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# CelliGen<sup>®</sup> Pro

## CelliGen 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 CelliGen Pro bioreactor is a modular system designed for quick delivery, dependable operation, and system flexibility. Systems are available in four vessel sizes with

working volumes from 19 L to 520 L. All CelliGen Pro bioreactors 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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# CelliGen® Pro Performance Plans

Service Operation	ESSENTIAL CHECK	ADVANCED MAINTENANCE	PREMIUM SERVICE	Installation Qualification (IQ)	Operational Qualification (OQ)	IQ/OQ
<b>Order Number 60L Vessel</b>	0082 140 413	0082 140 414	0082 140 415	0082 140 417	0082 140 418	0082 140 419
<b>Order Number 120 L Vessel</b>	0082 140 693	0082 140 694	0082 140 695	0082 140 417	0082 140 418	0082 140 419
<b>Order Number 240 L Vessel</b>	0082 140 743	0082 140 744	0082 140 745	0082 140 417	0082 140 418	0082 140 419
<b>Order Number 520 L Vessel</b>	0082 140 643	0082 140 644	0082 140 645	0082 140 417	0082 140 418	0082 140 419
<b>External Inspection and Maintenance</b>	■	■	■	■		■
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	■	■	■	■		■
<b>Internal Equipment</b>						
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	■	■	■			
<b>System Checks</b>						
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	■	■	■	■	■	■
<b>Documentation</b>						
Check list provided	■	■	■			
Dated service sticker to confirm Eppendorf service	■	■	■	■	■	■
IQ report and signed documentation				■		■
OQ report and signed documentation					■	■
<b>Supporting Information</b>						
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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