

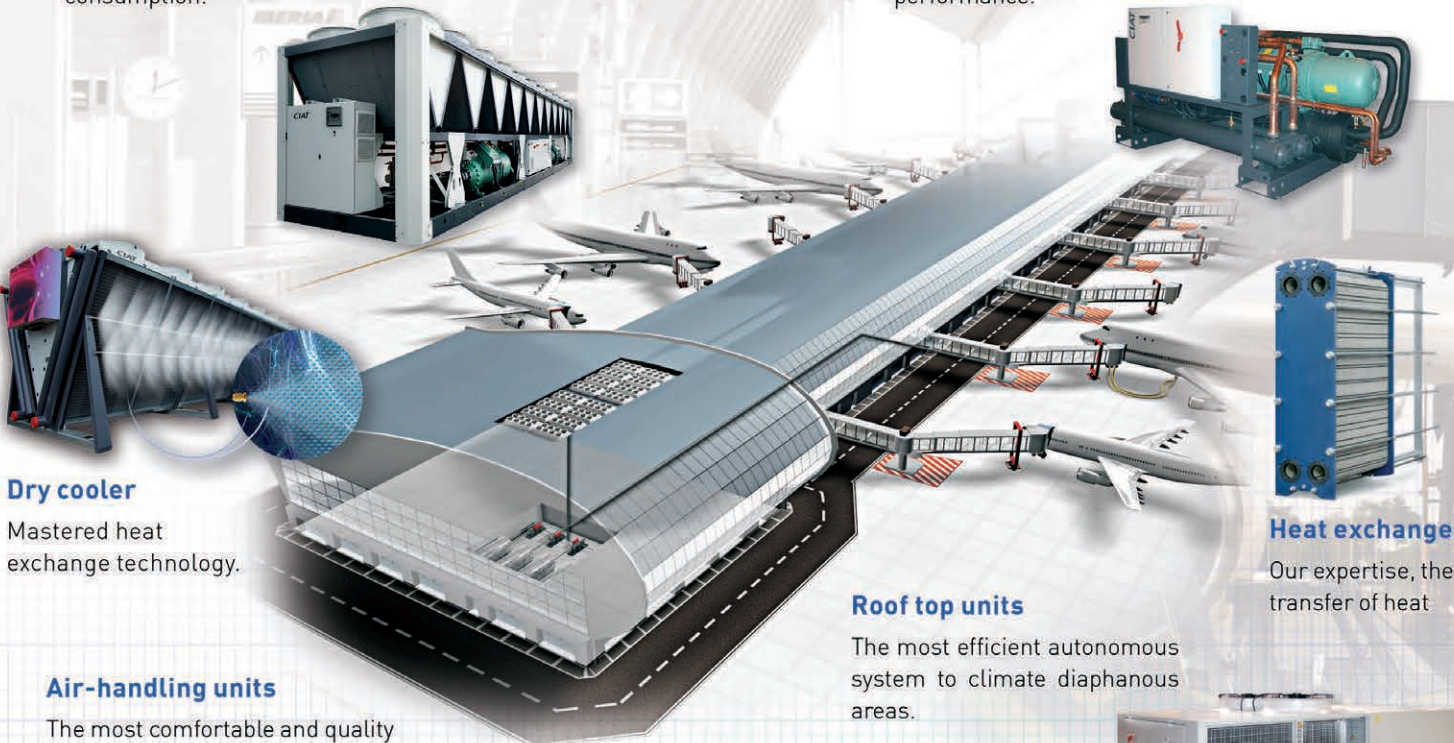
Air conditioning for the terminal

Water chiller

The most powerful outdoor. Unsurpassed performance with extremely low consumption.

Water-water chiller

Indoor/geothermal solution. Constitute an optimum solution in terms of energy performance.



Dry cooler

Mastered heat exchange technology.

