

# CIAT POWERCTRL™

HVAC SERVICE SOLUTIONS  
**OPEN PLANT  
MANAGEMENT OR ADVANCED  
OPTIMISATION?  
YOU SHOULD NOT HAVE  
TO CHOOSE**



A Carrier Company



## CIAT POWERCTRL AN ADVANCED CONTROL OFFERING

### OPEN PLANT MANAGEMENT

A single partner for maximum peace of mind and for best performance options

#### Improved reliability

CIAT PowerCTRL maximizes the long-term durability of your plant while optimizing your operating costs. It rotates your equipment, ensuring consistent runtimes, and triggers back-up solutions as appropriate. The logic intelligence is supported by a proven library of standard application-specific algorithms, developed by the CIAT Control Team.

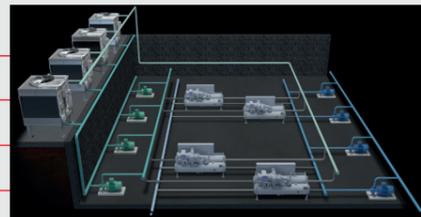
#### Single accountability

CIAT PowerCTRL shares the same DNA as your equipment. Choosing CIAT for your control solution means you benefit from a single empowered partner for installation, set-up and maintenance - a partner that can leverage heating, ventilating and air conditioning (HVAC) and control expertise acquired through years of experience and one that allows you to focus on your core business, instead of spending unnecessary time coordinating several partners.

#### Easy operation

CIAT PowerCTRL offers easy access to real-time and historical performance data. As an open protocol solution, it integrates into any Building Automation System. By piloting optimal operations at all times, CIAT PowerCTRL keeps maintenance costs under control and ensures an open, user-friendly interface.

CHILLERS  
HEAT PUMPS  
DRY COOLERS  
COOLING TOWERS



PUMPS  
METERS  
VALVES  
ENERGY STORAGE

CIAT PowerCTRL



### ADVANCED OPTIMISATION

Expertise in HVAC control and systems for high-operational efficiency management

#### Operating savings

By automatically adjusting running periods whenever necessary, CIAT PowerCTRL enhances efficiency both at chiller and at plant levels. CIAT PowerCTRL selects the most appropriate equipment, coordinates interdependent equipment and adapts energy production to demand. This two-tier plant management scheme enables both energy and overall operating costs savings.

#### Performance & Compliance

CIAT PowerCTRL measures energy load, equipment runtimes and other operational data. It manages load shedding, energy recovery and storage for optimal consumption. Choosing this solution will support Leadership in Energy and Environmental Design (LEED) and Building Research Establishment Environmental Assessment Method (BREEAM®) certifications, among other high performance building references.

#### Easy set-up

CIAT PowerCTRL works with most standard plant configurations. No gateway is required to interface CIAT equipment. It is a flexible, modular plug and play and customisable solution in case of highly specific configurations including non-CIAT equipment control. Through combined HVAC and control solutions, you reduce your overall installation costs.

## A TIERED OFFERING ADAPTED TO YOUR NEEDS

A range of offer for every application

	CIAT PowerCTRL Solution		
	Master Slave	CIAT TruVu™ Plant Sequencer	Air Cooled or Water Cooled Plant Manager
Scope	2 machines  Basic sequencing	Up to 4 machines  Chilled / Hot water production  Smart sequencing  Few hardwired ancillary equipment	Chilled / Hot water production  Evaporator, condenser and distribution networks  Smart sequencing  Fully customizable

### Solutions meeting everyone's expectations



#### INSTALLERS

Performance & compliance  
Easy set-up  
Single accountability



#### FACILITY MANAGER/END USERS

Improved reliability  
Easy operation  
Operating savings

# CIAT CONTROL SOLUTIONS FOR HIGH PERFORMANCE HVAC SYSTEMS

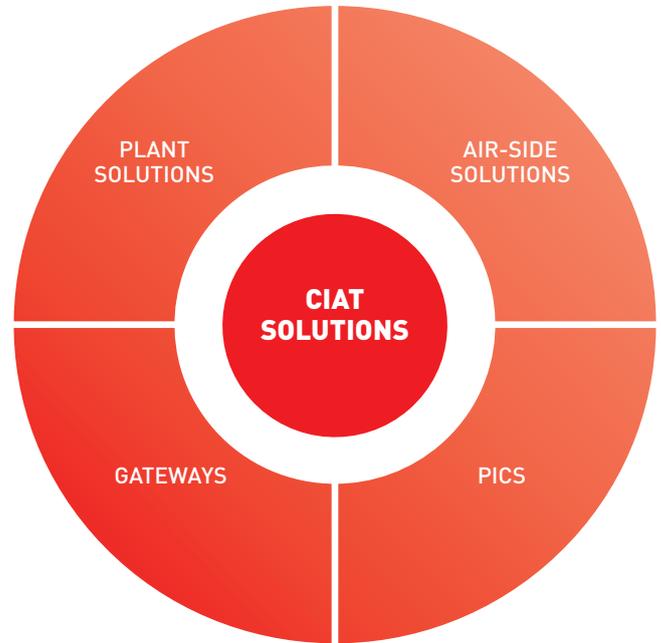
CIAT's extensive range of HVAC control solutions is tailored to meet the specific needs of each customer. Who better than CIAT can optimise your system operation?

## Scalable and flexible solutions

From product integrated control to one-of-a-kind building automation systems, CIAT offers its dual HVAC and control expertise to its customers. Product Integrated Controllers (PIC) host and execute specific algorithms to enable interaction with CIAT plant controllers. Its full range of gateways allows easy integration of standalone equipment or subsystems into third-party systems. Plant control solutions - from basic control functions to full plant room management - are specifically designed by CIAT experts to meet standard and highly specific requirements, addressing customers' complex energy, safety and security needs.

## Optimal costs and reliability

CIAT control solutions resolve the complex equation of having both low operating and energy costs. They sustain constant measured comfort for all occupants. They maintain peak performance functionality at all times, offsetting system and equipment failures.



## CIAT SOLUTIONS

SERVICE TEAMS

CONTROL TEAMS

HVAC EQUIPMENT

## Expertise that makes the difference

With 80 years of experience working closely with its customers, CIAT has developed a unique expertise in manufacturing, designing and developing HVAC and control solutions. The company's entire service organisation is built around the customer, from its field engineer and service networks to its logistics functions and information systems. CIAT delivers continuous innovation

and dedicated service, ensuring that customer systems operate at best level during the whole lifecycle. CIAT designs sustainable, custom-engineered integrated solutions to meet customers' expectations, now and in the future. CIAT expert engineers are present at the earliest stages of building and urban design, to contribute to the future of smart buildings and cities.



[www.ciat.com](http://www.ciat.com)