

By Pass VAV



Valves & Nozzles

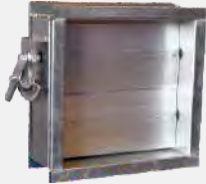
AEROSYS
 HVAC SOLUTIONS LLC
www.aerosysuae.com



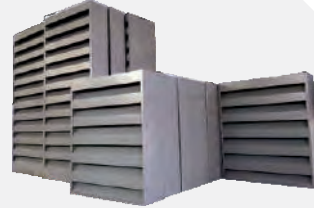
MS Duct



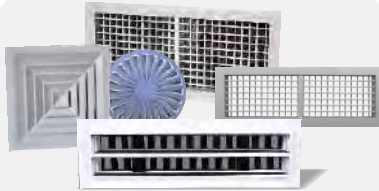
Motorized Fire
Smoke Damper



Volume Control Damper



Acoustic Louver



Grilles & Diffusers

**Better Air,
 Better Life...**



COMPANY PROFILE

AEROSYS HVAC SOLUTIONS LLC has been established in 2020, designs and manufactures durable, high-performance control dampers for industrial and commercial building ventilation. Constructed from heavy-duty, high-quality steel, and utilizing the most advanced equipment in the industry, **AEROSYS** dampers are built to withstand the toughest and most demanding environments. They can also be custom-engineered to meet the precise needs of any ventilation or process application. AEROSYS's experienced and professional team ensures product quality through continuous commitment to research & development, and by implementing new technologies.

About us

AEROSYS HVAC SOLUTIONS LLC, a limited liability company, is strategically positioned within the UAE market. **AEROSYS** has become a leading HVAC (Heating, Ventilating, and Air Conditioning) manufacturer and supplier in the UAE and overseas, offering a wide range of products, services, and technologies to various sectors, including construction, commercial, industrial, oil & gas, and power plants. The company is equipped with comprehensive engineering capabilities to meet International standards.



Objective

To ensure customer satisfaction and build lasting relationships based on reliability and positive experiences, we deliver products manufactured to meet all technical

Quality

We prioritize quality to meet our objectives. All company operations are conducted in strict adherence to established standards, procedures, and specifications. Rigorous quality assurance programs ensure that all product integrity



Customer Service

AEROSYS is committed to 100% customer satisfaction and meticulously strives to maintain enduring and healthy relationships with its customers. We are proud to offer the most comprehensive and complete range of products in the Air Movement and Control Association Industry. The company recognizes the vital importance of meeting or exceeding customer expectations and will respond promptly, courteously, and efficiently to customers at all times. Keeping industry trends and client requirements in mind, we seek to continuously innovate in a quest for greater customer satisfaction.

Technical Expertise

We are dedicated to providing superior HVAC and air handling products, leveraging the expertise of our technical and experienced professionals to meet key market demands. Our qualified and talented workforce, including engineering professionals, ensures we can fulfill high product demand. Beyond our standard product offerings, we also specialize in customized solutions tailored to specific client requirements, all while maintaining rigorous compliance with international quality and safety standards.

Competitive Rates & Timely Delivery

To provide maximum value, AEROSYS ensures its products and pricing remain highly competitive. We strive to maintain a competitive edge over our suppliers and prioritize on-time delivery to guarantee a smooth and uninterrupted experience for our customers.

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MOTORIZED VOLUME CONTROL DAMPER

MODEL : AERO - MVCD - 4A/4B

4A – Normal flanged type
4B – Low leakage flanged type



AEROSYS offers medium duty ventilation, motorized multi leaf volume control dampers (MVCDs) for precise volume, flow, and pressure control. Square Blade options include single skin galvanized iron or double skin aerofoil aluminum/galvanized iron. UL555S Class 2 or 3 low leakage requirements are met with blade and stainless steel jamb seals. Standard parallel blade movement can be changed to opposed. Electric actuators are used for operation. MVCDs are engineered for high-pressure handling and low pressure drop.

