



Elevating Purity Through Excellence



STERILE TM
AIRCARE
SOLUTIONS PVT LTD
BEYOND CONTAMINATION

About Sterile Aircare Solutions

At Sterile Aircare Solutions, we engineer ecosystems of purity, precision, and trust.

Backed by years of proven expertise in pharmaceutical cleanrooms, sterile production, aircare systems, and advanced sterile equipments, our equipment is built to exceed global standards while adapting to your specific requirements.

Our solutions empower organizations to create environments that are cleaner, safer, and smarter.

Vision

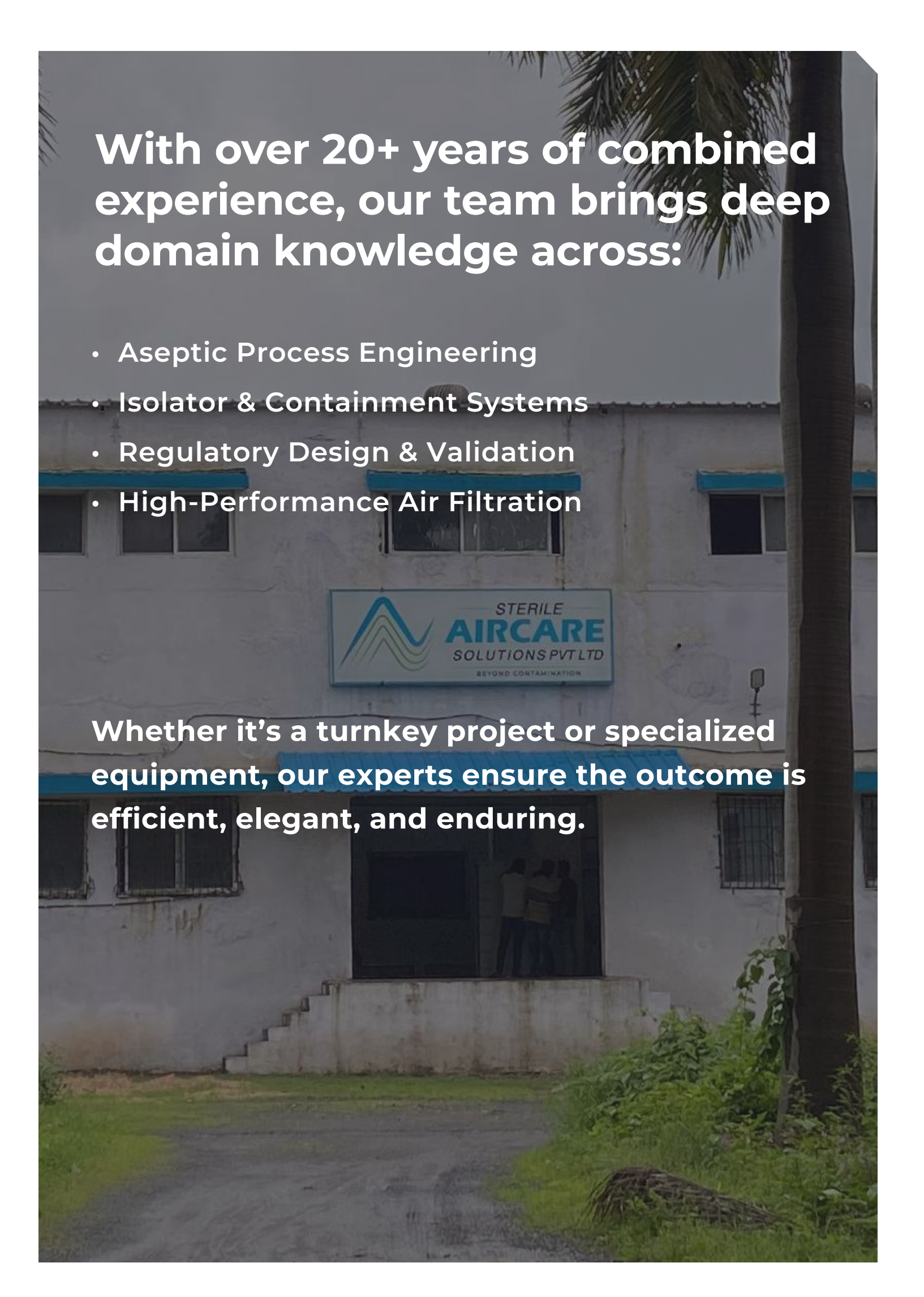
Globally most trusted partner for sterile environment solutions by consistently delivering innovative, custom-built, and compliance-driven products that elevate industry standards in pharma, healthcare, and life sciences.

