



CATALOG

EQUIPMENT | 2025

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AIR CONDITIONING
CRITICAL MISSION TELECOM MANUFACTURING
DATA CENTER INDUSTRIAL
SERVICES **COMFORT** QUALITY
PURPOSE **EXCELLENCE** SUSTAINABLE
HEALTHCARE



Our Story

MGE air is a national company headquartered in Cabreúva, São Paulo.

Born from market vision and needs, with a strategic vision and business model focused on adding value to the market, offering solutions and products for the air conditioning and ventilation segment across various areas and applications.

Our focus is serving the HVAC market across various application areas such as Comfort Air Conditioning, General Industries, Healthcare, and Critical Mission Environments requiring 24-hour operation, ensuring correct and uninterrupted system operation with strict temperature, humidity, and air quality controls.

MGE air is an innovative manufacturer of air conditioning equipment in Brazil, offering the market differentiated products with cutting-edge technology for diverse applications, always seeking excellence in product manufacturing.

Who We Are?

MGE air is a young and dynamic company that brings to the market all the knowledge and quality acquired through years of experience of its founders and collaborators.

Operating in the air conditioning segment across various applications, MGE Air constantly works focused on developing solutions according to each client's needs.

Thus providing differentiated, cutting-edge solutions and products.

We help select the ideal specifications tailored to your application and provide support to manage your cooling system for optimal performance.



MGE Air offers personalized service for each project. We are **always thinking about innovation and technology** for all our solution areas. **We are the ideal partner for everyone, from production to installation!**

How We Work

MGE Air equipment is designed to ensure quality and reliability, essential for critical process operations and human comfort requiring precise temperature and air quality control. Beyond operational robustness, our air conditioners are highly energy efficient, ensuring significant return on investment.

Our product lines find application across various sectors such as Commercial Buildings, Shopping Centers, Hospitals or Laboratories, General Industries, and Critical Mission Environments requiring precise temperature and humidity control 24 hours a day, 365 days a year. While offering a standard product line, our company is prepared to customize air conditioners from the existing production line and develop new equipment to meet our clients' specific needs.

Why partner with us?

We understand that an effective solution, regardless of application, goes beyond simply selling equipment. A complete approach is based on accurate diagnostics, considering each company's specific needs and including rigorous follow-up during implementation.

By mastering the entire supply cycle, from initial diagnosis to system maintenance, we guarantee an agile response to each client's individual needs, ensuring successful results delivery with peace of mind and confidence.

MGE equipment and solutions are developed by highly qualified professionals using state-of-the-art tools, providing reliable, high-quality solutions that add value to your business.

We follow strict development and production criteria, using advanced technologies and sustainable resources to reduce costs and improve quality, thus minimizing risks of downtime and losses.

As a national company, we are easily accessible throughout the acquisition and manufacturing process, allowing us to offer agile delivery and the shortest lead times in the market.

