

# Water Cooled Chiller

## Compact, Modular Chillers

The Water-Cooled Chillers 3FX from Frigel, were designed for use with the ECODRY 3DK central adiabatic dry-cooler system and offer well engineered, automatic free-cooling capability. 3FX Chillers are a key component of a digitally controlled, integrated closed-loop intelligent cooling system engineered to save energy and deliver reliable performance and results.

The 3FX are compact modular chillers ranging from 100 to 600kW, and are specifically designed to build integrated systems, either in in series arrangements, or in parallel configurations. As an option, both configurations can be used as heat pumps, and are able to recover the heat extracted from the process, producing hot water up to 60°C.

12 models are available in the series to meet the demands of a wide range of process cooling applications, while providing industry leading energy efficiency ratios (EERs) in all working conditions.

Each digitally controlled compact chiller has a minimal footprint and is engineered as a self-contained and complete package, consisting of a single-refridgeration circuit, rotary compressor(s), evaporator and condenser.

The Chillers can be configured up to 850 tons of cooling capacity. Easy expansion of existing systems.

- ▶ Provides automatic free cooling as part of an integrated closed-loop process cooling system.
- ▶ With the use of a Frigel 3DR Intelligent Control System, automatically monitor and adjust the complete system to ensure optimum performance based on a wide range of operating parameters.



### Main features

- ▶ High efficiency rotary compressors
- ▶ Optional inverter on screw compressors (from 25% up to 100%).
- ▶ Oversized stainless steel brazed plates, evaporator and condenser
- ▶ Low quantity of gas: R410A, R513A or R134A.
- ▶ Electronic expansion valve
- ▶ Electronic pressure transducers and anti-freezing protection

### Advantages

- ▶ Modular design for full customisation and easy expansion
- ▶ High efficiency: high EER in any operating condition
- ▶ High reliability (massive field testing)
- ▶ Microprocessor control with compact design
- ▶ Easy installation
- ▶ Low noise

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**We have 30+ years experience controlling temperature for the world's most demanding industries.**



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