Mission

To promote cleanroom and aircare solutions that reflect quality, speed, and engineering excellence.

To integrate innovative thinking and manufacturing expertise into products that are user-friendly, robust, and regulation-compliant.

To create long-term value for clients by building sterile ecosystems that are safe, scalable, and sustainable.



With over 20+ years of combined experience, our team brings deep domain knowledge across:

- Aseptic Process Engineering
- Isolator & Containment Systems
- Regulatory Design & Validation
- High-Performance Air Filtration

Whether it's a turnkey project or specialized equipment, our experts ensure the outcome is efficient, elegant, and enduring.

Bioclean Equipment

For Controlled Environments & Contamination-Free Zones

Our Bioclean category includes a comprehensive range of equipment that ensures a contamination-free environment in cleanrooms, pharma labs, and manufacturing spaces. Designed to maintain stringent microbial control, these products are ideal for aseptic processing, quality labs, and sensitive production areas.

What makes it stand out:

- Designed with precision for high-performance air filtration.
- Supports regulatory compliance (GMP, ISO, and FDA standards).
- Integrated with ergonomic, space-saving designs.
- Easy maintenance and low power consumption.



HLAF (Horizontal Laminar Airflow)

Delivers sterile horizontal airflow to protect sensitive processes.
Perfect for pharma, electronics & research

- **Uniform laminar flow for contamination control**
 - **Energy-efficient, low-noise, GMP-compliant**
 - **Customizable for any production line**
 - **Maintains ISO-standard sterile conditions**



RLAF (Reverse Laminar Airflow)

Ensures operator & product safety during sampling/dispensing by pulling airborne particles away.

- **Reverse airflow traps contaminants**
- **SS304 body with UV light & magnehelic gauge**
- **Prevents powder dispersion & cross-contamination**



Bio Safety Cabinet

Operator, product & environment protection during biohazard handling.

- **HEPA filtered airflow with UV light**
 - **Safety interlocked front sash**
- **Minimizes contamination & exposure risks**

OFCS (Open Front Containment System)

Creates a sterile zone over surgical sites.

- Surgical-grade airflow for infection control
- Seamless, sterilizable design
- Flexible deployment in OTs



VHP Passbox

Decontaminates with Vaporized Hydrogen Peroxide for sterile material transfer.

- Built-in VHP generator, leak-proof design
- SS interior with interlocked doors
- Eliminates manual disinfection errors



Dynamic Passbox

Active airflow transfer box ensuring safe material movement.

- HEPA filtered air, UV sterilization
- Electromagnetic interlocking
- GMP & ISO compliant





Static Passbox

For basic transfers without active airflow; maintains barrier integrity.

- Mechanical locks, SS build, optional UV
 - Ideal for low-risk area logistics
- Budget-friendly cleanroom solution



Mist Air Shower

Disinfects surfaces using automated mist spray.

- Fine mist nozzles with timer control
 - Available in static/dynamic models
- Reduces manual sanitization workload



Air Shower

Prevents contamination entry with high-velocity air jets.

- Multi-directional jets with sensor activation
 - Easy-clean modular construction
- Ensures personnel/material decontamination

Mobile Trolley

Sterile-grade transport across production floors.

- SS frame with smooth, sanitized design
- Lockable wheels & anti-static features
- Maintains hygiene during movement



ORAB (Open RABS)

- Open barrier with sterile airflow for Grade A operations.
- HEPA-filtered unidirectional flow
- Glove ports for safe interaction
- Ideal for semi-isolated aseptic processes



CRAB (Closed RABS)

Fully enclosed system for critical aseptic zones.

