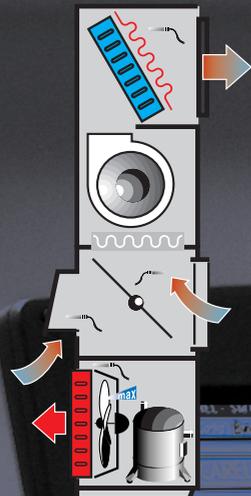


...innovative
control solutions !

for Telecom **Air-Conditioning**

CAREL

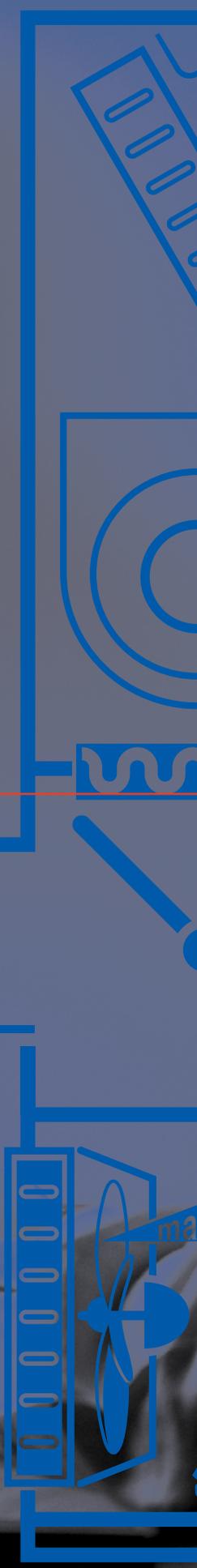
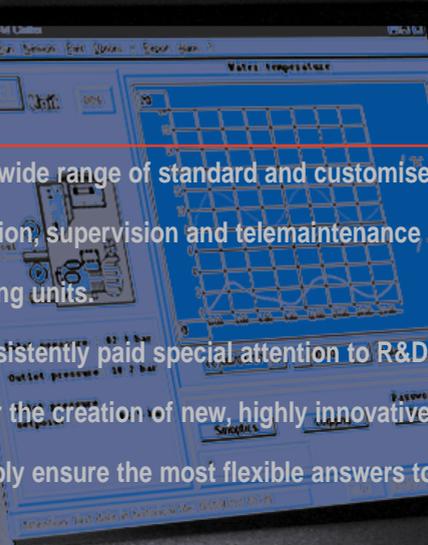
Technology & Evolution



Carel offers a wide range of standard and customised solutions for the regulation, supervision and telemaintenance of Air-Conditioning units.

Carel has consistently paid special attention to R&D and technology for the creation of new, highly innovative products which affordably ensure the most flexible answers to market applications.

In particular, Carel offers competitive solutions in the Air-Conditioning market for telecom applications (shelters, containers, telecommunication facilities, etc.).





...innovative control solutions !

CAREL – world leader in the Air-Conditioning control market – introduces the new solutions for **Telecom Air-Conditioning applications:**

- **basic solutions:** competitive controls for simpler applications, where the cost is a decisive factor;
- **complete solutions:** controls featuring all the more evolved functions required by the application;
- **advanced solutions:** powerful and programmable, these instruments ensure maximum flexibility and versatility in more complex applications.

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Basic solutions



 **ir**



The *Ir32 universal* series regulators provide regulation of the main functions in air-conditioning systems for telecom applications.

These instruments feature a user-friendly interface, and can be easily configured to manage

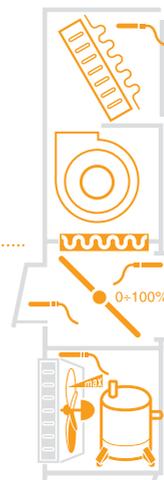
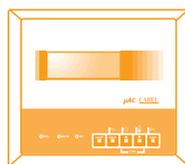
compressors, heating elements and free cooling dampers.

The regulator is available in two versions, for panel mounting or DIN-rail mounting, and both come with an optional remote control unit.

Complete solutions



μAC



The μ AC regulator is an electronic control for the complete management of precision air-conditioning systems. In telecom applications, the control can manage compressors, heating elements, proportional free cooling dampers, supply and condensation

fans, alarms and unit rotation.

In the event of malfunctions in the units in operation, the control activates the unit in stand-by, thus ensuring continual operation of the telecom station. The control features an LCD display, which provides simple management of the various functions through the display of immediately-recognisable symbols.



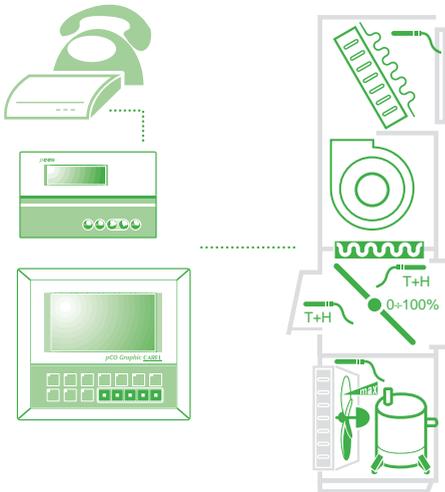
Advanced solutions

Specifically for telecom market, Carel manufactures a powerful and programmable control based on the *pCO* platform, tailored to meet the requirements of this particular field.

The programmability of the *EasyTools* system provides high flexibility, allowing quick and easy customisation of the control of the unit. The *pLAN* function (*pCO* Local Area Network) allows two power cards to share one user interface, thus centralising the control of the two AC units installed in the shelter. This structure allows lead/lag operation, equalising the working hours of the system and ensuring the shelter to operate properly in case of failure in the AC unit in operation. A modem interface allows the *pCO* to directly command a modem for sending alarm or other information to a remote service centre or a GSM mobile telephone.

As the *pCO* card can also operate without the user interface connected, it is also suitable for those applications where cost is the major factor.

pCO
pCO²



...innovative control solutions!



Gateway



Link solutions

Carel controls can be connected by serial line to centralised supervisory and telemaintenance systems. For connection to other generic supervisory systems, Carel also supplies serial adapters (Gateways).





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