W-Wall mounted type
D-Duct mounted type
F-Flush mounted type

PRESSURE RELIEF DAMPER

MODEL : AERO - PRD - W/D/F

AEROSYS pressure relief/gravity dampers are designed to automatically regulate room or duct pressure by opening blades when a pre set pressure is exceeded. These dampers feature a common linkage and optional adjustable counterweights to customize pressure settings according to site requirements. Standard construction consists of a galvanized frame and aluminum blades, but full galvanized or stainless steel (316/304L) construction is also available. While mill finish is standard, powder coating can be provided upon request.



ACCESS DOOR

MODEL : AERO - AD - R1 / R2

R1 – Rectangular shaped with 25mm depth of door
R2 – Rectangular shaped with 50mm depth of door



AEROSYS access doors provide convenient and economical access to duct components within ductwork. These doors feature insulated door panels and gaskets between the door and frame, ensuring a tight seal without obstructing system airflow. Available in hinged or double cam constructions, the standard material is galvanized steel sheet, with stainless steel (316/304L) available upon request.

MILD STEEL DUCT
MODEL : AERO - MSD

Features: Less maintenance
Resistance to corrosion Non-combustible

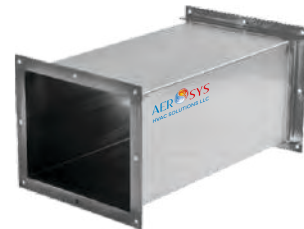


AEROSYS provides a wide range of accurately fabricated mild steel (MS) ductwork. Utilizing mild steel with 0.16–0.29% carbon for optimal strength and formability, these ducts are ideal for kitchen exhaust systems due to their fire resistant properties, which can be improved with fire rated sprays or red oxide paint. AEROSYS produces rectangular (lined/unlined), round, spiral, and straight ducts, tailored with advanced technology. Available in diverse thicknesses, these ducts serve applications in food processing, chemical, metal finishing, pharmaceutical, battery, clean room, and laboratory environments.

Grade SS316L & Grade SS304

Within its comprehensive ducting systems, AEROSYS also manufactures stainless steel ducts, designed for businesses and large manufacturing companies requiring specialized, high volume, and industrial applications. Stainless steel ductwork is recommended for these demanding applications due to its inherent strength and rigidity. AEROSYS offers stainless steel ducts in two grades: SS316L and SS304.

STAINLESS STEEL DUCT
MODEL : AERO - SSD



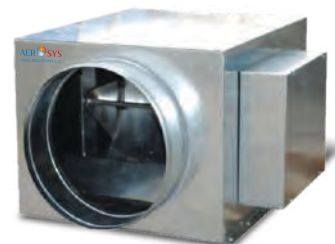
VARIABLE AIR VOLUME - BY PASS
MODEL : AERO - VAV - B1/B2



AEROSYS bypass VAVs provide cost-effective zoning flexibility from a single zone source, ensuring precise temperature control and centralized air distribution. By bypassing excess conditioned air to the main unit, they reduce multi zone system costs and minimize reheat coil requirements. These VAVs are simple to install, work with any building or office air conditioning unit, and allow for easy modification or relocation.

VARIABLE AIR VOLUME - PRESSURE DEPENDENT
MODEL : AERO - VAV - PD

For cost effective zoning flexibility from a single-zone source, pressure dependent VAVs combine proven air handling techniques. They provide precise temperature control and centralized air distribution with unlimited zoning, utilizing common bypassing with Variable Zone Dampers (VZD). These VAVs efficiently redirect air from unwanted to demand related zones, mimicking multi zone system benefits. Installation is simple, compatibility extends to various air conditioning units, and modifications or relocations are easily achieved.



