LUGAIA
Containment Solutions

Premium ventilation unit

For flexible isolator systems

Precise airflow control for superior containment performance

The premium ventilation unit has been specifically developed for use with flexible isolator systems in the pharmaceutical, biotechnology, and life sciences industries. Its compact design ensures **precise airflow management** and **stable pressure conditions** within the isolator, providing reliable protection for the product, operator, and surrounding environment. It is ideally suited for demanding containment applications, including **sampling, weighing, dispensing, powder handling, as well as maintenance and decontamination processes.** The controlled airflow and pressure management are essential for maintaining containment integrity and protecting critical processes.

Benefits

- System test (overpressure test)
- Controlled airflow within the flexible isolator
- Stable negative or positive pressure operation
- Inerting mode with integrated oxygen monitoring
- Compact, mobile design
- Low noise level
- Intuitive operation via touch display
- GMP-compliant design
- Robust stainless steel housing

Options

Monitoring

- Differential pressure monitoring
- Alarm functions
- Particle monitoring

Compliance & Safety

- ATEX version for Zone 2/22
- IQ/OQ documentation
- CE conformity documentation in accordance with the EU Machinery Regulation (EU) 2023/1230

Safety features

- Continuous pressure monitoring
- Visual and audible alarms
- Emergency stop function
- Leak detection

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Technical data

Feature	Specification
Housing	Stainless steel 1.4404
Pressure control	Negative/Positive pressure
Inertisation	Yes, Nitrogen inerting for oxygen-sensitive or explosive compounds
PLC hardware	Siemens SIMATIC
Power supply	• 230 V AC, 50/60 Hz • Compressed air: min. 4 bar • Nitrogen: min. 4 bar
Noise level	< 78 dB(A)
Operation	Colour touchscreen

Complete flexible isolator system with a premium ventilation unit for stable pressure conditions and precise airflow control.

Planning a new containment project? Our experts are happy to advise you. Contact us at anfrage@lugaia.ch or call +41 27 948 45 55.

www.lugaia.com