

PRODUCT CATALOGUE

Controlled Air

Engineered Solutions

02

**THE QUALITY YOU DESERVE
IS OUR GOAL**

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About

Mechanical Solutions

Since 2016, Mechanical Solutions has been redefining mechanical contracting across Iraq and Syria. We operate at the intersection of engineering excellence and real-world performance, delivering mechanical systems that power the future of construction through exclusive partnerships with leading European and Turkish brands.

Born from the demand for high-quality mechanical services, we are driven by purpose, supported by expertise, and built to exceed expectations. Every project we take on reflects our commitment to innovation, integrity, and industry-leading standards.

*This isn't just mechanical work.
It's engineered impact.*





VORTICE is a global leader in ventilation and air treatment solutions, with over 70 years of experience. Headquartered in Italy and active in more than 90 countries, the company engineers cutting-edge systems for residential, commercial, and industrial use — with a strong focus on sustainability, innovation, and comfort.

As an official dealer and partner, Mechanical Solutions proudly collaborates with VORTICE not only to distribute their internationally certified products, but also to bring you customized solutions manufactured to meet our unique project needs. We work closely with VORTICE to deliver reliable, efficient ventilation systems tailored to each project's specific needs.



DEALERSHIP

As an official VORTICE dealer, our certifications confirm a trusted partnership and proven technical expertise. They ensure we provide genuine, high-quality products that meet VORTICE's international standards.

2025



We have the pleasure to appoint the Company:

Mechanical Solutions

Erbil | Kurdistan Region | Iraq | Gulan Street – Star Towers – Block A – 9th floor – Office No.2

as our *Official Importer and Distributor* for the sale and marketing of Vortice products in Iraq for year 2025. VORTICE S.p.A. hereby recommends Mechanical Solutions as a promoter of sales and servicing of all products from Vortice catalogue.

VORTICE S.p.A.
Sede Legale: 1 - Firenze di 20090
20090 TREVANO (MI) - Tel. 02.590811

Export Sales Manager
Enzo Raccanelli
VORTICE S.p.A.



Certified 2023



Certified 2024



Our Dealership with Tecnosystemi

Tecnosystemi S.P.A, founded in 1992, is a leading Italian manufacturer of accessories for air conditioning, ventilation, heating, and photovoltaic systems. Known for innovation and stylish design, their products support efficient and professional HVAC installations.

As a Benefit Company, Tecnosystemi combines technical excellence with a strong commitment to sustainability, using renewable energy to reduce environmental impact.

Mechanical Solutions is proud to be an official dealer and partner, providing their certified products and custom solutions tailored to each project's needs.



DEALERSHIP

Our partnership with Tecnosystemi goes beyond products—it's built on shared values of quality, trust, and innovation. These certifications reflect not only our technical capability but also the strong relationship we have built as an official, trusted dealer.



Certified 2023



Certified 2024

M MECHANICAL SOLUTIONS

 **VORTICE**





Residential

PUNTO FILO



- Material: UV resistant plastic.
- Motor protected against thermal overload, with shaft turning in self-lubricating bushings.
- Non-return damper fitted to outlet port.
- Vortice speed controller.

Diameter Size: (92.5 to 156) mm – Air flow: (up to 355) m³/h

PUNTO FOUR



- Material: UV resistant plastic.
- Motor protected against thermal overload, with shaft turning in self-lubricating bushings.
- Vortice speed controller.

Diameter Size: (92.5 to 120) mm – Air flow: (up to 175) m³/h

VORT QUADRO



- Capacitor start 2-speed induction motor coupled to a forward bladed centrifugal impeller. Equipped with thermal overload cutout and self-lubricating bushings.
- Equipped with electronic timer designed to shut off the motor automatically after a set interval.

