

CyberCool Free Cooling Booster

STULZ

CLIMATE. CUSTOMIZED.

Free Cooling for water-cooled chillers

Systems with water-cooled chillers do not usually offer Free Cooling, even if the low outdoor temperatures at the installation site would allow it. However, since Free Cooling - as well as a precise Mixed mode concept - offer the greatest potential savings, STULZ has developed a standard unit that benefits from low outdoor temperatures and thus ensures efficient operation all year round.

Retrofit your chilled water system

Existing chilled water solutions can be retrofitted with the Free Cooling Booster without complex and time-consuming planning. The unit's unique functionality and reliability includes tested and approved hydraulics, matched components and the in-house developed STULZ control system, which ensures trouble-free operation of all units.



ADVANTAGES

- Significant energy savings thanks to Free Cooling including Mixed mode
- Low commissioning times and installation costs thanks to plug-and-play principle
- High reliability thanks to redundancy concept and high quality components

FEATURES

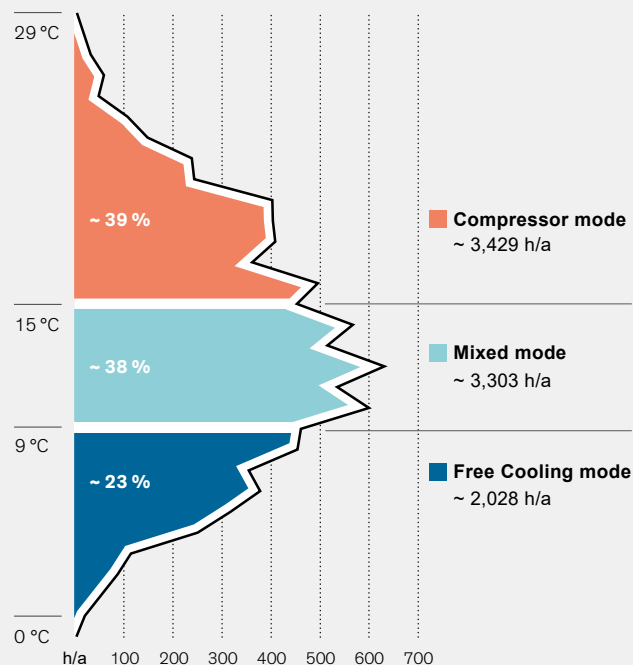
- With or without glycol in the consumer circuit
- Maintenance-friendly design
- Energy-saving, variable speed pumps
- Trained and experienced sales and service partners in over 140 countries.

High energy savings thanks to Free Cooling with Mixed mode

Free Cooling is an intelligent solution for minimizing energy-intensive compressor mode and significantly cutting operating costs. CyberCool Free Cooling Booster offers three operating modes and always selects the most efficient mode depending on the outside temperature - reliably throughout the year.

	With Free Cooling	Without Free Cooling
Energy consumption	2,078,140 kWh	3,076,234 kWh
Energy costs	311,721 €	461,435 €
Savings per year	149,714 €	

Energy consumption using the example of a system with TSI1400 chiller, WFM05 Free Cooling Booster and EHLD1F 1297 A dry coolers; operating temperature: 18/12 °C; based on the temperature profile of the city of London, 0.15 € / kWh



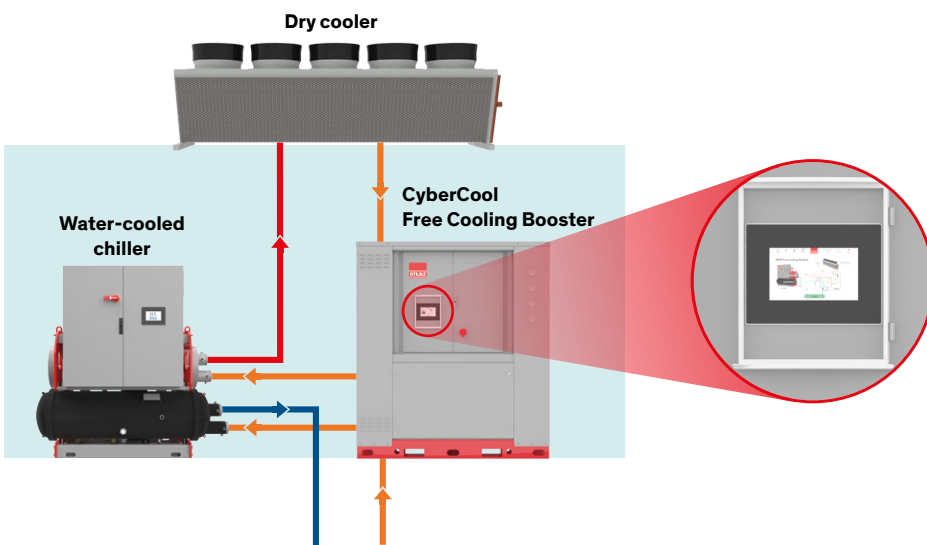
Quick and easy installation thanks to plug & play

CyberCool Free Cooling Booster is a high-performance solution designed for plug-and-play installations, making it suitable for any location.

The standard unit is a pre-installed system that contains all important hydraulic components, so that installers don't need to take any construction measures to integrate Free Cooling. Due to the unit design, the Free Cooling modules can be installed quickly and easily, which reduces commissioning times and installation costs significantly.

Thanks to its own switch cabinet including SEC.blue controller, optimum control and perfect communication with chillers and dry coolers are ensured.

SEC.blue monitors both the outdoor and the operating temperature and regulates the cooling capacity of the dry cooler. Optimum control of the condensing temperature and maximum amount of Free Cooling hours are ensured even at high outdoor temperatures. This results in minimal operating costs and a low CO₂ footprint.



SEC.blue

- Intuitive user interface via 7" touch screen
- Ethernet port RJ32
- RS485 ModBus
- Alarm management
- Alarm history display

Service worldwide

- Preventive maintenance
- Fast service response times
- Trained and experienced sales and service partners in over 140 countries.



Technical Data

Model		WFM01	WFM02	WFM03	WFM04	WFM05
Cooling capacity chiller ¹⁾	kW	273 - 414	506 - 672	729 - 834	927 - 1,314	1,499 - 1,817
Flow rate	m ³ /h	59,4	96,4	119,6	188,4	260,9
Weight	kg	1140	1651	1940	3510	4655
Dimensions (height x width x depth)	mm	2126 x 1909 x 1404	2451 x 2208 x 1710	2451 x 2208 x 1710	2467 x 2360 x 4280	2467 x 2360 x 4279

Remark:

¹⁾ Consumer: water temperature (in/out) 18 °C/12 °C; ethylene glycol 0%; dry cooler: water temperature (in/out) 30 °C/35 °C; ethylene glycol 30 %