



# HOTELS

**AIR HANDLING  
AIR CONDITIONING  
COOLING AND  
HEATING  
SOLUTIONS**

**CUSTOMER SATISFACTION  
AND WELLBEING THROUGH  
IMPROVED CONTROL OF:**

**COMFORT.  
INDOOR AIR QUALITY.  
OPERATING EXPENSES.  
ENERGY EFFICIENCY.**



A Carrier Company

# RENOVATION OR NEW BUILD

CIAT is by your side from the beginning. From the design stage, we work with you and the requirements of your hotel to bring you solutions that optimise cooling, heating and domestic hot water.

## INCREASE GUEST SATISFACTION, RETENTION AND REPEAT BUSINESS THROUGH IMPROVED:



### THERMAL COMFORT

- CONTROLLED AND CONSISTENT TEMPERATURE
- CONTROL TEMPERATURES IN SPECIFIC ZONES
- COANDA EFFECT DIFFUSION
- ABILITY TO COOL AND HEAT CONSISTENTLY AND KEEP GUESTS COMFORTABLE WITH SUMMER AND WINTER VARIATION CONTROLS.



### ACOUSTIC COMFORT

ADJUSTABLE AIR FLOW KEEPS NOISE DOWN AND HELPS GUESTS GET A SOUND NIGHT'S SLEEP.



### INDOOR AIR QUALITY

- EPURE ROOM BY ROOM FILTRATION
- CONTROL OF FINE PARTICLES ( $PM_{2.5}$ ) IN LIVING AREAS: IDEAL FOR URBAN AREAS
- LIMIT THE INGRESS OF ATMOSPHERIC POLLUTANTS THANKS TO DUAL-FLOW AHUS

## FOR YOUR PEACE OF MIND

### MAINTENANCE AND OPERATION GUARANTEED

Nothing should disturb your customers' comfort! The ergonomic design of our units has been developed to simplify their maintenance and ensure that they operate optimally throughout their lifecycle. Our solutions also use water as a fluid: this renewable resource is also the best heat-transfer medium. Our water loop-based systems therefore avoid any danger of refrigerant leaks.

### CIAT SERVICE: SUPPORTING YOUR GUESTS

We are at your service to guarantee absolute comfort in your hotel buildings. CIAT's range of service contracts include warranty extensions and remote monitoring, to guarantee you full control.





## CIAT, EXPERT IN COMFORT AND IAQ IN HOTELS

### IMPROVED CUSTOMER COMFORT



#### CLIMACIAT AIRACCESS

An air handling unit offering an accessible and efficient all-in-one solution which remains simple to install and easy to use.



#### MAJOR LINE

A versatile and high-efficiency comfort unit which can improve comfort and offer a very low noise level.



#### COMFORT LINE

High-pressure static comfort unit available, with modular air discharge configurations, flexible connection and excellent acoustic comfort.



#### DYNACIAT

Water chiller with scroll compressors. High energy efficiency unit with a compact design and silent operation. High-efficiency brazed-plate heat exchangers. Energy recovery for DHW preparation.



#### OPERA

Range of drycoolers compatible with the Dynaciat range for high global performance levels.



#### AQUACIAT AQUACIAT<sup>POWER</sup>

Air-cooled liquid chiller and high-efficiency heat pump with scroll compressor. Energy recovery for DHW preparation.

### SOLUTIONS SPECIALLY DESIGNED FOR HOTELS

#### COMFORT LINE: TOTAL FLEXIBILITY AND ADAPTABILITY



Ductable comfort unit offering:

- A **protected air stream** which prevents particles from being drawn into suspended ceilings.
- Optimised air diffusion and suitable mixing rate to ensure **complete coverage** in rooms.
- Very high-efficiency **local room-by-room filtration** of PM<sub>2.5</sub> fine particles thanks to the Epure filter.
- **The 0-10 V signal controls the gradual operation** of the HEE fan motor assemblies, which thereby adapt to the requirements silently.

#### WALL-MOUNTED TERMINAL: HOTELS VERSION WITH GRADUATED POTENTIOMETER



Guests are able to adjust the indoor conditions for optimal thermal comfort.

This wall thermostat does not incorporate a display. This means that your customers' comfort is assured, without the intrusion of unwanted light while they sleep.

