

Fluid Dynamic Model

Simulating all heat and dust sources influencing the building ventilation



Principles.

- Analysing tool for understanding the building ventilation and improving the working conditions.
- Using a scaled Plexiglas® replica of your melt shop gives an easy, accurate and economical way of simulating the inside shop conditions.
- The Fluid Dynamic Model is provided and performed by our subsidiary company Bender Corporation.

Concept.

- Heat and dust sources, crane movements as well as wind loads are simulated in an under-water upside-down model of the melt shop.
- Rising fumes and heats are simulated by using salt water, which is injected at the same positions as generated in reality.
- Exhaust points can easily be relocated, flow rates adjusted, and building geometry rapidly modified.

Advantages.

- Easy way to determine necessary flow rates.
- Partition- and curtain walls can easily be installed or modified.
- Good way to understand melt shop evacuation parameters.
- Canopy hood volume and geometry optimisation.
- Local dust evacuation and capture.



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