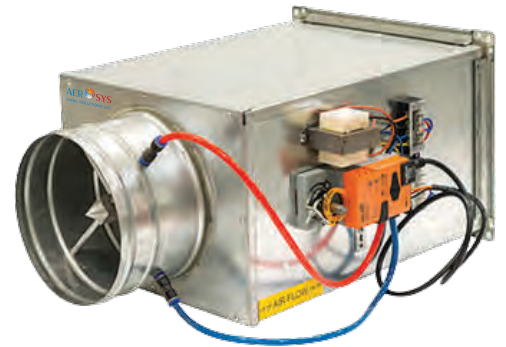
VARIABLE AIR VOLUME PRESSURE INDEPENDENT MODEL : AERO - VAV - PID



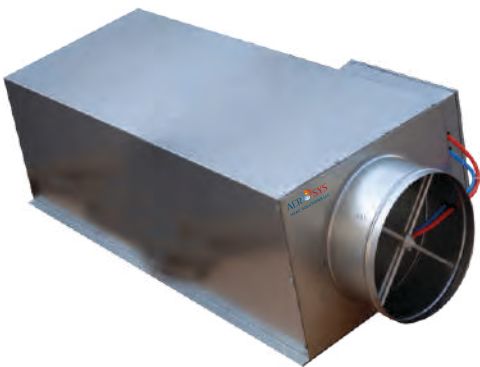
For flexible zoning at a mid range cost, pressure independent VAVs utilize proven air handling techniques. They provide variable or constant air volume, ensuring precise temperature control and centralized distribution with unlimited zoning, through common bypassing with Variable Zone Dampers (VZD) or Variable Frequency Drives (VFD). Efficient air redirection from unwanted to demand zones simulates multi zone system advantages. Installation is simple, compatibility extends to various air conditioning units, and modifications or relocations are easily achieved.

VARIABLE AIR VOLUME - INDUCTION VAV MODEL : AERO - VAV - IND

Induction VAV terminals are designed to deliver precise conditioned air supply, matching room temperature variations while maximizing energy efficiency. These VAVs combine ceiling plenum air with primary supply air to ensure optimal room conditioning. The conditioned supply air (primary air), flowing through a carefully engineered variable aperture "flow grid," induces warm plenum air without the need for integral fans. Featuring multi-stage heating options, built in sound attenuators for noise reduction, and a simplified installation process, these VAVs are highly preferred for offices, buildings, malls, schools, and other similar spaces. They can also be modified and installed to meet specific requirements.



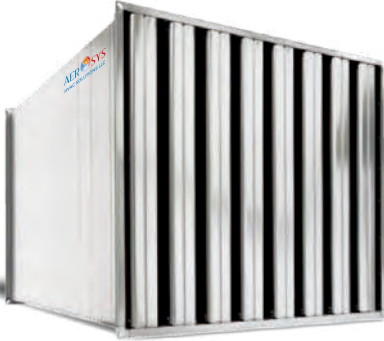
VARIABLE AIR VOLUME - CONSTANT AIR VOLUME MODEL : AERO - VAV - CAV



Pressure independent CAVs offer complete zoning flexibility at a moderate cost from a single zone air source, combining proven air handling concepts. These CAVs deliver constant air volume as programmed, providing excellent performance and temperature control for centralized air distribution systems with unlimited zoning capacity, by supplying constant air volumes to individual zones. By redirecting centralized air from unwanted zones to demand related zones, they offer the benefits of multi zone systems. These CAVs are easy to install, compatible with packaged, ducted, or air handling units in any building or office, and can be readily modified or relocated to accommodate interior changes.

SOUND ATTENUATOR
MODEL : AERO - SA - GI/SS

Construction:
Galvanized Steel Application: Low Leakage



AEROSYS sound attenuators effectively reduce loud noises, handling high air capacities with low pressure drop. Designed for velocities up to 1600 fpm (8 m/sec) and pressures up to 2" wg (500 Pa), these square and rectangular attenuators, installed vertically or horizontally, meet DW-144 Class-C standards for airflow and leakage. Double skin splitter construction and bell-nose inlets minimize noise radiation and turbulence. AEROSYS factory calibration ensures superior noise attenuation.

Construction:
Galvanized Steel Application: Low Leakage

SOUND ATTENUATOR – CYLINDRICAL
MODEL : AERO - SA - CS - GI/SS

Cylindrical sound attenuators are designed to reduce loud noises, handling maximum air capacities with minimal pressure drop. These attenuators operate at velocities up to 1600 fpm (8 m/sec) and pressures up to 2" w.g. (500 Pa). They can be installed vertically or horizontally and are rated for airflow and leakage according to DW-144 Class-C standards. Installed within ductwork between spaces, they reduce airborne noise to match the sound transmission loss of the separating structure. Cylindrical attenuators are particularly effective where significant low-frequency noise reduction is required.



