

AIR QUALITY • COMFORT • ENERGY OPTIMISATION



CLIMACIAT™

AIR HANDLING UNIT

TAILOR-MADE INDOOR AIR QUALITY



CLIMACIAT
airaccess



CLIMACIAT
airtech



CLIMACIAT
airclean





CIAT THE AIR HANDLING SPECIALIST CREATES THE REFERENCE CLIMACIAT



A EUROPEAN LEADER

A major industrial group, CIAT designs, manufactures and markets solutions for the residential, tertiary, healthcare and industry sectors. Its activities are based on optimising energy consumption levels and improving air quality and occupant comfort in buildings.

A key player in the heat pump, refrigeration and air handling sectors, CIAT invents cleaner, more economical and safer solutions. The group is also strongly committed to protecting the environment, which is a fundamental part of its development strategy.

SUPPORT THROUGHOUT YOUR PROJECT

CIAT makes a long-term commitment as a partner by your side: from the specifications stage right through to installing the equipment, experts analyse your requirements to provide you with the best possible solution. The integrated engineering department, the ultramodern research and design centre and the cutting-edge industrial facilities, from which we manage the entire production process, allow us to adapt to your specific needs.



PURE PERFORMANCE



CLIMACIAT
airaccess

PURE MODULARITY



CLIMACIAT
airtech

PURE CLEANLINESS



CLIMACIAT
airclean

AN ENTIRELY MODULAR RANGE

Designed to respond to a broad variety of demands, the CLIMACIAT range of air handling units (AHU) is the result of 10 years of high-precision research and tests. As the reference in its field, CLIMACIAT combines the skills of teams of experts and state-of-the-art industrial equipment, resulting in a range that meets both current needs and future challenges.



Because we master the entire industrial process (design, engineering, production), CIAT can now offer a comprehensive range backed by tailor-made support while remaining dedicated to the same ongoing commitment: to optimise indoor air quality, comfort and energy performance.



CIAT FOCUSES ITS INNOVATION ON CURRENT AND UPCOMING CHALLENGES

THE HEART OF
CIAT'S EXPERTISE



CULOZ RESEARCH & DESIGN CENTER

A UNIQUE
LABORATORY
IN EUROPE

The CULOZ Research and Design Center is one of the largest HVAC (heating, ventilation, air conditioning) innovation centres in Europe. In standardised test rooms, engineers reproduce climate conditions as close to reality as possible. By taking external elements into account, such as phenomena related to materials, experts validate the performance levels of equipment and optimise occupant comfort. Tests are performed on humidity, airtightness and the insulation of panels or the air flow over the heat recovery units, enabling an optimal level of indoor air quality to be reached.

For example, the Epure Dynamics® system (patent filed by CIAT) controls the concentration level of fine particles and, if necessary, activates an operation to depollute the indoor environment. CIAT ranges are developed with the long-term in mind and meet the needs of the future today.



ECO DESIGN

RESULTS THAT EXCEED THE REGULATORY REQUIREMENTS OF TOMORROW



CIAT strives to reduce the ecological impact of its equipment throughout its life cycle, from creation to final decommissioning. It confirms this strong environmental policy in its commitment to respecting ISO 14001 and OHSAS 18001 certifications.

This commitment involves the following:

- To act as early as possible in the product design process;
- To take into account and make available the results of the life cycle analyses (LCA) for products (complete system for heating, ventilation and cooling);
- To provide environmental reports related to the equipment.

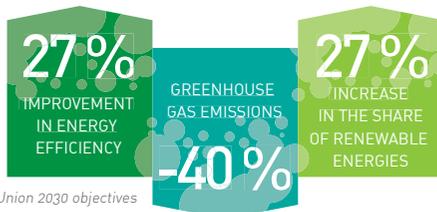
This approach benefits from an internationally recognised standard: ISO 14062 (Environmental management - Integrating environmental aspects into product design and product development).

CIAT INNOVATION

ErP DIRECTIVE

The European Directive 2009/125/CE ErP (Energy related Products) regulates the constraints related to the ecodesign of products that have an impact on energy consumption during their lifecycle. It aims to improve their energy efficiency and reduce their overall impact on the environment, and particularly the resources consumed throughout their service life.

Since 1st January 2016, regulation 1253/2014 imposed by this Directive has set new requirements in terms of energy efficiency on units equipped with filters, heat recovery units, fans and motors (including AHUs). They will be reinforced on 1st January 2018. Actions implemented include: air speeds on battery less than 2,5 m/s; improved efficiency of filters with single and dual flow exhausts; selection of filters and fans with optimised efficiency...



