



Series weco wd



Energy-efficient chillers with free cooling function and integrated temperature control circuits

gwk

weco wd – Cooling and heating with one device only

The series **weco wd** includes easy-to-use plug and play devices, which can be easily installed and put into operation.

Three functions are available:

Free cooling, cooling process for lower temperatures until - 5 °C and temperature control until 90 °C.

Serial equipment:

- Cooling circuit with digitally controlled compressor
- Integrated free cooling function
- Temperature control circuit with constant heating control
- Fully developed microprocessor control
- Flow measurement and pressure display with pressure gauge in circulation medium supply
- Signal/alarm in case of exceeding or falling below the limit value
- User-friendly touchscreen
- Constant condensing pressure control at different cooling water temperatures
- Motorised ball valve in the temperature control circuit

Options:

- Second temperature control circuit
- Design in 3 x 460 V / 60 Hz
- Serial interface RS 485 TTY
- Strainers for circulation medium return line
- Special painting

Technical data

Series	weco 14 wd 1 - 70	weco 20 wd 1 - 70	weco 28 wd 1 - 110	weco 36 wd 1 - 250
Temperature range ¹	5 °C to 90 °C	5 °C to 90 °C	5 °C to 90 °C	5 °C to 90 °C
Cooling capacity at a supply temperature of 15 °C	14 kW	20 kW	28 kW	36 kW
Heating capacity with 1 heating circuit	1 x 9 kW	1 x 18 kW	1 x 18 kW	1 x 18 kW
Heating capacity with 2 heating circuits ²	2 x 9 kW	2 x 9 kW	2 x 18 kW	2 x 18 kW
Dimensions (L x W x H)	1.120 x 510 x 1.138 mm	1.120 x 510 x 1.138 mm	1.320 x 820 x 1.615 mm	1.320 x 820 x 1.615 mm
Refrigerant	R407C	R407C	R407C	R407C

¹ In case of use of glycol until -5 °C

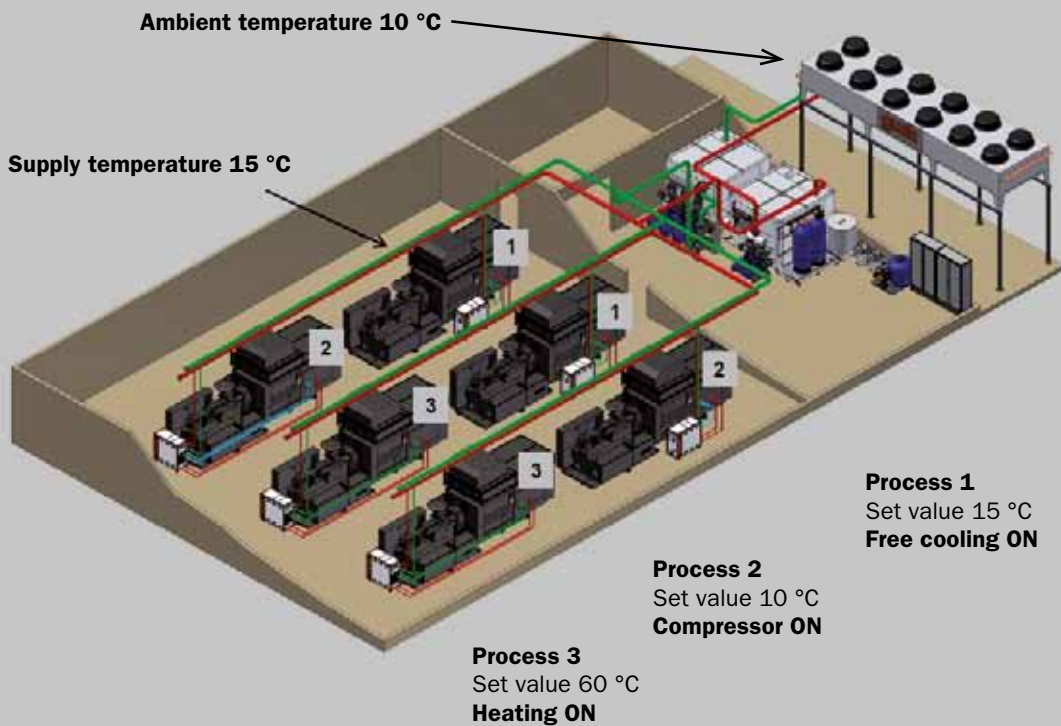
² optional

Subject to technical modifications.

Advantages

- Process flexibility: individual setting of the cold water temperature for each consumer
- High flow and constant pressure
- Modular concept: simple installation and extension
- Reduction of the energy consumption by combination of performance-controlled compressors and free cooling
- Protection against corrosion and deposits due to controlled water exchange
- Small quantity of refrigerant
- Insulation of the central cold water piping is not necessary

Application example



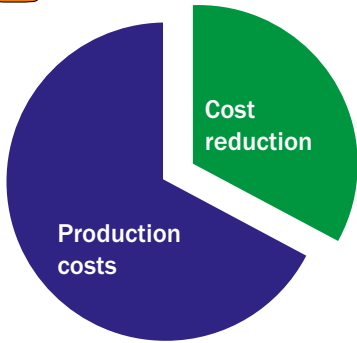
Always the right solution:

Whether centralised or decentralised cooling system solutions, with the **gwk** project study the ideal system is identified in consideration of cost and energy efficiency.

A combination of both systems is also reasonable in many cases.



gwk Perfect Cooling and Temperature Control



Increased productivity

In many areas of the industry, cooling and temperature control provides a great potential for increasing productivity and thus for lowering costs.

Many factors serve to improve productivity:

- Reduction of cooling time, therefore savings in required machine hours
- Increasing availability of production plants
- Improvement of product quality
- Decreasing running cost
- Reduction of maintenance cost



gwk teco cs

The universal solution for applications in the temperature range up to 225 °C. Provides efficient options for continuous process monitoring.



gwk ku-plants

The simplest and cheapest solution to increase the availability and to decrease the maintenance cost of open cooling systems.



gwk tecma

High process stability with customised temperature control solutions for all applications with high performance requirements up to 400 °C.



gwk skl/skw

Reliable and economic supply of cooling water in the low temperature range, even under the toughest ambient conditions.



gwk system integrat

Increase of productivity by means of specific and segmented mould temperature control.



gwk skl/skw with heat condenser

Cost reduction by means of advanced heat recovery systems.



gwk weco

Controllable production in variable climatic conditions and high flexibility with compact, energy-saving water chillers using environmentally friendly refrigerant.



gwk container-plants

Highest flexibility and lowest expenses for planning, installation and relocation of a centralised cooling plant.



gwk hermeticool hybrid

Innovative cooling system to decrease the running and maintenance cost in comparison to conventional cooling systems.



gwk service

Decreasing the maintenance cost and protection of company owned resources through professional execution of installation and maintenance works incl. cooling water treatment.



gwk Gesellschaft Wärme Kältetechnik mbH
 Scherl 10 · D-58540 Meinerzhagen
 Tel. +49 2354 7060-0 · Fax +49 2354 7060-156
 info@gwk.com · www.gwk.com