- Full glove port enclosure with return air
- Enhanced product/operator protection
- Ideal for sterile fill & high-risk areas



Micro Sprayer

Delivers ultra-fine mist for controlled disinfection.

- Precision misting with adjustable output
- VHP/disinfectant compatible
- Enhances air & surface sterilization



Air Cutter

Compact air knife to blow off dust from surfaces.

- **Filtered air with adjustable pressure**
 - **Easy-mount or handheld use**
- **Effective pre-cleanroom decontamination**



De-Dusty Booth

Automated particle removal booth before cleanroom entry.

- **High-velocity jets with sensor control**
 - **Touchless access & side extraction**
- **Boosts cleanroom hygiene & compliance**



Garment Cubicle

Sterile storage for cleanroom garments.

- **UV light & HEPA filtration**
- **Digital monitoring, auto-shut doors**
- **Preserves ISO-class garment integrity**

Aseptic Line Equipment

Engineered for Sterile Drug & Liquid Filling Processes

Sterile Aircare's aseptic solutions cater to filling, sealing, washing, and packaging operations in pharmaceutical production. Built for absolute sterility and precision handling, our line supports automated workflows, reducing manual contamination risks.

Why clients prefer our aseptic systems:

- Custom configurations for vial/ampoule compatibility.
- High throughput with minimal product loss.
- Robust construction for 24/7 industrial reliability.
- Seamless integration with isolators or passboxes.

Aseptic Line Solutions

1. Inspection (MLC)

Manual to automatic inspection of filled units for defects.

- High-resolution camera systems
- Rejection of non-compliant containers
- Ensures 100% QC compliance



2. Sterilization Tunnel

Continuous dry-heat sterilization of washed vials and ampoules, eliminating endotoxins before filling.

- 3-zone HEPA-filtered design
- Validated temp mapping
- Cleanroom-grade construction



3. Filling, Bunging & Slopping (MLC)

Integrated precision filling and closure system under laminar flow for aseptic operations.

- Servo-based filling & real-time monitoring
- Tool-less format change
- CIP/SIP ready



4. Capping (MLC)

High-speed secure vial capping using GMP-grade automation.

- Magnetic clutch heads
- No-vial-no-cap logic
- Flip-off & aluminum cap support



5. External Decontamination Machine (EDM)

Removes bioburden from vial exteriors post-filling.

- High-pressure nozzles & drying tunnel
- SS enclosed system
- Minimizes contamination before labeling



6. Labeling (MLC)

High-speed, accurate labeling for serialization and traceability.

- Vision-assisted servo applicator
- Tamper-evident label support
- Serialization compliance

