



COMFORT
AIR QUALITY
ENERGY OPTIMISATION



CIAT A GLOBAL SYSTEM PROVIDER

With over 80 years of experience, CIAT is one of Europe's leading names in heating, air conditioning and air handling solutions for the commercial, residential, healthcare and industrial sectors. Renowned for our capacity to create innovative, durable and high-performing products, we offer a complete range of equipment that is designed to work together. The skills and expertise of our teams are backed by completely integrated powerful production facilities which enables us to guarantee the optimal development of our global system solutions. Our latest innovations have been specially designed to meet your most demanding requirements and provide you with the best in technology.



CIAT COMMITMENTS THAT CONSTITUTE EXCELLENCE

Construction standards are increasingly stringent and buildings must be designed not only with the comfort of occupants in mind, but also with the aim to protect their health equity while reducing energy consumption and environmental impacts. CIAT responds by a constant commitment to offer more than just an extensive product range; we provide a comprehensive system offer developed around three fundamental values:

Indoor Air Quality

CIAT is committed to the research and development of innovative solutions aimed at improving indoor air quality, a major health issue of critical importance in the design of buildings. By integrating dynamic purification systems, particulate and chemical sensors and increased filter efficiency into its equipment, CIAT helps control CO₂ and fine particle concentration, achieving an air quality as close as possible to the recommended threshold defined by the World Health Organisation.

Comfort

CIAT designs and manufactures products and systems with the well-being of occupants in mind. By developing equipment that provides the best possible thermal, aeraulic and acoustic comfort, we put individuals at the heart of our strategy and create interior environments that are renowned for their quality. Our comfort units ensure minimised temperature fluctuations, quiet operation and better visual integration, providing optimal comfort at all times.

Energy Optimisation

CIAT develops products with a constant concern for performance. Our thermodynamic equipment meets the highest standards in energy use classification (class A) allowing substantial savings to be made without compromising on performance and efficiency. Heat recovery and thermal energy storage units harness calories that would otherwise be wasted, thereby using less energy and contributing to the reduction of greenhouse gases.



SPECIFICATIONS

SUPPORT THROUGHOUT YOUR PROJECT



SOLUTIONS



INDUSTRIAL FACILITIES



INSTALLATION



SERVICE

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.



CIAT's activities are based on optimising energy consumption levels and improving air quality and occupant comfort in buildings. We provide sustainable systems and highly advanced equipment that meet stringent certifications and standards. We are also strongly committed to protecting the environment, which is a fundamental part of our development strategy

WORLD-CLASS OPERATIONS

OPERATIONS TO BRING BEST-IN-CLASS SOLUTIONS

Our European Centers of Excellence and production sites are all world-class facilities in their own right. Each center focuses on a specific field of expertise to support our customers in meeting the challenges they face today.



CULOZ CENTER OF EXCELLENCE FOR AIRSIDE TECHNOLOGIES

Equipped with state-of-the-art development, test and measurement tools, teams of experts at the Culoz site carry out prototyping and testing for customers who are looking for the best in innovation in air handling units, fan coil units and heat exchangers.



MONTILLA CENTER OF EXCELLENCE FOR ROOFTOPS AND PACKAGED SOLUTIONS

The teams in southern Spain have in-depth expertise in rooftop, packaged, dehumidifier and preconditioned air (PCA) for aircraft units. The center houses the largest HVAC factory in Spain and Europe's biggest laboratory for aircraft preconditioned air units.