Air-handling units

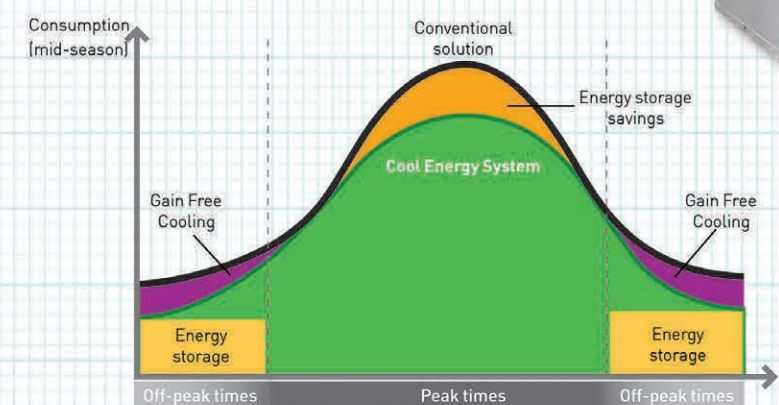
The most comfortable and quality air for large spaces.

Roof top units

The most efficient autonomous system to climate diaphanous areas.

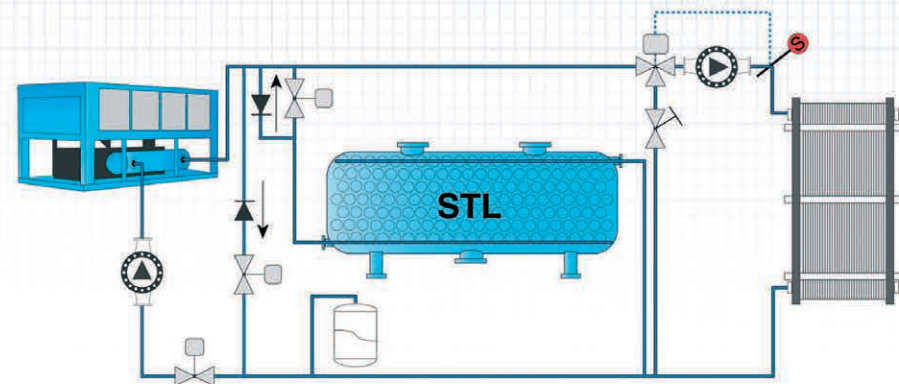
Heat exchanger

Our expertise, the transfer of heat



→ Energy storage

Discover the benefits of the exclusive Cristopia Storage System. Whilst reducing consumption peaks, reduces the electric power installed levels lowering your energy costs and ensuring your comfort level. Reduces CO₂ emissions and noise, at the same time you reduce 30% of the electrical contract.



PRE-CONDITIONED AIR: PCA

ATURE® INVERTER: The first PCA unit with heat pump system

The brand new range of PCA units from CIAT: Ature® Inverter by CIAT is the most versatile and reliable PCA range in the market. It fits any requirement in the airport from new avant-garde designs to renovation projects.

- **100% fresh air down to -2°C:** Ature® Inverter provides the cabin with the right supply of conditioned air to assure passenger comfort under any condition.
- **Heat pump PCA:** The heating mode using renewable energy system based on reversible heat pump.
- **Suitable for Cat C to Cat F:** Ature® Inverter ensures the optimal airflow and pressure whilst reducing the electrical consumption whatever the connected aircraft.
- **Saves fuel and emissions:** Compared not only to polluting APUs but also to alternative PCA solutions.



Ease means savings

From its conception, Ature® series have been designed to provide a reliable and convenient operation during their life cycle.

- **Ease of installation:** Ature® units are conceived to be installed whether on the ground, by the rotunda, within a technical area or hanging beneath the PBB to easily fit any layout in the platform.
- **Ease of operation:** A friendly user interface is at the front of every Ature® unit.
- **Ease of maintenance:** Any part can be easily maintained without compromising the availability of the unit. This drastically reduces the downtime in case of failure. For maintenance, two tools help the labor: the integrated Maintenance Desk and the comprehensive Ature® RampVisor.

ATURE® AQUAM: The water solution

Ature® Aquam by CIAT takes all the advantage from a glycol water district cooling plant to provide the passengers with the comfort they expect at the lowest cost of ownership and operation with the best efficiency and the smallest carbon footprint in your project.

No matter the size of the airport. Our energy simulation software will help in your choice.

- **Ground sustainable comfort:** By relying on the high performance rates delivered by the district cooling plants, Ature® Aquam may reduce the GSE bills when serving aircrafts from categories C to F, either cooling, heating or both at a time depending on the airport configuration.
- **Long life:** Unique and durable protection against outdoors agents is assured by its construction with many available options for additional protection.

