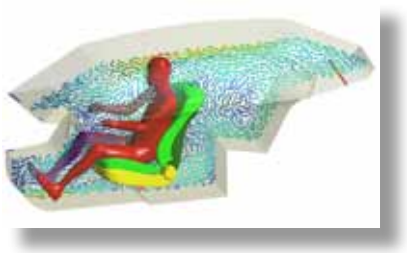
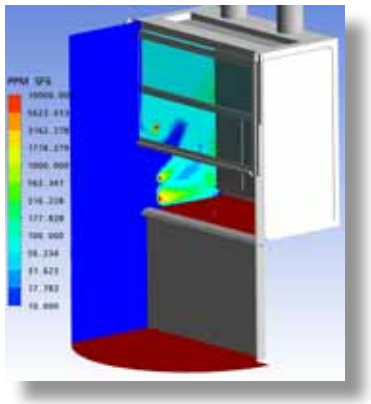
FlowEngineering

We supplement both your and our experimental flow examinations by numerical air flow simulation. For this purpose we generate a virtual model of the real surrounding area/room and simulate the air flow for various air temperatures, material properties/compositons of gas and other movements inside the simulated room.

Based on the results of these simulations we propose solutions for the flow conditions found to be problematic, and finally support you in implementing our experts' know-how into a finalized product, production facility or workstation.
For further information please visit
www.raumluftstroemung.de





Referenzen

Automotive
Audi, BMW, faurecia, GETRAG

Authorities
Landesamt für Umweltschutz (Augsburg), Landesamt für Lebensmittelsicherheit (Oldenburg), Landesamt für Tierzucht (Grub), ZPLA (Markt Schwaben), TÜV, Wasserwirtschaftsämter (Amberg, Rosenheim)

Chemical industry
AkzoNobel, BASF, DOW Chemical, Merck, Wacker Chemie

Energy
Alstom, AREVA, Siemens, RWE

Scientific Institutes
Max Planck Institute (Mainz, Stuttgart), Fraunhofer Institut (Dresden), Państwowy Instytut Weterynaryjny, (Pulawy, PO), Geomar (Kiel)

Pharmaceutical Industry
Altana, Bayer, Boehringer, Eli Lilly, Frosst Iberica, Johnsson & Johnsson, Novartis, Organon, Pfizer, Roche, Schering

Universities
Bonn, Erlangen, Essen, Freiburg, Gießen, Hamburg, Konstanz, München, Würzburg, London, Nijmwegen, Tartu, Twente, Sydney

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Tintschl®
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For Flow

- Flow Marker®
- Hydra
- FlowLiner®
- FlowTracer
- FlowEngineering

www.flowmarker.com

FlowMarker®

Our well-established FlowMarker® for visualizing air flow with long-lasting and thermal inactive fog for use in

- cleanrooms
- hospitals
- the automotive sector
- food industry
- and anywhere, where fog helps detecting air flow

The fluid tank with a capacity of 16 ml being completely filled enables the network-independent handheld device to generate a continuous fog of about 20 minutes, respectively about 420 fog outputs lasting three seconds. The fog fluid according to FDA standard is evaporated to fog absolutely harmless to the health and does not leave any remainders in the surrounding area.

After a short heating time of 30 seconds max the fully charged FlowMarker® is ready for generating fog during the following 2 to 5 hours – depending on duration and frequency of fog outputs.

The standard application tube made of impact resistant synthetic material can be elongated from 0.75m up to 1.5 m. The device can easily be upgraded for remote control.

Hydra

… as an extension module for the FlowMarker® for use in areas with difficult access, such as

- below ceiling outlet
- behind encasement
- inside model building
- and anywhere, where fog helps detecting air flow

The Hydra is a handy adapter for connecting a flexible application tube to the FlowMarker®. Due to its integrated fan the Hydra generates a slightly increased output of fog, so that users chose Hydra also for areas where “more fog“ is needed.

The complete package comprises the FlowMarker® as the basic device, a rigid application tube and the Hydra including a flexible application tube of standard length 5m. All components necessary for starting operation of the device are included.

FlowLiner®

We also offer the FlowLiner® – our special device for generation fog even at high air velocities. The FlowLiner® enables you to examine air flow conditions at air velocities of more than 2 m/sec, e.g. in a wind tunnel.

FlowTracer

…as an extension module for the Hydra in order to generate a number of parallel fog lines so that flow visualization can be performed even more efficiently, especially in clean rooms and in clinical areas.