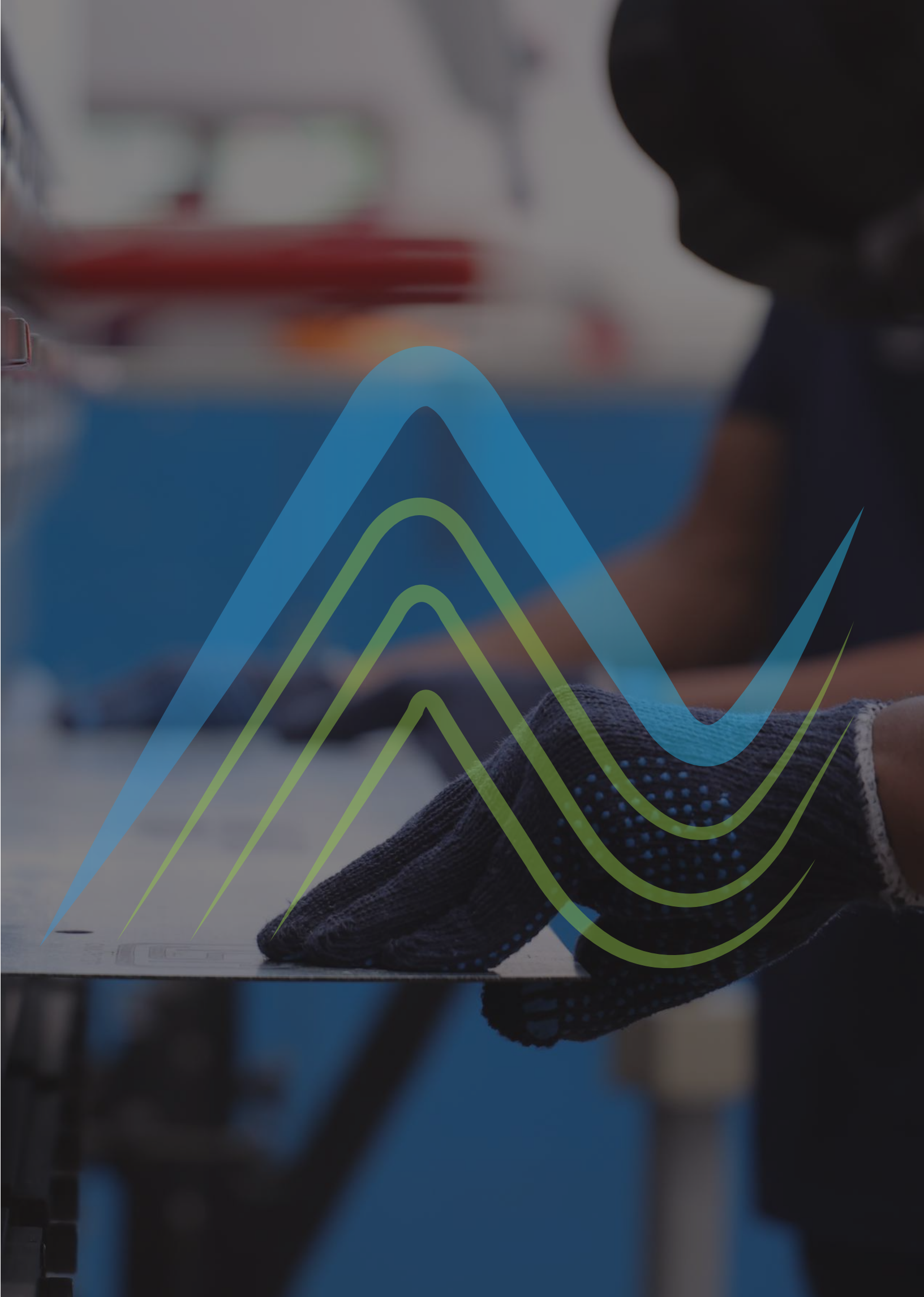


7. Washer – Vial/Ampoule

Automated internal & external cleaning of vials/ampoules, ensuring contamination-free containers for sterile filling.

- Multi-needle jet cleaning with PLC control
- SS316L contact parts
- GMP-compliant sterile washing





Isolator Solutions – Negative Pressure

Maximum Protection for Potent APIs & Hazardous Operations

Our negative-pressure isolators are tailored for high-potency drug handling, sampling, blending, reactor charging, filtration, and drying. These isolators ensure the safety of operators while maintaining product integrity in hazardous processing conditions. sterility and precision handling, our line supports automated workflows, reducing manual contamination risks.

Sterile Aircare Advantages:

- Operator safety via sealed containment systems.
- HEPA-filtered air circulation ensures zero emissions.
- Flexible glove-box designs for user comfort and control.
- Fully customized for process flow (blending, filtration, ANFD, VTD, etc.).

1. Dispensing Isolator

Negative pressure isolator for safe sampling/dispensing of potent drugs.

- Glove ports & continuous liner
- Safe-change HEPA filters
- ISO Class 5 containment



2. Milling, Blending & Pack-Off Isolator

Compact solution for powder processing and safe discharge.

- Integrated mill/blender interface
- Negative pressure with pressure cascade
- Wash-in-place (WIP) ready



3. ANFD Isolator

Isolated system for drying and discharging APIs with full integration.