Outlet Diameter Size: 92.5 mm – Air flow: (up to 280) m³/h

Long Life
3000 h

Inline/Mixed Flow

LINEO

Diameter: (100 to 315)mm

Air flow: (up to 2,590) m³/h



LINEO QUIET

Diameter: (100 to 315)mm

Air flow: (up to 2,890) m³/h

- Fire-resistant plastic resin enclosure (Class E2, ISO EN 11925-2:2010)
- Induction motor with thermal protection and ball-bearing shaft, coupled to centrifugal impeller
- IPX5 water resistance when installed in ducted systems
- Speed adjustable via Vortice control devices
- Driven by three speed induction motors for optimal balance of performance, energy consumption, and noise emissions.



- Sound-absorbing casing, engineered to reduce environmental noise and duct-borne sound.

Ducted type



CA IN-LINE

- Galvanized steel casing and motor support, internally lined with 10 mm PE soundproofing.
- Three installation options: wall, ceiling, or false ceiling. Easy maintenance via hinged cover with direct motor access.
- IP44 protection against dust and water.

Diameter: (100 to 200)mm – Air flow: (up to 830) m³/h



CA MD

- Pickled and phosphated steel housing with polyester powder-coated finish, resistant to the aggressive action of atmospheric agents.
- Motor-fan, speed adjustable
- Operation controllable by remote sensors.

Diameter: (100 to 315)mm – Air flow: (up to 1,735) m³/h

Industrial/Wall Type



E-ATEX

- Axial plate-mounted fans designed for installation in potentially explosive environments.
 - Suitable for ATEX Group II classified areas with the presence of explosive gas or dust.
 - Ideal for industrial applications.
- Diameter: (250 to 630)mm – Air flow: (up to 6,900) m³/h



VORTICEL A-E

- Suitable for ATEX GPressed steel wall panel, polyester powder-coated with hammered finish.
 - 1-speed three-phase AC motor, Ball Bearing, Insulation
 - 6-blade impeller, die-cast aluminum hub, polypropylene blades, dynamically balanced.
- Diameter: (250 to 630)mm – Air flow: (up to 9,500) m³/h



VORTICEL E

- Wall-mounted axial flow units with high efficiency and low noise emissions. Square mounting panel with ventilation port and safety grille.
 - Rear-mounted motor with wiring box, directly coupled to axial flow impeller.
- Diameter: (250 to 600)mm – Air flow: (up to 7,700) m³/h

Axial-Tube Type



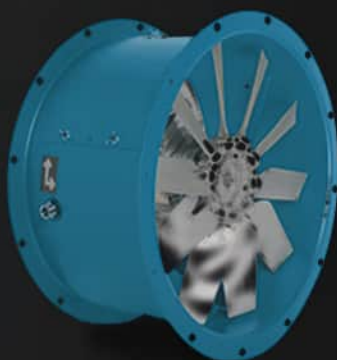
MPC ED F400

- LONG CASED AXIAL FAN 400 C/2H
 - Modular motor-impeller assembly. Cast aluminium impeller with variable pitch angle. Polyester powder finishing coat.
 - Class H insulation certified 400 C/2h.
- Diameter: (450 to 1,250)mm – Air flow: (up to 141,000) m³/h



MPC HPM

- Reinforced fan casing manufactured in rolling steel sheet.
 - Motor-impeller modular assembly for complete versatility.
 - Polypropylene impeller or polyamide impeller reinforced with fibreglass with variable pitch angle.
- Diameter: (350 to 1,250)mm – Air flow: (up to 151,000) m³/h



MPC HPMA

- Reinforced fan casing manufactured in rolling steel sheet.
 - Polyester powder finishing coat.
 - Cast aluminium impeller with variable pitch angle.
 - Smoke Extraction (Max 50-60 C)
- Diameter: (350 to 1,250)mm – Air flow: (up to 151,000) m³/h

industrial Kitchen Exhaust



VORT QBK SAL KC EVO

- Watertight ventilation box with 30 mm aluminum frame, high efficiency, and low noise.
 - Centrifugal coil-type plug fan with motor outside airflow, directly coupled.
 - Built-in safety switch; interchangeable outlet panels.
 - Max operating temps: transported air 120 C.
- Diameter: (350 to 700)mm – Air flow: (up to 22,100) m³/h

Cabinet Fans



VORT QBK POWER

- QBK Power range fans assembled in soundproof cabinets with thermo-acoustic insulation.
- Fan assembled on antivibration mountings.
- Equipped with a belt-driven system for efficient performance.
- Designed for inline installation, indoor or outdoor assembly.