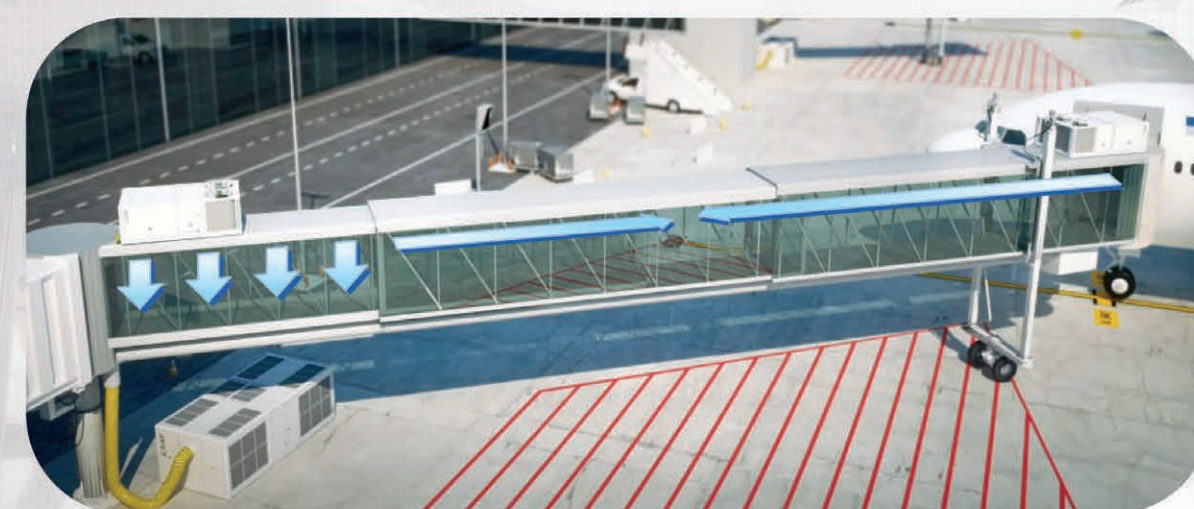


PASSENGER BOARDING COMFORT

ALTIUM®: The plug-in air conditioner

Altium® is the ideal choice for a wide range of ambient temperatures up to 52°C. This high performance compact unit is integrated in the boarding bridges profile, reducing the environmental impact.

- **Slim profile:** Reduction of 38% in height and 52% in volume compared to other alternative solutions.
- **Outstanding features:**
 - Accessibility
 - Improved condensates drainage
 - Thightness
- **Works up to 52 °C:** conceived to perform at the toughest conditions from scratch.
- **Heat pump 100% renewable energy:** Up to 300% better energy performance in heating mode than using conventional electrical strip heaters.



Other facilities areas

→ Business centres and offices

Comfort and quality air

We aware that nothing should to disturb your business.

An exclusive air conditioning system will be studied by CIAT for you and for your most demanding customers. High quality air, without noisy and drafts turn your offices in a suitable place for people who value his time.

The indoor units of CIAT are integrated in the architecture of entrorno, ensuring proper diffusion through the Coanda effect. at the same time, a pure and clean environment is achieved by Epure's air filters, integrated into the units.



→ Control and computer rooms

The high performance range

A right air conditioning for a Control Room and Computer equipment is critical, of it depends a correct operation.

CIAT, due to its extensive product range, ensures and guarantees optimal operating conditions with maximum energy savings.

The versatility of the models allow us to integrate into roofs or technical floors with the most appropriate diffusion.

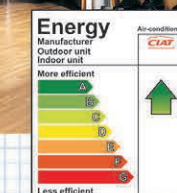


→ Shopping areas

Total versatility

We have the maximum versatility to climate shopping areas in airports. From specifics units to connect to airport water net to autonomous units.

Flexibility for any kind of local and most energy efficiency.



→ Hotels & restaurants

Comfort around the clock

Your airport's reputation also depends on the comfort levels in its hotels and restaurants. COMFORT LINE diffuses universal comfort into each room and above every table.



Continuous technical advice

→ With CIAT, your airport is both passenger and environmentally-friendly

With CIAT by your side, your project will be successful

CIAT is your perfect partner to go together for the success way. Our experts will be with you from the beginning, support at the conception design, analyzing your specific needs and providing customized solutions. With a team of experts eager to help you, CIAT Airports is your partner in your success. We work with you as early on as the design or renovation phase to analyse your specific requirements.