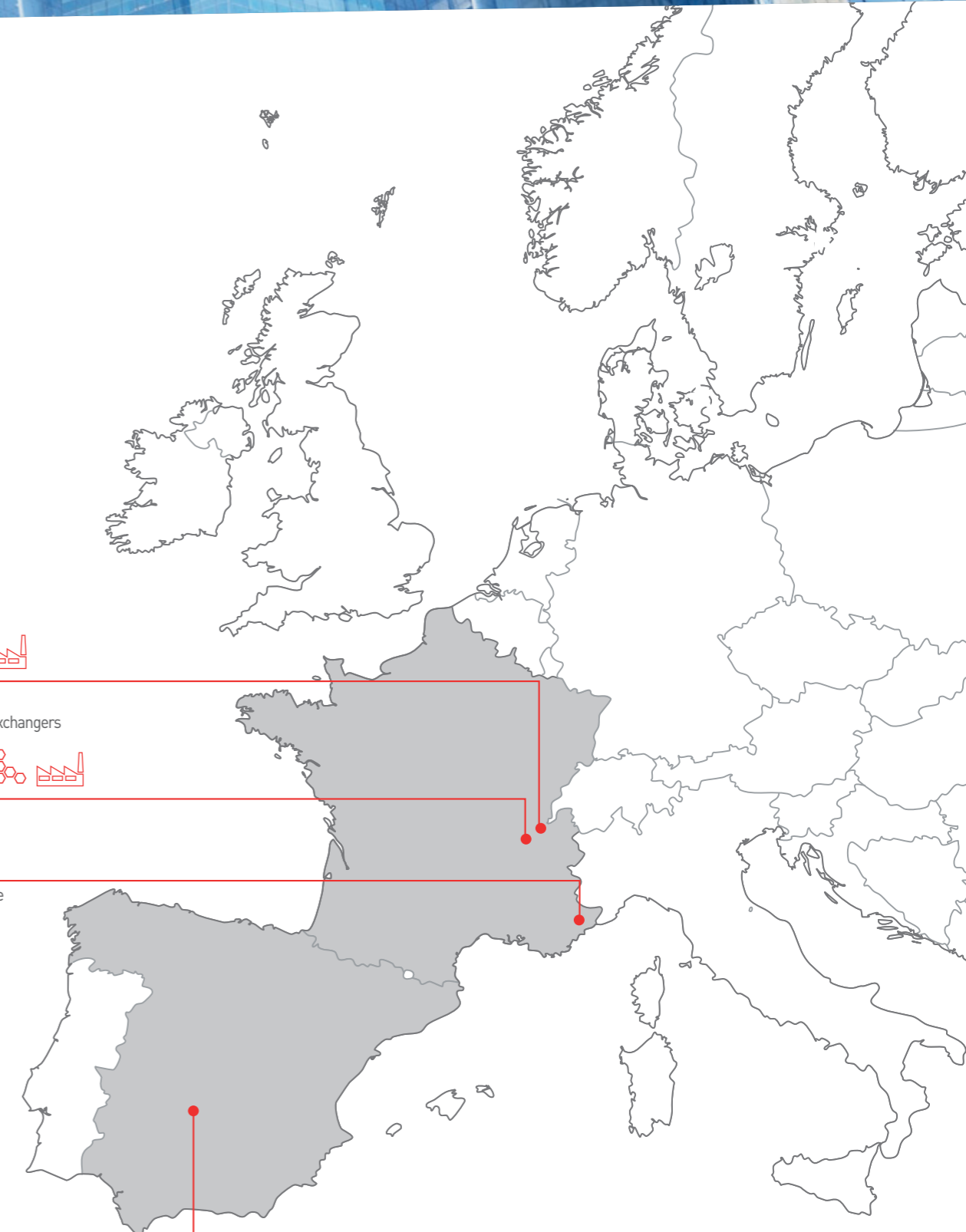
MONTLUEL CENTER OF EXCELLENCE FOR CHILLER AND HEAT PUMP TECHNOLOGIES

Experts at the Montluel site draw on over 50 years of specialist knowledge and engineering skills to offer customers tailor-made solutions to meet their individual needs in chiller and heat pump innovation.



VENCE CENTER OF EXCELLENCE FOR CLIMATE CONTROL SYSTEMS

Providing climate control systems for HVAC environments is the key activity at the Vence Center of Excellence. Here the engineering team develops cutting-edge solutions to optimise and improve the energy efficiency of HVAC systems.



CULOZ

Air Handling Units,
Terminal Fan Coils & Heat Exchangers

MONTLUEL

Chillers and Heat Pumps

VENCE

Energy Management Climate
Control Systems

MONTILLA

Rooftop & Packaged Units

 **R&D Center & Laboratory**

 **Production Sites**



CIAT EXPERT IN INDOOR CLIMATE SYSTEMS

As a pioneer of customised HVAC solutions, CIAT understands the importance of increasing the well-being of individuals in their living areas and places of work. Aware of the thermal, energy and air quality issues faced today by every sector of activity, we have responded by developing global systems based on an adapted and efficient combination of products.

WATER-BASED GLOBAL ENERGY SYSTEMS FOR HEATING, COOLING AND INDOOR AIR QUALITY

To comply effectively with today's thermal and environmental regulations, CIAT designs optimised water-loop energy systems comprised of comfort units, heat pumps and dual-flow air handling units. As a renewable resource and a highly effective heat transfer fluid, water not only represents an excellent alternative to direct expansion systems it also meets F-Gas regulations in terms of confinement and limitation of refrigerants within buildings.

