



# Powder Extraction Unit

Personal Protection





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**We create functional solutions for complex issues**

As the specialist in clean air, Interflow creates functional solutions for complex air management issues. For fifty years we have been delivering quality by paying close attention to safety, comfort, ease of use, durability and flexibility. These concepts are intertwined with our norms and values, determining our way of thinking and working.

Our powder extraction units are the result of this vision. They guarantee a safe working environment and provide product protection. Naturally, we are proud of the advanced technology, but above all we value the safety the products offer. A high-quality end result starts with a clean working environment. Our high-tech cross flow units achieve this for you..

- Safety
- Comfort
- Ease of use
- Durability
- Flexibility

Interflow excels in offering personal and product protection based on air control. We have been designing, manufacturing, installing, validating and managing laminar air flow units, cleanrooms and operating rooms for fifty years. Our consultants, engineers and technicians are experts in this specialist field.

### Highest market rating

Research by the Netherlands Industrial Market Research Agency has shown for four years in a row that Interflow's laminar air flow units are rated as best on quality and price-quality ratio. Our customers are enthusiastic about the delivery reliability and the service provided. They give the highest rating on both commercial and technical support.

With Interflow you choose an honest company that puts its ideas into practice with passion and inspiration. We involve our customers from the very start, this creates clarity. This ensures we always deliver the right solution. We also look beyond today and anticipate market developments.

### Broad expertise

We have the expertise to deliver complicated projects at the highest quality. Our core markets are pharmaceuticals, high-tech industry, research centers, healthcare and agro-industry & food.

- Fifty years of experience
- Familiar with the work processes and the challenges of the user
- Market research confirms quality



**We are flexible and can achieve customer-specific wishes**

Interflow has a production facility of approximately 5,000m<sup>2</sup> in the Netherlands, where all our laminar airflow units are manufactured, therefore we are able to guarantee the quality and delivery time of our products. (We are not dependent on external suppliers) This also gives us the opportunity to be flexible with design solutions that can easily include bespoke customer specifications when required.

In Wieringerwerf, North Holland, our production facility is adjacent to our office. So we have all the knowledge, expertise, design and manufacture facilities under one roof. This makes our products purely Dutch. Our work processes are in line with strict safety standards. As a customer we assign to you a single contact person who knows all the details of your project and whom you can ask all your questions. These factors combine to ensure a fast, efficient and clear process.

Before delivery, each unit undergoes extensive testing in our production facility. This includes a visual inspection, a function test and an air speed measurement. This is to demonstrate that the unit complies with specification, applicable laws and regulations and the strict quality requirements of Interflow. When the unit is delivered, an extensive measurement and validation protocol is carried out once installed in the environment in which the unit is located, so that it is ready for use.

- One point of contact
- Dutch Production Facility
- Guarantees on quality and delivery time
- Flexible in customer-specific wishes