- ANFD compatibility
- Anti-static transparent panels
- Safe product recovery



4. Reactor Isolator

Custom enclosure for reactors processing potent APIs.

- Multi-port glove access
- CIP/WIP compatibility
- Real-time pressure monitoring



5. Shifter Isolator

Contained vibratory sifting for particle size separation of HPAPIs.

- Negative pressure with laminar airflow
- Integrated vibratory sieve
- Continuous liner for safe discharge



6. Glove Box

Compact sealed chamber for sensitive R&D operations.

- Transparent anti-static panels
- Inert gas optional
- Ideal for small-batch handling



7. VTD Isolator

Vacuum Tray Dryer Isolator for API drying under safe, visible conditions.

- Integrated trays & discharge ports
- Negative pressure containment
- Transparent access panels



8. Nutsche Filter Isolator (PNF)

Sealed system for pressure filtration and cake washing.

- Fully integrated PNF
- Anti-static gloves & liner systems
- CIP/WIP enabled



9. Pack-Off Isolator

Ensures safe final product discharge into containers.

- Continuous liner or split butterfly valve
- ATEX-compliant SS build
- Maintains cleanroom integrity



10. Drum Loading/Sampling Isolator

Safe transfer and sampling from drums into process lines.

- RTP ports with tilting drums
- Negative pressure & HEPA filters
- Sampling access via glove ports



11. Filtration Isolator

Secure filtration of liquid APIs under toxic or aseptic conditions.

- Inline filter integrity testing
- Dual glove access
- Skid-mounted SS frame



12. Reactor Charging Isolator

Safe transfer of materials into reactors under controlled conditions.

- Closed-loop negative pressure
- RTP port & ergonomic design
- Prevents operator exposure