BENEFITS OF THE WATER LOOP

- ⊕ **More competitive:** equipment that is more cost effective and requires less maintenance than direct expansion systems
- ⊕ **Greater comfort:** flexible, precise control of comfort for the occupants
- ⊕ **Increased energy efficiency:** homogenous and thermally stable, water reduces the energy requirements for heat transfer
- ⊕ **Environmentally sustainable:** no refrigerant is required on the premises and only a small amount is used in the heat pump installed outside the building's occupied areas
- ⊕ **Easy to install:** no refrigerant specialists are required during installation
- ⊕ **Flexibility:** a water-loop energy system adapts easily to the design of buildings and the changes that may be made to its layout over time

SMART CIATControl: THE ENERGY MANAGEMENT SYSTEM

Connected to all HVAC components (refrigeration, comfort units, air handling unit) and using a patented algorithm that can be programmed according to building occupancy and weather conditions, Smart CIATControl adapts the efficiency of the thermodynamic producer to the needs of the emitters in real time.

In addition to automatic system changeover based on calculation requirements, features include:

- **Optimal Stop & Start:** predictive function which anticipates the stop and start times of the HVAC system.
- **Optimal Water®:** allows the temperature of the chiller or heat pump to be controlled according to the demand from the emitters.
- **Night cooling:** charges the building with fresh air during the night and delays the activation of the refrigeration request during the day.
- **Epure Dynamics:** patented process which ensures a particulate level for the building that is beneath the fixed WHO recommendation of 10µg/m³.



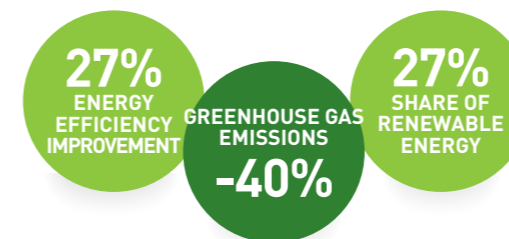
The optimizations offered by Smart CIATControl allow **energy saving for the building**

COMPLIANCE WITH STANDARDS AND RESPECT FOR THE ENVIRONMENT

CIAT pursues an exemplary quality approach to developing sustainable and efficient systems which conform to the standards of today and anticipate those of tomorrow. We ensure that our developments conform to the various environmental directives and regulations and, as a real driving force in our sector, also participate in their implementation.

THE ENERGY-RELATED PRODUCTS (ERP) EUROPEAN DIRECTIVE

The European Directive 2009/125/CE ErP outlines the conditions and criteria relating to the eco-design of products that affect energy consumption throughout their life cycle, from manufacture, to use and until disposal at end of life. It encourages manufacturers to design products that improve energy efficiency while reducing their overall impact on the environment, in particular the resources consumed throughout their service life. All CIAT products included in our catalogue conform with the ErP directive.



F-GAS REGULATIONS

Since 1 January 2015, the measures to control emissions from fluorinated greenhouse gases have been strengthened and a number of far-reaching changes have been introduced with a view to cutting the EU's F-Gas emissions by two-thirds by 2030 compared with 2014 levels.

These directives have a direct impact on HVAC equipment and involve the implementation of appropriate solutions. Direct expansion systems are destined to disappear as technological choices increasingly turn to water-based solutions which confine small amounts of refrigerant to a limited part of the installation.

ECO-DESIGN: RESULTS THAT EXCEED THE REGULATORY REQUIREMENTS OF TOMORROW, TODAY

At CIAT we strive to reduce the ecological impact of our equipment throughout its life cycle, from creation to final decommissioning. We confirm this strong environmental policy in our commitment to respecting ISO 14001 and OHSAS 18001 certifications, and undertake:

- To integrate environmental aspects 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".



SERVICE SOLUTIONS

CIAT AT YOUR SERVICE FOR YOUR COMFORT, AIR QUALITY & ENERGY OPTIMISATION

As key European player for HVAC systems, our objective is to provide high quality service and develop partnerships with you throughout the lifecycle of your installations. We understand your changing needs, develop smart services and energy solutions for all types of applications that optimise performance and enable savings.

Committed to improve life quality, we provide the support you need to get the most out of your solution and develop strong partnerships with our customers, from project analysis to commissioning and operation for long-term satisfaction.



A WHOLE WORLD OF SERVICES

MAINTENANCE:

- Warranties and extensions
- Preventive and corrective
- Service contracts

CONTROL AND MONITORING:

- Real-time data, alerts and reports
- Monitoring and optimizing performance
- Prognosis and expert analysis

MODERNIZATION:

- Upgraded installation
- Performance improved
- Turnkey projects

REPAIRS:

- Efficient diagnostics
- Quick on-site interventions
- Technical assistance

SPARE PARTS:

- Universal and Factory Authorized Parts
- Consultancy and kit solutions
- Dedicated on-line shop

THERMAL ENERGY STORAGE:

- For peak cooling demand >500 kW
- Shift electricity consumptions from peak to off peak hours

CIATM2M:

OPTIMISE HVAC OPERATION & MAINTENANCE NEEDS ALERTS, REAL-TIME DATA & REPORTS WITH EXPERT ANALYSIS DATA ARE REGULARLY REVIEWED THROUGH CONTINUOUS SUPPORT

In the current context of increasingly efficient building requirements, CIAT offers monitored services that help customers to improve the efficiency of their HVAC installations.

