



## Cooling capacities 20 kW up to 100 kW. Kool°M series.

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**A chiller concept for every need.** Developed for applications in over 20 market segments and specifically for use in combination with MRI systems. Leading MRI system manufacturers rely on solutions from the market leader Riedel Cooling.

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**Future-proof.** The series was specially developed with the 'low GWP' refrigerant R513A for the global sales market. All current GWP limit values for the EU (GWP limit value 750 / from 2027) and USA (GWP limit value 700 / from 2026) are already met.

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**Added value of the common parts principle.** Reduced delivery times and faster availability of spare parts for servicing.

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**Compact.** The appliance dimensions have been optimised so that little space is required for installation despite the high cooling capacity.

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**Can be used worldwide.** The appliances are already available as standard for the common mains voltages 400V / 50 Hz / 3Ph and 460V / 60 Hz / 3Ph.

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**Versatile.** Various configuration options combined with a large selection of equipment options make these chillers an all-round talent.

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**Efficient.** All chillers fulfil the current energy efficiency standards (EU) 2015/1095 and (EU) 2016/2281, which significantly reduces operating costs during the product life cycle.

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**Innovative.** Modern components from renowned manufacturers, e.g. electronic expansion valve, EC fans, microchannel condenser.

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# Kool°M. Five times convincing.

Five key areas were prioritised when developing the new Kool°M series: **Modularity, Globality, Technology, Sustainability and Quality & Service.** Riedel Cooling is the established global system provider for all major system manufacturers in the field of medical imaging. Taking into account the latest technologies and the procurement of the highest quality components, we offer our customers chillers that are both sustainable and fulfil a wide range of cooling requirements.

## Kool°M. Technical Data.

Riedel Cooling Chiller type	Kool°M 30 C2	Kool°M 40 C2	Kool°M 50 C3	Kool°M 80 C3
<b>Net cooling capacity at 20°C water outlet temperature</b>				
Ambient temperature 35°C	32 kW (50Hz) 35 kW (60 Hz)	37 kW (50 Hz) 40 kW (60Hz)	48 kW (50 Hz) 53 kW (60Hz)	69 kW (50 Hz) 76 kW (60 Hz)
Ambient temperature 50°C	28 kW (50Hz) 31 kW (60 Hz)	30 kW (50 Hz) 33 kW (60Hz)	40 kW (50 Hz) 44 kW (60Hz)	57 kW (50 Hz) 63 kW (60 Hz)
<b>Net cooling capacity at 10°C water outlet temperature</b>				
Ambient temperature 35°C	23 kW (50Hz) 25 kW (60 Hz)	28 kW (50 Hz) 31 kW (60Hz)	35 kW (50 Hz) 39 kW (60Hz)	51 kW (50 Hz) 56 kW (60 Hz)
Ambient temperature 50°C	19kW (50Hz) 21 kW (60 Hz)	22 kW (50 Hz) 24 kW (60Hz)	28 kW (50 Hz) 31 kW (60Hz)	41 kW (50 Hz) 45 kW (60 Hz)
Power consumption with 3 bar pump at nominal point	9 kW (50 Hz) 12 kW (60 Hz)	13 kW (50 Hz) 17 kW (60 Hz)	17 kW (50 Hz) 22 kW (60 Hz)	29 kW (50 Hz) 36 kW (60 Hz)
Refrigerant	R513A			
Coolant medium	Water / water-glycol mixture 60/40			
Ambient temperature range <sup>2</sup>	- 20 °C to + 50 °C			
Temperature stability	± 1 K / ± 0.5 K			
Coolant flow (nominal volume flow)	5.2 m <sup>3</sup> /h	6.1 m <sup>3</sup> /h	7.8 m <sup>3</sup> /h	12.5 m <sup>3</sup> /h
Free pump pressure <sup>4</sup>	3 bar / 5 bar			
Tank volume	200 l		300 l	
Cooling air volume flow	11,300 m <sup>3</sup> /h		12,900 m <sup>3</sup> /h	24,000 m <sup>3</sup> /h
Sound pressure level in 5m	66 dB(A)	66 dB(A)	66 dB(A)	67 dB(A)
Power supply <sup>5</sup> bifrequent 50Hz   60Hz	3Ph / 380 V   3Ph / 400 V   3Ph / 460V			
Maximum power/current consumption: 50Hz   60Hz	17 kW / 30 A 20 kW / 32 A	24 kW / 42 A 30 kW / 44 A	26 kW / 44 A 34 kW / 48 A	44 kW / 74 A 53 kW / 77 A
Maximum back-up fuse	50 A	50 A	63 A	80 A
Coolant connections	1 1/2" IG	1 1/2" IG	2" IG	
Weight (net)	580 kg	600 kg	620 kg	650 kg
Dimensions (W x H x D)	1,315 x 2,037 x 895 mm		1,315 x 2,037 x 1,105 mm	
SEPR 2016/2281	5.55	5.06	5.49	5.06



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<sup>1</sup> Net cooling capacity without considering the pump capacity at the design point (coolant outlet temperature 20 °C / ambient temperature 32 °C).

<sup>2</sup> Standard version: Ambient temperature range + 5 °C to 50 °C.

<sup>3</sup> Different flow temperatures on request.

<sup>4</sup> Available pump pressure at nominal volume flow; other pumps in the standard portfolio.

<sup>5</sup> Voltage difference +/- 10 %; other voltage versions on request.