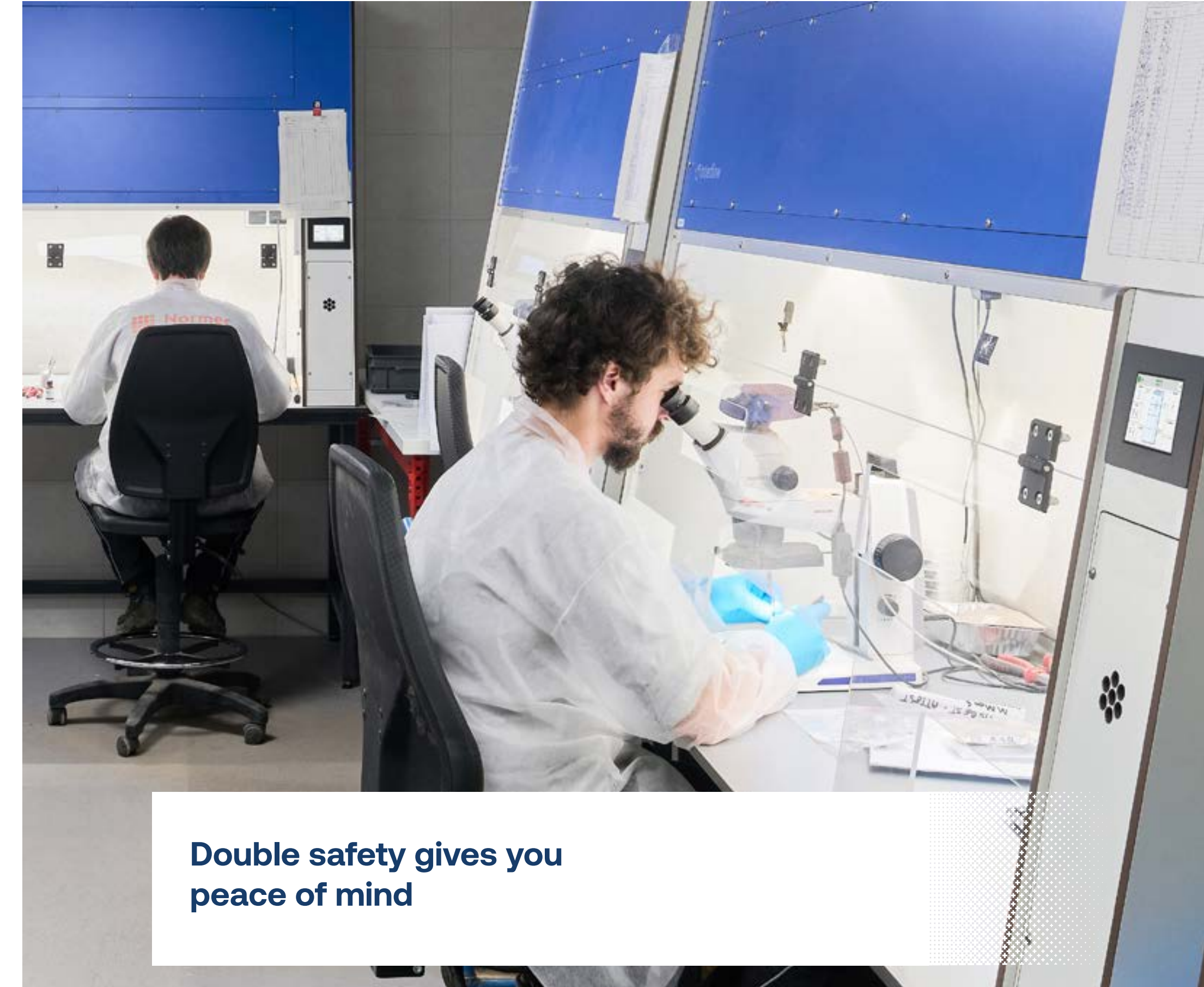
**A high-quality end result begins with a clean work area**

**Personal protection**

A powder extraction unit sucks air at a prescribed speed (inflow) to the back wall of the workspace. All suspended particles are entrained in this air flow and are therefore not released into the environment. A pre-filter and a HEPA filter H14 remove all contaminants from this air flow. This filtered, clean air complies with class 5 according to NEN-EN-ISO 14644-1 and is then blown back into the environment. Our powder extraction unit meets the strictest health and safety requirements.

Thanks to our innovative solutions, the user and the environment are even better protected. The Interflow powder extraction units are hermetically glued. This technique reduces the possibility of a leak and thus increases the overall safety of the units. This is possible thanks to the use of high pressure laminate. Optionally, it is possible to provide the unit with a glass or acrylic pane.

- Complies with all laws and regulations
- Hermetic bonding gives an unique extra guarantee of safety



**Double safety gives you peace of mind**

**Increased safety with PEU-SC**

The powder extraction cabinet series IF/PEU-SC (Safe Change) provides protection for the user and the environment and is designed for working with solids that can cause allergic reactions or be harmful to health with prolonged exposure.