European Union 2030 objectives

INDUSTRIAL EXCELLENCE

French expertise and manufacturing are hallmarks of the quality of CIAT products and solutions throughout the world. To guarantee optimal development of the CLIMACIAT range, the CIAT group demonstrates its commitment to quality and efficiency by deploying ultramodern production means.

The skills and expertise of our teams are backed by completely integrated powerful production facilities resulting in a fully-mastered industrial procedure. The objective is to create tailor-made, durable and high-performing products.

Production line: machining the sheet metal



Automatic powder coating line



Robot for fitting bi-component form-in-place gaskets



Because each sector and each building has its own constraints and needs, CIAT offers a comprehensive range of products through CLIMACIAT. Each unit is unique, specially designed and developed drawing on all of CIAT's expertise to meet your most demanding requirements and specifications.

CLIMACIAT

OPTIMISED ENERGY EFFICIENCY

From the design stage right through to production, the objective of CIAT's experts is to offer customised AHUs with high performance levels. An extensive choice of heat recovery units to optimise the thermal consumption of buildings, as well as filters sized to limit the pressure drop, guarantee the lowest energy consumption possible.

EASY INSTALLATION

Once the AHU is delivered, it is essential that it be installed as quickly and easily as possible. A smooth and effective operation saves time and money all round. To this end, a pack is available for part of the range to prepare this step beforehand in the factory so as to optimise the operation on-site.



CLIMACIAT
airaccess

PURE
PERFORMANCE



CLIMACIAT
airtech

PURE
MODULARITY



CLIMACIAT
airclean

PURE
CLEANLISS

INTEGRATED REGULATION

A major innovation for CLIMACIAT, the control unit is a new modular component that is now available across the entire range. This function, which is fully integrated into the AHU (unit, wiring, sensors, etc.), can easily be selected using the dedicated software and tools.

THE RANGE



CONCENTRATED
EXPERTISE
TO OBTAIN
THE ESSENCE



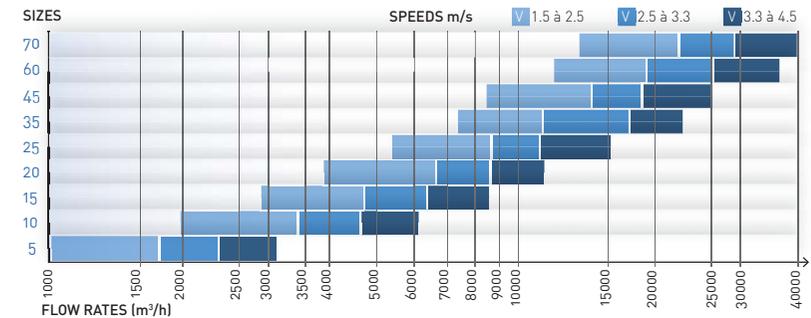
COMBINING
EFFICIENCY
AND MODULARITY
TO MEET
TECHNICAL REQUIREMENTS



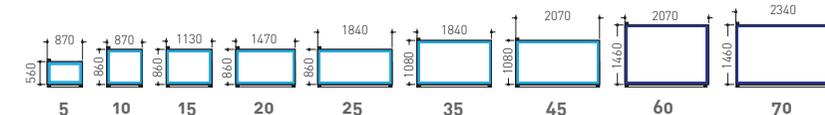
DESIGNED
FOR THE SPECIFIC
CHARACTERISTICS OF
CONTROLLED
ENVIRONMENTS

With a range covering all applications, CLIMACIAT is the optimum tailor-made solution whatever the air volume to be handled or the level of hygiene desired.

SELECTION TABLE



AHU SECTIONS (mm)



WATCH THE PRODUCT FILM FOR THE CLIMACIAT RANGE
www.ciat.com

CLIMACIAT airtech

THE CUSTOMISED AHU FOR OPTIMUM VERSATILITY

For each unique project there is a unique air handling unit. With CLIMACIAT Airtech, CIAT provides a solution that is perfectly suited to each environment. Offices, administration, industry... the contexts are numerous. With the commitment for comfort, energy efficiency and controlled indoor air quality constantly in mind.

CIAT designs and manufactures totally modular air handling units which will meet your specifications, component by component. The sales teams provide support to help you draw up a tailor-made solution that corresponds to the characteristics of your project, whether in terms of activity or technical and environmental requirements.