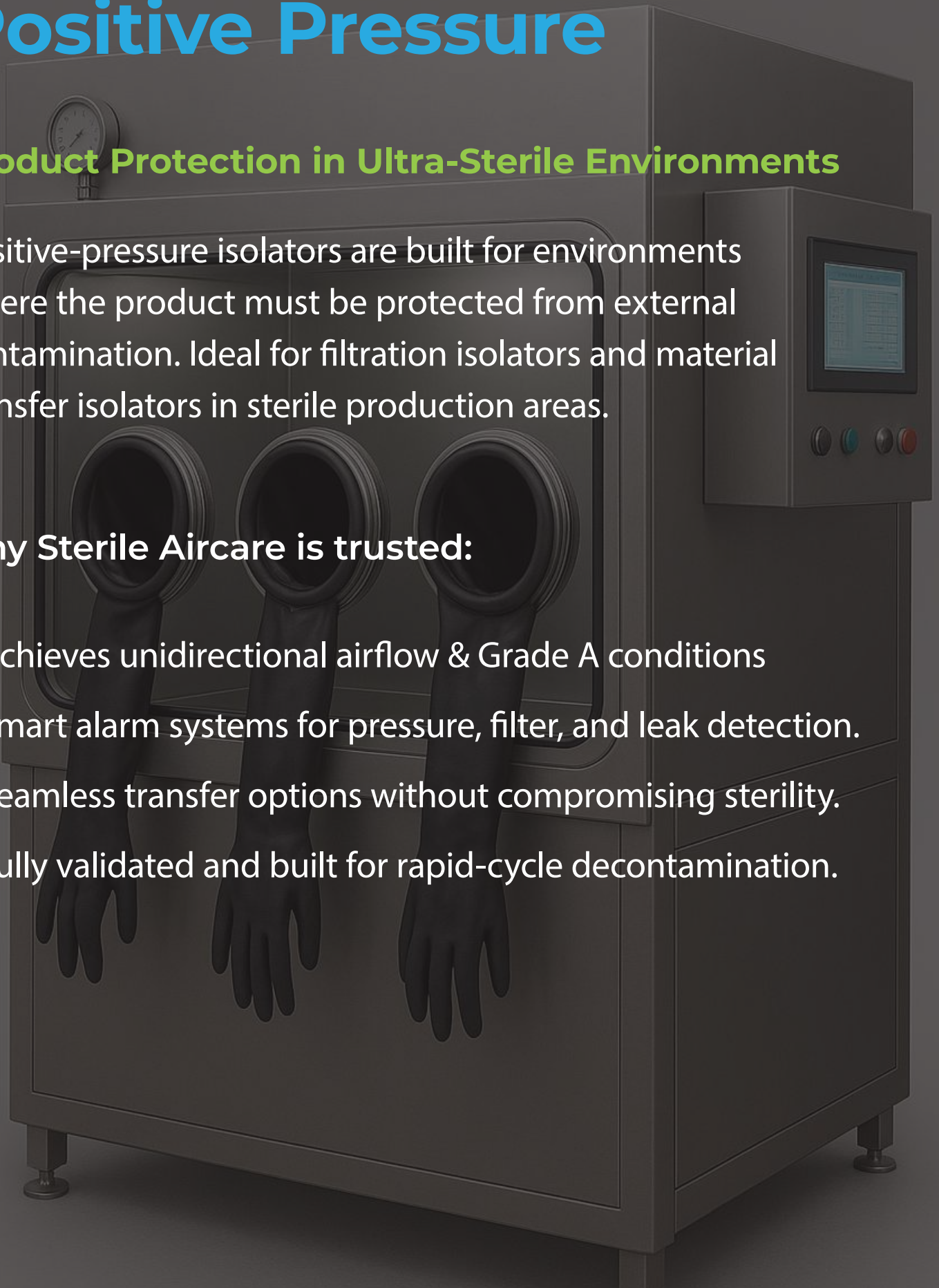
Isolator Solutions – Positive Pressure

Product Protection in Ultra-Sterile Environments

Positive-pressure isolators are built for environments where the product must be protected from external contamination. Ideal for filtration isolators and material transfer isolators in sterile production areas.

Why Sterile Aircare is trusted:

- Achieves unidirectional airflow & Grade A conditions
- Smart alarm systems for pressure, filter, and leak detection.
- Seamless transfer options without compromising sterility.
- Fully validated and built for rapid-cycle decontamination.



1. Filtration Isolator with Transfer Isolator

Integrated system for particle-free aseptic processing and sterile material transfer.

- Positive pressure with terminal HEPA (H14) filters
- Seamless, sterile transfer between environments
- Ergonomic glove ports for operator comfort
- Prevents contamination ingress
- Ensures sterile product handling
- Maintains clean integrity during filling/formulation



2. Positive Pressure Isolator

Barrier isolator for aseptic pharmaceutical operations under controlled positive pressure.

- GMP-grade SS construction
- Built-in HVAC & real-time pressure monitoring
- ISO Class 5 sterile workspace
- Protects product from external exposure
- Ideal for sterile compounding and filling
- Supports critical cleanroom operations



Design Team

The backbone of Sterile Aircare Solutions is our in-house design team, renowned for:

- Cross-functional collaboration
- CAD-led precision planning
- Real-time adaptation for site-specific needs
- Working seamlessly with clients, vendors, and site engineers
- Delivery of tailor-made designs within record timelines
- **We don't just design — we co-create with our clients. Every solution is born out of need, backed by science, and optimized by experience.**



Why Clients Trust Us

Customization at Every Level

No one-size-fits-all. We build to suit your space, budget, and purpose.

On-Time. Every Time.

Timelines are sacred to us. We deliver what we promise.

Zero Compromise on Safety & Quality

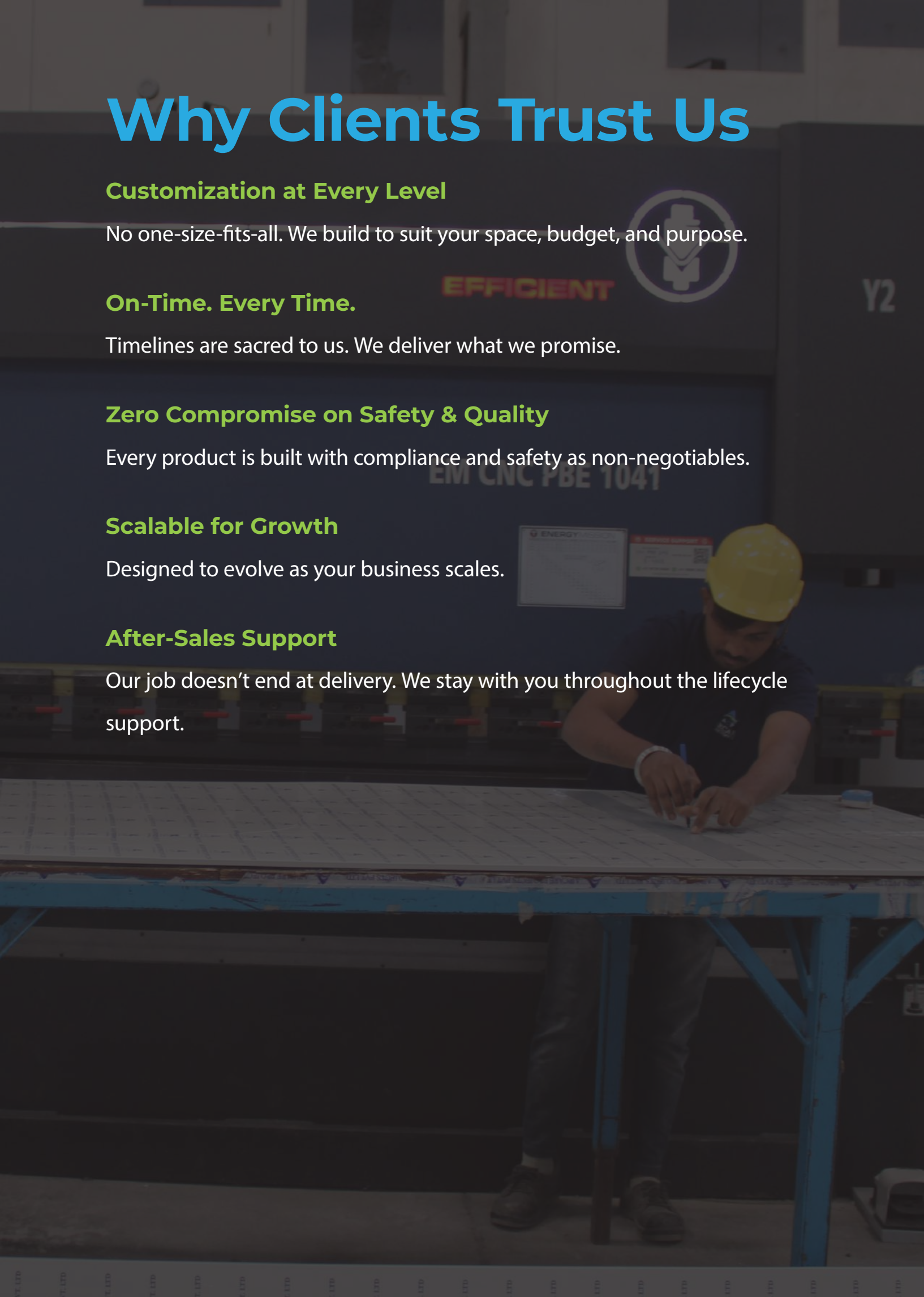
Every product is built with compliance and safety as non-negotiables.

Scalable for Growth

Designed to evolve as your business scales.

After-Sales Support

Our job doesn't end at delivery. We stay with you throughout the lifecycle support.





Certifications & Compliance

- ISO 9001:2015 Certified Manufacturing Unit
- CE and RoHS Compliant Products
- Government & Private Sector Approvals
- Lab-Tested & Clinically Validated Performance Reports

Let's Connect

For product inquiries, bulk orders, or customized solutions: Sterile Aircare Solutions

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