We are solution specialists



Data Centers



Shopping Centers



Telecom



Laboratories



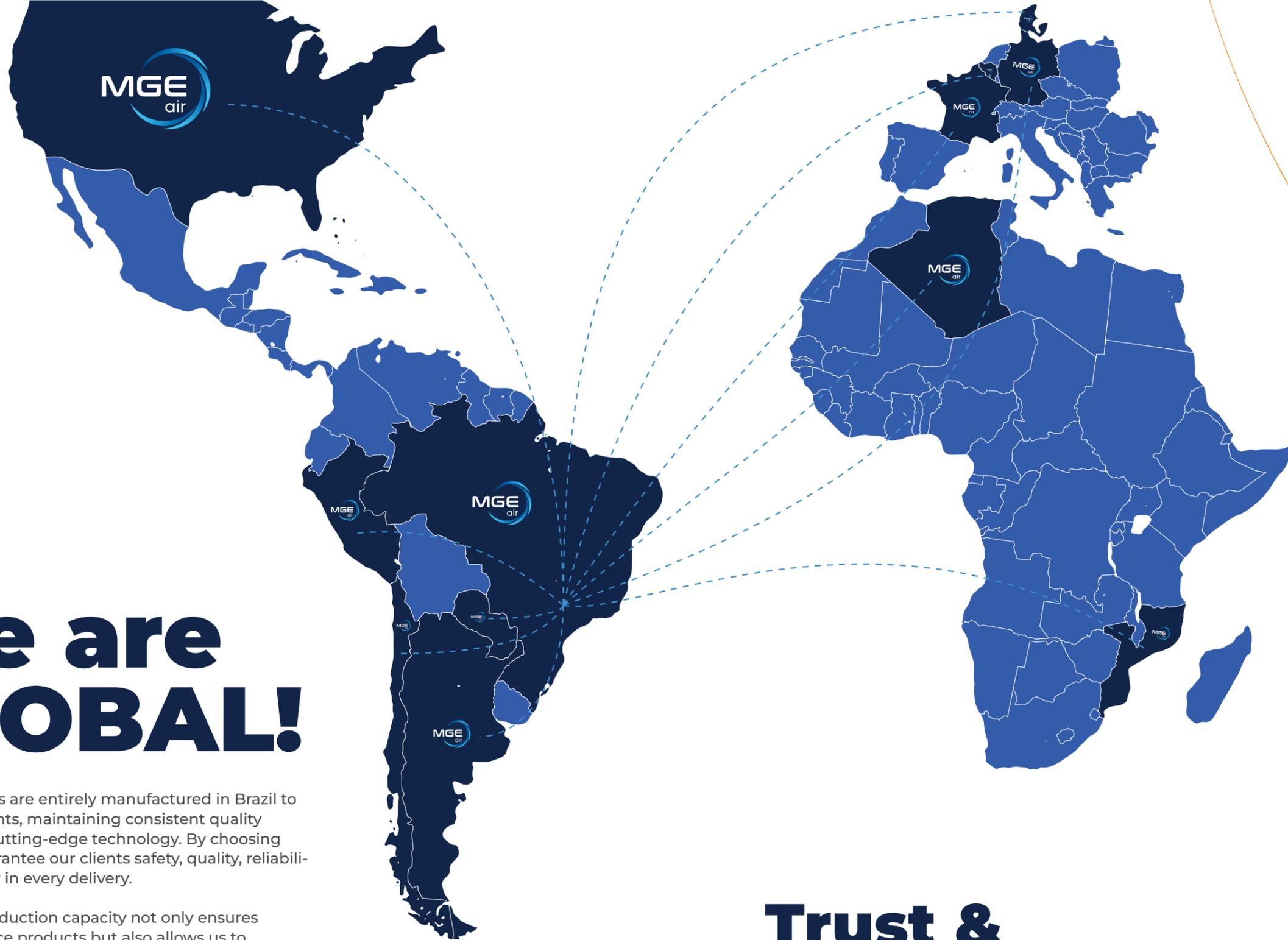
Education



Industries



Hospitals



We are GLOBAL!

MGE air solutions are entirely manufactured in Brazil to serve global clients, maintaining consistent quality standards and cutting-edge technology. By choosing MGE air, we guarantee our clients safety, quality, reliability, and efficiency in every delivery.

Our national production capacity not only ensures high-performance products but also allows us to respond agilely and adaptably to global market demands.

With a firm commitment to excellence, we continue strengthening our position as a reliable and innovative partner in the industry, offering solutions that meet our clients' most demanding expectations worldwide.

Trust & Responsibility

We are not just HVAC specialists; we are specialists in industries where climate control is fundamental, including healthcare, pharmaceuticals, processing industries, data centers, telecommunications, comfort areas, and education.

We always work focused on your project solution from the start, correctly and fully involved, together with technical assistance and all items necessary for the proper functioning of our equipment.



MGE air looks to the **FUTURE!**

We believe air conditioning and all equipment must play a responsible role in an era where sustainability is crucial for our planet's preservation.



Energy Efficiency

Energy efficiency is a fundamental concept for responsible management of available resources on our planet. It consists of optimizing energy use, seeking maximum performance with the lowest possible consumption.

In other words, it's about performing activities and operating devices and systems more intelligently, aiming to reduce energy waste and minimize potential environmental impact.



Microchannel

Microchannel heat exchangers, being entirely composed of aluminum, enable easy and efficient recycling.

Aluminum recycling is widely recognized as a stable market, thus facilitating proper disposal of decommissioned equipment.

This characteristic not only promotes environmental sustainability but also ensures responsible resource management, aligned with modern standards of sustainable industrial practices.



Refrigerants

Ecological gases are defined as those that do not emit chlorofluorocarbons (CFCs), extremely harmful chlorine-based substances to human health and the environment. CFCs are known to damage the ozone layer, crucial for protecting Earth against solar radiation.

When released into the atmosphere, CFCs react with ozone molecules, transforming them into lighter compounds. This results in ozone layer holes formation, compromising its protection capacity against harmful ultraviolet rays.

PRECISION LINE



FANCOIL

7 – 140 kW | Down Flow, Up Flow and Underfloor

Developed for environments with medium and high sensible heat density, maintaining precise control of temperature, humidity and air quality 24/7/365 days per year, generating energy savings. Assembled with steel structure with powder electrostatic paint finish. With innovation and cutting-edge technology.

ADVANTAGES AND BENEFITS

Modularity | EC Fans; Air Filters according to Current Standards; Intelligent Microprocessed Control.

OPTIONAL

Water Flow Control Valve: 2-Way / 3-Way – ON/OFF or Proportional; Electric Reheat | Humidifier; Treatment for classified environments; Plenum Fan EC Fan; Special filtration.



SPLIT SYSTEM

1 – 10 TRs | Air or Water Condensation Horizontal or Vertical

Developed for environments with medium and high sensible heat density, maintaining precise control of temperature, humidity and air quality 24/7/365 days per year, generating energy savings. With its differential characteristic, compact and with various mounting arrangements and options.

ADVANTAGES AND BENEFITS

Modularity | Scroll Compressor; Air Filters according to Current Standards | Intelligent Microprocessed Control.

OPTIONAL

Treatment for Saline and Classified Environments | Fans with EC Fan Technology | Special filtration; Electric Reheat | Humidifier; Inverter Compressor | Automation/Supervision; Application in environments with temperatures above 40°C.



SELF CONTAINED

7 - 106 kW | Down Flow, Up Flow and Underfloor

Developed for environments with medium and high sensible heat density, maintaining precise control of temperature, humidity and air quality 24/7/365 days per year, generating energy savings. Assembled with steel structure with powder electrostatic paint finish.

ADVANTAGES AND BENEFITS

Modularity | Scroll Compressor; EC Fans | EXV – Electronic Expansion Valve | Air Filters according to Current Standards | Intelligent Microprocessed Control.