A leader group in air conditioning and handling air, that knows how to optimise air-conditioning and air-handling in your infrastructure, ensure the success of all of your installations around the world.



Rampvisor

It is the preinstalled solution on a PC for the management and supervision of air-conditioning installations with up to 300 units. It performs advanced monitoring and maintenance functions and enables creating areas and groups which simplify the management of the installation.

The programme includes tools which guarantee high reliability thanks to the continuous checking of the operating system, the communication channels, CPU consumption and the RAM memory. The integrated hardware system ensures 24/7 service.

→ CIAT Service: Ensure the quality and reliability

Our highly technological solutions and the high level of our expertise mean that our services must be of the utmost quality. The components used in our equipment are standardised for easy servicing and maintenance. We are at your service to help you to maintain the total comfort of your customers as well as of your employees.

Customer comfort is our priority and never must disrupt it. In this way, CIAT has developed a variety of services in order to optimize our units. Commissioning with warranty extension, preventive maintenance, training, spare parts delivery and corrective works. CIAT Services has adapted his services for your requirements.



Europe

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Bergamo
Brussels
Charleroi

Charles de Gaulle
Dubrovnik
Fuerteventura
Geneva
Hamburg
Heatrow
Ibiza
Istanbul
Izmir
La Palma

Larnaca
London
Luxembourg
Madrid
Málaga
Menorca
Milan
Naples
Nice
Orly

Palermo
Palma de Mallorca
Prague
Riga
Rome
Seville
Sofia
Split
Turin
Vigo

Asia/Middle East

Abu Dhabi
Aleppo
Amman
Ashjabad
Doha
Dubai
Kiev

Lviv
Sharjah
Tashkent
Tbilisi
Turkmenbashi

Others

Cairo
Jakarta
Melbourne
Phnom Penh
Raizet
Santiago de Chile
Siem Reap



Barcelona (Spain)



Madrid (Spain)



Palma de Mallorca (Spain)



Abu Dhabi (U.A.E.)



Queen Alia (Jordan)



Roma (Italy)



Hamburg (Germany)



Heatrow (United Kingdom)



Charles de Gaulle (France)



Istanbul (Turkey)



Santiago de Chile (Chile)



Kiev (Ukraine)



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AIRPORTS

AIR-CONDITIONING, HEATING & AIR-HANDLING FOR AIRPORTS

GLOBAL COMFORT FROM ARRIVAL TO DEPARTURE



Airports: comfort and energy savings



CIAT goes one step further by maintenance the Environment. The taskforce works directly with the CIAT Research & Innovation Centre, one of the most important integrated research centres in Europe. Their mission: to direct the development of CIAT installations towards maximum comfort, optimal energy efficiency and total air quality. By respecting both man and nature, CIAT is at the forefront, offering a promise to the world: live well, live purely, live sustainably.

The Cool Energy System by CIAT allows you, for the same production, to significantly reduce your energy bill, lower the carbon footprint of your installation and even anticipate future developments of environmental regulations and electricity distribution strategies.

Renewable energies and CIAT's technological innovations can help your airport to achieve very high energy efficiency levels.



Financial advantages: less electrical power, lower consumption, a more reliable energy supply agreement, lower maintenance costs...the savings keep on growing.

With CIAT, your satisfaction increases while everything else falls.



→ An international group present in over 70 countries

The CIAT Group is a major name boasting 75 years of proven experience in thermal engineering. The industrial strength of CIAT stems from 7 production sites around the world. CIAT also operates one of Europe's largest private Research & Innovation Centres, allowing us to offer an extremely comprehensive range of equipment and process solutions. Today, in over 70 countries, with more than 2,200-strong workforce continuously rises to the challenge of achieving Universal Performance for some 100,000 customers.

CIAT Air Thermodynamics Factory, which is located in Spain, is the responsible of research, development, manufacturing and distributing all airports units around the world.



→ CIAT, leader for comfort solutions based on renewable energies

CIAT's Research and Innovation centre

Since its creation, CIAT's experts have developed countless major innovations in the fields of heat transfer, air conditioning and thermodynamic cycles, to name but a few. In one of the largest and most modern private Research and Innovation Centres of its kind in Europe. The use of the latest tools for process design and simulation for air conditioning refrigeration systems and the use of simulation's software of last generation allow us to understand the behaviour of the equipment in extreme environmental conditions, may determine any improvements to ensure the correct operation in your facility.