#### THE EPURE FILTER: HIGH EFFICIENCY ON PM<sub>2.5</sub> FINE PARTICLES



**Constantly improved air quality:**

- Filter area: 10 times greater than the suction surface.
- Low energy impact with minimal pressure drops.
- A longer service life thanks to its high retention capacity.
- Simplified maintenance: Changed once a year, in less than a minute, incinerable at end of life.
- No discharge from the filter during replacement thanks to its folded design with heat-sealed lateral inserts to make it more rigid.





## CIAT AT THE HEART OF HOTELS



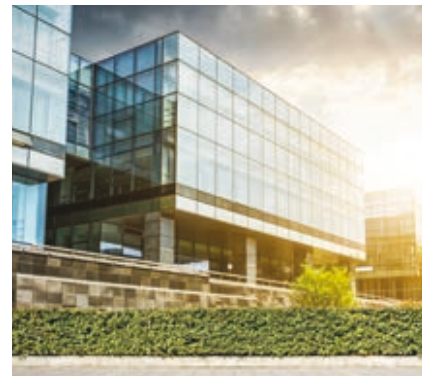
### CUSTOMER SATISFACTION

- Thermal comfort
- Acoustic comfort
- Indoor air quality



### PEACE OF MIND

- Maintenance and operation guaranteed
- CIAT Service: ensuring quality and continuity of comfort



### ENERGY OPTIMISATION

- Energy savings
- Reduction in installation, system start-up and maintenance costs

### GUIDING YOU RIGHT FROM THE START

With our team of hotel experts at your service, CIAT is a true partner. We support you right from the start to analyse your specific requirements and offer you solutions to optimise your hotel's air conditioning, heating and hot water generation.



SPECIFICATIONS



SOLUTIONS



INDUSTRIAL  
FACILITIES



INSTALLATION



SERVICE

### FIND THE BEST SOLUTIONS TO OPTIMISE COSTS



#### TOTAL OR PARTIAL HEAT RECOVERY ON CHILLER

Using the heat recovered for other heating requirements (DHW production, heating of pools, spas, hydro-massage tubs etc.).



#### HIGH ENERGY EFFICIENCY

CIAT offers solutions which will exceed the requirements of future regulations (e.g. EC motors, new regulations)



#### V3000 CONTROL

Room-by-room thermal comfort and energy optimisation

# R-32: THE SUSTAINABLE AND GREEN SOLUTION

## CHOOSING R-32 MEANS REDUCING YOUR CARBON FOOTPRINT

Reduction in the refrigerant's GWP (Global Warming Potential):

- Reduced environmental impact
- Anticipation of the HFC phase-down

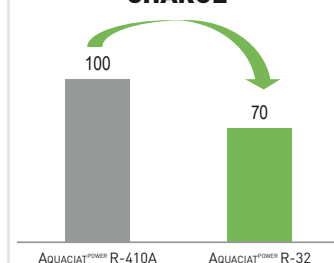
Refrigerant charge reduction due to:

- R-32 thermodynamic properties
- Optimised component selection for R-32

### 68% REDUCTION IN GWP



### 30% REDUCTION IN REFRIGERANT CHARGE



**77% LESS CO<sub>2</sub> EQUIVALENT THAN R-410A**

## CHOOSING R-32 MEANS BENEFITING FROM AN INCREASE IN ENERGY EFFICIENCY OF UP TO 10%

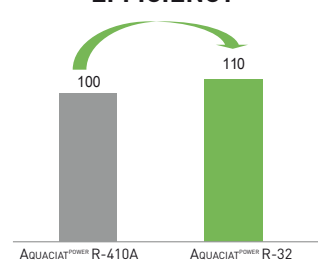
AQUACIAT & AQUACIAT<sup>POWER</sup> R-32 chillers exceed the SEER requirements of the 2021 Ecodesign regulations thanks to:

- The optimisation of all components for R-32 refrigerant (multiple scroll compressors and asymmetrical brazed-plate heat exchangers).
- A smart energy monitoring function.



SEER Up to 5,33

### 10% INCREASE IN ENERGY EFFICIENCY



## CHOOSING R-32 ALSO MEANS:



### EASE OF USE

R-32 IS A RELIABLE, TRIED-AND-TESTED SOLUTION WHICH IS AVAILABLE FROM ALL REFRIGERANT DISTRIBUTORS.



### COMPLETE SAFETY

EASY INSTALLATION, SYSTEM START-UP AND MAINTENANCE\*.

