



## Cooling capacities 2 kW up to 70 kW. WKS series.

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**Chillers for industrial cooling of any kind.** For example, lasers, machine tools, plastics and packaging industry, print as well as food & beverage and much more.

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**Customisable.** From the ready-to-plug-in universal solution to the standardised product with extensive equipment options.

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**Flexible installation options.** The variable air intake plates on the right or left side ensure flexible positioning of the units in the room.

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**Intelligent.** A service technician can also check the products during operation. No breakdowns or unnecessary downtimes.

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**Reliable.** All models comply with the currently valid EC directives, standards and regulations: ISO 9001, EN 378, VDE and BGV.

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**Logistics.** Thanks to the refrigerant charge < 12 kg and non-flammable refrigerant, the units can be transported by air freight without any problems.

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**Worldwide use.** The units can be supplied bifrequency (400V / 3Ph / 50Hz and 460V / 3Ph / 60Hz).

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## WKS 151/211/231. Technical data.

Riedel Kooling chiller type	WKS 151	WKS 211	WKS 231
Net cooling capacity *	16 kW (50 Hz) 18 kW (60 Hz)	22 kW (50 Hz) 24 kW (60 Hz)	24 kW (50 Hz) 28 kW (60 Hz)
Power consumption with 3 bar pump *	7.7 kW (50 Hz) 10 kW (60 Hz)	9.4 kW (50 Hz) 11.8 kW (60 Hz)	11.6 kW (50 Hz) 15.7 kW (60 Hz)
Refrigerant (also available in other refrigerants)	R134a		
Ambient temperature range **	- 20 to + 50 °C		
Refrigerant outlet temperature range	> + 12 to + 30 °C		
Weight (net)	221 kg	260 kg	289 kg
Nominal volume flow	2.4 m <sup>3</sup> /h	3.3 m <sup>3</sup> /h	4.0 m <sup>3</sup> /h
Air volume flow	5,400 m <sup>3</sup> /h (50 Hz) 6,300 m <sup>3</sup> /h (60 Hz)	6,200 m <sup>3</sup> /h (50 Hz) 7,000 m <sup>3</sup> /h (60 Hz)	6,200 m <sup>3</sup> /h (50 Hz) 7,000 m <sup>3</sup> /h (60 Hz)
Power supply **** bifrequent	3x400 V / 50 Hz 3x460 V / 60 Hz		
Dimensions (W x H x D)	736 x 1,438 x 1,144 mm	816 x 1,551 x 1,244 mm	816 x 1,551 x 1,244 mm

## WKS 291/311. Technical data.

Riedel Kooling chiller type	WKS 291	WKS 311
Net cooling capacity *	29 kW (50 Hz) 33 kW (60 Hz)	32 kW (50 Hz) 36 kW (60 Hz)
Power consumption with 3 bar pump *	14.0 kW (50 Hz) 17.8 kW (60 Hz)	14.0 kW (50 Hz) 18.2 kW (60 Hz)
Refrigerant (also available in other refrigerants)	R134a	
Ambient temperature range **	- 20 to + 50 °C	
Refrigerant outlet temperature range	> + 12 to + 30 °C	
Weight (net)	363 kg	375 kg
Nominal volume flow	4.0 m <sup>3</sup> /h	5.2 m <sup>3</sup> /h
Air volume flow	11,450 m <sup>3</sup> /h (50 Hz) 13,400 m <sup>3</sup> /h (60 Hz)	
Power supply **** bifrequent	3x400 V / 50 Hz 3x460 V / 60 Hz	
Dimensions (W x H x D)	816 x 1,551 x 1,544 mm	

\* Net cooling capacity without considering the pump capacity at the design point (refrigerant outlet temperature 20 °C / ambient temperature 32 °C).

