



SEMICONDUCTOR & CLEANROOM SOLUTIONS

Powered by Cleanova.NEXIUS™



WHO IS CLEANOVA

Cleanova is one of the world's largest privately held pure-play filtration companies, providing engineered filtration solutions that help customers improve process reliability, maximize productivity, protect critical assets, and reduce total cost of ownership.

Through the integration of trusted global brands — including Airflotek, TES-Clean Air Systems and SV Techsol — Cleanova delivers one of the industry's broadest and most innovative portfolios of liquid, air, gas, pressure, vacuum, and cleanroom filtration technologies.

ADVANCED AIR AND ENVIRONMENTAL CONTROL FOR CRITICAL ENVIRONMENTS

Cleanova.NEXUS delivers advanced filtration and cleanroom solutions for semiconductor manufacturing, data centers, AI infrastructure, and other demanding technology environments. From custom-engineered Fan Filter Units (FFUs) to specialized air filtration systems, Cleanova brings together the engineering expertise and technologies required to support critical controlled environments through its NEXUS platform.

Combining Cleanova's filtration expertise with the specialized capabilities of SV Techsol, Airflotek and TES-Clean Air Systems, the NEXUS platform supports demanding requirements for clean air, contamination control, and precision environmental performance.

THREE SPECIALIZED COMPANIES. COMPLEMENTARY CAPABILITIES. ONE CLEANOVA PLATFORM.



APPLICATIONS



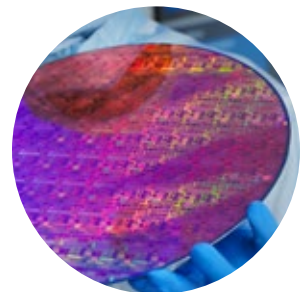
Semiconductor
Manufacturing



Cleanrooms



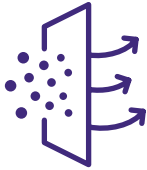
Data Centers & AI



Advanced
Manufacturing

ENGINEERED AROUND YOUR REQUIREMENTS

Cleanova.NEXUS brings together specialized engineering, clean-air technologies and application expertise to meet the demanding requirements of semiconductor equipment manufacturers. From wafer fabrication to metrology and inspection, our custom fan filter units (FFUs) and precision environmental control modules support ultra-clean, controlled environments. Each solution is engineered and configured around your equipment, process and performance requirements.



CUSTOM FFUs & ADVANCED AIR FILTRATION

Custom-engineered filtration for equipment and process requirements

- Custom FFUs with HEPA/ULPA filtration, including PTFE membrane options
- Application-specific airflow, fan, motor and control configurations
- Chemical filtration and airborne molecular contamination (AMC) solutions



PRECISION ENVIRONMENTAL CONTROL

Precision control of critical environmental variables

- Temperature-controlled FFUs ($\pm 0.1^\circ\text{C}$), precision temperature management and vibration control
- Ionization and electrostatic discharge (ESD) control
- Mini-environments, equipment front-end modules (EFEMs) and application-specific environmental control



CLEANROOM SYSTEMS & LIFECYCLE SUPPORT

Components and support for precision controlled environments

- Replacement filters, spares, and kits
- Cleanroom ceilings, lighting, softwall cleanrooms and enclosures
- Air showers, pass-throughs and equipment-integrated modules

ONE CLEANOVA.NEXUS PLATFORM. COMPLEMENTARY EXPERTISE.

Air filtration. Precision environmental control. Cleanroom systems. Application and lifecycle support.



Powered by the specialized expertise of SV Techsol, Airflotek and TES-Clean Air Systems.

ENGINEERED FOR THE MOST DEMANDING ENVIRONMENTS

35+

Years

U.S.

Engineering & manufacturing

SUPPLY CHAIN

+ Aftermarket

3 → 1

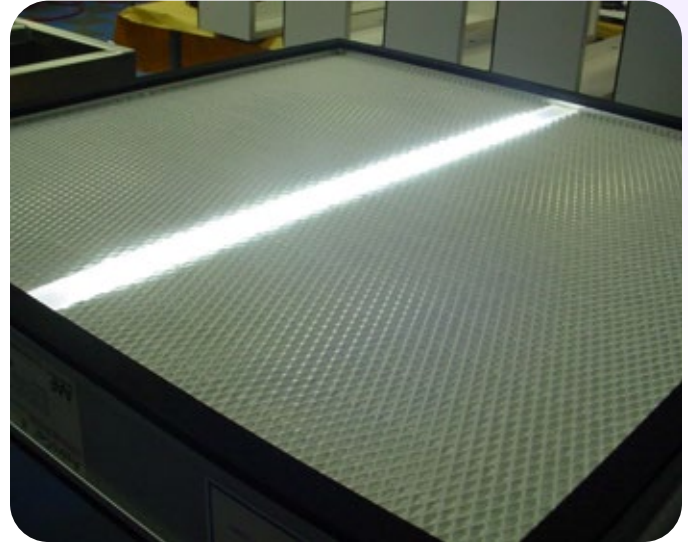
Three brands, one platform

CUSTOM FFUs. ENGINEERED FOR YOUR APPLICATION-SPECIFIC NEEDS.

Cleanova.NEXUS provides custom fan filter units engineered and built in the USA for semiconductor, cleanroom and other critical environments. We manufacture custom-engineered FFUs designed around equipment interfaces, space constraints, airflow requirements and process needs.

Cleanova.NEXUS FFUs can be configured to address demanding airflow and contamination-control requirements, including chemical filtration for airborne molecular contamination (AMC) control.

Application-specific options can include fan, motor and control configurations, temperature and humidity management, specialty lighting, and ionization or electrostatic-control features, subject to technical review.



Lumifilter, Integrated LED lighting system incorporated into the filter, allowing uniform air flow without disruption

TARGETED STATIC CONTROL SOLUTIONS

Static control is crucial in front-end semiconductor manufacturing because even small electrostatic charges can contaminate wafers, damage devices, and disrupt automated tools. Effective ionization solutions safeguard yield, maintains cleanroom standards, and ensures stable, reliable processes.

Cleanova offers a range of ultra-clean ionization solutions for critical environments including in-tool and cleanroom applications. Offerings include ionizing bars, room ionization systems, ionizing blowers, ionizing air guns, and inline technologies.

SIMCO ION™
An ITW Company



Ionizing Air Gun, "Top Gun"



Ionizing Bar, Model 5645 LP

MORE THAN AN FFU. A BROADER CLEANROOM CAPABILITY.

Cleanova.NEXUS extends beyond individual fan filter units to support cleanroom and controlled-environment requirements with complementary air-handling, filtration and cleanroom components. The right configuration depends on the process, space, contamination-control objectives and equipment interface.

SOLUTION AREAS

- HEPA/ULPA particulate filtration and application-specific PTFE filter media
- Mini-environments and equipment-integrated modules
- Chemical filtration and contamination-control options
- Cleanroom ceilings and lighting
- Softwall cleanrooms and enclosures
- Air showers and pass-throughs
- Replacement filters, spares and support



FROM INDIVIDUAL FFUs TO COORDINATED CLEANROOM COMPONENTS, CLEANOVA.NEXUS HELPS CUSTOMERS CONFIGURE SOLUTIONS AROUND THE DEMANDS OF THEIR ENVIRONMENT AND PROCESS.



BUILT FOR WHAT'S NEXT

Talk with Cleanova about custom FFUs, cleanroom systems and precision environmental-control requirements for your semiconductor or critical-environment application.



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