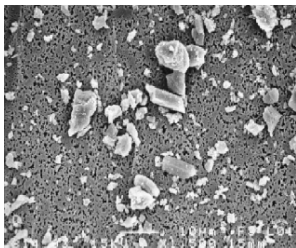


Pressurization Units

Keeping Your Equipment Under Pressure



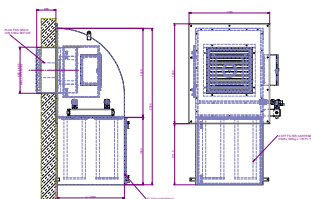
The Air

Ambient air contains a variety of particles with different chemistry, particle sizes and concentrations. Particles can be of natural and anthropogenic origin. Examples are soil or sand particles, spores and pollen on the one hand, or soot, smog, fly ash on the other hand. In areas of high industrial activity, particles are usually smaller than in natural environments and their concentrations are higher. Particle sizes and concentrations can vary from 0.01 to 100 μm and 0.01 to 500 mg/m^3 , respectively.



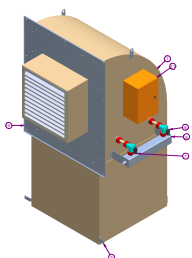
The Damage

Dust particles can cause a variety of damages to human beings, machinery and equipment. In substations, rack and control rooms, and telephone exchanges dust particles can cause short circuit in sensitive electrical and electronic equipment. In the pharmaceutical and food industry, the products need to be protected from contamination by atmospheric particles.



The Concept

How can these damages be avoided? By applying positive pressure with filtered air! Properly filtered air will have a reduced concentration in undesired particles. The level of particles which is acceptable has to be determined in each case by a specialist. The application of positive pressure with clean air to a room will also prevent un-filtered leakage air penetrating into the room through doors, windows and other leakages. This keeps the room and all inside equipment clean.



The Solution

Freudenberg Filtration Technologies is the market leader for pressurization units in South Africa. Our fan-filter units in the *Varivent* range offer the air quality you need for your application: whether it is standard products or custom-made according to your individual demands. Freudenberg Filtration Technologies does not only offers the right equipment and filters to keep your air clean. Our service specialists also make sure, that your pressurization units are always well maintained and the filters are in good condition.

The Products



Model FK – Modular compact unit for small volumes

The Varivent units in the FK range are designed for small air volumes of up to 0.15 m³/s. Due to their compact design, they are suitable for applications where space is restricted and are ideally suited for ground floor applications. Varivent FK are externally wall-mounted and come with a modular fan and filter unit with air inlet screen and outlet louver. They are equipped with a centrifugal fan. The filter type can be selected according to atmospheric conditions and operational requirements.



Model F – Robust pressurising unit for reliable performance

The F-range Varivents provide air volume flows between 0.5 and 2.0 m³/s. It is fitted with an axial fan, that can be driven by motors of different voltages according to the customer's requirements. They are designed for external wall mounting and ideally suited for ground floor application. F-Varivents are equipped with air inlet and outlet screen. The filter type can be selected according to atmospheric conditions and operational requirements.



Model G – Perfectly matched characteristics of fan and filters

The Varivent G-model is the biggest standard model with an air volume flow of up to 5.0 m³/s. It is equipped with an externally mounted robust fan and filter unit with inlet louver doors. It can be wall or foot mounted. The axial flow fan can be driven by motors of different voltages. The G-Varivent is available in mild steel and 3CR12. The filter type can be selected according to atmospheric conditions and operational requirements.



PAT Varivent – For heavy duty applications

The PAT-Varivent range offers air volume flows between 0.15 and 1.5 m³/s. It is equipped with reverse-pulse self-cleaning cartridges that can handle high dust loads. The unit is wall mounted and ideally suited for ground floor applications. PAT Varivents are ready-to-use. They only require pressurized air for the reverse-pulse and a suitable electrical connection.



Custom-made pressurization units

Besides a comprehensive standard range of pressurization units, we offer custom-made units which are individually designed according to your specification. Please ask us for further information.

The Contact

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