance — see the advantage!
### BioFlo® Pro Performance Plans

<table>
<thead>
<tr>
<th>Service Operation</th>
<th>![ESSENTIAL CHECK]</th>
<th>![ADVANCED MAINTENANCE]</th>
<th>![PREMIUM SERVICE]</th>
<th>Installation Qualification (IQ)</th>
<th>Operational Qualification (OQ)</th>
<th>IQ/OQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order Number 60L Vessel</td>
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</tbody>
</table>

### External Inspection and Maintenance
- Check installation environment
- Verify utility connections
- Inspect addition pump heads and motors
- Inspect motor cables and sensor cables
- Check vessel for damage and leaks
- Verify loop PI settings
- Check valve operation
- Check hoses

### Internal Equipment
- Check motor and bearing housing for speed and operation
- Rebuild bearing housing
- Replace o-rings, gaskets, and ferrules
- Rebuild solenoid, pneumatic, hand-operated, addition, sample, and harvest valves
- Inspect angle seat valves, gas sequencing valves, and circulating pump
- Replace rupture disk
- Test TMFC for operation
- Check PLC battery

### System Checks
- Calibrate pH and DO loops with simulator
- Verify motor speed
- Verify temperature
- Perform pressure hold
- Perform test run
- Check for latest software revision
- Verify valve sequence

### Documentation
- Check list provided
- Dated service sticker to confirm Eppendorf service
- IQ report and signed documentation
- OQ report and signed documentation

### Supporting Information
- Contract period: one year
- Number of preventive services included: one
- Cost of repairs/parts replaced outside scope of preventive mainenance visit: not included

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**Your local distributor:** [www.eppendorf.com/contact](http://www.eppendorf.com/contact)

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[www.eppendorf.com/epServices](http://www.eppendorf.com/epServices)

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