

Reliable cooling for MRI systems. MC series.

Really high reliability thanks to independently working compressors.

Really durable refrigeration components from recognized manufacturers.

Coordinated for use in combination with a wide range of MRI systems from established manufacturers.

System versions for global use with regard to operating conditions and approvals based on current regulations and standards.

Always there for you: worldwide operation and service.

Riedel Kooling is an established global system provider for all major system manufacturers in the field of Medical Imaging.

Useful accessories complete MC-Chiller series for even more comfort and effectiveness.

Energy Saving System – Modul provides possibility for further energy and cost savings at low ambient temperature.



MC Chiller. Technical Data.

Energy Saving System
(ESS module)

Model	MC64950	MC67050	MC64960UL	MC67060UL	MC6ESS11UL
Refrigerant	R134a				-
Coolant fluid	Glykol-water-mixture (40:60)				-
Net refrigeration capacity ¹	49,5 kW	73 kW	49,5 kW	71,5 kW	11 kW at + 6 °C ambient temperature / 70 kW at - 12 °C ambient temperature
Coolant outlet temperature	12.5 °C				-
Ambient temperature min, max., max. ²	- 25 bis + 55 °C				- 37 bis + 55 °C
Flowrate coolant	7.8 m ³ /h				5.4 bis 7.8 m ³ /h
Available pump pressure with MC6ESS11UL	3.0 bar				3.0 bar
Available pump pressure without MC6ESS11UL	3.7 bar				-
Water connections	G 2" external thread				-
Tank volume	100 l				-
Air volume flow at ambient conditions	13,000 m ³ /h	20,100 m ³ /h	13,000 m ³ /h	20,100 m ³ /h	13,000 m ³ /h
Power supply V/Ph/Hz	400 ±10 % / 3 / 50 ± 1,5		460 ±10 % / 3 / 60 ±1,5		400 ±10 % / 3 / 50 ±1,5 460 ±10 % / 3 / 60 ± 1,5
Max. operating power consumption ¹	37 kW	45 kW	36 kW	43,5 kW	1,5/2,2 kW
Max. operating current ¹	62 A	75 A	52 A	63 A	3 / 4 A
Sound pressure level ⁵ full load	57 db(A)	60.5 db(A)	56.5 db(A)	60.5 db(A)	48.5 db(A)
Sound pressure level partial load ⁶	48.5 db(A)	51.5 db(A)	48 db(A)	51.5 db(A)	n. a.
Dimensions for transport (W x H x D)	1,770 x 2,110 x 960 mm	2,430 x 2,220 x 950 mm	1,770 x 2,110 x 960 mm	2,430 x 2,220 x 950 mm	1,770 x 2,110 x 950 mm
Dimensions (W x H x D)	1,645 x 1,930 x 855 mm	2,295 x 1,930 x 855 mm	1,645 x 1,930 x 855 mm	2,295 x 1,930 x 855 mm	1,525 x 1,930 x 845 mm
Weight for transport	796 kg	987 kg	796 kg	987 kg	434 kg
Weight (empty)	652 kg	835 kg	652 kg	835 kg	303 kg

¹ tw2 = 12.5 °C; ambient temperature tu = 50 °C (refrigeration capacity incl. pump power loss)

² With reduced output






³ To the connections of the chiller

⁴ Values at 50/60 Hz

⁵ At a distance of 10 m, average sound pressure level under free field conditions derived from the calculated sound power levels; DIN EN ISO 3741, Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for reverberation rooms with accuracy class 1 (ISO 3741:2010)

⁶ Cooling capacity at 11 kW

Accessoires

Display	Emergency water supply module	Anti-vibration kit	Glykol-water mixture	Filter kit
				
Monitoring and operation of the chiller from the control room.	Alternative water supply for helium compressor via the tap water network in the event of maintenance work.	The elastic bedding of the cooling unit prevents disruptive mechanical vibrations.	Ideal coolant fluid ready for use until -37 °C.	Effective elimination of solid matter from the cooling circuit.



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