CIATM2M is an advanced monitoring solution, which enables customers for all applications to track and monitor their CIAT equipment.

- Real-time data retrieve through a custom access to the CIATM2M website (synoptic, controller dashboard, event and temperature curve, alert & fault memory and parameters log)
- Email alert at any event on the equipment
- Monthly and annual reports with analysis and recommendations from CIAT experts.



- ⊕ Better profitability
- ⊕ Equipment availability
- ⊕ Steady indoor air quality
- ⊕ Optimal equipment control
- ⊕ Fully secured connection

HVAC EXPERTS CLOSE AT HAND

A COMBINATION OF KNOWLEDGE AND EXPERIENCE FOR BETTER TECHNICAL SUPPORT

Our qualified and responsive teams of technicians are available to implement actions on site and ensure optimal operation of your equipment. Thanks to our expertise and experience in the fields of maintenance and technical service, CIAT offers a wide range of services from pre-sales technical support and diagnostics right through to energy audits.

Our dedicated hotline for off-site support with our engineers and technicians on the field, work hand in hand to meet your expectations in terms of energy efficiency. Our priority, 24/7: to allow you to focus on your business whilst CIAT provides you with the best possible level of service.

+60 SERVICE TECHNICIANS	A LARGE RANGE OF UNITS UNDER SERVICE CONTRACTS	CONTINUOUS TRAINING FOR TEAMS & CUSTOMERS
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HVAC EUROPE PARTS CENTER

BUILDING SERVICE EXCELLENCE FOR CUSTOMERS

Thanks to our dedicated parts team and our factories located throughout Europe, HVAC Europe Parts Center is able to deliver 250 orders daily and ship efficiently around the world. With more than 37,000 active parts and 10,000 items in stock, we propose a comprehensive parts offer including compressors, universal parts and manufactured components. Our purchasing power ensures optimised pricing and leadtimes. Thanks to our manufacturing expertise, we provide advice to help you find the best service solution to meet your specific needs.

- State-of-the art logistics with reliable next day delivery for Europe
- Storage permanently adjusted according to customer demand
- Dedicated, accessible and reactive teams
- Dedicated online shop to facilitate parts selection
- Stock online, order tracking, parts selection: numerous specific online tools to ease and fasten your business

+80.000 MANAGED PARTS NUMBER	STRONG SUPPLY CHAIN	98% DELIVERIES ON TIME
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VENCE CLIMATE CONTROL SYSTEMS CENTER OF EXCELLENCE

Expert in customized control solutions, smart services for HVAC systems and plant room.

At the Vence Center of Excellence for Climate Control Systems, our engineers focus on developing and offering technical support for smart services and designing, engineering and implementing HVAC systems with storage solutions.

Their know-how is proven and unique with in-depth knowledge of both cooling/heating and automation. The Vence centre works closely with Europe's leading science park located in Sophia-Antipolis, in the south of France. The team is frequently involved in major European research and innovation projects.

CONNECTED SERVICES AND ENERGY OPTIMIZATION

- Monitoring
- Equipment control
- Plant and system management
- Climate control solutions compatible with every Building Management System

	+1 300 CONNECTED EQUIPMENT
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	+500 MW ELECTRICITY SAVED
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	+6 000 000 kWh DAILY TRANSFER
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HEALTHCARE

Control of airborne contamination and noise levels in risk zones.

Protection of health and comfort in reception areas and patient rooms.



SHOPPING CENTERS

Full modularity with plug and play system.

Optimized operating costs.

- CLIMACIAT AIRCLEAN**
Air handling unit designed for the specific characteristics of controlled environments
Certified Eurovent DIN 1946-4 / NDI 6022.
- COADIS LINE**
Cassette comfort unit with Coanda effect for increased occupants' comfort.
- COMFORT LINE**
Ductable comfort units with excellent acoustic comfort.
- EPURE DYNAMICS**
Smart CIAT control air purification function for higher quality indoor air, specifically through purification on fine particles in accordance with WHO recommendations.
- POWERCIAT**
Groupe d'eau glacée à condensation par air à haut rendement doté de technologies de réduction du bruit.
- THERMAL ENERGY STORAGE**
High efficiency air-cooled chiller with noise reduction technologies.
- POWER CONTROL**
Plant system management designed to control a complete thermal energy production system (heating wand cooling).