OPTIONAL

Treatment for classified environments | Inverter Compressor | Remote Supervision; Dual Fluid (Direct and Indirect Expansion in the same equipment) | Application in environments with temperatures above 40°C.



WALL MOUNTED

1 – 40TR | Top or Bottom Air Supply

Unit with integrated evaporator and condenser, no refrigerant charging required.

Microchannel type condenser with smaller internal volume, reducing refrigerant charge by up to 70% compared to tube/fin heat exchangers.

ADVANTAGES AND BENEFITS

Modularity | Various mounting arrangements (internal and External); Scroll Compressor | Air Filters according to Current Standards.

OPTIONAL

EC Fans | Treatment for classified environments | Electronic Expansion Valve | Electric Reheat | Humidifier | Inverter Compressor | Intelligent Microprocessed Control | Remote Supervision.



ROOF TOP

2 – 40 TRs | Air or Water Condensation

Unit with integrated evaporator and condenser, no refrigerant charging required.

Microchannel type condenser with smaller internal volume, reducing refrigerant charge by up to 70% compared to tube/fin heat exchangers.

ADVANTAGES AND BENEFITS

Modularity | Various mounting arrangements (internal and External); Scroll Compressor | Air Filters according to Current Standards.

OPTIONAL

EC Fans | Treatment for classified environments | Electronic Expansion Valve | Electric Reheat; Humidifier | Inverter Compressor; Intelligent Microprocessed Control; Remote Supervision.



RAK IN LINE

3 – 44 kW | DX or CW Unit

Works as a curtain, providing uniform cooling across the entire server rack perimeter while managing aisle static pressure.

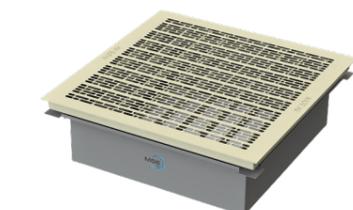
Available in Direct Expansion units (one circuit or two circuits) or Chilled Water.

ADVANTAGES AND BENEFITS

Modularity | Various air supply positions | Scroll Compressor; EC Fans | EXV – Electronic Expansion Valve | Air Filters according to Current Standards | Intelligent Microprocessed Control.

OPTIONAL

Treatment for classified environments | Inverter Compressor | Remote Supervision; Dual Fluid (Direct and Indirect Expansion in the same equipment); Application in environments with temperatures.



VENTILATION BOX

Underfloor Ventilation Box

Designed from the start to fit most raised floors, the GPAV series high-flow grilles are exceptionally quiet, aesthetically pleasing and with various features. A depth of only 31 mm is thinner than many competitors on the market, with total depth being only 44mm. In terms of features and aesthetics, the GPAV high-flow grilles are unmatched.

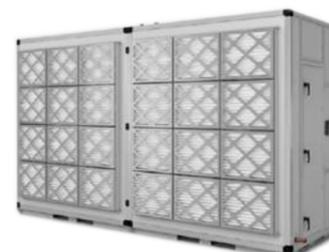


FLOOR GRILLE

High Flow | Grille & Diffuser Line
MODEL: GPAV - 60 AND GPAV - 70

The GPAV 60 Grille uses cutting-edge technology, its directional vanes are developed to direct air to the corridor vertically reaching up to 90% of its area.

The GPAV 70 Grille uses cutting-edge technology, its directional vanes are developed with perfect angles to direct air to the equipment reaching up to 93% of its area.



WALL FAN

200–650 kW

The MGE air WallFan unit is a highly customized solution meeting users' exclusive requirements. Parametric design – custom coil for each project 6, 8 or 10 rows | Models with 2,4,5,8 or 12 fans; Smart design for easy installation; Designed for close approach and high water/air temperatures.

ADVANTAGES AND BENEFITS

Most efficient EC Fan technology | Various technologies used to reduce pPUE; Control panel easily accessible from the factory aisle; Modular design, saving space | Multi-module operation, ensuring reliability and facilitating redundancy | Greater cooling capacity, smaller footprint; Hinged fans for easy maintenance.

*All equipment in this line features Easy Installation, Easy Maintenance Access and Low Noise Level.
*All equipment in this line has a High Sensible Heat Factor > 0.9 SHF and has the Best cost benefit along with Energy Efficiency.

LINHA TELECOM & CONDENSADORES



WALL MOUNTED

1 – 10 TRs | Top or Bottom Air Supply

Equipment with integrated evaporator and condenser, no refrigerant charging required. Assembled with steel structure with epoxy paint finish. Covers and doors with easy maintenance access and insulation with high-density elastomeric foam.

Microchannel type condenser with smaller internal volume, reducing refrigerant charge by up to 70% compared to tube/fin heat exchangers.

ADVANTAGES AND BENEFITS

High Sensible Heat Factor >0.9 SHF;
Easy Installation | Modularity;
Various mounting arrangements;
Easy maintenance access;
Scroll Compressor;
Air Filters according to Current Standards;
Low noise level | Best cost benefit;
Various optional accessories;
Energy Efficiency.

OPTIONAL

EC Fans | Treatment for classified environments | Electronic Expansion Valve | Electric Reheat | Humidifier | Inverter compressor; Intelligent Microprocessed Control | Remote Supervision.



WALL MOUNTED HORIZONTAL

1 – 10 TRs | Top or Bottom Air Supply

Equipment with integrated evaporator and condenser, no refrigerant charging required. Assembled with steel structure with epoxy paint finish. Covers and doors with easy maintenance access and insulation with high-density elastomeric foam.