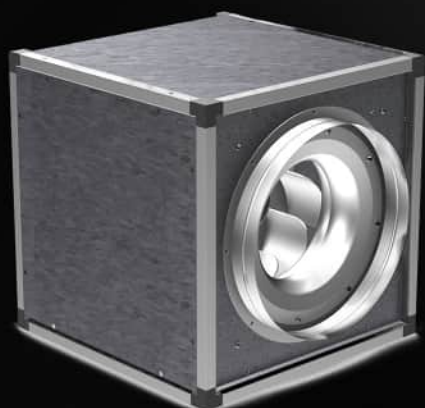
Air flow: (up to 54,000) m³/h



VORT QBK

- QBK range fans assembled in soundproof cabinets with thermo-acoustic insulation.
- Fan assembled on antivibration mountings.
- Equipped with a direct-driven system for reliable operation.
- Designed for inline installation, indoor or outdoor assembly.

Air flow: (up to 11,000) m³/h



VORT QBK HE PLUS

- Ventilation box with 30 mm aluminum profile structure, nylon corners, galvanized sandwich panels with internal insulation rockwool (25mm thickness).
- Plug-type fan with self-cleaning impeller with back curved blades (backward), direct driven.
- High efficiency, low noise external rotor EC motor.

Air flow: (up to 17,000) m³/h

Roof Fans

CA MD E RF



- Pickled and phosphated steel housing/roof mounting plate with polyester powder-coated finish, resistant to the aggressive action of atmospheric agents.
- Motor-fan, speed adjustable
- Operation controllable by remote sensors.

Diameter: (100 to 315)mm – Air flow: (up to 865) m³/h

TIRACAMINO



- Radial centrifugal rooftop fan, single size, designed to assist updraught from residential fireplaces.
- Square base structure with integrated inlet port.
- Cylindrical safety grille and protective cap.

Diameter: (410)mm – Air flow: (up to 750) m³/h



Roof Fans



HEATMASTER F400

- Protection cowl made of anticorrosive treated aluminum.
- Rounded design shape to minimize the risk of water ingress.
- Equipped with a hinged system for easy maintenance and cleaning.
- Anticorrosive galvanized steel structure with anti-bird protection grid.

Diameter: (360 to 716)mm - Air flow: (up to 22500) m³/h

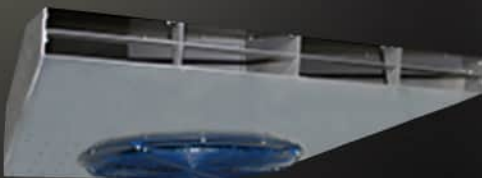


SLIMROOF ES

- Designed with a rounded shape to minimize the risk of water ingress.
- EC technology ensures that the motor consistently operates at optimal load and low noise levels.
- Anticorrosive galvanized steel structure with anti-bird protection grid.

Diameter: (155 to 640)mm - Air flow: (up to 18600) m³/h

Parking garage jet fans



VORT JET-R

- Low-profile centrifugal (Radial) jet fan for car parks.
- Galvanized steel sheet casing.
- Available Types: Normal Working Temperature, Fire rated (300 C/2h), Fire rated (400 C/2h)

Air flow: (up to 9200) m³/h

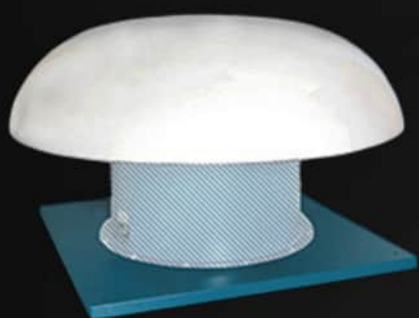
VORT JET-A



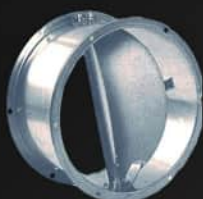
- Axial jet fan with reinforced, steel-sheet, tubular casing.
- Integrated with two silencers with high acoustic absorption properties.
- Available Types: Normal Working Temperature, Fire rated (300 C/2h), Fire rated (400 C/2h)

