

Series weco wd

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



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

Always the right solution:

Whether centralised or decentralised cooling system solutions, with the technotrans solutions 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.

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

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:



