Airmax Gujarat Pvt. Ltd.

Technocrates in Cleanroom
HVAC Solutions

Expertise, Innovation & Global Impact Since 1992

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Introduction & Company Overview

Welcome to Airmax Gujarat Pvt. Ltd.

01

Pioneers in Cleanroom HVAC

- Delivering **turnkey HVAC solutions** for pharmaceutical cleanrooms since 1992
- Expertise across **Oral Solid, Injectable, Biotech, Potent Drugs, and more**

02

Global Experience & Reach

- Over **400 projects** executed in **9+ countries**
- Serving clients across India and internationally in Africa, Central Asia, and South Asia

03

Commitment to Quality & Compliance

- Facilities designed to meet **USFDA, EMA, WHO, PIC/S** standards
- Comprehensive support during regulatory audits

04

Experienced & Dedicated Team

- 200+ Airmax family members with deep pharmaceutical sector expertise
- Specialized departments ensure seamless project execution

05

Client-Centric Approach

- Long-term relationships built on **trust and genuine recommendations**
- Tailored solutions from design to handover for every unique facility

Our Legacy and Growth Story



Pioneering Since 1987

- Started as a commercial and residential air conditioning provider
- Transitioned to specialized **pharma HVAC solutions** under visionary leadership



Decades of Industry Expertise

- Over **32 years** dedicated to pharmaceutical cleanroom environments
- Executed 400+ projects across **9+ countries**



Trusted by Global Pharma Leaders

- Long-term client relationships, some spanning **20+ years**
- Compliant with USFDA, EMA, WHO, PIC/S standards

Global Presence & Project Footprint

Founded in 1987

Started with commercial and residential HVAC solutions

Transition to Pharma Sector

Became leaders in pharmaceutical cleanroom HVAC

PAN India Expansion

Projects delivered across regions like Sikkim and Guwahati

International Footprint

Projects in Ghana, Gabon, Kenya, Uganda, Uzbekistan, Sri Lanka

400+ Projects Delivered

Serving clients in 9+ countries globally

Services

“We don't just execute projects; we build relations that last a lifetime”

Stages of Project

Desing Phase	Execution Phase		Validation Phase
Design Qualification (DQ)	Installation Qualification (IQ)	Operational Qualification (OQ)	Performance Qualification (PQ)
Basic and Detailed Engineering	Detailed Engineering	SOP Design	SOP Design
GMP Review and Value Addition	Material procurement	Personnel Training	Personnel Training
Risk Assessment	FAT and SAT	Testing and Operation of HVAC Systems	System Wise Testing to evaluate the performance of HVAC Systems
Technical Submittals	Supervision and Installation	Qualification Test Reports	Validation Test Reports as per ISO 14644
Final Approved Drawings for execution	Material/Instrument Calibration Certificates		

Our Scope and Regulatory Compliance Expertise



Scope of Work

- High Side (Chilled water and Hot Water Systems, DX Systems)
- Low Side
- Building Monitoring System (BMS) in compliance with USFDA 21 CFR Part 11
- Environmental Monitoring Systems (EMS)



Global Regulatory Compliance

- Projects designed to meet **USFDA, EMA, WHO, PIC/S, TGA, and MHRA** standards
- Experience with audits for diverse international markets



Audit Support & Peace of Mind

- Comprehensive assistance and backup during regulatory audits
- Ensuring smooth audit processes for client facilities



Proven Track Record

- Successful execution of 400+ projects in 9+ countries
- Long-term client relationships built on trust and compliance

Diverse Pharmaceutical Applications

01

Comprehensive Dosage Coverage

- Expertise in Oral Solid & Liquid, Injectables, Ointments, Creams, Lotions, and Metered-Dose Inhalers

02

Specialized Solutions for Potent Drugs

- Advanced HVAC for **hormones**, **oncology**, and high-potency pharmaceuticals

03

Biotech & API Facility Expertise

- Turnkey solutions for Biotech (MAB), Active Pharmaceutical Ingredients, and complex cleanroom environments

