



DNC is a **smart device** designed to **constantly measure the noise produced by the chiller and “adapt” the chiller performance** in order to not exceed the noise limits set for different time slots. The main difference between DNC and other systems consists in the fact that with the Dynamic Noise Control what must be set are only the noise limits, and not the performance levels: it is the DNC that regulates the fan speed, reducing the performance in order to fall within the highest permissible noise level. The DNC is also able to **identify the noise source** and “understand” if it is generated by the chiller or by any external source. This is a very important aspect that helps to ensure precision and reliability to the entire plant.



ES is an **innovative** evaporative system which allows considerable energy savings, exploiting the natural process of adiabatic cooling. According to ambient conditions, the **intelligent control** accosts or distances the evaporative panels in order to maintain maximum efficiency of the system. This way it's possible to reduce the air temperature by as much as 8 °C increasing the efficiency of the condensers. It was found that employing the ES, Geoclima is able to **reduce the annual electrical absorption of the chiller up to 30%**, in comparison to an equivalent conventional air cooled system.



Geoselectool is a **chiller selection software**, developed by Geoclima, together with the Department of Information Engineering of the University of Padua. Thanks to the Geoselectool, you can manage your own projects: you can plan the energy demand of the building, select the Geoclima unit that most suits to the specific requirements, simulate the annual energy consumption and define the financial plan for that specific plant.



Onboard Touch is a web-based solution that makes it possible to **monitor the chiller operation and to diagnose** any problems as soon as they arise. The user interface can be displayed on the **browser**, no software is therefore required and it can be run on both PC and mobile devices such as tablets and smartphones.



Teslamiser is the **new power supply management system** designed by Geoclima for the Turbomiser chillers. It is an integrated system with a lithium polymer battery and a converter that controls the charge and release of lithium polymers to the chiller. With Teslamiser it is possible to manage the power supply to the chiller in order to **optimize energy flows** from the mains power supply or from renewable energy sources available on the site of installation.



The new and most efficient series of air cooled chillers present on the market, developed entirely in-house by our R&D department, is characterized by two important innovations:

- microchannel condensers with the **heat exchange surface increased by 45%** compared to traditional condensers, thanks to the special **cylindrical** configuration of the heat exchanger;
- **cascade flooded evaporators** which increase the evaporation temperature and, at the same time, reduce the energy consumption.

Thus, the new Circlemiser series provide incomparable performance and high efficiency levels, with an **increase in EER up to + 15%**, improving the already very high efficiency of Turbomiser technology.



The new Circlemod series brings an innovative approach to the cooling systems world because it combines **energy efficiency, installation flexibility and attention to detail**, even from an aesthetic point of view.

The modular design allows to configure **up to 8 units** with a single group control. Each module has a high cooling capacity (up to 150 kW) compared to the ground footprint. This means that **in a limited space you can have remarkable performances**.