**Difference between PEU and PEU-SC**

The 3-stage filter system, which is equipped with a double HEPA filter, makes the powder extraction cabinet SC ideally suited for working safely with hazardous substances. The 3-stage filter system is designed so that in many cases it is not necessary to exhaust the filtered air to the outside resulting in a significant reduction of your energy consumption.

The Safe Change system ensures easy contamination-free filter replacement using a safety bag (bag-in bag out principle). Essential when airborne contaminants pose a risk to maintenance personnel.

- High and adjustable inflow
- Fail-safe design
- Hermetic bonding
- Visual red alarm
- Pre-filter contamination detection
- 3-stage system with double HEPA-filter
- Bag-in-Bag-out principle



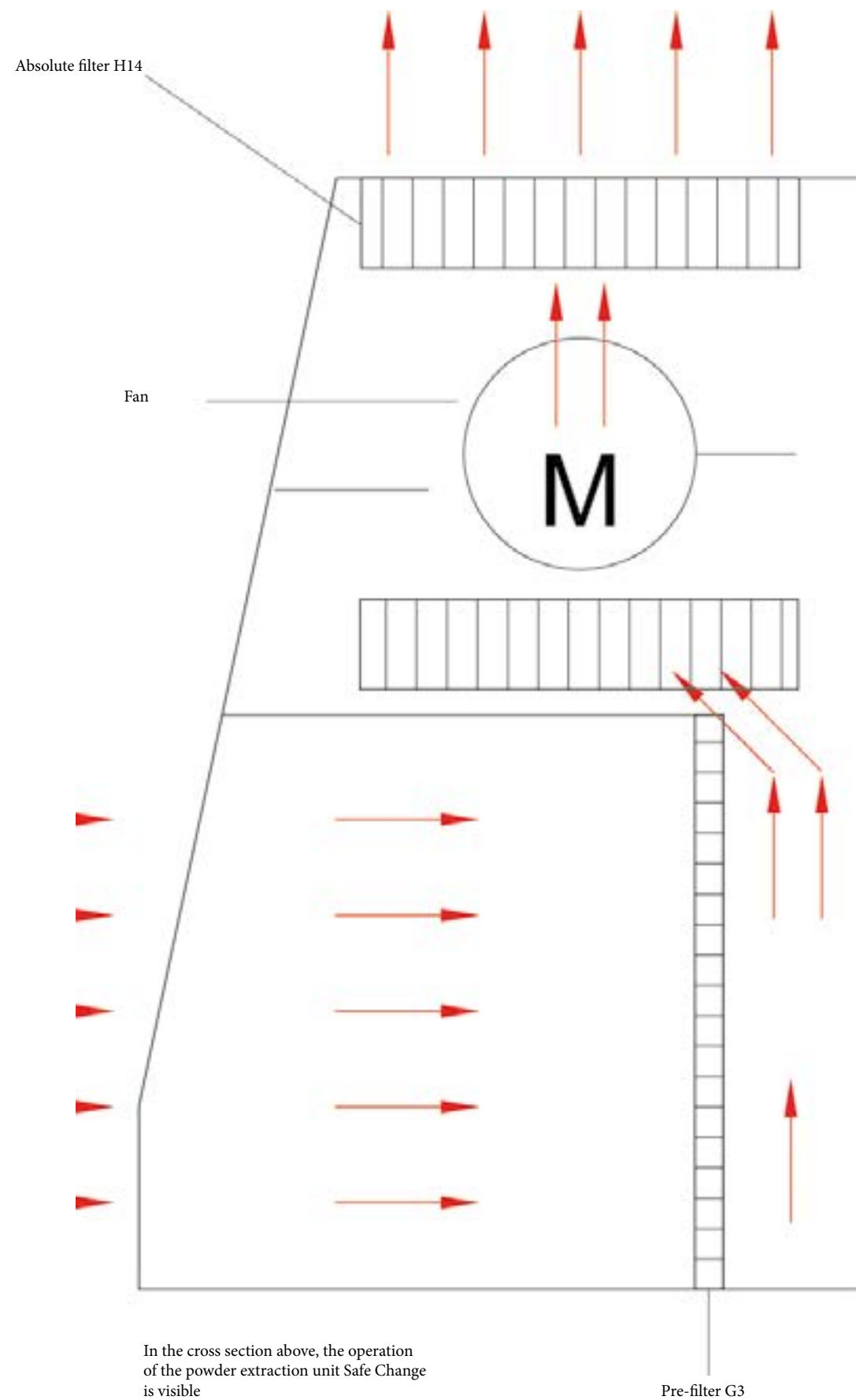
- Made of high quality HPL material
- Completely smooth both internally and externally
- Custom solutions possible
- Low installation height
- Bag-in Bag-out principle