04

Regulatory-Ready Cleanroom Design

- Projects compliant with **USFDA**, **EMA**, **WHO**, and other global standards

Case Studies

ORAL SOLID DOSAGE (OSD)



- OSD (Tablet, Capsule) and Oral Liquid
- Designed with Chilled Water and Hot Water System
- AHU (Air Handling Units) and ACD (AHU cum Dehumidifiers -for low RH Areas)- Catering to QC and Micro, Warehouse, and Production Area: 96-100 Units
- Environmental Monitoring System (EMS) for better and more efficient monitoring
- PLANT TONNAGE: 1800 TR

INJECTABLES



- Three Manufacturing Lines - Vial and Dry Powder with Lyopholizer, and Bulk Manufacturing
- Designed Chiller with Heat Pump for better and more efficient operational savings with primary variable pumping system
- AHU and Dehumidifiers (for low RH Areas), Treated Fresh Air Units Catering to QC and Micro, Warehouse, and Production Area: 86-90 Units Area: 8500-9500 Sq. Mtrs.
- PLANT TONNAGE: 1200 TR

POTENT DRUGS



- A state of the art - API, OSD and Injectable, Micro/QC, F&D and R&D Oncology Lines all comprised in the approximately 8000 Sq. Mtrs. facility
- Catering to international market for Oncology Drugs and approved by regulatories such as EU GMP, WHO, PIC/S and so on.
- Designed Chiller with Heat Pump for better and more efficient operational savings with primary variable pumping system
- Bag In Bag Put (BIBO) designed for potent drugs
- ACDs (AHU Cum Dehumidifiers) for low RH requirement areas
- Flame Proof AHUs for areas which are highly flammable
- Complying to 21 CFR Part 11 BMS and EMS System
- PLANT TONNAGE: 1100 TR

BIOTECH



- A state of the art Biotech Facility for Monoclonal Antibody in the Pithampur Region
- The design is done with TFA units in the service area catering to the AHU along with Fumigation/ Defumigation when necessary.
- Complying to 21 CFR Part 11 BMS Systems
- AHU/TFA/Ventilations/ Fans/VRV Systems
- PLANT TONNAGE: 500 TR

SOFT GELATIN CAPSULES (SOFT GEL)



- Five Drying Lines with drying area designed with horizontal Supply and Return
- Low RH Area controlled by ACD Units, for RH less than 20%
- Complying to 21 CFR Part 11 BMS and EMS System
- Plant Designed with Brine System for 35% RH
- AHU UNITS: 37 Units

- PLANT TONNAGE: 450 TR

ACTIVE PHARMACEUTICAL INGREDIENTS (API)





- Campus spread over roughly 150 acres, comprises of a QC Block, RM and FG warehouses, Micro/QC Block, and 5 Powder Processing (Intermediate and Pharma) Blocks
- Chilled Water/Hot Water System and DX/Heater Systems to cater to 57 AHU and Ventilation Units
- PLANT TONNAGE: 600 TR

Dosage-Wise Excellence



Diverse Dosage Project Portfolio

- Executed HVAC solutions for **OSD, Injectables, APIs, Soft Gels, and Biotech** facilities
- Projects span from **general to potent drugs** including hormonal and oncology lines



Tailored Cleanroom Solutions

- Custom-designed systems for **unique facility requirements** and regulatory compliance
- Expertise in low RH, flame-proof, and BMS/EMS integrated environments



Global Reach & Regulatory Success

- Projects delivered in **9+ countries** with approvals from USFDA, EMA, WHO, PIC/S
- Comprehensive support during regulatory audits for seamless compliance

Our People, Our Strength

Key Strength	Details
Pharma Facility Design Experience	33+ years in pharmaceutical sector; 400+ projects in 9+ countries
Dedicated Team	200+ Airmax family members with backgrounds in design, operations, and maintenance
Client Relationships	Clients associated for 20+ years; genuine, client-focused recommendations
Comprehensive Services	In-house specialists for all project phases; minimal client interfaces
24/7 Regulatory Support	Assistance during audits (USFDA, EMA, WHO, PIC/S)

Why Airmax & Client Relations

Why Choose Airmax?