*\* Special safety requirements may apply to the transportation, use and maintenance of the equipment.*



## AQUACIAT & AQUACIAT<sup>POWER</sup> R-32: PERFECTLY ADAPTED TO HOTEL APPLICATIONS

The new **AQUACIAT & AQUACIAT<sup>POWER</sup>** ranges offer you high levels of energy efficiency, in both the cooling only version and the reversible heat pump version.

Now available with R-32 refrigerant, they enable their carbon footprint to be reduced by up to 77% while preserving their acoustic comfort and their ease of installation.

In addition to their commitment to environmental sustainability, the **AQUACIAT & AQUACIAT<sup>POWER</sup>** ranges also fully meet the specific requirements of healthcare applications:



### CUSTOMER COMFORT

THANKS TO OUR VARIOUS CONFIGURATIONS, SEVERAL ACOUSTIC LEVELS ARE AVAILABLE, INCLUDING "NIGHT MODE", FOR MAXIMUM CUSTOMER COMFORT.



### SIMPLICITY AND DISCRETION

EASY TO INSTALL WITH A SMALL FOOTPRINT FOR PEACE OF MIND FOR YOUR TECHNICAL TEAMS.



### PLUG AND PLAY SYSTEM

ALL-IN-ONE FLEXIBLE SOLUTION. VARIOUS OPTIONS AVAILABLE:

- INTEGRATED HYDRAULIC MODULE WITH OR WITHOUT BUFFER TANK
- WIDE CHOICE OF PUMPS
- BROAD RANGE OF HYDRAULIC CONNECTIONS TO ADAPT TO THE SITE CONFIGURATION.



### ENERGY SAVINGS

ENERGY-EFFICIENT SOLUTIONS ENABLING SIGNIFICANT COST SAVINGS WITHOUT COMPROMISING THE COMFORT OF YOUR CUSTOMERS OR YOUR ENVIRONMENTAL IMPACT. HEAT RECOVERY ENABLING DHW PRODUCTION UP TO 55 °C.



### GLOBAL SYSTEM SOLUTION

WE OFFER A FULL RANGE OF EQUIPMENT DESIGNED TO WORK TOGETHER FOR THE BEST POSSIBLE RESULTS OFFERING OPTIMISED ENERGY EFFICIENCY AND COMFORT FOR YOUR CUSTOMERS.

# AQUACIAT & AQUACIAT<sup>POWER</sup> R-32: OVERVIEW OF THE RANGE



## AQUACIAT



R-32

- 12 models
- **Hydraulic module** across the full range with or without buffer tank
- **2 sound levels** (very low noise level and ultra low noise level) + night mode



### WATER CHILLER COOLING ONLY LD VERSION

40kW



### HEAT PUMP REVERSIBLE ILD VERSION

160kW

Variable-speed <b>EC</b> motor fans option
Very low noise level option (LS fans + drive)
All-season option (AC motor fans + drive)
Fixed-speed scroll compressors, Fixed-speed <b>AC</b> motor fans with low sound level

## AQUACIAT<sup>POWER</sup>



R-32

- 19 models
- **Hydraulic module** across the full range with or without buffer tank
- **3 sound levels** (Low noise level, very low noise level, ultra low noise level) + night mode



### WATER CHILLER COOLING ONLY LD VERSION

170kW

940kW

Variable-speed <b>EC</b> motor fans option (↗ Seasonal performance levels)
<b>Variable-speed AC motor fans + drive</b> option (↗ Seasonal performance levels)
High performance/high temperature option: HS fans (↗ Full load performance and operating range)
Fixed-speed scroll compressors, fixed-speed <b>AC</b> fans with low noise level



### HEAT PUMP REVERSIBLE ILD VERSION

170kW

530kW

1040kW

Variable-speed <b>EC</b> motor fans option (↗ Seasonal performance levels)
<b>Variable-speed AC motor fans option + drive</b> (↗ Seasonal performance levels)
High performance/high temperature option: HS fans (↗ Full load performance and operating range)
Fixed-speed scroll compressors, fixed-speed <b>AC</b> fans with low noise level
Fixed-speed scroll compressors, Variable-speed <b>AC</b> motors fans + Drive



## THE BLUEDGE® SERVICE PLATFORM IS 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.

PRESENT  
IN  
OVER **50** countries

OVER **88** years  
OF EXPERIENCE

AVAILABLE  
**24/7**

#CIAT4life

4 FOUNDATIONAL PILLARS



Confidence



Tailored



Advice



Efficiency



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