ACOUSTIC LOUVER
MODEL – AERO - AL - 1FB/1VB/1AB

1FB – Flat Blade Design
1VB - V - Shaped Blade Design
1AB – Foil Shaped Blade Design



AEROSYS acoustic louvers reduce mechanical equipment noise through building openings and enclosures. Constructed from galvanized steel, stainless steel, or aluminum with diverse finishes, they meet ASTM and AMCA standards for noise and pressure. Bird screens are optional. Proper sizing is essential for minimal pressure drop, and AEROSYS acoustic engineers offer expert selection assistance. Applications include noise control for air intakes, exhaust vents, and barriers around outdoor equipment like cooling towers and chillers.

WEATHER LOUVER

MODEL : AERO - WL - 1W/D/F

1W – Wall Mounted
1D – Duct Mounted
1F – Flush Mounted



AEROSYS weather louvers are designed with a weatherproof external coating for air inlets and discharge openings, suitable for most external walls and screening applications. These louvers consist of a frame and horizontal blade assembly, manufactured from high-quality extruded aluminum profiles. Blades are rigidly fixed to the frame with rivets, set at a 45/35 degree angle to the horizontal with 40/60/80 mm spacing, and inclined downward to prevent rainwater ingress. Manufactured to AMCA standards for pressure drop and efficiency, these louvers can also be supplied with bird screens and aluminum filters for fresh air intake. Weather louvers are available in extruded aluminum, galvanized steel, or stainless steel, offering corrosion resistance and rigidity. Their construction complies with ADC 1602 and DW142 Class C standards.

1W – Wall Mounted
1D – Duct Mounted
1F – Flush Mounted

SAND TRAP LOUVER

MODEL : AERO - STL - 1W/1D/1F

For weatherproof air intake and discharge, AEROSYS sand trap louvers effectively separate sand and dust. These louvers, crucial for ventilation and air handling units, feature a robust design of extruded aluminum, galvanized steel, or stainless steel for corrosion resistance. Meeting ADC 1602 and DW142 Class C standards, they are suitable for external wall and screening applications.



SUNSHADE LOUVER

MODEL : AERO - MSL - A

Construction: Aluminum



To prevent solar heat gain, motorized sunshade louvers block sunlight and integrate with building control systems. These louvers offer an attractive solution for managing light and heat, allowing natural light while obstructing unwanted sun. Aerofoil blades add an architectural design element.

METALLIC FILTER
MODEL : AERO 1 - 4"/6"

Aluminum / Galvanized Steel / Stainless Steel Frames
Leakage Proof Frame Styles

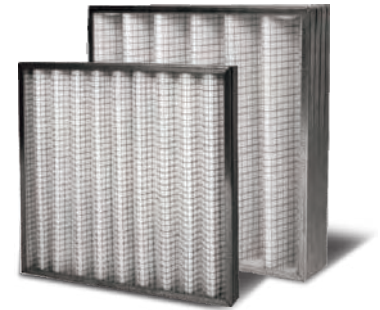


AEROSYS provides a full range of metallic filters for residential, commercial, and industrial use. These filters, available in standard, custom, and specialized options, meet nearly any air filtration need with high quality and long lasting efficiency. AEROSYS manufactures metallic filters with aluminum or stainless steel media and various frame materials, including aluminum, galvanized iron (GI), and stainless steel.

Aluminum / Galvanized steel / Stainless Steel Frames
Leakage proof Frame styles

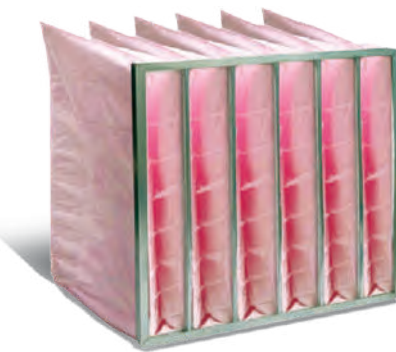
AEROSYS provides a full range of synthetic filters for residential, commercial, and industrial use. Available in standard, custom, and specialized options, these filters meet nearly any air filtration need with high quality and long lasting efficiency. Made from non woven cotton and polyester blends for high dust holding and maximum efficiency, AEROSYS synthetic filters feature aluminum, galvanized iron (GI), or stainless steel frames.