Microchannel type condenser with smaller internal volume, reducing refrigerant charge by up to 70% compared to tube/fin heat exchangers.

ADVANTAGES AND BENEFITS

High Sensible Heat Factor >0.9 SHF;
Easy Installation | Modularity;
Various mounting arrangements;
Easy maintenance access;
Scroll Compressor;
Air Filters according to Current Standards;
Low noise level | Best cost benefit;
Various optional accessories;
Energy Efficiency.

OPTIONAL

EC Fans | Treatment for classified environments | Electronic Expansion Valve | Electric Reheat; Humidifier | Inverter compressor; Intelligent Microprocessed Control; Remote Supervision.



SPLIT SYSTEM

1 – 10 TRs Air or Water
Condensation Horizontal or Vertical

Developed for environments with medium and high sensible heat density, maintaining precise control of temperature, humidity and air quality 24/7/365 days per year generating energy savings. With its differential characteristic, compact and with various mounting arrangements and options.

ADVANTAGES AND BENEFITS

Modularity | Scroll Compressor; Air Filters according to Current Standards | Intelligent Microprocessed Control.

OPTIONAL

Treatment for Saline and Classified Environments | Fans with EC Fan Technology | Special filtration; Electric Reheat | Humidifier; Inverter compressor | Automation/Supervision; Application in environments with temperatures above 40°C.



AIR CONDENSING UNIT

1 a 10 TR | Vertical or Horizontal Installation

Developed to handle heat dissipation generated by the environment, maintaining capacity and efficiency.

Exclusive compressor support base with vibration dampers to minimize vibration level and potential refrigerant leaks. Integrated and complete electrical panel for perfect equipment control.

ADVANTAGES AND BENEFITS

Microchannel heat exchanger;
Horizontal or Vertical configuration;
Easy Installation | Smaller footprint;
Easy maintenance access;
Axial or Sirocco Centrifugal Fan;
Scroll Compressor | Low noise level;
Best cost benefit;
Energy Efficiency.

OPTIONAL

Treatment for Saline and Classified Environments | Fans with EC Fan Technology | Inverter Compressor; Intelligent Fan Control; Aluminum or Stainless Steel Structure; Copper Tube/Aluminum Fin Heat Exchanger | Application in environments with temperatures above 40°C



REMOTE CONDENSERS - AIR

1 a 10 TR | Vertical or Horizontal Installation

Assembled with steel structure with powder electrostatic paint finish. Installation with easy maintenance access. Various mounting arrangements available with air discharge in horizontal and vertical position (See Options).

Integrated and complete electrical panel for perfect equipment control.

ADVANTAGES AND BENEFITS

Microchannel heat exchanger;
Horizontal or Vertical configuration;
Easy Installation | Smaller footprint;
Easy maintenance access;
Axial or Sirocco Centrifugal Fan;
Low noise level | Best cost benefit;
Energy Efficiency.

OPTIONAL

Treatment for Saline and Classified Environments | Ventiladores com Tecnologia EC Fan | Controle Inteligente dos ventiladores | Estrutura em Alumínio ou Inox; Trocador de calor Tubo Cobre/Aleta Alumínio; Aplicação em ambientes com temperaturas acima de 40°C.



DRY COOLER

3,5 – 35 kW

Developed to handle heat dissipation generated by the environment, maintaining capacity and efficiency.

Equipped with high-efficiency axial or sirocco centrifugal fans with long service life. Exclusive compressor support base with vibration dampers to minimize vibration level and potential refrigerant leaks. Integrated and complete electrical panel for perfect equipment control.

ADVANTAGES AND BENEFITS

Microchannel or Tube Fin Heat Exchanger;
Horizontal or Vertical configuration | Easy Installation | Smaller footprint | Easy maintenance access | Axial or Sirocco Centrifugal Fan | Low noise level | Best cost benefit | Energy Efficiency.

OPTIONAL

Treatment for Saline and Classified Environments | Fans with EC Fan Technology | Intelligent Fan Control | Aluminum or Stainless Steel Structure | Copper Tube/Aluminum Fin Heat Exchanger; Application in environments with temperatures above 40°C.

HOSPITAL LINE



FANCOIL

1TR – 30 TRs - Compact and Silent

Indirect Expansion air treatment equipment. Modular and independent. Ventilation, Filtration and Precise Controls.

Available in various mounting arrangements and number of rows, in the Indirect Expansion (Fan Coil) option. Developed and built for environments requiring severe use whose function is to control temperature, humidity and air quality.

Simplifying installation with easy maintenance access. Recessed ceiling mounting with innovative design.

ADVANTAGES AND BENEFICIOS

Easy Installation | Simplified Maintenance | Low noise level | Best cost benefit | Various optional accessories | Efficient filtration.

OPTIONAL

UVC Lamp | INOX Electric Heating Resistor; Humidifier | BMS Interface; Ethernet SNMP, pCO Web, Modbus | Dirty Filter Sensor; Microprocessed Control | Radial EC Fan; High Efficiency Special Filters | G4 + F9 | G4 + F9 + H13.



SPLIT SYSTEM / FANCOIL SLIM LINE

1 TR – 3 TRs - DX R410a
CW Chilled Water - Compact and Silent

Compact Direct Expansion air treatment unit. Modular and independent, for ceiling installation.

