



BioFlo[®] Pro

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 fermenter 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!**

eppendorf

Performance tested on

Model: _____

Serial no.: _____

Serviced by: _____

Service no.: _____

Next service: _____

Date: _____

epServices
for premium performance

BioFlo® Pro Performance Plans

| Service Operation | ESSENTIAL CHECK | ADVANCED MAINTENANCE | PREMIUM SERVICE | Installation Qualification (IQ) | Operational Qualification (OQ) | IQ/OQ |
|---|-----------------|----------------------|---------------------------------------|---------------------------------|--------------------------------|--------------|
| Order Number 60L Vessel | 0082 140 373 | 0082 140 374 | 0082 140 375 | 0082 140 377 | 0082 140 378 | 0082 140 379 |
| Order Number 120 L Vessel | 0082 140 463 | 0082 140 464 | 0082 140 465 | 0082 140 377 | 0082 140 378 | 0082 140 379 |
| Order Number 240 L Vessel | 0082 140 503 | 0082 140 504 | 0082 140 505 | 0082 140 377 | 0082 140 378 | 0082 140 379 |
| Order Number 400 L Vessel | 0082 140 543 | 0082 140 544 | 0082 140 545 | 0082 140 377 | 0082 140 378 | 0082 140 379 |
| Order Number 800 L/1,200 L/2,400 L Vessels | 0082 140 593 | 0082 140 594 | 0082 140 595 | 0082 140 377 | 0082 140 378 | 0082 140 379 |
| 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 | one year | one year | n/a | n/a | n/a |
| Number of preventive services included | one | one | one | n/a | n/a | n/a |
| Cost of repairs/parts replaced outside scope of preventive maintenance visit (where Eppendorf product warranty has expired) | not included | not included | discount on parts, labor, travel time | n/a | n/a | n/a |

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