**Safe in use**

- High and adjustable inflow
- Fail-safe design
- Hermetic bonding
- Visual red alarm
- Pre-filter contamination detection
- 2-stage H14-filter



## Safe Change



**Comfortable**

- Most silent in the market
- Homogeneous light
- Low heat load
- Ergonomic top design

**User-friendly**

- Easy to operate
- Effortless cleaning
- Front pre-filters easy to replace
- Optimal air distribution
- Plug and Play
- Continuous air speed control, always the right flow rate

**Durable**

- Energy consumption reduced by up to 70% thanks to energy-efficient EC motor
- Energy-saving LED lighting
- Day and night switching as standard

**A shortage or a surplus of light, sound and/or heat can be unpleasant or even annoying during the use of a powder extraction unit. Interflow has paid a lot of attention to ergonomics and adaptability in the design of the unit.**

There is a constant air flow within the work area, which will not affect you as a user. Our powder extraction units are the quietest in the market at 47 dBA. This low noise level is possible thanks to the use of sound-absorbing materials, the prevention of vibrations and the efficient placement of the fan(s) and the filters. The LED lighting provides homogeneous light that can be adjusted as desired. There are no disturbing reflections or glare in the work area. The use of energy-efficient fan(s) ensures a low heat load.

The powder extraction unit is suitable for placement on an existing work table or weighing table. The unit can also be supplied with a chasis. In that case, the powder extraction unit is fitted with a Trespa worktop. The Interflow chasis is available in sitting and standing height. There is also an electrically adjustable variant that ensures a comfortable working position for everyone.



## Comfort



**Comfort and Ease of Use increase job satisfaction**

## Ease of Use

**The latest generation of Interflow powder extraction units have a multifunctional touch screen. Settings can be adjusted with great ease, such as: Switching the day / night mode on and off; Enabling the weighing mode, which increases the accuracy of weighing. The screen also shows other important information, including error messages.**

**Effortless cleaning**

As a result of the works undertaken in the unit, it is essential that the unit is cleaned regularly. This is a simple operation thanks to the smart design. The work areas have no blind spots. The high pressure laminate material is easy to clean and resistant to almost all cleaning agents. The pre-filter can be replaced quickly, independently and without risk of contamination.

- Easy to operate
- Effortless to clean
- Easy to replace filter



## Durability

The powder extraction units from Interflow are equipped with energy-efficient LED lighting and DC fans. As a result, less heat is produced, which in turn results in smaller cooling installations and an even lower energy burden. The units also have an energy-saving day and night mode control.

We also combat energy waste by minimizing air resistance and vortices in the powder extraction units. We achieve low air resistance by finishing the units smoothly and by using filters with the largest possible filter surface area. Vortices are prevented thanks to the low air velocities and the innovative use of air bulkheads.

The strong and durable units consist of high-quality materials. The robust high pressure laminate is resistant to bumps and scratches and is resistant to various chemicals. The units are fully recyclable. The production of the units is based on the Lean method, with extra attention being paid to sustainable choice of materials and the prevention of waste and energy consumption.