Developed and built for environments requiring severe use whose function is to control temperature, humidity and air quality. Simplifying installation with easy maintenance access. Recessed ceiling mounting with innovative design.

ADVANTAGES AND BENEFICIOS

Easy Installation | Simplified Maintenance | Low noise level | Best cost benefit; Various optional accessories | Scroll Compressor; Environmentally friendly refrigerant | Energy Efficiency | Air or Water Condensation.

OPTIONAL

UVC Lamp | INOX Electric Heating Resistor; Digital Thermostat | Ultrasonic Humidifier; BMS Interface | Ethernet SNMP, pCO Web, Modbus; Dirty Filter Sensor | Microprocessed Control; Radial EC Fan | High Efficiency Special Filters G4 + F9 | G4 + F9 + H13.



AIR HANDLING UNIT

AHU | 500m³ – 50.000m³/h

Our air handling units are supplied in various cabinet sizes, air flow from 500 m³/h to 50,000 m³/h.

We operate with a 'less is more' ideology and always strive to manufacture the most compact AHU possible, considering the necessary project parameters. This makes them ideal for internal and external installation, where occupied space is of utmost importance.

AHU Unit Configurations

Whether you need internal or external AHUs, single or double-story AHUs, side-by-side, ceiling-mounted or floor-mounted AHUs, we can help. Configuration doesn't worry us, as long as specified at the project start, we can adapt and develop your air handling unit according to your need.

AHU with Total Flexibility

With a variety of flexible operational configurations to meet different applications and user preferences. Developed and manufactured in the DX (Direct Expansion) option with environmentally friendly R410A refrigerant is available in all our air handling units, offering cooling (5kW – 140kW) and heating (1.5kW – 100kW) options. Available in one or two cooling or heating circuits. Already equipped with control and protection panel. Also available in the CW (Chilled Water) option with the same capacities as DX.



VENTILATION/FILTRATION EXHAUST BOX

200m³/h – 50.000m³/h | Integrated Control
Various filters | Ready to use

Equipped with high-efficiency radial or sirocco centrifugal fans with long service life. Can be equipped with various types of filtration and controls.

Integrated and complete electrical panel for perfect equipment control.

Available in various flows and pressure drops.

ADVANTAGES AND BENEFICIOS

Horizontal or Vertical configuration | Easy Installation; Smaller footprint | Easy maintenance access; Radial or Sirocco Centrifugal Fan; Low noise level | Best cost benefit; Energy Efficiency.

OPTIONAL

Fans with EC Fan Technology
Intelligent Fan Control | Aluminum or Stainless Steel Structure | Application in classified environments | Various filters | Standard or fire damper with actuator | Electrical protection and control panel.

COMFORT LINE



FANCOIL

2TR – 40 TRs
Compact and Silent

Assembled using extruded aluminum profiles locked with high-strength plastic corners, sandwich-type closure with exclusive fasteners and powder electrostatic paint finish. Filtration according to current standards.

We also develop customized products according to customer needs.

Available in 4, 6 or 8 Rows

ADVANTAGES AND BENEFITS

Easy Installation | Modular Concept;
Various mounting arrangements;
Simplified maintenance | Low noise level;
Best cost benefit | Various optional accessories | Energy Efficiency.

OPTIONAL

Control Thermostat | Water Flow Control Valve: 2-Way / 3-Way - ON/OFF or Proportional | Electric Reheat | Humidifier; Plenum Fan EC Fan | Special filtration; Frequency Inverters for fan control.



SPLIT SYSTEM

2TR – 40 TRs
Compact and Silent

The internal Evaporator unit assembled using extruded aluminum profiles locked with high-strength plastic corners, sandwich-type closure with exclusive fasteners and powder electrostatic paint finish. Filtration according to current standards.

Uses environmentally friendly R410a standard refrigerant or optionally R407c.

Air or Water Condensation.

ADVANTAGES AND BENEFITS

Easy Installation | Simplified Maintenance | Low noise level | Best cost benefit | Various optional accessories | Scroll Compressor; Environmentally friendly refrigerant; Energy Efficiency.

OPTIONAL

Fans with EC Fan Technology; Special filtration | Electric Reheat; Humidifier | Inverter compressor; Automation/Supervision; Application in environments with temperatures above 40°C.



SELF CONTAINED

2TR – 50 TRs | Air or Water Condensation
Compact and Silent

The internal Evaporator unit assembled using extruded aluminum profiles locked with high-strength plastic corners, sandwich-type closure with exclusive fasteners and powder electrostatic paint finish. Filtration according to current standards.

Uses environmentally friendly R410a standard refrigerant or optionally R407c.

Air or Water Condensation.

ADVANTAGES AND BENEFITS

Easy Installation | Simplified Maintenance; Low noise level | Best cost benefit | Various optional accessories | Scroll Compressor; Environmentally friendly refrigerant; Energy Efficiency.

OPTIONAL

Fans with EC Fan Technology; Special filtration | Electric Reheat; Humidifier | Inverter compressor; Automation/Supervision; Application in environments with temperatures above 40°C.



ROOF TOP

5TR – 30 TRs
Compact and Silent

Unit with integrated evaporator and condenser, no refrigerant charging required. Assembled with steel structure with epoxy paint finish. Covers and doors with easy maintenance access and insulation with high-density elastomeric foam. Integrated and complete electrical panel for perfect equipment control.

Microchannel type condenser with smaller internal volume, reducing refrigerant charge by up to 70% compared to tube/fin heat exchangers. Thus contributing to a more ecological and economical solution.