- VECTIOS**
Rooftop unit. All-in-one air conditioning solution, with flexible configuration, designed both to offer high levels of indoor air quality and high efficiency reducing total cost of ownership during its lifetime.
- AQUACIAT POWER**
High efficiency air-cooled chiller & heat pump with noise reduction technologies and integrated hydraulic module.
- HYDROCIAT**
Compact and reliable water-cooled chiller.
- VEXTRA**
Compact drycooler unit working with Hydrociat for an optimised global solution.
- CLIMACIAT AIRTECH**
Accessible and efficient air handling unit that is simple to install and use.
- COADIS LINE**
Cassette comfort unit with Coanda effect for increased occupants' comfort.
- MELODY 2**
Optimum heating and cooling performance cassette, designed for perfect integration in suspended ceiling.
- THERMAL ENERGY STORAGE**
Reduced operating cost and non-stop support.

HOTEL

Comfort, silence and discretion for the satisfaction of your clients.

Controlled running costs.



LIGHT COMMERCIAL

Comprehensive solutions and guaranteed services for building managers' peace of mind.

Simplicity and ideal comfort for building occupants.



- MAJOR LINE**
Versatile and highly efficient comfort unit providing improved comfort and very low sound level.
- COMFORT LINE**
Comfort unit with high available static pressure, modular air discharge configurations, flexible installation and excellent acoustic comfort.
- AQUACIAT**
High efficiency air-cooled chiller with scroll compressor.
- DYNACIAT**
Compact and silent High energy efficiency Scroll compressors
High-efficiency brazed-plate heat exchangers
Self-adjusting electronic control.
- OPERA**
Drycooler range compatible with Dynaciat range for favourable all-round performance levels.
- CLIMACIAT AIRACCESS**
Accessible and efficient air handling unit that is simple to install and use.

- EREBBA HE**
Simplicity and reliability in a high efficiency heat pump, with integrated hydraulic module and NHC controls.
- AQUACIAT**
Compact and silent heat pump with integrated hydraulic module.
- FLOWAY**
Compact air handling unit leading in its category in terms of ease of use, Ecodesign and energy efficiency.
- MAJOR LINE**
Versatile and highly efficient comfort unit providing improved comfort and very low sound level.
- MELODY2**
Optimum heating and cooling performance cassette, designed for perfect integration in suspended ceiling.

MARKETS SOLUTIONS



OFFICES

Thermal and acoustic comfort.

High interior air quality for improved productivity.



AQUACIAT^{POWER}

High efficiency air-cooled chiller with scroll compressor.



DYNACIAT^{POWER}

High energy performance water-cooled chiller with optimised footprint.



EPURE DYNAMICS

Smart CIAT control air purification function for higher quality indoor air, specifically through purification on fine particles in accordance with WHO recommendations.



ITEX

High thermal transfer capacity gasketed plate heat exchanger.



CLIMACIAT AIRACCESS

Accessible and efficient air handling unit that is simple to install and use.



COADIS LINE

Cassette comfort unit with Coanda effect for increased occupants' comfort.



COMFORT LINE

Ductable comfort units with excellent acoustic comfort.



SMART CIATCONTROL

Energy management system allowing for centralization of the information, remote management of equipment, automatic changeover and enhanced energy optimization.



INDUSTRY

High efficiency and full reliability for industrial equipment and global process.

Risk control with ATEX certified heating (air heaters), ventilation, air handling and smoke extraction equipment.



POWERCIAT

High efficiency air-cooled chiller with heat recovery.



HYDROCIAT^{TURBO}

Highly efficient, compact and flexible water-cooled chillers equipped with a Maglev (Magnetic levitation) centrifugal two stage compressor.



VEXTRA

Compact drycooler unit working with Hydrociat for an optimised global solution.



CLIMACIAT AIRTECH

Air handling unit combining efficiency and modularity to meet technical requirements.



VECTIOS

Rooftop unit. All-in-one air conditioning solution, with flexible configuration, designed both to offer high levels of indoor air quality and high efficiency reducing total cost of ownership during its lifetime.



SPACE PF

Rooftop unit. Extensive capacity range. Active or passive recovery option available. Quiet operation. Flexible configuration and adapted for renovation Scroll compressor with R410A.



POWER CONTROL

Plant system management designed to control a complete thermal energy production system (heating and cooling).



THERMAL ENERGY STORAGE

Reduced operating cost and non-stop support.



AIR TREATMENT SOLUTIONS

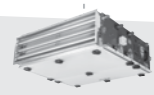
AIR HANDLING UNITS

AIR COMPACT



The modular and ultra-slim AHU to guarantee perfect solution. Ideal for a compact installation. Available in single and dual flow vertical, ceiling or floor mounted versions.

up to 6 000 m³/h



FLOWAY



All range class A+. High-efficiency heat recovery unit. High performance direct drive EC fan motor assembly. Plug & play unit (built-in control).

