



Atlas Copco

Generating clean scientific instrument air

SF+ oil-free scroll compressor



In scientific environments, clean and consistent compressed air is crucial for powering tools and pneumatic equipment. Known as "instrument air," this extremely clean, dry air is essential for operating medical tools, sterilizing instruments, and conducting laboratory experiments. It ensures optimal conditions, eliminating health risks and contamination.

What is Instrument Air?

Instrument air is exceptionally clean, free from oil, moisture, microorganisms, and other contaminants. Unlike industrial compressed air, it adheres to stricter guidelines, making it essential for medical and laboratory environments. Not all compressors can deliver this level of purity, as filtration alone cannot remove all oil particles.

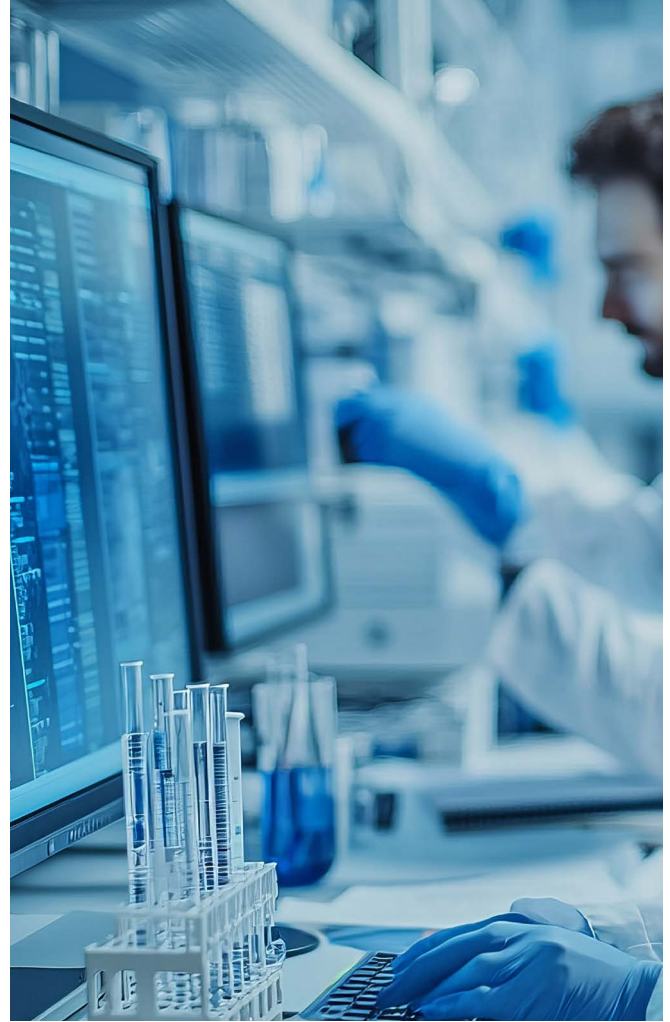
To ensure you meet industry regulations and maintain optimal conditions, choose ISO 8573-1:2010 Class 0 certified compressors over "technically oil-free" Class 1 machines. This is crucial for applications involving human health and safety.

The Oil-Free Scroll Compressor

The Atlas Copco SF+ series scroll compressors are quieter and more economical than piston models, producing as little as 52 dB(A) of noise and featuring an IE3 motor for high efficiency. Each model includes an Elektronikon® Touch controller and SMARTLINK remote monitoring for maximum uptime. Larger models also have Variable Flow Technology to adjust to demand.

Key benefits:

- **Quiet Operation:** Produces as little as 52 dB(A) of noise.
- **Energy Efficient:** Equipped with an IE3 motor and uses less energy than piston compressors.
- **Advanced Control:** Features an Elektronikon® Touch controller.
- **Remote Monitoring:** Includes SMARTLINK for real-time monitoring.
- **Versatile:** Suitable for instrument air applications with refrigerant or desiccant dryers to remove moisture.



Frictionless Design

Scroll compressors operate without the need for oil as a lubricant because the two scrolls that trap air don't come into contact with each other. Instead, a cooling fan keeps the machine cool during extended use. This frictionless design means minimal maintenance, making scroll compressors an excellent solution.

Choosing the Best Equipment

When selecting a compressor, consider factors like flow, pressure, and the size of your facility. This leaflet highlights the benefits of scroll compressors, but it's essential to consult local regulations and industry guidelines to ensure compliance and optimal performance.



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