



RIEDEL - WKS 51

Chiller for process cooling



Precise and economical cooling.

Customer-specific production: based on the proven RIEDEL SC-Standard chillers. In this case: 5.8 kW cooling capacity is sufficient to cool a 400 Watt CO₂-laser.

Twice the benefit, even in the lower performance range: precise configuration, combined with all the benefits of series production, with proved components and optimal efficiency.

Individualization option: adaptation for operation in extreme ambient temperatures from -20 °C to + 50 °C.

Individualization option: variable casing shape and size, to make WKS suitable for any laser and tool machine.

Individualization options: dual frequency operation for variable use according to national requirements, electrical interfaces as required ... and countless other options.

Proven RIEDEL benefits, including: 24/7-service worldwide and certified quality.

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Technical data:

The WKS chiller is the customer-specific solution from RIEDEL which provides precise and economical cooling for a wide range of processes. What makes this device impressive is its versatility in application and its extremely compact dimensions. With high-quality components, our decades of experience in cooling technology and the standardized production processes in our series production, this chiller offers quality "Made in Germany". The WKS series can be equipped and adapted individually with a wide range of options to fulfil your requirements for cooling applications.

Chiller for process cooling.

Model Number	WKS 51
Cooling performance *	4.9 kW
Pump power loss	0.6 kW
Refrigerant	R134a
Coolant fluid **	Water
Ambient temperature	+ 5 to + 45 °C
Coolant outlet temperature	+ 8 to + 25 °C
Setpoint stability	+/- 1K
Quantity of coolant in circulation	0.8 m ³ /h
Pump pressure (manometer display)***	5.6 bar
Free pump pressure	5.0 bar
Tank volume	80 liter
Sound pressure level ****	54 db(A)
Voltage supply	3 Ph / 400 V / 50 Hz and 3 Ph / 460 V / 60 Hz
Power consumption	2.7 kW
Maximum power consumption	8,2 A
Water connections	¾ inch
Degree of protection	IP 54
Weight (net)	156 kg
Weight (gross)	236 kg
Dimensions (W x H x D)	630 x 1230 x 940 mm
Colour	RAL 7035 *****

* Refrigerating capacity without pump power loss. At coolant outlet temperature 20 °C / ambient temperature 40 °C and voltage supply 3x400 V / 50 Hz.

** Drinking water or mixtures of water and ethylen-glycol with 20 to 40 % Vol.

Other fluids on request.

*** At nominal flow rate with dT: 5K (water).

**** Half sound field without reflection, at a distance of 5 m from the operating side.

***** Every other RAL colour or NCS lacquer is adaptable on request.