500 to 18 000 m³/h



CLIMACIAT



AHU for all applications. Designed to meet the EN 13053 and EN 1886 standards. The effective solution for service sector, industry and healthcare applications.

1 000 to 30 000 m³/h



AIRTECH



AHU designed for all types of applications. Thanks to the extraordinary modularity, it allows multiple configurations and installations, both indoor and outdoor.

1 000 to 66 000 m³/h



AIRCLEAN



AHU designed for specifically controlled environments. This range incorporates latest hygienic technological solutions.

1 000 to 60 000 m³/h



HELIOTHERME 4000



The most competitively priced technical solution for heating large spaces. Ensures ultra-fast warm-up of buildings. Excellent diffusion thanks to the double deflection diffuser with its patented JET+ technology. New low energy consumption HEE motor version. New 3-speed thermostat for HEE motor.



ROOFTOP REVERSIBLE AIR-TO-AIR AND WATER-TO-AIR

ROOFTOP UNITS

VECTIOS™ PJ



Integrated "plug&play" system. Eco-Design ready ErP 2021. High seasonal efficiency: scroll compressors in tandem, EC fans, EEV. Reliability with superior quality. Low refrigerant charge R-410A. Optimized dimensions and weights. New intelligent control concept. Active and passive recovery. Air zoning option (up to 4 different zones) and other key feature options.

22.5 to 91.2 kW
20 to 90.1 kW

5 100 to 16 000 m³/h



SPACE PF



Packaged unit all in one. Large capacity range. Scroll compressors in tandem, EC fans. Active or passive recovery options. Configuration flexibility. R-410A refrigerant.

93 to 281 kW
99 to 293 kW

14 400 to 50 600 m³/h



SPACE AQUA XF



Rooftop water cooled for centralized systems with closed water loop. Applicable also for geothermal installations. Configuration flexibility. High efficiency. SEER > 5.6; SCOP > 4.4 in configurations with tandem and supply EC plug-fan. Silent operation. R-410A refrigerant.

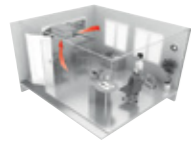
107 to 183 kW
122 to 227 kW

14 400 to 36 600 m³/h



COMFORT UNITS

COADIS LINE 600



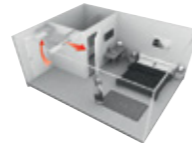
COADIS LINE 900



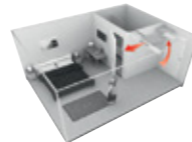
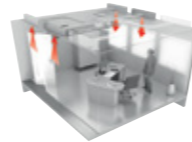
MELODY2



MAJOR LINE



COMFORT LINE



1 to 5kW

1.7 to 6kW

3 to 10kW

3 to 9kW

1.5 to 8.7kW

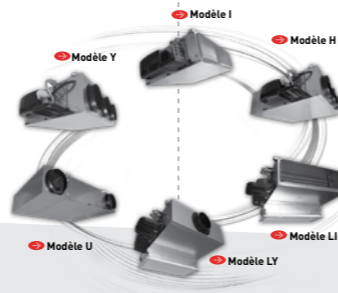
1.3 to 11.6kW

0.7 to 8.5kW

0.9 to 9kW

0.7 to 14kW

0.7 to 17kW



Cooling

Heating

CONTROL FOR COMFORT UNITS

V30 Customised performance at minimum cost.

Electronic control V30



V3000 KNX New generation networked control. Variable flow HEE function control. Condensation-free function management. CIAT Concept & Design. EuBac certification.

Electronic control V3000 KNX



V300 Simplified access with the Master/Slave function. 4 operating modes: complies with RT 2012. Quick and easy to upgrade on site. Centralised timer for managing multiple zones. CIAT concept and design. EuBac certification.

Electronic control V300



FRESH AIR CONTROL Energy saving and optimal air quality in office buildings.

Fresh air control



HYSYS® THE SYSTEM SOLUTION ON WATER LOOP

HYSYS®: THE HYDRAULIC SOLUTION WITH HYMOD



The hydraulic solution which adapts itself to your requirements and guarantees optimum levels of comfort and performance.

- Modular decoupling
- Variable water flow rate
- Variable water temperature (Optimal Water®)
- Network balancing

HYSYS®: THE INTELLIGENT SOLUTION



Management of your installation together with energy optimisation, and the setting of parameters via an intuitive interface, simplifying your day-to-day usage.

HYSYS®: THE AERAILIC SOLUTION



Guaranteeing high quality indoor air, specifically through purification of fine particles in accordance with WHO recommendations.

