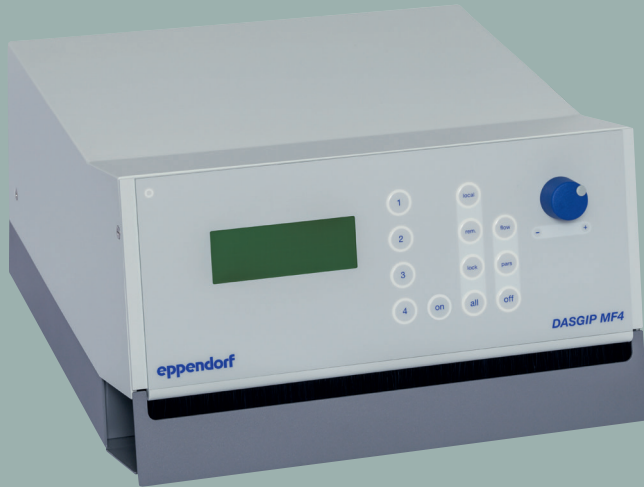epServices
for premium performance

DASGIP® Gassing Modules

DASGIP MX4/1, MF4, and Rotameters 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 DASGIP MX4/1 gas mixing system supplies one culture vessel with an individual mixture of air, N_2, O_2, and CO_2. The DASGIP MF4 gassing module allows mass flow-controlled gassing of up to four vessels with individual flow rates. DASGIP Rotameters WRM and RX2/4 provide four-

channel rotameter gassing at an adjustable flow rate from one and two gas supplies, respectively. Regular maintenance is crucial to ensure a reproducible and reliable gas supply. Fast calibration of your gassing system can be performed on-site, which minimizes down time.

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

DASGIP® MX4/1, MF4 and Rotameters Performance Plans

Service Operation	■ ESSENTIAL CHECK	■ ADVANCED MAINTENANCE	■ PREMIUM SERVICE	Installation Qualification/ Operational Qualification (IQ/OQ)*
Order Number	0082 150 163	0082 150 164	0082 150 165	0082 150 169
External Inspection				
General condition of DASGIP® module	■	■	■	■
General condition of all attached cables, tubes, and labels	■	■	■	■
Internal Inspection				
Check/update of firmware	■	■	■	
Check/exchange of internal battery	■	■	■	
Check of internal settings and parameters	■	■	■	■
Inspection of flow controller**	■	■	■	■
Check of alarm settings	■	■	■	■
Check system tightness	■	■	■	■
Functional Check				
Operational check of pressure sensor and pressure control**	■	■	■	■
Calibration				
2-point calibration of WRM or RX2/4**	■			
4-point calibration of WRM or RX2/4**		■	■	
4-point calibration of MX4/1 or MF4**	■			
8-point calibration of MX4/1 or MF4**		■	■	
Documentation				
Check list provided	■	■	■	
Dated service sticker to confirm Eppendorf service	■	■	■	■
IQ/OQ report and certificate				■
Supporting Information				
Contract period	one year	one year	one year	n/a
Number of preventive services included	one	one	one	n/a
Costs of repairs/parts replacement outside scope of preventive maintenance visit (where Eppendorf product warranty has expired)	not included	not included	discount on parts, labor, travel time	n/a

* Separate purchase of IQ/OQ documents will be necessary
** Where feature is present

Your local distributor: www.eppendorf.com/contact
Eppendorf AG · Barkhausenweg 1 · 22339 Hamburg · Germany
eppendorf@eppendorf.com · www.eppendorf.com

www.eppendorf.com/epServices