Diameter: (300 to 400)mm – Air flow: (up to 9330) m³/h

VORTICE ACCESSORIES



ROOF KIT



Damper



Speed Controller



Safety Switch



Sensori Regolatori



CO-SENS



Speed Controller



Frequency Speed Controller



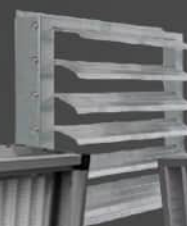
SLIMROOF VERTICAL DISCHARGE



Protection Grill



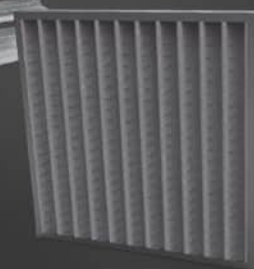
Outdoor Flange with Bird Guard



Shutter



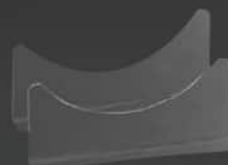
Box Filter



Cell Filter



Anti-Vibration mounts



Mounting Support

BTI-ACMP-AMC MOUNTED



VORTICE
GROUP



Other Brands

EMSA
MÜHENDİSLİK
Made in Turkey



KalVent
Made in Turkey



NOV VES
VENTILATION SOLUTIONS
Made in Turkey



VENTAS
Made in Turkey



 Tecnosystemi®





Apply Air

Air Curtains and Accessories

Designed with a focus on performance, energy efficiency, and modern aesthetics, our air curtains are available in residential and industrial models—at room temperature, with electric heating elements, or with hot water coils. Supported by a wide range of accessories, they are built to enhance comfort, reduce energy consumption, and minimize environmental impact.



Apply Air

Tangencial Air Curtain

Tangential air curtains are generally suitable for small to medium sized domestic or commercial applications where an even distribution of airflow is required without causing acoustic disturbance.





Apply Air

Centrifugal Air Curtain

This type of air curtain is usually suitable for commercial and industrial applications where a powerful and direct air flow is required.





Healthy Environment



Reduces the risk of Mould and Bacteria



Increases energy efficiency



Increases Comfort



120 to 500 m³/h



Made from RECYCLED EPP (PPE)

TS-HRVU

The TS-HRVU is a compact, lightweight mechanical ventilation system with heat recovery (MVHR) designed for residential use. It features a sensitive counterflow heat exchanger that recovers heat during ventilation, boosting energy efficiency and reducing the need for heating or cooling. Automatic airflow management adapts to user needs, ensuring fresh air and thermal comfort while minimizing energy use. Ideal for homes requiring continuous air exchange and high energy performance.