Uses environmentally friendly R410a standard refrigerant or optionally R407c.

Air or Water Condensation.

ADVANTAGES AND BENEFITS

Easy Installation | Simplified Maintenance; Low noise level | Best cost benefit; Various optional accessories | Scroll Compressor; Digital Temperature Control | Environmentally friendly refrigerant | Energy Efficiency;

OPTIONAL

Fans with EC Fan Technology; Special filtration | Electric Reheat Humidifier | Inverter Compressor; Automation/Supervision | Application in environments with temperatures above 40°C.



FILTRATION/VENTILATION EXHAUST BOX

200m³/h – 50.000m³/h | Integrated Control
Various filters | Ready to use

Equipped with high-efficiency radial or sirocco centrifugal fans with long service life. Can be equipped with various types of filtration and controls.

Integrated and complete electrical panel for perfect equipment control.

Available in various flows and pressure drops.

ADVANTAGES AND BENEFITS

Horizontal or Vertical configuration | Easy Installation
Smaller footprint | Easy maintenance access;
Radial or Sirocco Centrifugal Fan | Low noise level | Best cost benefit | Energy Efficiency.

OPTIONAL

Fans with EC Fan Technology; Intelligent Fan Control; Aluminum or Stainless Steel Structure | Application in classified environments | Various filters | Standard or fire damper with actuator | Electrical protection and control panel.

INDUSTRIAL LINE



FANCOIL

2TR – 40 TRs | Compact and Silent
Available in 4, 6 or 8 Rows

Available in various mounting arrangements in Vertical, Horizontal and Special options.

The unit assembled using extruded aluminum profiles locked with high-strength plastic corners, sandwich-type closure with exclusive fasteners and powder electrostatic paint finish. Filtration according to current standards.

Integrated and complete electrical panel.

ADVANTAGES AND BENEFITS

Easy Installation | Modular Concept | Various mounting arrangements | Simplified Maintenance | Low noise level | Best cost benefit | Various optional accessories; Energy Efficiency.

OPCIONAL

Treatment for Saline and Classified Environments | Fans with EC Fan Technology | Special filtration; Electric Reheat | Humidifier; Automation/Supervision | Application in environments with temperatures above 40°C.



SPLIT SYSTEM

2TR – 40 TRs | Compact and Silent
Air or Water Condensation

The internal Evaporator unit assembled using extruded aluminum profiles locked with high-strength plastic corners, sandwich-type closure with exclusive fasteners and powder electrostatic paint finish. Filtration according to current standards.

Uses environmentally friendly R410a standard refrigerant or optionally R407c.

ADVANTAGES AND BENEFITS

Easy Installation | Low noise level; Simplified Maintenance | Best cost benefit | Various optional accessories | Scroll Compressor; Environmentally friendly refrigerant; Energy Efficiency.

OPCIONAL

Treatment for Saline and Classified Environments | Fans with EC Fan Technology | Special filtration; Electric Reheat | Humidifier; Automation for Lead/Lag operation; Application in environments with temperatures above 40°C.



SELF CONTAINED

2TR – 50 TRs | Compact and Silent
Air or Water Condensation

The internal Evaporator unit assembled using extruded aluminum profiles locked with high-strength plastic corners, sandwich-type closure with exclusive fasteners and powder electrostatic paint finish. Filtration according to current standards.

Uses environmentally friendly R410a standard refrigerant or optionally R407c.

ADVANTAGES AND BENEFITS

Easy Installation | Simplified Maintenance; Low noise level | Best cost benefit | Various optional accessories | Scroll Compressor | Environmentally friendly refrigerant | Energy Efficiency.

OPCIONAL

Fans with EC Fan Technology; Special filtration | Electric Reheat | Humidifier | Inverter Compressor | Automation/Supervision; Application in environments with temperatures above 40°C.



WALL MOUNTED

2TR - 30 TRs | Compact and Silent
Air or Water Condensation

Available in various mounting arrangements, top or bottom cold air outlet, and internal or external electrical panel access | Equipment with integrated evaporator and condenser, no refrigerant charging required.

Microchannel type condenser with smaller internal volume, reducing refrigerant charge by up to 70% compared to tube/fin heat exchangers.

ADVANTAGES AND BENEFITS

Easy Installation | Simplified Maintenance; Low noise level | Best cost benefit; Various optional accessories | Scroll Compressor | Digital Temperature Control; Environmentally friendly refrigerant | Energy Efficiency.

OPCIONAL

Treatment for Saline and Classified Environments | Fans with EC Fan Technology | Special filtration | Electric Reheat | Humidifier | Inverter compressor; Automation for Lead/Lag operation; Finish with various colors according to customer standards | Application in environments with temperatures above 40°C.



ROOF TOP

5TR – 30 TRs | Compact and Silent
Air or Water Condensation

Equipment with integrated evaporator and condenser, no refrigerant charging required. Assembled with steel structure with epoxy paint finish. Insulation with high-density elastomeric foam. Integrated and complete electrical panel for perfect equipment control.

Microchannel type condenser with smaller internal volume, reducing refrigerant charge by up to 70% compared to tube/fin heat exchangers.

ADVANTAGES AND BENEFITS

Easy Installation | Simplified Maintenance | Low noise level | Best cost benefit | Various optional accessories | Scroll Compressor | Digital Temperature Control | Environmentally friendly refrigerant | Energy Efficiency.

