



## Unit Description

Air cooled water chillers with screw compressors  
From 134 kW to 1.744 kW

The ideal solution to meet any requirement in terms of comfort, efficiency, quiet operation and application flexibility.

The FOCS / FOCS-CA range, which is now enhanced with the additional extra-silenced FOCS-XL version, is designed to promptly and effectively meet the most pressing comfort, energy efficiency, noise emission and space-saving requirements typical of modern applications.



## Unit Features & Benefits

- **VERSATILITY AND COMPLETE RANGE**

Versatility and the complete range are two of the strengths of FOCS and FOCS-CA.

These products are designed to meet efficiency, noise level and space-saving requirements consistently above expectations - even in the most challenging projects- thanks to:

- Extensive range of outputs from 134 to 1744 kW of cooling capacity and models, with plate or shell and tube type evaporator, with two different condenser coil geometries
- Optimised design for each series
- 3 functions: standard, partial heat recovery and total heat recovery
- 4 noise versions: standard, low-noise, super-low-noise and extra-low-noise
- 6 pump unit settings available: 2/4 poles, high/low head, fixed-speed or variable-speed

- **SILENT OPERATION**

The new FOCS-XL units are the result of systematic engineering aimed at reducing noise levels and give the best noise level/efficiency combination currently available on the market.

- **ENERGY EFFICIENCY**

FOCS-series unit, especially those from the FOCS-CA series, feature excellent energy efficiency values at full load and part load.

This result is achieved thanks to an extreme focus on the quality of the components adopted and on their optimal integration, which steered all the technological decisions at the engineering stage. The adoption of exclusive evaporators with an asymmetrical structure and the intelligent control of resources is among the features of these units, which optimises the heat exchange performance.

- **COMPATIBILITY WITH VPF SYSTEM**

(Variable Primary Flow)

FOCS units with shell and tube type evaporators are designed to provide variable flow operation by adopting variable speed pumps controlled by exclusive algorithms devised to make optimal pump management possible based on the load required by the system without influencing the unit protection. The result is an energy saving in pump consumption ranging from 40% to 60% depending on the specific application.

## Heat Recovery Option

All units, except for sizes 1532-2632, with plate-type evaporators, and the FOCS-XL version, can be provided with partial or total recovery. These solutions allow hot water up to 55 °C to be produced in total recovery mode.

Heat recovery is an intelligent alternative to using an auxiliary boiler to produce hot water while the chiller is working, and means the FOCS-series units are in line with the strictest European energy-saving standards.

ICS' experience with these solutions assures an optimal heat recovery management, with minimum fluctuations on the delivery water, both cold side and hot side.

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.