- Monitor the air renewal according to the occupancy
- Monitor the levels of fine particles (Epure Dynamics®)

- SMART CIATControl (System tracking and optimisation)
- EASY CIATControl (Managing and programming comfort units)

SYSTEM CONTROL

SMART CIATCONTROL



Optimisation of Hysys® system performance:

- Centralisation of the information,
- Remote management of equipment,
- Automatic changeover,
- Enhanced energy optimisation,
- Air quality optimisation function.

Smart CIAT Control: Energy Management System



HEAT PUMPS & WATER CHILLERS

AIR-COOLED UNITS

EREBA Hc



Easy and fast installation
Hydraulic module available
Inverter technology
compressor and fans.

4 to 15kW
4 to 17kW



EREBA ACCESS



Scroll compressors.
Wide range for cooling only
and reversible unit.
Integrated hydraulic module.
Lead/ lag operation.

17 to 40kW
17 to 40kW



EREBA 17-21



Inverter technology.
Cooling only and reversible
unit Integrated hydraulic
module. Lead/ lag operation.

15 to 18kW
17 to 21kW



CIATCOOLER LP



Scroll compressors.
R410A refrigerant.
Compact, ultra-quiet design.
The air conditioning solution
for locations where outdoor
installation is impossible.

18 to 192 kW



AQUACIAT^{CALEO} TD



Designed to replace
conventional boilers.
High temperature
hot water (+65°C).
Winter operation (-20°C).
High energy efficiency.
Compact and quiet.
Condenserless unit.

25 à 102 kW



AQUACIAT LD / ILD



Compact and silent.
Scroll compressors.
High efficiency brazed-
plate heat exchangers.
All-aluminium micro-
channel condenser.
Self-adjusting electronic
control.

LD: 40 to 156kW
ILD: 38 to 148kW
42 to 150kW



R-32
Available in 2020

CONTROL AND SUPERVISION

POWER'CONTROL

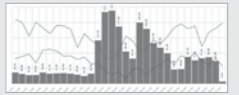
Plant system management.
Designed to control a complete
thermal energy production system
(heating and cooling).



Energy optimization for HVAC systems

CIATM2M

To track, monitor hvac system
performance & take preventive
and corrective actions
remotely.



Monitoring solution for CIAT equipment

AQUACIAT^{POWER} LD / ILD



Energy excellence.
Compact and silent.
Scroll compressors.
High efficiency brazed-plate
heat exchangers.
All-aluminium micro-channel
condenser. Self-adjusting
electronic control.

LD: 168 to 740kW
ILD: 156 to 511kW
173 to 537kW



R-32
Available in 2020

POWERCIAT LX



Compact and reliable.
3 efficiency versions.
Screw compressors.
All-aluminum micro-channel
condenser.
Self-adjusting electronic
control.
Touch screen control
interface.

273 to 1493kW



DYNACIAT LGN



High energy efficiency.
Compact and quiet.
Scroll compressors.
Brazed-plate heat
exchangers.
Self-adjusting electronic
control. Condenserless unit.

23 to 175kW



DYNACIAT^{POWER} LGN



High energy efficiency.
Compact and quiet.
Scroll compressors.
High-efficiency brazed-plate
heat exchangers.
CIAT self-adjusting
electronic control.
Condenserless unit.

200 to 450kW



HEAT PUMPS & WATER CHILLERS

WATER-COOLED UNITS

DYNACIAT LG



Compact and silent.
High energy efficiency.
Scroll compressors.
High-efficiency brazed-plate heat exchangers.
Self-adjusting electronic control.

25 to 190kW
29 to 230kW



DYNACIAT^{POWER}



High energy efficiency.
Compact and quiet.
Scroll compressors.
High-efficiency brazed-plate heat exchangers.
CIAT self-adjusting electronic control.

220 to 720kW
250 to 820kW



HYDROCIAT LW



Compact and reliable.
Standard and High Efficiency versions.
Screw compressors.
Flooded shell and tubes evaporator.
Self-adjusting electronic control.
Touch screen control interface.

273 to 1756kW
317 to 1989kW



HYDROCIAT^{TURBO} LWT



Compact and reliable.
Premium efficiency.
Oil free centrifugal compressor with magnetic levitation.
Flooded shell and tubes evaporator.
Self-adjusting electronic control.
Touch screen control interface.

550 to 1600kW
650 to 1875kW



■ Cooling ■ Heating

DRYCOOLERS - CONDENSERS - HEAT EXCHANGERS - THERMAL ENERGY STORAGE

ENERGY OPTIMISATION SOLUTIONS

Optimised energy management.
Information in multilingual clear text.