SYNTHETIC FILTER
MODEL: AERO 2 - 4" / 6"



BAG FILTER
MODEL : AERO 3 - 4" / 6" / 8"

Galvanized steel / Stainless Steel Frames
Leakage Proof Frame Styles



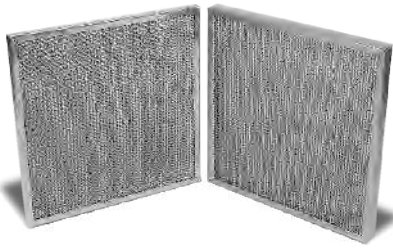
AEROSYS offers a full range of bag filters for residential, commercial and industrial use. These filters, available in standard, custom and specialized options, meet nearly any air filtration need with high quality and long-lasting efficiency. Designed for demanding centralized air conditioning systems, bag filters efficiently remove fine dust and aerosols. They feature robust galvanized or stainless steel casings with standard cell frames and high quality chemical or glass fiber filter media. Quick-release clamps and perimeter seals ensure accurate installation. The design and materials provide optimal airflow and corrosion resistance.

MEDIA FILTER

MODEL : AERO - 4" / 6"

Aluminum /
Galvanized Steel /
Stainless Steel Frames.

AEROSYS provides a full range of metallic filters for residential, commercial, and industrial use. These filters, available in standard, custom, and specialized options, meet nearly any air filtration need with high quality and long lasting efficiency. AEROSYS manufactures metallic filters with aluminum or stainless steel media and various frame materials, including aluminum, galvanized iron (GI), and stainless steel.



JN – Jet Nozzle
JD – Jet Diffuser

JET NOZZLE & DIFFUSER

MODEL : AERO - JN - JD

AEROSYS manufactures high-quality jet nozzles and diffusers for optimal heating and cooling performance. Jet nozzles are preferred when supply air must travel long distances to the occupied zone, particularly in large spaces like halls and assembly rooms where ceiling diffusers are impractical. Arranged along sidewalls, jet nozzles handle large air volumes and long throws, making them ideal for buildings with high ceilings, such as airport terminals, hotel receptions, atriums, shopping arcades, museums, sports centers, and department stores. Jet diffusers, suitable for commercial, public, and industrial premises, offer effective air mixing through their long throw length. They can be used individually or in series for enhanced efficiency and are designed for duct or connection box mounting.



PLENUM

MODEL : AERO - PL / PLC

PL – Plenum
PLC – Plenum with Control Damper

AEROSYS plenum boxes are designed to ensure uniform air distribution for linear slot diffusers. Available with side or top entry connections in customer-specified diameters and shapes, these plenums can be fitted with spigot flap control dampers and feature 13 or 25 mm thick internal acoustic lining to minimize noise generation. Standard construction is galvanized steel sheet, with stainless steel (316/304L) available upon request.



EGG CRATE GRILLE
MODEL : AERO - ECG



Construction: Aluminum / Stainless Steel Aero Foil Blades
Mesh Size : 12mm x 12mm

AEROSYS manufactures high performance egg crate grilles designed for commercial and industrial applications requiring low resistance and high to medium volume return or exhaust air. With a 90 percent free area, these grilles optimize return airflow, minimizing pressure drop and noise levels. Egg crate grilles can be ceiling or wall mounted. Constructed from assembled aluminum strips forming an evenly distributed square pattern, they ensure efficient airflow.

**Construction: Aluminum /
Stainless Steel Aero Foil Blades**

AEROSYS manufactures grilles for efficient air distribution in HVAC systems, offering excellent performance and low pressure drops across various air velocities. All square and rectangular grilles are designed for flexible volume and air pattern control. Air distribution patterns can be adjusted horizontally or vertically along walls or ceilings. Deflecting vanes and opposed blade dampers, adjustable from the grille face, allow for precise airflow control. The volume damper's unique design also functions as an equalizing grid. Single or multiple linear sections can be aligned using included strips. These grilles are constructed from high-quality extruded aluminum profiles.