AIR PUR 3 PLUS WI

STATIC HEAT RECOVERY BUILT-IN CROSS-FLOW AND WALL-MOUNTED



Galaxy

Multi-Zone Air Control System



PROAIR PACK RF BLUE 3 L



PROAIR MULTI-ZONE



VEGA POINT IR



SIRIO 3.0 DEVIO POINT



STAR POINT



Project Wind

Ventilation





SMART CLIMA

Tecnosystemi®



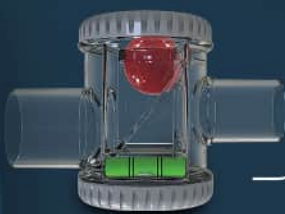
OPTIMA TP



AC INSTALLATION BOX



CONDENSATE
DRAIN PUMPS



TRANSPARENT SIPHON



wall bracket



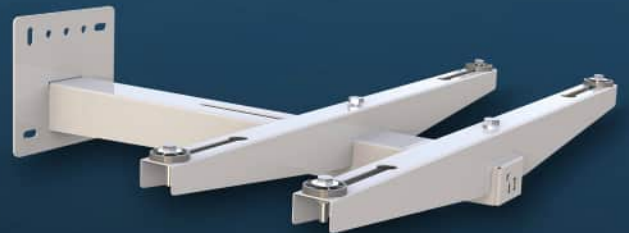
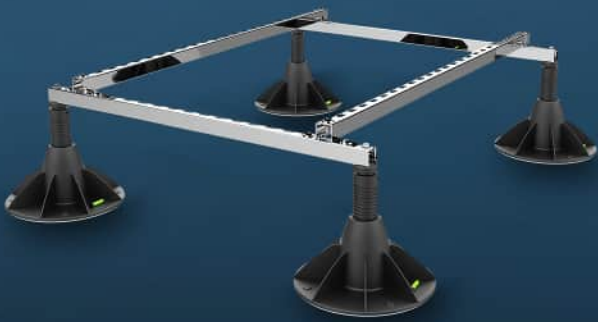
ADJUSTABLE FOOT MOUNT



AC UNIT PROTECTION

Tecnosystemi®

Smart solutions for modern comfort
Trusted by professionals, designed for performance





AC INSTALLATION BOXES



- Shockproof polystyrene installation box with six inlets for refrigeration lines.
- Right/Left reversible tilted conveyor with grille.
- Inspectable siphon to block odor reflux.
- Adjustable template fastening plates.
- Built-in spirit level.
- Interlocking or screw-fastened cover.

Virtual reality



ADJUSTABLE FOOT MOUNT



- Double anti-vibration damper supplied
- High mechanical strength
- Height adjustment ring nut.
- Quick fastening pin or screw.
- Non-slip surface for added stability.



LOAD CAPACITY 1000 kg

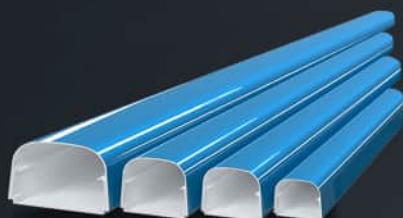
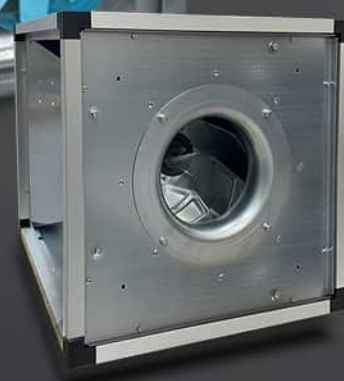
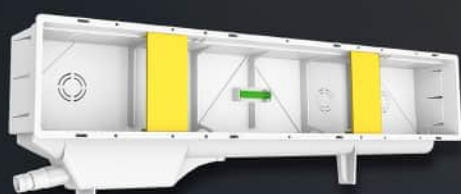
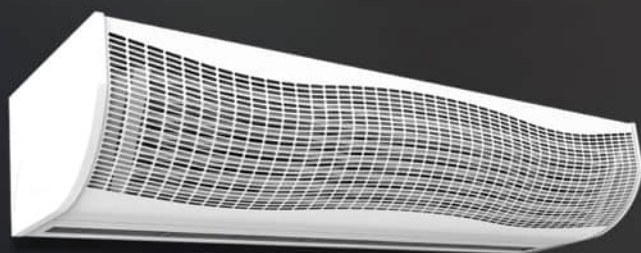


PIPING FULL COVERED TRUNK



- Stiff, Shockproof, Anti-UVA Plastic material, White, Paintable
- Wall-mounted flush closure
- Rounded cover with transparent blue protective film
- Bar length 2 m
- Operating temperature -20 C / +75 C

MECHANICAL SOLUTIONS







Address

📍 Iraq, Erbil, Star Towers – Block A - F9 - Office 2.

Contact

☎ +964 750 595 4224
+964 751 013 2426
+964 786 618 0917
+963 933 643 492

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sales@mech-solutions.net





Excellence is not just an act, but a habit in motion.

From airflow to infrastructure, we engineer with
foresight and finish with pride.

Contact and Address

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