Interflow uses the Lean Method of Trias Energetica system to achieve the most energy-efficient design of its cross flow units. Trias Energetica distinguishes three steps:

1. Limit energy consumption by preventing waste;
2. Make maximum use of energy from sustainable sources, such as wind, water and solar energy;
3. Use fossil fuels as efficiently as possible to meet the remaining energy needs.

## Customisation

The powder extraction units can be equipped with various options and functionalities that further increase ease of use. We are happy to discuss your requirements and to advise you.

We build our microbiological safety cabinets in a modular way: Therefore they can be easily adapted for future requirements and can maintain their high quality. In order to use the unit and its options optimally, we provide user training to help you.

### Customisation

Sometimes existing systems do not offer the right solution. Certain situations - such as working with some hazardous substances - require specific, tailor-made solutions. Interflow offers these in the form of specials. Ask our Advisor about the possibilities.

- Flexibility thanks to modular construction
- Customer-specific solutions possible

## Options

### Visual alarm

Interflow's latest development is the visual alarm. If there is a fault, the standard LED lighting dims and the workspace gets a red glow. Thanks to this different color scheme, the user immediately sees which units are available and which are not. This system takes the safety of our powder extraction units to an even higher level.

### Integrated touchscreen

A touchscreen enhances the ease of use of the units. The central control system can be controlled via the programmable screen. With a finger you can adjust various settings as desired. The screen is designed in such a way that it provides an overview and is easy to operate. In addition, all important information is displayed in real time.

### Integrated weighing stone

Scales are accurate, but unfortunately also vulnerable devices. If you have to weigh regularly in the protected work area, we recommend having a weighing stone placed in the powder extraction unit. This results in more accurate and stable weighing. In addition, this integration contributes to a cleaner and more organized work area, without unnecessary cables and devices.

- Adjusting the light modes
- Setting an energy-efficient day/night mode control
- Possibility to place controls behind your own chosen pin code
- History of error messages