THERMAL ENERGY STORAGE

Shift your electricity consumption from peak to off peak hours:
- Turnkey solution
- Proven technology
- Unique expertise
- Reduced operating cost
- Non-stop support to
- Smart grid ready secure cooling production.

DRYCOOLERS & CONDENSERS

OPERA



up to 1 100 kW

MORE
More efficient
More flexible
More intelligent

FOR

LESS
Less energy
Less time
Less noise



AEROFRESH



Adiabatic cooling system.
Alternative to cooling towers.
Smaller units.

VEXTRA



up to 1 900 kW

Slim design and acoustic comfort.
Saves up to 40% floor space.



CONDENSING UNITS

CONDENCIAT CL2



Outdoor condensing unit for direct expansion applications.
Variable speed propeller fan.

6.8 to 18.6 kW



CONDENCIAT CD



Quiet operation.
Low speed fan.
All year round operation.

40 to 161 kW



HEAT EXCHANGERS

ITEX



Liquid / Liquid heat exchangers.
Benefit from a high thermal transfer capacity.
Particularly well suited to low temperature differences between the two fluids.



CLOSE CONTROL UNITS

EXPAIR



Reduced footprint.
Dual-wall construction.
PLC control.
Variable speed condenser fan.

5 to 50kW
1 000 to 12 000 m³/h



MAGISTER



Extensive range of chilled water or direct expansion systems.
Compact and attractive design.
Energy savings with EC motor and self-regulating control
Easy to install.

10 to 116kW

3 000 to 27 500 m³/h



SWIMMING POOL DEHUMIDIFIERS

JUNIOR BCP



Excellent functions/price ratio.
Low energy consumption.
Energy recovery.
Control as standard.
Optional DUAL version.
Double-walled conception.

4 to 15kg water/h

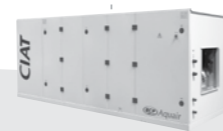


AQUAIR BCP



Single or dual flow.
Optimised energy consumption.
Energy recovery.
Electronic control as standard.
Modular and double-walled conception.
Optional DUAL and AERO versions.

22 to 74kg water/h



AQUAIR PREMIUM BCP



Electronic control.
Optimised energy consumption.
Scroll and R-410A compressors.
EC plug fan with HE motor.
Heating and dehumidification of covered pools.

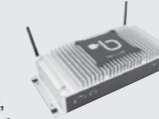
56 to 74kg water/h



CIAT SYSTEM CONTROL AND SUPERVISION

BOSS SUPERVISION

Remote control, managing up to 300 units (3500 variables). Alarm management, planner and event management, diagrams and reports. Installation drawing with units located, energy management, analysis of risks and critical control points, notes and integrated WiFi.



PLANTWATCH PRO3

Management of up to 30 units (with a total of 300 variables). Panel version and wall version. Remote control over the internet with IP address. Management of units in groups or zones. Managing alarms. Planner. Creation of diagrams. Touch screen.



AIR CONDENSED SPLIT AND PACKAGED SYSTEMS

ISPK



Vertical packaged in monoblock or split configuration for indoor installations.
Reversible heat pump.
Tandem scroll compressors and EC plug-fan for indoor and outdoor section.
High seasonal efficiency.
Configuration flexibility.
R-410A refrigerant.

19 to 115kW
19 to 120 kW
4 000 to 21 000m³/h



SC



Air-cooled condensing units designed for installation outdoors. They can be connected on-site with one direct expansion exchanger.
Configuration flexibility.
Silent operation.
R-410A refrigerant.

20 to 135kW
20 to 145kW



CZ



Indoor units with direct expansion exchanger for R-410A refrigerant.
Horizontal construction designed for installation indoors, connected to a network of ducts.
Configuration flexibility.

20 to 135kW
20 to 145kW
4 000 to 24 000m³/h



NEPTUS XP



Personalized control in offices and shopping centers. Vertical construction designed for installation indoors. Discreet solution in centralized units with closed water loop. Applicable also for geothermal installations.
R-410A refrigerant.

25 to 92 kW
28 to 110 kW
3 760 to 20 400 m³/h





OFFICE LOCATIONS

LEATHERHEAD
TCUK Ltd
United Technologies House
Guildford Road
Leatherhead
Surrey
KT22 9UT

MANCHESTER
TCUK Ltd
Unit 15, S:Park Business Park
Hamilton Road
Stockport
Greater Manchester
SK1 2AE

BROMSGROVE
TCUK Ltd
Units 7/8 Topaz Business Park
Topaz Way
Bromsgrove
Worcestershire
B61 0GD

t: 01372 220 151

e: marketing.uk.ciat@carrier.com



www.ciat.uk.com