

Equipment Servicing & Maintenance Plus Additional Service Offerings

Comprehensive solutions to keep your equipment running smoothly, backed by our unmatched expertise and expanded service offerings.

experience with the engineers deployed, would it be possible to request the same team again? Their knowledge and rapport with our internal team makes the process far easier

Customer comment









STEP 1

Services usually performed before equipment installation

Ingress testing

■ Testing customers' load items to ensure H₂O₂ does not permeate the outer packaging. This data will be required by all customers with respect to Annex 1 (please see back page)

Materials compatibility

Testing materials such as cleanroom panels and coatings for compatibility when repeatedly exposed to H₂O₂

Bespoke systems document

Needs to be completed and signed off ahead of an engineer attending site

Validation load testing

Example loads to test cycle times and load configuration

STEP 2

Site services related to equipment installation

Installation qualification & operation qualification

Installation and operational qualification testing / commissioning

Gassing cycle development

Equipment and fixed room, completed by a validation engineer or member of the Qube Elite team

Production qualification

Running repeated validated cycles to prove they are still fit for purpose

Production re-qualifications

Re-qualifying an existing production validated cycle using biological indicators

Post installation site services

Advanced operator training

For customers who want an additional level of operator training to get the most out of their systems

Customer SOP assistance

Completed after all validation site works and training has taken place

First line fix training

Customer's engineering team to receive basic fault finding, alarms and component orientation, ideally electrically trained

Preventive maintenance of equipment

Service and maintenance of all equipment based on the customer and regulatory requirements

Return to base investigation and repair

Major overhauls, serious reported faults, and full testing, where it's not appropriate to repair or run tests on site

Regulatory Requirements



Annex 1 provides specific guidance for the production of sterile medicines.

The maximum time interval for requalification of grade A & B areas, is 6 months.

The maximum time interval for requalification of grade C & D areas, is 12 months.

II The requalification of cleanrooms and clean air equipment (i.e. isolators such as the Qube) should be carried out periodically following defined procedures. II 4.32

The requalification should include at a minimum the following:

- **▼ Cleanroom classification** (total particle concentration)
- Integrity test of final filters
- ▼ Airflow volume measurement
- Verification of air pressure difference between rooms
- Air velocity test (Note: For grade B, C and D the air velocity test should be performed according to a risk assessment documented as part of the CCS. Even so, it is required for filling zones supplied with unidirectional airflow, e.g. when filling terminally sterilised products or background to grade A and RABS. For grades with non-unidirectional airflow, a measurement of recovery testing should replace velocity testing.)

Therefore, in summary, the qualification should include at the minimum:

Filter Integrity (DOP) testing, particle testing and airflow checks / calibration. These should be completed EVERY six months and after reactive breakdown visits which impact the pressure or airflow. Additionally, smoke visualisation testing will be required on installation.



Please send your initial enquiries to bioquell.enquiries@ecolab.com or speak to your local Ecolab account manager. For more information about Ecolab's Bioquell service offering please visit www.bioquell.com/businessoperations

USE BIOQUELL PRODUCTS SAFELY, ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.

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