



Atlas Copco

Reliable instrument air for electronics production

SF+ oil-free scroll compressor

Clean, dry air is essential in electronics production to prevent rust, corrosion, and contamination. An oil-free scroll compressor provides the high-purity air required for precision assembly, cleanroom environments, and circuit board etching. To ensure optimal performance, a complete air system with the right dryer is crucial for keeping moisture and particles away from delicate components.

What is instrument air?

Instrument air must meet stricter standards than general industrial air, ensuring it is completely free of oil, moisture, microorganisms, and contaminants. Not all compressor setups are suitable for delivering this level of purity. To ensure you're generating the best instrument air possible, look for ISO 8573-1:2010 Class 0 compressors.

SF+: The Complete Scroll Compressor

Experience the next level of performance with our SF+ series, a range of advanced scroll compressors designed to meet your specific needs without compromise. Our innovative oil-free design eliminates the need for lubrication, reducing friction and enhancing system reliability. Stay cool under pressure with a built-in fan that manages heat efficiently during continuous operation.

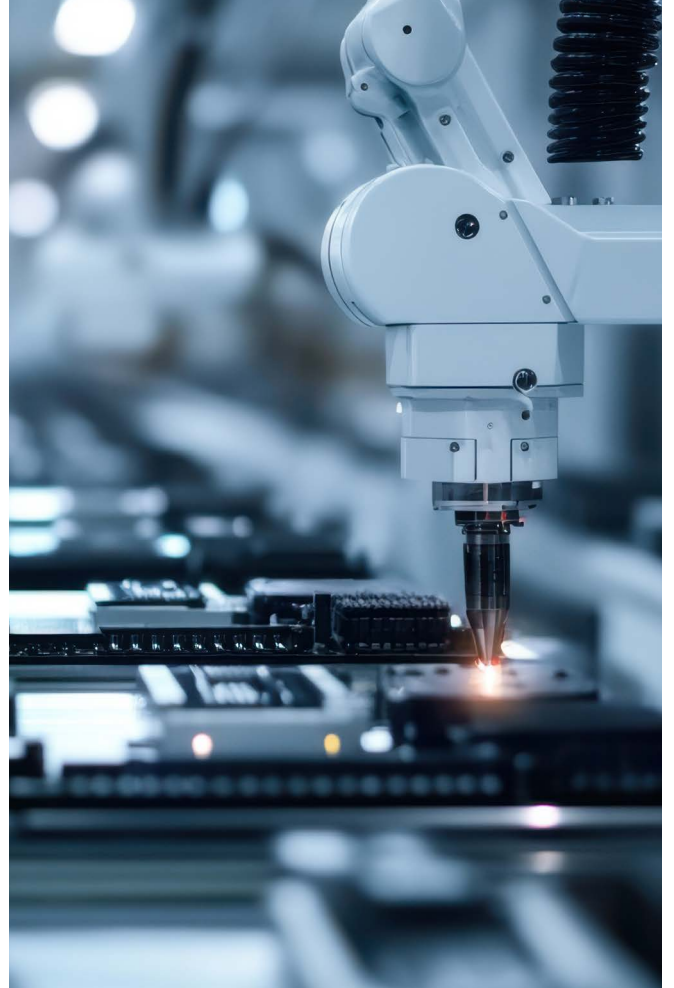
Innovative Features for Superior Performance:

- **Remote Monitoring:** Stay connected with your compressor's performance through the SMARTLINK app.
- **High Efficiency:** Powered by an IE3 motor and equipped with the intuitive Elektronikon® Touch controller for optimal operation.
- **Variable Flow Technology:** Available in larger models, this feature adjusts airflow automatically to match your demand, ensuring maximum efficiency.

The SF+ series operates quietly at just 52 dB(A), improving the work environment. Available in various sizes, these compressors provide the flexibility to suit diverse applications, ensuring top performance where you need it most.



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Generating Nitrogen for PCB Assembly

For producing printed circuit boards (PCBs), high-purity nitrogen is essential for wave, reflow, and selective soldering. Generating your own nitrogen (N₂) onsite ensures consistent quality. The SF+ series provides the compressed air needed for N₂ in PCB assembly, allowing you to confidently manufacture products for original equipment manufacturers (OEMs). Onsite N₂ generation also saves money by eliminating logistics costs for N₂ delivery.

Choosing the Best Equipment

Understanding the benefits of a scroll compressor for producing instrument air is crucial. The right solution depends on your pressure and flow needs. Properly sizing and dimensioning your space and applications will help you find the ideal machine. Our knowledgeable team is ready to assist with personalized assessments and comparisons of compressor options, explaining why a scroll machine is often more suitable than a piston compressor.