



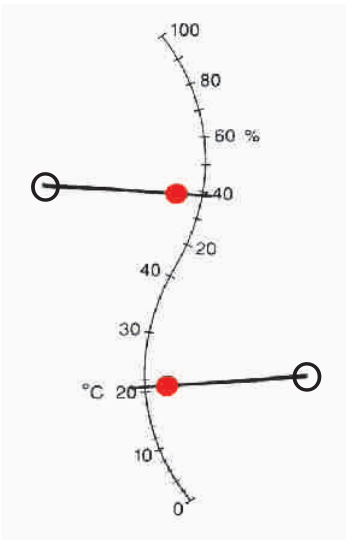
Precision climate control with no compromises

GEA Close Control

Air parameters at constant levels



Where just precise is not precise enough, then precisely ...



Wherever maintaining specified air parameters is critical to a process, absolute certainty is what want – and not “just managing somehow”.

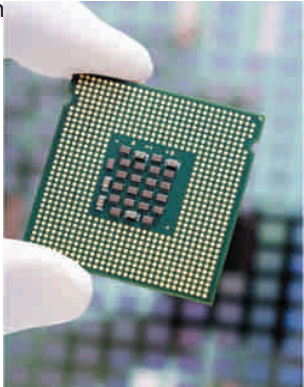
In such applications, the GEA Close Control T & range of systems brings its major benefits into

These systems are absolutely exact, since this is what you need to guarantee absolute, precise monitoring and control of temperature, relative humidity, and filtration in demanding environments.

These precision climate-control systems – which the GEA Air Treatment Division now markets since its acquisition of the respected British provider Denco – are especially designed for employment in such sensitive process areas. In the tremendously expanding market involved here, precision climate-control systems are consequently gaining in importance.

GEA therefore aims to meet the increasing demands posed by telecommunications, clean-room, and IT-centre environments. But it's not only in and telecom sectors that precision climate-control systems perform critical services: all operations stand to profit from these system ranges where precisely constant temperatures, steady relative humidity, and especially good air quality prevail. Additional good examples are measuring facilities and laboratories.

The GEA portfolio here is so diverse that an effective solution is available for all individual requirements. If, for example, space constraints call for outdoor implementation, the right rain-coat is ready: the TW range can stand up to all kinds of weather.



Air conditioning with Denco precision from GEA

The Toscana and Escana ranges

Toscana (T Range)

The units are controlled by intelligent electronics systems that monitor temperature and humidity tolerances and that allow energy-saving operations.

Direct-expansion systems can be ordered with various recooling units. There are air-cooled and water-cooled models, as well as split versions. Scroll compressors and optional energy-efficient variable refrigerant volume (VRF) systems operate inside this equipment: both optimized for operation with environmentally friendly refrigerant.

Airflow routing here can be up- or down-flow, equipped with various intake- and outlet-air configurations.

The closed-loop control system allows networking of the systems in master-slave mode, or operation as individual units. Data input is via an adapted soft-touch keypad, which can be mounted together with the display on the climate-control unit, or which serves for remote control.

Escana (E Range)

The Escana models (E range), outwardly similar to the Toscana versions, cover the capacity range from 22 to 120 kW.



The CA range – powerful and quiet

Coolers in the CA range are employed when dry coolers or cooling towers cannot achieve the required liquid temperatures throughout the entire year. In typically European latitudes, this is usually the case when temperatures of 15°C or less are required. With cooling capacities of 5 to 120 kW the modular CA units, designed for outdoor operation, provide the necessary heat rejection.

In addition to 6-pole fan motors, an 8-pole quiet motor is available to prevent disturbance in residential areas, as well as a super-quiet 12-pole model.

Optional copper heat exchangers assure protection in corrosive environments.



Also available with R410A refrigerant: systems with precision climate control from the Toscana range. They cover the rating spectrum from approx. 3 to 90 kW.



Models in the CA range, available with cooling capacity from 5 to 120 kW, are employed in climates where the required liquid temperatures cannot be achieved throughout the entire year by dry coolers or cooling towers

The EP range – space-saving solution for telecommunications

The EP range was designed for the air conditioning of telecommunications stations (“EP” stands for “externally packaged”).

No-voltage low- and high-pressure alarm contacts, as well as air-flow alarm contacts, guarantee the required safety.

These models cover the cooling range from 3 to 12 kW

Optimal for fast erection and installation: the system consists of a sealed unit, which means that no on-site connection work at the refrigeration system is required.

In addition to standard AC fans, these models are also available with 48-V DC fans, in accordance with the power normally found in telecommunications facilities. These fans can be connected to the emergency power system.

This DC evaporator fan ensures sufficient fresh-air cooling and air circulation in the event of power failure.



TW-range systems defy any weather

The climate-control units in the TW range (3 to 42 kW cooling capacity; with scroll compressor as standard) are enclosed in a water- and dustproof plastic-coated metal surfaces.

Which means that they defy the effects of storm and rain. They can be effectively set up at outdoor standard) are enclosed in side walls, which allows a water- and dustproof use of indoor floor space housing with high-quality, for core functions.



The compact EP (externally packaged) range was developed primarily for cooling of telecommunications stations, and is available with capacities of 3 to 12 kW.



Weatherproof: The TW range was designed for outdoor installation, which saves valuable usable floor space inside the building.

Denco precision climate control – now from GEA Air Treatment



Thanks to its acquisition of British Denco, GEA Air Treatment has expanded its product portfolio by several systems. With the Denco ranges, GEA Air Treatment now offers precision climate control. With Closecovers an extremely high performance specification and the extensive range of such facilities as computer centres, industrial plants, laboratories, and telecommunications stations – and has set new standards:



Precise planning and precision systems create precisely controlled climate.

The dolphin is for Denco what the little penguin is for GEA Air Treatment: a lovable symbol for pleasant climate control – as impressively symbolized in front of Denco headquarters in Hereford, UK.



Convincing contemporary design distinguishes the cabinet elements of the T & E model ranges.