



## 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 <sup>1</sup>	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 <sup>2</sup>	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

<sup>1</sup> In case of use of glycol until -5 °C

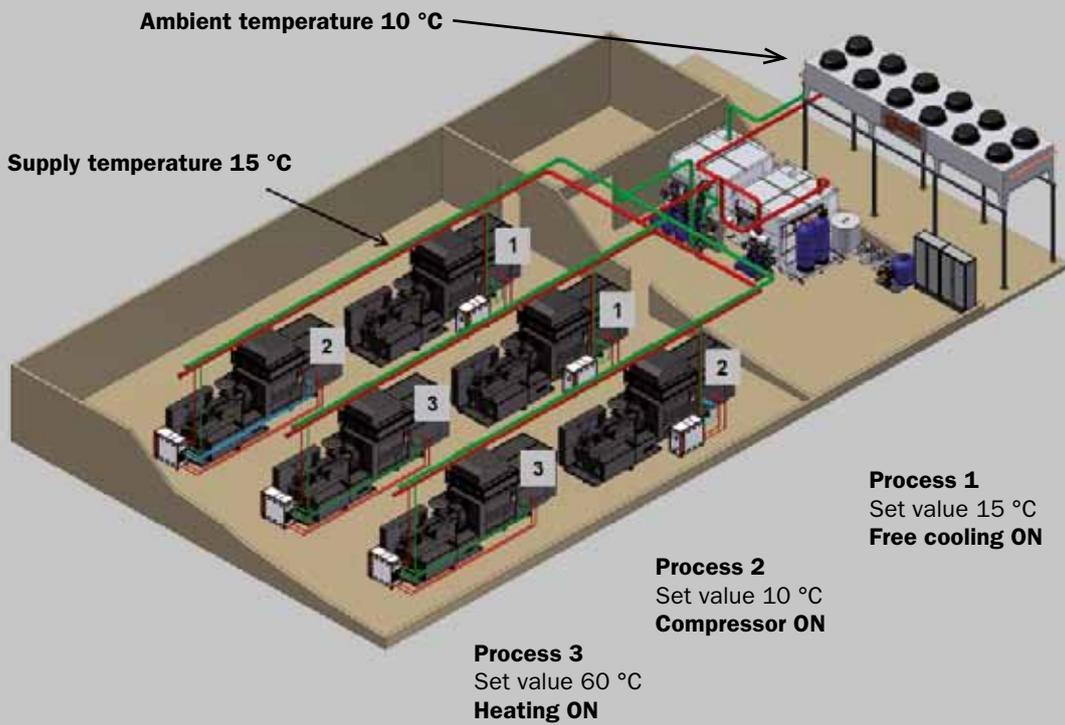
<sup>2</sup> optional

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



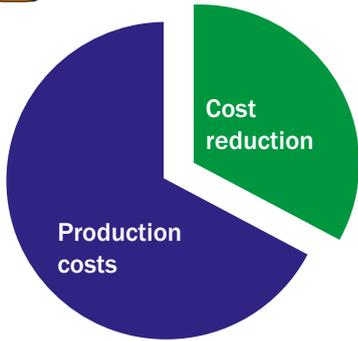
### Always the right solution:

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.



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