Laminar flow
Silent-Touch
Technical description

Applies to: Mounting module, table model and floor module

System explanation to

Clean room workstation (ISO 5), <u>Silent-Touch model</u> with integrated VarioClean flow control with a variety of easy-to-use programming possibility and top design.

All systems from the VCF series <u>can be manufactured individually according to customer requirements</u>. As a result, we are not bound to any fixed dimensions and expansion requests. This modular series gives the user the following significant advantages:
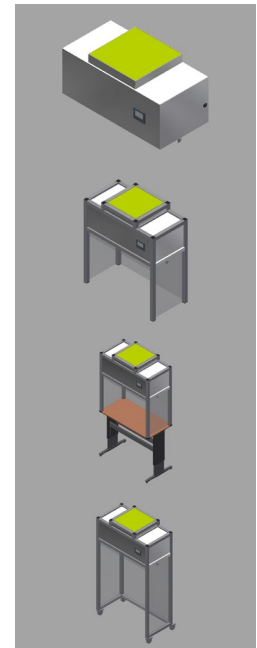
Particularities

- The dimensions of the new systems can be designed flexibly and can be adapted to individual customer needs
- The ventilation module type VCF_PM has been developed from scratch. The module consists of aluminum construction, in which the high-performance fan vibration damper is built.

Technology

- <u>Monitoring of flow velocity, setpoint, and overall operation via touch screen. (DE / FR / EN)</u>
- Alarms: Fan monitoring, sensor, and filter saturationFilter clogging indicator
- Password protection for setpoint input
- Includes timer for automatic night setback (reduction mode) energy saving.
- Whisper-quiet operation 43 dB (A) at 0.20m / s (with currently the quietest fan on the market)
- Available with brightness-controlled high-performance LED on request

Additional benefits

- When using the VarioClean Flow systems, a large amount of air is circulated and thus also cleaned of airborne viruses and bacteria. This massively improves the air quality in the surrounding area.

There are no limits to your individual wishes. Please contact us! Optimal planning and design guarantees years of successful quality.

Laminarflow Silent-Touch

Intended use

The Laminar Flow Silent-Premium is ideally suited to delimit work areas in accordance with clean room requirements. The unit is used to <u>filter out particles or germs from the ambient air and thus guarantees a clean room atmosphere</u>. Thanks to the modular system concept, the device can be used flexibly.

Purity class

The laminar flow unit works on the principle of laminar displacement flow with vertical air flow. It meets the requirements <u>of cleanliness class 5 according to DIN ISO 14644-1</u>, this corresponds to cleanliness class 100 according to US-FED-STD 209e.

Prefilter

The ambient air is pre-filtered using an easily exchangeable pre-filter of filter class G4. The pre-filter is designed for large volume flows and long filter service lives.

Fine filter

The particles are separated using a high-performance H14 class particle filter. <u>The degree of separation of this filter is 99.995% according to EN 1822.</u> The maintenance-friendly device design makes it easy and inexpensive to replace

Fan

The air flow is generated by high-performance fan modules with an energy-saving motor. The wheels are statically and dynamically balanced. The compact module housings are made of aluminum sheetthe filter directly at the installation site. Whisper-quiet operation 43 dB (A) at 0.20m / s.

Control with automatic speed control

The desired air speeds can be set manually via a multifunction display with plain text display.

With the automatic speed control, the air speed is automatically kept constant even with increasing filter resistance (increasing filter contamination). For this purpose, the air speed at the filter outlet is permanently measured with a precise flow probe and the engine speed is adjusted accordingly.

Other useful functions such as e.g. Timer function for any day / night changeover to save energy, change language to 3 languages etc.

Design

The surface-mounted/suspension module consists of a powder-coated aluminium housing. The table and floor model is made of anodised aluminium profiles, DIBOND surface elements and polyamide discs.

Dimensions

	Widths [mm]	Lows [mm]	Heights [mm]	Available working space heights [mm]
Extension module	900/1200/1500/1800	600/900	570	
Table model	900/1200/1500/1800	600/900	1400	750
Height adjustable model	900/1200/1500/1800	600/900	1400 + table height (variable from 750mm to 1205mm)	750
Mobile model	900/1200/1500/1800	600/900	2150	1450

All dimensions can be customised within the above limits (width between 900mm and 1800mm and depth between 600mm and 900mm).

Options

All options can be found in our options overview and on our website. Order using the order code or contact us for advice.