



# DASGIP® TC4SC4

## DASGIP TC4SC4 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.

Efficient mixing and accurate temperature control are indispensable to achieve optimum growth conditions, especially for mass and heat transfer in microbial cultivation. Mammalian cells require smooth mixing with low shear stress. The DASGIP TC4SC4 module provides individual temperature and agitation controls for four bioreactors.

Their correct functioning is essential for every experiment, because even the smallest deviations can disrupt the experiment, as well as further process development and upscaling. Therefore, regular verification and calibration of motors, temperature sensors, and heating and cooling devices is indispensable for standardized process conditions.

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

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Service Operation	ESSENTIAL CHECK	ADVANCED MAINTENANCE	PREMIUM SERVICE	Installation Qualification/ Operational Qualification (IQ/OQ)*
<b>Order Number</b>	0082 150 413	0082 150 414	0082 150 415	0082 150 419
<b>External Inspection</b>				
General condition of DASGIP® TC4SC4 module and attached cables	■	■	■	■
<b>Internal Inspection</b>				
Check/update of firmware	■	■	■	
Check/exchange of internal battery	■	■	■	
Check of internal settings	■	■	■	■
<b>Functional Check</b>				
Operational checks of heating	■	■	■	■
Operational check of cooling	■	■	■	■
Operational check of agitation	■	■	■	■
<b>Verification</b>				
Verification of temperature sensor performance	■	■	■	■
Verification of heating performance		■	■	■
Verification of cooling performance		■	■	■
Verification of agitation performance		■	■	■
<b>Calibration</b>				
Calibration and adjustment of temperature electronics	■	■	■	
Calibration and adjustment of temperature sensors	■	■	■	■
<b>Documentation</b>				
Check list provided	■	■	■	
Dated service sticker to confirm Eppendorf service	■	■	■	■
IQ/OQ report and certificate				■
<b>Supporting Information</b>				
Contract period	one year	one year	one year	n/a
Number of preventive services included	one	one	one	n/a
Cost 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

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