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A2



A3

Storage Systems



A4



A5

Company/Client Roster

Based on decades of experience and know-how paired with innovation, laflow Reinraumtechnik GmbH & Co. KG produces systems for particle and humidity reduced storage of sensitive products and components. Among these are typically electronic components, complex modules, wafers and substrates.

Our clients are companies and institutions represent a wide range of industries and applications:

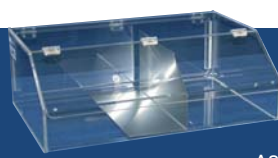
- ≡ Semi conductor industry
- ≡ Optical industry
- ≡ Opto electronics
- ≡ Electrical technology
- ≡ Fine mechanics
- ≡ Medicine
- ≡ Micro systems technology



A6



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The utility patent protected transportation system



A13

Utilization/Functionalities

Critical components or component groups can be damaged very quickly when exposed to normal ambient conditions. Damages may also be caused by the relative humidity in the air, by oxygen or by air pollutants.

low flow storage systems have been designed to protect products or components against this kind of adverse impact.

When used for classic storage applications, nitrogen is diffused into the storage system. As the nitrogen penetrates the storage system, the air becomes thinner until all that is left in the area is nitrogen. Nitrogen is extremely pure and contains very little humidity, thus creating optimum conditions for the storage of sensitive goods, in particular if it is important to keep them in a low oxygen atmosphere. Nitrogen is one of the so-called inert gases. It goes without saying that other slow-reacting gases may be used for the diffusion process as well.

If, on the other hand, the key goal is to reduce the humidity levels, the existing pressure air is dehumidified and filtered. Under application of the same principle as the nitrogen, it is then diffused into the cabinet. For large equipment, the air is dehumidified to the desired level using the circulating air method.

Slight positive ambient pressure is present during all types of diffusion, so that no ambient air or debris particles can enter the cabinet. Some applications require that the storage chamber is placed under vacuum pressure. We offer a wide variety of solutions for these applications as well.



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Permanent, soft potential equalization is achieved thanks to acrylic surfaces that have the capability to divert and conducting coating of metal scaffolds and components used throughout the system.



The entire acrylic cabinet is an Electrostatic Protected Area (EPA) and thus provides a protected zones for components exposed to electrostatic hazards (EHC)

≡ Designs

Our product portfolio comprises systems for wall hanging and free standing operation as well as mobile units. All are available with and without scaffolding. Various standard sizes are yours to choose from. We also customize sizes and designs. If you opt for acryl, it is available also in yellow UV filtering quality and ESD-compatible with surfaces that have diverting properties. Of course we also offer solutions in aluminum, steel or stainless steel.

All powder coated solutions are also electrically diverting. It is no problem at all to expand your storage systems retroactively.

We offer different kinds of diffusions and consequently also suitable controls that accommodate all of your specific needs. The first option is permanent diffusion. This system flushes a constant throughput into the inert gas or dry air. The second approach is the automatic rapid and permanent diffusion, which works as a permanent diffusion system when the door is closed and flushes at an increased throughput rate for a specific period of time after a door to the chamber is opened.

A requirement-based control delivers optimum results for special applications. Flushing is possible at specific intervals or with high throughput volumes. Moreover, measuring instruments can be integrated into the control, which display the data and archive it eliminating the risk of manipulation.

Let us know your specific requirements and we will be pleased to present you a cost-effective concept.



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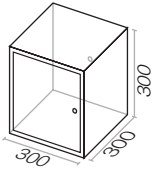


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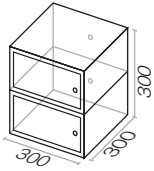


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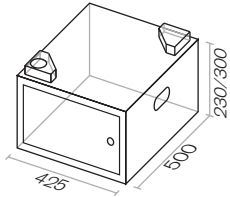
≡ Our Standard Program ...



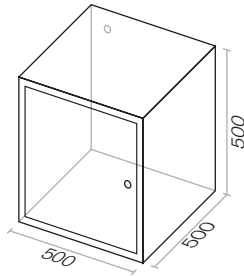
Acrylic box
Model no. 1020/1



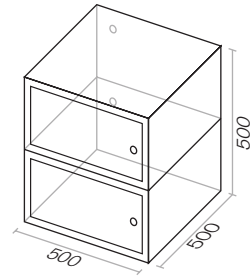
Acrylic box
Model no. 1020/2



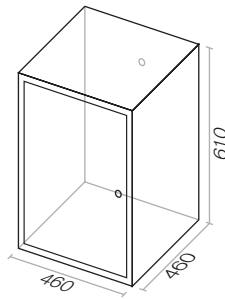
Transportation box
Model no. 1040/1



Acrylic box with drawer system
Model no. 1070/1



Acrylic box with drawer system
Model no. 1070/2



Acrylic box
Model no. 1030/1

≡ ... and our customized versions



A23



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A25



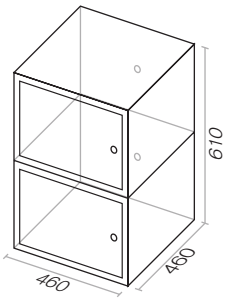
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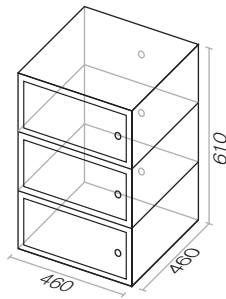
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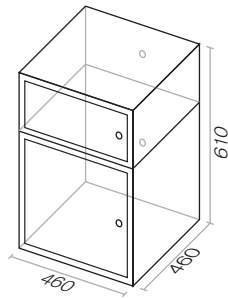
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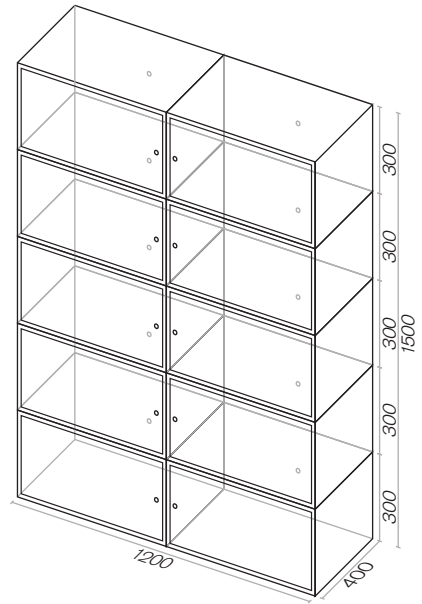
Acrylic box
Model no. 1030/2



Acrylic box
Model no. 1030/3



Acrylic box
Model no. 1030/4



Acrylic cabinet
Two to ten doors
Model no. 1060/2-10

Our Product and Service Spectrum –an Overview

As one of the leading clean room technology providers we develop and produce customer specific system solutions for a wide array of uses:

- ≡ Clean rooms
- ≡ Clean work places
- ≡ Storage systems
- ≡ Wet process technology
- ≡ Services



Subject to change. No express or inferred warranties for information provided.
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