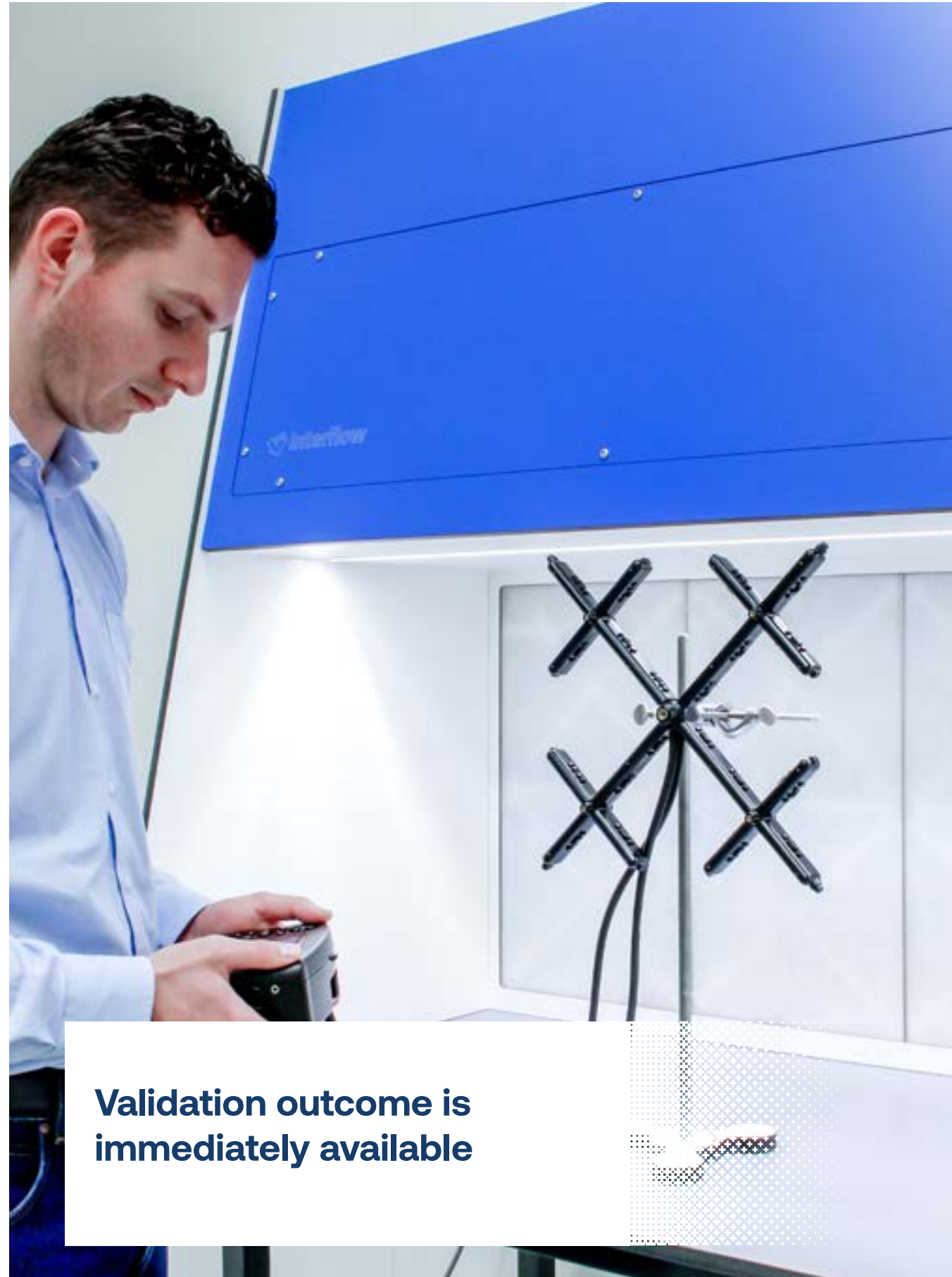
For fifty years Interflow delivers the highest quality



## Validation

To rule out dangerous situations, powder extraction units must be regularly validated. Interflow has the knowledge, expertise and experience to deliver this service. We check whether your units still meet all requirements and criteria.

Our specialists measure whether your powder extraction unit still achieves safe working environments over time. Continuity and flexibility are essential concepts in this. The validation results are available immediately after the measurements. This allows a quick and well-founded decision whether or not to put the units into operation.



**Validation outcome is immediately available**

## Management and Maintenance

In view of personal protection, you want to avoid dangerous situations at all times. A powder extraction unit that is regularly checked by an expert will maintain its high quality and operation. This improves uptime and lifespan.

Interflow is the partner to take care of the maintenance of your units. A well thought-out maintenance plan leads to high operational reliability. Thanks to our latest option - the connectivity system - we can remotely view and assess fault messages and resolve problems more quickly.

This technique limits the downtime of the powder extraction unit. Due to the modular construction of the units, they are optimally prepared for the future. This makes it possible to make modifications after delivery. For example: Changes in legislation and regulations may require adjustments.