CIAT offers an extensive range of functions and options to meet different criteria of use: high-performance casing with double walls and 50mm insulation, exterior polyester paint, low thermal bridge, door on frame with wide handles, adaptable control systems, etc.

The versatility of the CLIMACIAT range and the new integrated control unit now available mean you can compose the exact indoor air quality you require.



CLIMACIAT
airtech



INDUSTRY



OFFICE



ADMINISTRATION



SHOPPING CENTRE



HOTEL



COLLECTIVE HOUSING



Actuators mounted (optional)



Class 1, 3, 4 damper and ATEX solution



Control sensors mounted (optional)



Integrated control unit (optional)



Variators and electrical equipment mounted (optional)



G1 to H14 filters with assemblies suited to various configurations



Extensive choice of fans with plug fan impeller solutions, AC/EC motor



Doors on frames with thermal breaks and form-in-place gaskets for a perfect fit. Easy access for maintenance



Heat recovery for all applications and performance levels (anti-corrosion protection, enthalpy transfer, etc.)



Sealed wall cross members without thermal bridge with heat exchange coils manufactured in our factories



Simplified handling and positioning

CLIMACIAT airclean

THE AHU SOLUTION FOR CONTROLLED ENVIRONMENTS



"Clean room" environments (medical facilities, pharmaceutical industries, micro-electronics) are particularly demanding. That is why CIAT, in collaboration with experts from this sector, has developed a product which takes into account crucial and specific points: decontamination, airtightness, absolute filtration, easy and minimised maintenance, etc.

Designed for ultra-cleanliness (perfectly smooth interior, doors without internal handles or thresholds and with resistant and replaceable form-in-place gaskets, etc.), each air handling unit is tailor-made to become an intrinsic component of the clean room and provide the exact air quality you need.



Stainless steel or painted filter mounts with universal frames, absolute frames or absolute single unit plates



High-performance casing with low thermal bridge. Various coatings and materials possible (stainless steel, paint, etc.)



Multi-slope stainless steel condensate pan, fully accessible for decontamination purposes



Protection and paint solutions on all ventilation components



Sound attenuator with baffle protection by means of an anti-defibrillation fabric (stainless steel or paint optional)



HEALTHCARE



INDUSTRY



CLIMACIAT airaccess

THE AHU THAT MEETS ESSENTIAL REQUIREMENTS

Designed to ensure a high level of performance whilst fully respecting the normative and regulatory requirements, this solution is adapted to the needs of "multi-use" tertiary buildings. With CLIMACIAT Airaccess, CIAT has developed an accessible and efficient range that is simple to install and use.



Filtration from G1 to H13



Functional and high-performance casing with doors with form-in-place gaskets



Rotary heat recovery units or plate heat exchangers with options



High-performance AC/EC fans



Various types of droplet separators (aluminium, stainless steel, polypropylene) on runners for sideways removal



OFFICE



ADMINISTRATION



HOTEL



CIAT YOUR SERVICE SPECIALIST

At CIAT, we want to offer you a high quality of service.
We work with you to form a real partnership as soon as your equipment is installed.
CIAT is committed to meeting your needs by offering:

EXPERTS CLOSE AT HAND

Our qualified and responsive teams of technicians are available to implement actions on site and ensure optimal operation of your equipment. Our philosophy: to provide the right service at the right time, for durable use of the equipment installed and to ensure constant comfort for the building's occupants.

EFFICIENT TECHNICAL SUPPORT

Thanks to our expertise and experience in the fields of maintenance and technical service, CIAT offers a wide range of services, from diagnostics right through to energy audits. Engineers and technicians on the field work hand in hand to meet your expectations in terms of energy efficiency.

INNOVATION FOR HIGH ADDED VALUE

CIAT innovates constantly in order to provide you with services adapted to your needs. The installations and equipment are monitored continuously to help users optimise energy consumption. We guide you through all of your projects. Our priority, 24/7: to allow you to focus on your business whilst CIAT provides you with the best possible level of service.



CIATM2M

Thanks to CIATM2M, you can monitor and control the correct operation of your installation remotely. This service improves the availability of your equipment, optimises its use and provides you with technical support from our experts in real time.

PRESENT
IN
OVER **50** countries
AVAILABLE
24/7
OVER **80** years
OF EXPERIENCE



www.ciat.com

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