



Cooling capacities 1 kW up to 12 kW. Kool°S series | SC series.

Plug-in universal solution. Kool°S and SC series chillers provide precise, economical cooling for a wide range of processes.

Versatile and extremely compact. Equipped with a tank and a pump, the devices can be installed in the immediate vicinity of the machine to be cooled.

Quick delivery. Available directly from stock with refrigeration capacities from 1 to 12 kW.

Dependable. It goes without saying that all models fulfil the current valid EC directives, standards and regulations: ISO 9001, EN 378, VDE and BGV.

Equipment features. Refrigeration circuit with thermostatic expansion valves, continuous hot gas bypass control, microprocessor-controlled temperature regulation with target and actual value display, tank with integrated float switch, pump, overflow valve, collective fault signal and remote start.

Kool°S series | SC series. Technical Data.

The SC chiller is a ready to-plug-in universal solution that provides precise, economical cooling for a wide range of processes. The unit is extremely versatile and compact. The devices are equipped with a tank and pump and can be installed in the immediate vicinity of the machine to be cooled. All our chiller systems are compact, factory-assembled cooling units suitable for an immense range of industrial applications.

The products of the Kool°S series are ready-to-connect, function-tested cooling blocks in air-cooled design for frost-free indoor installation. A dirt trap with a mesh size of 0.2 mm is installed in the cooling medium inlet to protect the chiller from coarse dirt particles in the cooling medium circuit.

Riedel Kooling chiller type	SC 11	SC 21	SC 31	Kool°S 8 C2	Kool°S 12 C3
Net refrigerant capacity ¹	1.7 kW	2.2 kW	3.9 kW	8 kW	12 kW
Refrigerant	R134a			R410A	
Coolant medium	Water or ethylene glycol/water mixture (25/75)				
Ambient temperature	+ 15 to + 45 °C	+ 15 to + 40 °C	+ 15 to + 45 °C	+ 5 to + 45 °C	
Coolant outlet temperature	+ 13 to + 25 °C			+ 12 to + 30 °C	
Temperature stability	± 1 K				
Coolant flow	0.2 m ³ /h	0.3 m ³ /h	0.5 m ³ /h	1.5 m ³ /h	2.0 m ³ /h
Free pump pressure ²	3 bar			4.5 bar	5 bar
Tank volume	25 l		40 l	60 l	80 l
Coolant connections	½" Rp			¾" Rp	1" Rp
Power supply ³	1 Ph / 230 V / 50 Hz		3 Ph / 400 V / 50 Hz		
Power consumption ⁴	1.5 kW	1.7 kW	2.1 kW	3.6 kW	4.6 kW
Maximum power consumption	1.7 kW	1.9 kW	2.6 kW	4.4 kW	5.6 kW
Maximum current consumption	8.0 A	9.8 A	5.2 A	10 A	14 A
Air volume flow	740 m ³ /h		2,000 m ³ /h	4,000 m ³ /h	4,500 m ³ /h
Sound pressure level ⁵	44 dB(A)		54 dB(A)	< 70 dB(A)	
Weight (net)	56 kg	64 kg	105 kg	146 kg	193 kg
Dimensions (width x height x depth)	475 x 390 x 780 mm		540 x 1,050 x 700 mm	655 x 1,140 x 1,020	770 x 1,650 x 1,240

¹ Net cooling capacity taking into account the pump power loss at the design point (refrigerant outlet temperature 20 °C / ambient temperature 32 °C).

² Available pump pressure at nominal flow rate.

³ Voltage difference +/-10 %.

⁴ With refrigerant outlet temperature 20 °C and ambient temperature 32 °C.

⁵ At 5m distance.



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