



Unit Description

Air cooled liquid chillers with scroll compressors
In Free-cooling versions from 43,3 kW to 377 kW
In Free-cooling NG versions from 44,8 to 387 kW

ICS through their Climaveneta brand introduces the NECS with Free-Cooling function: a compulsory choice when load demands are high all year round, even in winter. In fact, the bigger the difference between the chilled water temperature desired and the outdoor air temperature, the greater the freecooling advantages.



Unit Features

The technological choices made, aimed to provide the maximum overall quality by the use of the most innovative technologies to make NECS a unit able to ensure maximum energy efficiency, combined with personalised setting and adjustment, versatility and unprecedented ease of installation.

- **MAXIMUM POWER EFFICIENCY**
The NECS-FC units, thanks to special water coils for freecooling, scroll compressors optimised for R-410A refrigerant all account for an average 30% energy consumption reduction when used nearly everywhere in Europe.
- **PERSONALISED SETTING AND ADJUSTMENT**
This advantage ensures the availability of water chilled to the temperature desired and the optimum use of all the resources available (compressors, fans and water coils) according to the outdoor temperature. This permits the complete use of the free-cooling system even at near-zero outdoor air temperatures.
- **WIDEST VERSATILITY**
There are two distinct NECS-FC solutions: Standard and NC (no glycol) and two distinct versions: B (basic), SL (super silent) for ideal adaptation to the requirements on site and even the most complex systems engineering solutions.

Unit Benefits

Easy setting and adjustment is another big NECS-FC advantage, and the many management possibilities permit the combination of the closest adaptation to the local needs of each application with simply incomparable energy efficiency and savings.

- **PERSONALISED SETTING AND ADJUSTMENT**
Safety and Reliability - NECS-FC manages the cooling capacity steps in both standard and free-cooling conditions. The control system ensures the energy consumption is kept to the minimum level, without relinquishing concepts of safety and reliability.
- **MAXIMUM ADAPTABILITY**
Adaptability is the result of the careful compressors' management combined with the free-cooling valve regulation. The modulation 3-way-valve (optional) on the water side provides better outlet temperature control even with low outdoor air temperature. When the unit is working at 100% in free-cooling with very low outdoor air temperatures, the desired chilled water temperature must be guaranteed through air flow rate modulation and through correct mixing by the 3-way valve.

Equipment designed to ISO-9001 and all relevant directives. Product improvement is a continual process at ICS Industrial Cooling and we reserve the right to change the design and specifications without notice or obligation.

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