Decades of Industry Leadership

- Over **32 years** delivering HVAC solutions for pharmaceutical cleanrooms
- Executed **400+ projects** across 9+ countries

Regulatory Compliance Expertise

- Systems designed to meet **USFDA, EMA, WHO, PIC/S** standards
- Full support during regulatory audits for peace of mind

Client-Centric Approach

- Long-term relationships—clients with us for **20+ years**
- Tailored solutions from design to handover, ensuring energy efficiency and world-class quality

Comprehensive In-House Expertise

- Dedicated teams for sales, engineering, projects, and service
- Staff with hands-on experience in pharma facility operations and maintenance

Innovative & Flexible Solutions

- Advanced systems: BMS, EMS, dehumidification, and energy-saving technologies
- Proactive project management to anticipate and resolve bottlenecks

“We anticipate the bottle necks and swiftly target them to prevent disruption to the ever challenging timelines of our industry”

Key Takeaways & Next Steps

01

Comprehensive Cleanroom HVAC Expertise

- Over **32 years** of specialized experience in pharmaceutical HVAC solutions
- Executed **400+ projects** across 9+ countries, supporting diverse dosage forms

02

Regulatory-Ready Solutions

- Systems designed for compliance with **USFDA, EMA, WHO, PIC/S** and more
- Full support during regulatory audits for seamless approvals

03

Client-Centric Partnership

- Long-term relationships—clients with us for **20+ years**
- Dedicated teams ensure fast-track project completion and ongoing support

04

Next Steps

- Connect with Airmax for a tailored consultation and discover how we can elevate your facility's performance

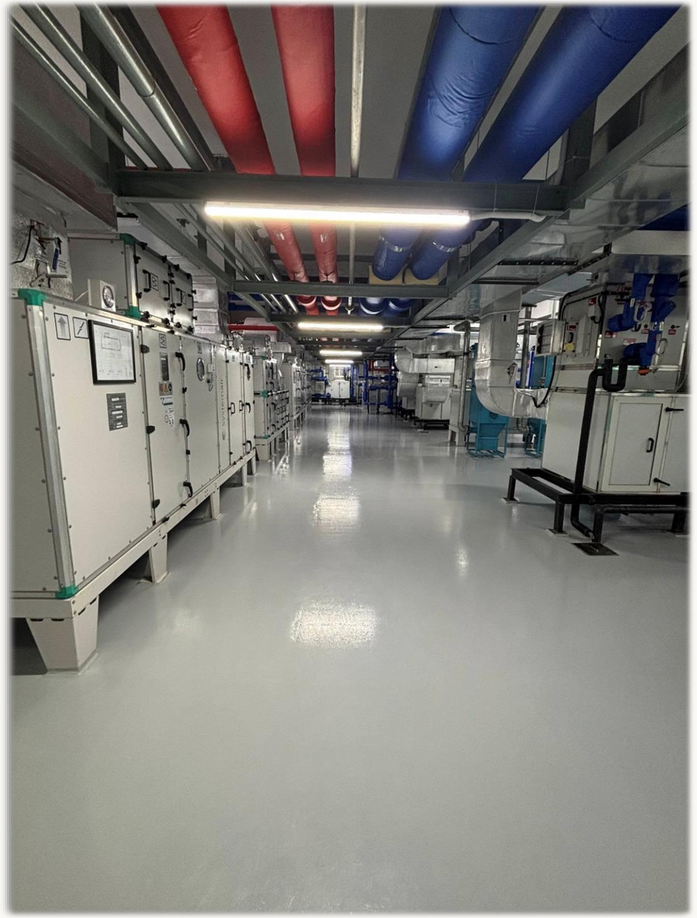
Some of Our Esteemed Clients

SOME OF OUR CLIENTS ACROSS GLOBE:



Gallery









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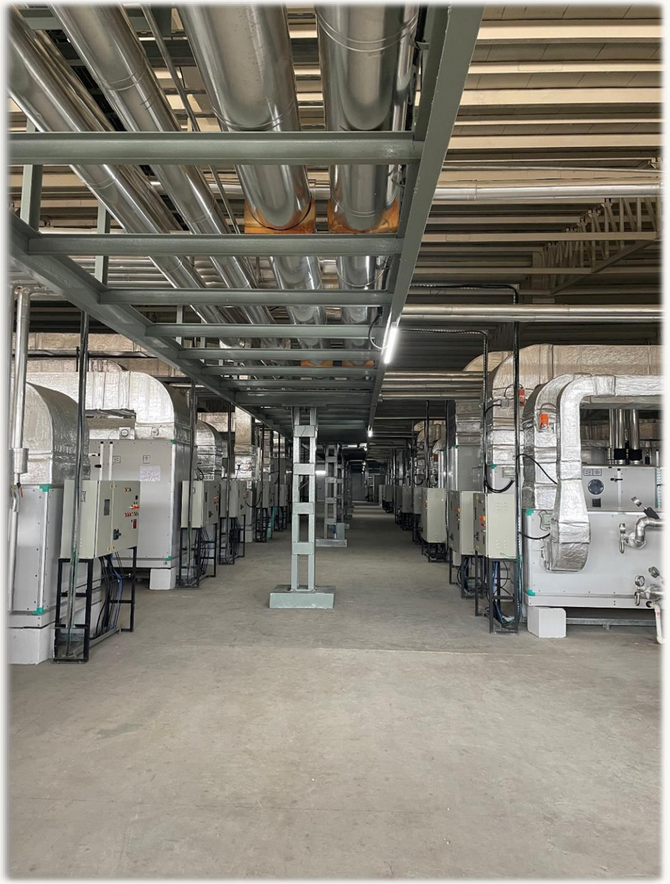
ARMSTRONG





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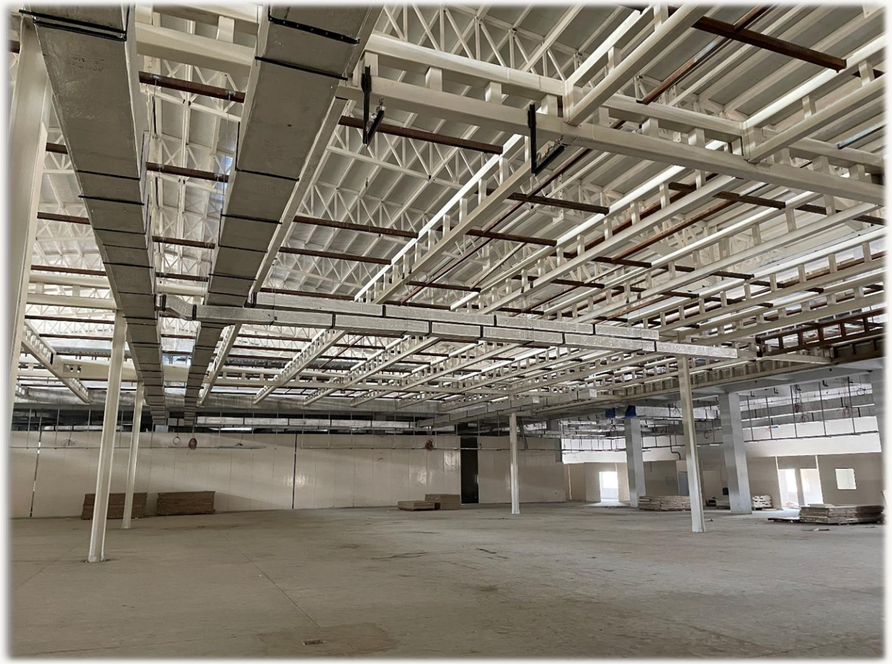


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