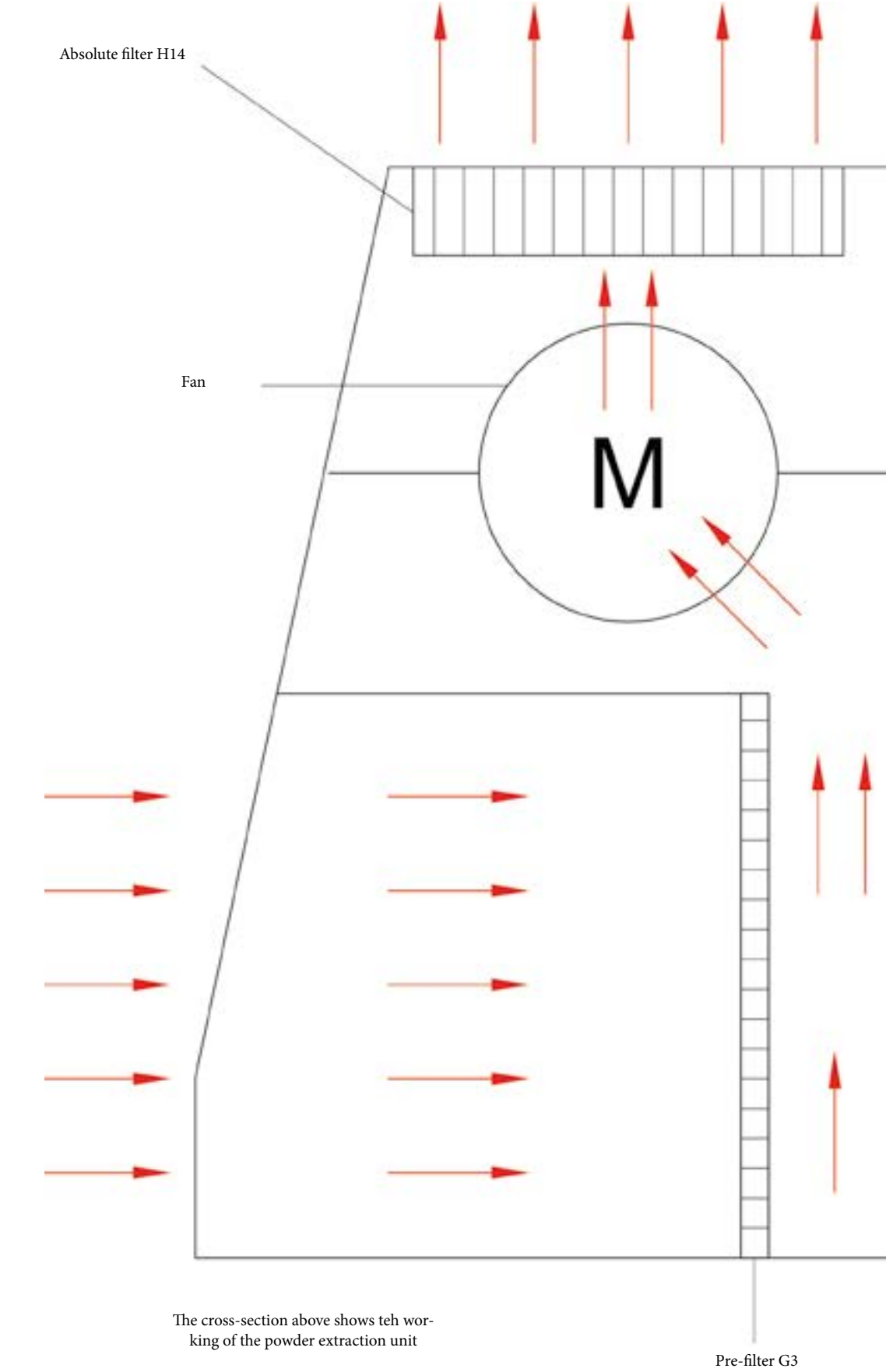
- Problems resolved faster thanks to connectivity system
- Modular construction allows for modifications

## Resume

- Manufactured from high-quality HPL material
- Completely smooth executed both internally and externally
- Customised solutions possible
- Installation and validation on site

### Safe to use

- Complies with all laws and regulations
- Fail-safe design
- Hermetic bonding



### Comfortable

- Most silent in the market
- Homogeneous light
- Low heat load
- Ergonomic top design

### User-friendly

- Easy to operate
- Effortless cleaning
- Front pre-filters can be easily replaced
- Optimal air distribution
- Plug-and-play
- Continuous control of air velocity, always the right flow rate

### Sustainable

- Up to 70% reduction in energy consumption thanks to energy-saving EC motor
- Energy-saving LED lighting
- Day and night switch as standard





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