

epServices
for premium performance



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 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!

eppendorf

Performance tested on

Model: _____

Serial no.: _____

Serviced by: _____

Service no.: _____

Next service: _____

Date: _____

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BioFlo® Pro Performance Plans

Service Operation	ESSENTIAL CHECK	ADVANCED MAINTENANCE	PREMIUM SERVICE	Installation Qualification (IQ)	Operational Qualification (OQ)	IQ/OQ
Catalog Number BioFlo Pro 60L	0082140373	0082140374	0082140375	0082140377	0082140378	0082140379
Catalog Number BioFlo Pro 120L	0082140463	0082140464	0082140465	0082140377	0082140378	0082140379
Catalog Number BioFlo Pro 240L	0082140503	0082140504	0082140505	0082140377	0082140378	0082140379
Catalog Number BioFlo Pro 400L	0082140543	0082140544	0082140545	0082140377	0082140378	0082140379
Catalog Number BioFlo Pro 800-2400L	0082140593	0082140594	0082540595	0082140377	0082140378	0082140379
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						
Travel	not included	not included	included	included	not included	included
Time/Labor	included	included	included	included	included	included
Additional parts	not included	not included	included	not included	not included	not included

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