OPCIONAIS

Fans with EC Fan Technology; Special filtration | Electric Reheat; Humidifier | Inverter compressor; Automation/Supervision | Application in environments with temperatures above 40°C.



CHEMICAL FILTRATION / VENTILATION BOX

300m³/h – 20.000m³

Combination of particle filters for gases with activated carbon and high-efficiency filters to provide clean air, removing both airborne particles and gaseous contaminants.

Available in various sizes and arrangements with combinations of filter stages according to gas and particle composition.

Available with fan and accessories ready for use or just filtration modules.

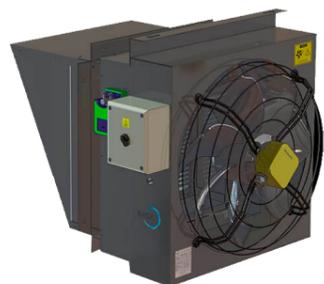
Robust construction that allows easy installation, operation, and maintenance in a fully independent system.

ADVANTAGES AND BENEFITS

Horizontal or Vertical configuration | Easy Installation | Smaller footprint | Easy access for maintenance | Radial or Sirocco Centrifugal Fan | Low noise level | Best cost-benefit | Energy Efficiency.

OPCIONAL

UV-C Lamp | INOX Electric Heating Resistor | Digital Thermostat | Ultrasonic Humidifier | BMS Interface | Ethernet SNMP, pCO Web, Modbus | Dirty Filter Sensor | Microprocessed Control | Radial EC Fan; High Efficiency Special Filters | G4 + F9 | G4 + F9 + H13.



FIRE EXTINGUISHING EXHAUST

Integrated Control | Complete Kit | Plug and Play

For applications in Electrical Rooms or areas requiring removal of gases generated by the fire fighting system. System developed in Plug and Play condition. No automation panel required, only power connection and command from the fire alarm panel. Set composed of: EXHAUST AND AIR INTAKE.

ADVANTAGES AND BENEFITS

Configuration for Horizontal mounting | Easy Installation | Smaller footprint | Easy maintenance access | High flow Axial Fan | Low noise level | Best cost benefit | Energy Efficiency | Integrated control.

OPCIONAL

Fans with EC Fan Technology | Intelligent Fan Control | Smoke sensor | Aluminum or Stainless Steel structure | Application in classified environments; Standard or fire damper with actuator | Louvers | Electrical protection and control panel.



PRESSURIZATION UNITS

150 m³/h - 5,000 m³/h | Integrated control | Various filters | Plug and Play

Equipped with high-efficiency radial or sirocco centrifugal fans with long service life. Can be equipped with various types of filtration and controls. Integrated and complete electrical panel for perfect equipment control, requiring no field installation. Available in various flow rates and pressure drops.

ADVANTAGES AND BENEFITS

Horizontal or Vertical configuration | Easy Installation | Smaller footprint; Easy access for maintenance | Radial or Sirocco Centrifugal Fan | Low noise level | Best cost-benefit | Energy Efficiency | Integrated on/off pressure control.

OPCIONAL

Fans with EC Fan Technology | Intelligent Fan Control | Dirty Filter Sensor | Aluminum or Stainless Steel Structure | Application in classified environments | Various filters | Standard or fire damper with actuator | Louvers | Electrical protection and control panel.

LABORATORY LINE



FANCOIL

7 - 140 kW | Down Flow, Up Flow and Underfloor

Developed for environments with medium and high sensible heat density, maintaining precise temperature control.

Assembled with steel structure with powder electrostatic paint finish. With innovation and cutting-edge technology.

ADVANTAGES AND BENEFITS

High Sensible Heat Factor >0.9 SHF; Easy Installation | Modularity; Easy maintenance access; EC Fans | Air Filters according to Current Standards | Intelligent Microprocessed Control | Low noise level | Best cost benefit; Various optional accessories | Energy Efficiency.

OPTIONAL

Water Flow Control Valve: 2-Way / 3-Way - ON/OFF or Proportional; Electric Reheat | Humidifier; Treatment for classified environments; Plenum Fan EC | Special filtration;



SPLIT SYSTEM

1TR - 10 TRs | Horizontal or Vertical Air or Water Condensation

Developed for environments with small and medium sensible heat density, maintaining precise control of temperature, humidity and air quality 24/7/365 days per year generating energy savings.

ADVANTAGES AND BENEFITS

High Sensible Heat Factor >0.9 SHF; Easy Installation | Modularity; Various mounting arrangements | Easy maintenance access | Scroll Compressor | Air Filters according to Current Standards | Intelligent Microprocessed Control | Low noise level | Best cost benefit | Various optional accessories; Energy Efficiency.

OPTIONAL

Treatment for Saline and Classified Environments | Fans with EC Fan Technology | Special filtration; Electric Reheat | Humidifier; Inverter Compressor | Automation/Supervision | Application in environments with temperatures above 40°C.



SELF CONTAINED

7 - 106 kW | Air or Water Condensation Down Flow, Up Flow and Underfloor

Developed for environments with medium and high sensible heat density, maintaining precise control of temperature, humidity and air quality 24/7/365 days per year generating energy savings.

ADVANTAGES AND BENEFITS

High Sensible Heat Factor >0.9 SHF; Easy Installation | Modularity; Various mounting arrangements; Easy maintenance access; Scroll Compressor | EC Fans | EXV - Electronic Expansion Valve | Air Filters according to Current Standards | Intelligent Microprocessed Control | Low noise level | Best cost benefit | Energy Efficiency.

