

Airflow Visualization Studies – with ultimate precision

State-of-the-art technology for detecting air flows in isolators (real-case)

The regulatory requirements for the filling of liquid pharmaceuticals according to **EU-GMP Annex 1** are extremely strict. The conditions in the filling area must be proven to be aseptic, the systems qualified and the processes validated. Furthermore, it is necessary to prove that the air flow in crucial areas, particularly those where open sterile products are handled, is uniform and free from turbulence.

The common airflow visualization method is very sensitive. The use of inappropriate equipment and test methods, unqualified handling, incomplete camera coverage, or incorrect process simulation will affect results. Contamination paths may go undetected and ultimately lead to product loss.

Valicare's **isolator experts** perform **airflow visualization studies with the highest precision under manufacturing conditions**.

We offer **state-of-the-art visualization technology** and **customized solutions**.

Our **dynamic assembly system** enables **flexible adaptation** and **multi-point detection**, while the **machine is running**.

Images from **multiple camera positions** ensure **full coverage of the inspection points**. Execution and documentation are compliant with the requirements of EU-GMP Annex 1.



Our Competence

- **More than 150 isolator systems successfully qualified worldwide**
- Engineers with technical expertise
- Natural scientists with microbiological expertise and process understanding
- Long-term experience in evaluating process parameters

Our Services and Support

- Use of state-of-the-art technology for airflow visualization
- Crystal clear visualization of unidirectional airflow with a water-based fog fluid
- Airflow-re-validation of your filling system
- Audit-compliant documentation

Your Benefits

- Personnel and time relief by outsourcing the activities to experienced isolator experts
- Clear, comprehensive display of airflow performance, easy to interpret and applicable in any inspection
- User-friendly interactive system

An interactive experience designed for your team!



You can expect an interactive approach that is tailored to your specific system. All the data that has been discovered will be transferred to your devices for storage. The user-friendly interface allows you to quickly and effortlessly search through test points, and the **synchronized split screen view** provides a direct comparison.

It couldn't be easier!

Contact us if you are looking for advice or would like to outsource the visualization of your air flows. We support you!

Together more successful!

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