



Unit Description

Air cooled water chillers with axial fans.
In free-cooling versions from 329 – 1229kW
In NG free-cooling versions from 338-1262kW



Unit Features

- **MAXIMUM POWER EFFICIENCY**
Special water coils for free-cooling, screw compressors optimized for R-134a and the R-134a refrigerant itself all account for an average 10% power reduction when used nearly anywhere in Europe.
- **PERSONALISED SETTING AND ADJUSTMENT**
This advantage permits constantly ensuring the availability of water chiller to the temperature desired and the optimum use of all the resources available (compressors, fans and water coils) according to the outdoor temperature.
- **WIDEST VERSATILITY**
There are two distinct FOCS-FC solutions: standard and NG (no glycol) and two distinct versions: B (Basic) and SL (super silent) for ideal adaption to the requirement on site and even the most complex systems engineering solutions

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 valves.

- **CONTROL**
The advanced ERACS unit operating modes are primarily made possible by their electronic control units. In fact, each unit has a W3000 large controller while the Manager 3000 device controls several units in parallel with advanced regulation. Lastly, like all ICS Units from the Climaveneta brand, the FWS 3000 supervision system can be integrated with ERACS units too.
- **WIDEST VERSATILITY**
The possibility to choose (Electrically communicated) EC fans equipped with inverters saves power and reduces operating noise, while permitting better adjustment at low outdoor temperatures when used in FC units operating at 100%.

Unit Benefits

- **PERSONALISED SETTING AND ADJUSTMENT**
Easy setting and adjustment is another big FOCS-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.

The many FOCS-FC settings possible permit perfect adaptation to every application and location.

The compressors are managed by traditional proportional integration or through proportional and integral regulation in inlet, with modulating regulation in outlet as an alternative.

The modulating 3 valve (optional) on the water side provides better outlet temperature control even with low outdoor air temperature.

Reaching the optimum efficiency and guaranteeing the desired levels of comfort anywhere, all the time, depend essentially on a unit's capability to adapt to every type of system. FOCS-FC are designed and built with this requisite in mind, in order to ensure such versatility through a wide range of sizes, the offer of different models and versions, and a vast series of accessories. FOCS-FC units come in two versions: B and SL for compliance with even the strictest regulations. On average, the super silenced SL version permits a 7 dB reduction in sound power.

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. Availability is subject to change without notice. Contact your local ICS Industrial Cooling depot for availability. © 2009 ICS Industrial Cooling. All rights reserved.