OPTIONAL

Treatment for classified environments Inverter Compressor | Remote Supervision; Dual Fluid (Direct and Indirect Expansion in the same equipment) | Application in environments with temperatures above 40°C.



WALL MOUNTED

2TR - 30 TRs | Top or Bottom Air Supply

Available in various mounting arrangements, internal or external, top or bottom cold air outlet and internal or external electrical panel access.

Unit with integrated evaporator and condenser, no refrigerant charging required.

Microchannel type condenser with smaller internal volume, reducing refrigerant charge by up to 70% compared to tube/fin heat exchangers.

ADVANTAGES AND BENEFITS

High Sensible Heat Factor >0.9 SHF; Easy Installation | Modularity; Scroll Compressor | EC Fans | EXV - Electronic Expansion Valve | Air Filters according to Current Standards | Low noise level | Best cost benefit; Energy Efficiency.

OPTIONAL

EC Fans | Treatment for classified environments | Electronic Expansion Valve | Electric Reheat | Humidification | Inverter Compressor; Intelligent Microprocessed Control; Remote Supervision.



ROOF TOP

2TR - 40 TRs | Compact and Silent Air or Water Condensation

Unit with integrated evaporator and condenser, no refrigerant charging required. Assembled with steel structure with epoxy paint finish.

Microchannel type condenser with smaller internal volume, reducing refrigerant charge by up to 70% compared to tube/fin heat exchangers.

ADVANTAGES AND BENEFITS

High Sensible Heat Factor >0.9 SHF; Easy Installation | Modularity; Various mounting arrangements (Down Flow, Up Flow) | Easy maintenance access; Scroll Compressor | EC Fans | EXV - Electronic Expansion Valve | Air Filters according to Current Standards | Intelligent Microprocessed Control | Low noise level | Best cost benefit.

OPTIONAL

Treatment for Saline and Classified Environments | Fans with EC Fan Technology | Special filtration | Electric Reheat | Humidification | Inverter Compressor; Automation/Supervision | Application in environments with temperatures above 40°C.



AIR HANDLING UNIT

AHU | 500m³ - 50.000m³/h

Our air handling units are supplied in various cabinet sizes, air flow from 500 m³/h to 50,000 m³/h.

We operate with a 'less is more' ideology and always strive to manufacture the most compact AHU possible, considering the necessary project parameters.

This makes them ideal for internal and external installation, where occupied space is of utmost importance.

AHU Unit Configurations

Whether you need internal or external AHUs, single or double-story AHUs, side-by-side, ceiling-mounted or floor-mounted AHUs, we can help. Configuration doesn't worry us, as long as specified at the project start, we can adapt and develop your air handling unit according to your need.

AHU with Total Flexibility

With a variety of flexible operational configurations to meet different applications and user preferences.

Developed and manufactured in the DX (Direct Expansion) option with environmentally friendly R410A refrigerant is available in all our air handling units, offering cooling (3kW - 140kW) and heating (1.5kW - 100kW) options.

Available in one or two cooling or heating circuits. Already equipped with control and protection panel. Also available in the CW (Chilled Water) option with the same capacities as DX.

CUSTOMER SERVICE

SPECIAL PROJECTS DEVELOPMENT

Our portfolio includes equipment development engineering services, such as consulting and project supply for general applications.

COMPLETE EQUIPMENT DATA

Complete detailing of equipment to be applied in the environment according to the project.

IMMEDIATE SUPPORT

At MGE air, we not only develop and manufacture Air Conditioning equipment, we also provide a wide range of support services to ensure our customers receive the best and fastest pre and post-sales service.

With a team with extensive experience in air conditioning in the areas of comfort, industrial, critical mission, hospital and data centers. Specialization and technical support also.

From project to Start-Up, our team can offer you support to ensure your system operates at maximum performance, providing energy efficiency and longevity.

ORIGINAL PARTS

Original parts provide customers with reliability, peace of mind and guarantee equipment operation.

We are always committed to providing our customers with easy and fast access to spare parts, recommending "spare parts" to your customers with safe and reliable planning.

With special costs and commercial conditions.

OPERATIONAL INSTRUCTION AND TRAINING

In addition to commissioning, start-up, assembly supervision and maintenance services, we can provide on-site training/instruction. This will be useful for those responsible for unit operation.

Although this service is adapted to individual needs, it typically includes:

- Supply of operation and maintenance manuals. Introduction, allowing you to highlight what you consider relevant.
- Navigation and explanation of the controller's basic operation.
- Instructions on unit maintenance items, such as: electrical panel, fans, compressors, mechanical and electrical protections as well as controllers.

ASSEMBLY SUPERVISION, COMMISSIONING AND STARTUP

MGE Air provides complete assembly supervision, commissioning and startup services for its products, carried out by experienced and trained professionals to ensure that, once our solutions are acquired, your equipment is configured to function correctly and efficiently, in order to optimize and guarantee its performance.

SPECIALIZED TEAM

When choosing to use our services, you can be sure that all our professionals are:

- Factory trained to the highest standards by professionals directly involved in equipment project development.
- Equipped with state-of-the-art calibrated test instruments necessary to ensure values are correct without any doubt or margin of error.
- Equipped with necessary tools and software to communicate with unit controllers.

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Scan the QR CODE
and get in touch!