GRILLE (SQUARE & RECTANGULAR)
MODEL : AERO - SAG / RAG



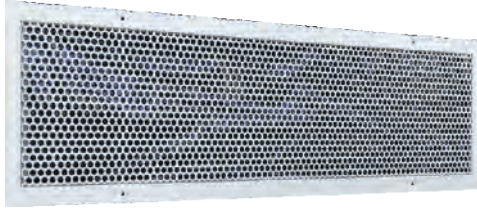
LINEAR BAR GRILLE
MODEL : AERO - SLBG / RLBG



**Construction: Aluminum /
Stainless Steel Aero Foil Blades**

AEROSYS manufactures linear grilles for efficient air distribution in HVAC systems, offering excellent performance and low pressure drops across various air velocities. All linear grilles are designed for flexible volume and air pattern control. Air distribution patterns can be adjusted horizontally or vertically along walls or ceilings. Deflecting vanes and opposed blade dampers, adjustable from the grille face, allow for precise airflow control. The volume damper's unique design also functions as an equalizing grid. Single or multiple linear sections can be aligned using included strips. These grilles are constructed from high-quality extruded aluminum profiles.

PERFORATED GRILLE / SECURITY GRILLE
MODEL: AERO - 10 / 20 - PG / SG



Construction:
Aluminum / Galvanized Steel Aero Foil Blades;
Low Leakage Frame Styles.

For effective HVAC air distribution, AEROSYS produces perforated/security grilles that minimize pressure drop and offer flexible air pattern control. Perforated models allow horizontal or vertical airflow adjustment via face-adjustable dampers. The volume damper also serves as an equalizing grid. These grilles are constructed from durable aluminum or galvanized iron (GI).

SCD- Supply Ceiling Diffusers
RCD- Return Ceiling Diffusers
1 Way; 2 Way; 3 Way; 4 Way.

CEILING DIFFUSER

MODEL: AERO- SCD / RCD - 1/2/3/4

AEROSYS manufactures circular and square ceiling diffusers for supply and extract air in ceiling applications. These diffusers, a long standing popular choice, are often standard air terminals in offices and shops. Their geometric design is aesthetically pleasing, particularly in square tile ceilings, and provides a 50% free area, ensuring high performance for both supply and extract. Offering one, two, three, and four way blow diffusers, AEROSYS provides a comprehensive range. We maintain a stock of four way blow ceiling diffusers in square sizes of 150mm, 200mm, 225mm, 300mm, 375mm and 450mm, finished in RAL 9010 or RAL 9016, guaranteeing industry leading delivery times for these sizes.



FIRE DAMPER

G- Galvanized Construction
SS*- Stainless Steel Construction
GS*- Combination of Galvanized & Stainless Steel Construction



AEROSYS produces UL 555-certified curtain-type fire dampers for HVAC duct and air transfer openings. These dampers close upon fire detection, preventing airflow and flame passage, and maintaining fire barrier integrity. Rated for 1½ or 3 hours of fire resistance, these dampers are selected based on wall or floor fire ratings, as per IBC Chapter 7 and NFPA 90A Chapter 5.

MOTORIZED FIRE SMOKE DAMPER



- G- Galvanized Construction
- SS*- Stainless Steel Construction
- GS*- Combination of Galvanized & Stainless Steel Construction

AEROSYS produces UL 555-certified multi blade, dynamic rated fire dampers with 3V blades for 1½-hour and 3-hour fire-rated walls, floors, and partitions. These dampers are designed for operational HVAC systems during fires and are suitable for both static and dynamic applications.

- G- Galvanized Construction
- SS*- Stainless Steel Construction
- GS*- Combination of Galvanized & Stainless Steel Construction

AEROSYS manufactures motor operated smoke dampers that close and prevent the circulation of air and smoke through ducts or ventilation openings in smoke barriers of passive smoke control systems. These dampers control smoke spread by utilizing walls and floors as barriers and employing the building's HVAC system or dedicated fans to create pressure differences in engineered smoke control systems. The product is tested and classified in accordance with UL Standard 555S.