\*\* Standard version: Ambient temperature range + 5 °C to 45 °C. · \*\*\* Special specification required. · \*\*\*\* Voltage difference +/- 10 %

# WKS 411/511/621. Technical Data.

Riedel Kooling chiller type	WKS 411	WKS 511	WKS 621
Net cooling capacity *	41 kW (50 Hz) 47 kW (60 Hz)	51 kW (50 Hz) 57 kW (60 Hz)	62 kW (50 Hz) 68 kW (60 Hz)
Power consumption with 3 bar pump *	20.0 kW (50 Hz) 23.5 kW (60 Hz)	23.2 kW (50 Hz) 31.2 kW (60 Hz)	27.1 kW (50 Hz) 34.2 kW (60 Hz)
Refrigerant (also available in other refrigerants)	R513A		
Ambient temperature range **	- 20 to + 50 °C		
Refrigerant outlet temperature range	> + 12 to + 30 °C		
Weight (net)	565 kg	600 kg	650 kg
Nominal volume flow	5.6 m <sup>3</sup> /h	6.3 m <sup>3</sup> /h	7.5 m <sup>3</sup> /h
Air volume flow	13,800 m <sup>3</sup> /h (50 Hz) 15,900 m <sup>3</sup> /h (60 Hz)	13,800 m <sup>3</sup> /h (50 Hz) 15,900 m <sup>3</sup> /h (60 Hz)	18,200 m <sup>3</sup> /h (50 Hz) 21,100 m <sup>3</sup> /h (60 Hz)
Power supply **** bifrequent	3x400 V / 50 Hz 3x460 V / 60 Hz		
Dimensions (W x H x D)	873 x 1,725 x 1,898 mm	873 x 1,725 x 1,898 mm	873 x 1,725 x 2,198 mm

\* Net cooling capacity without considering the pump capacity at the design point (refrigerant outlet temperature 20 °C / ambient temperature 32 °C).

\*\* Standard version: Ambient temperature range + 5 °C to 45 °C. . \*\*\* Special specification required. . \*\*\*\* Voltage difference +/- 10 %

## Exemplary equipment options at a glance.

- + Outdoor installation
- + Continuously variable speed control for fans
- + Dirt filter
- + Shut-off devices (back-sleep or solenoid valves)
- + Tank heating for temperature control
- + Stainless steel water circuit, or PVC for deionised water
- + Water-cooled design
- + Pump pressure freely selectable
- + Control accuracy +/- 1 K or 0.5 K
- + Pass-through system
- + Liquefier protection screen, air filter mat \*
- + Air filter mat monitoring
- + Reduced noise design
- + Overflow valve \*
- + Fixed bypass
- + Flow monitors
- + Automatic water refill
- + Pump switch-off
- + Flow rate monitoring
- + Guide value monitoring
- + Two-circuit system
- + Activation 24 V / DC \*
- + Special voltages and frequencies
- + Digital thermometer
- + Limit value monitoring
- + Differential temperature monitoring
- + Tropical version
- + Bus connection
- + Individual fault display
- + Special colour according to RAL

\* Standard → already integrated in cooler

# Simply the best on the market.

And that's true of our service too.



The Riedel Kooling Service leaves nothing to be desired and guarantees you, the operator, optimum chiller performance. The Riedel Kooling service team is available around the clock via the 24/7 hotline and offers you individual support in all phases of the product life cycle.



#### **Start-Up.**

Commissioning and instruction on site by competent service technicians.



#### **Preventive maintenance.**

Regular maintenance with statutory leakage test. Increased operational reliability via preventative performance checks on your system.



#### **Highly qualified service team.**

Dedicated factory after-sales service with short response times and extremely high first fix rate.



#### **Spare parts management.**

Original spare parts with manufacturer quality and high stock availability.



#### **24/7 service hotline.**

Service competence center with experienced refrigeration specialists for fast help with questions or problems - at any time.



#### **Warranty extension.**

Long-term planning for maintenance costs without surprises and with flexible duration.



#### **Sales**

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