MOTORIZED SMOKE DAMPER



- G- Galvanized Construction
- SS*- Stainless Steel Construction
- GS*- Combination of Galvanized & Stainless Steel Construction

Flanged heaters, available in single-phase or three-phase voltage ratings, feature heater coils mounted within a flanged duct section. The frame dimensions are precisely matched to duct dimensions, allowing direct attachment to the duct's external flanges. All control components are housed within the terminal box.

DUCT HEATER - DH



Slip-in heaters, available in single-phase or three-phase voltage ratings, are factory fitted into corresponding VAV or CAV units. This design is particularly useful in high-humidity environments to prevent condensation on the equipment. Slip-in heater VAVs offer several advantages, including allowing ductwork installation prior to VAV and heater availability, and simplifying system design. Furthermore, these units can be installed without requiring specialized support arrangements.

VAV WITH DUCT HEATER



QUALITY POLICY

AEROSYS HVAC SOLUTIONS LLC is committed to providing a range of services that meet customer requirements and quality standards, ensuring that programs are maintained on schedule at the agreed price. All work is carried out in a cost-effective and timely manner, adhering to the highest professional standards and complying with all relevant regulatory and statutory requirements. We aim for continual improvement and customer satisfaction through the involvement and participation of all levels of management, staff, and other interested parties. A quality policy conforming to the requirements of **ISO 9001:2015** has been established to ensure that it:

- Is appropriate to AEROSYS HVAC SOLUTIONS LLC's activities in concrete production, meets the expected level of customer satisfaction, and addresses the needs of other interested parties.
- Includes a commitment to meeting requirements and to continual improvement, with the necessary resources and contributions from suppliers and partners.
- Provides a framework for establishing and reviewing quality objectives.
- Demonstrates top management's commitment and ensures that quality objectives are communicated, understood, and implemented at appropriate levels of the organization.
- Is regularly reviewed at management review meetings for suitability and effectiveness, addressing continual improvement and client satisfaction.
- As a medium-sized but highly efficient and quality-conscious organization, many personnel have dual roles within its various aspects and functions. However, it is the organization's policy that these dual roles shall not deter personnel from their primary objective of providing quality service through an adequately controlled quality management system. The initial function of all management and employees is the maintenance of this objective.
- Management is ultimately responsible for making balanced judgments, assessing the significance of variations in this sphere, and making decisions. In arriving at such decisions, the quality and personal integrity of staff are of fundamental importance. In this context, every effort is made to ensure that each person in the organization understands the importance of quality assurance to their future, knows how they can assist in achieving adequate quality, and is encouraged to do so.
- This policy is approved by the undersigned and is supported by all levels of management within the organization. All personnel shall be guided by the contents of the quality management system, and no deviation from the established methods and procedures shall be permitted.

RMore

Rutuja Rajan More
Managing Director
AEROSYS HVAC SOLUTIONS LLC



FIRST QUALITY CERTIFICATION

Certificate of Registration

This certificate is hereby granted to the organization

AEROSYS HVAC SOLUTIONS L.L.C

PO BOX NO: 2611, PLOT NO: 540, UNIT NO: 23, BLOCK NO: 01, UMM THAOB,
UMM AL QUWAIN, UAE

This has been certified that the management system of the above organization has been audited and found to be in compliance with the First Quality Certification requirements for registration of the management system standard detailed below:

ISO 9001:2015

(Quality Management System)

Scope of work

- Air Conditioners Requisites Manufacturing
- Manufacturing Air Conditioning HVAC Requisite Equipment

Certification Registration No: FQC/Q/2346/AE


Initial Issue Date : 21 March 2024
1st Surveillance : 20 March 2025
2nd Surveillance : 20 March 2026
Certificate Expiry : 20 March 2027
(Subject to the company maintaining its system to the required standard)




Chief Executive Officer


The authenticity of this certificate can be verified online www.firstqualitycertification.ae or by email to the Head Office info@firstqualitycertification.ae



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