Heat Exchanger.

System separation for MRI cooling.

The heat exchanger reliably separates the building's chilled water network from the MRI cooling circuit, ensuring safe and stable operation of medical cooling systems.

Your benefits at a glance

Designed for MRI applications
Specifically engineered for cooling MRI systems and tailored to the requirements of modern medical imaging.

Reliable system separation
Provides safe hydraulic separation between the building's chilled water network and the MRI cooling circuit, ensuring stable operation of sensitive components.

Flexible cooling supply
Suitable for operation with Riedel Kooling chillers or customer-supplied cooling systems that meet the required technical specifications.

High flexibility
Compatible with a wide range of established MRI systems, offering versatile application possibilities.

Easy installation
Pre-assembled solution for quick integration into existing systems and rapid commissioning.

Durable construction
High-quality components from renowned manufacturers ensure reliable operation and a long service life.



Key figures
Heat Exchanger

Application:
MRI systems & medical cooling

Cooling capacity:
Up to 88 kW

Medium:
Water or water/glycol mixture

Compatibility:
Riedel Kooling chillers or customer-provided cooling systems [a)]

a) Subject to the required technical specifications.

Technical specifications. Heat Exchanger.

Order reference			Heat Exchanger
Technical specifications	Item number		2NK6931
	Connectors, primary circuit	inch	Cooling water supply G 1 ½ inch Helium compressor ½ inch hose nozzle
	Connectors, secondary circuit	inch	Gradient coil: 6TPM Rc ¾ inch Gradient power supply: 6 TPM Rc ¾ inch RF amplifier: 4TPM Rc ½ inch
	Dimensions (W x H x D) in mm	mm	650 x 1.952 x 650
	Weight	kg	214 kg
	Coolant, primary circuit		Water or a 60% / 40% water-glycol mixture
	Coolant, secondary circuit		Water
	Water inlet temperature, primary circuit	°C	6 – 12 °C (Nominal temperature 12 °C)
	Water outlet temperature, secondary circuit	°C	20 °C +/– 2 K
	Volume flows, primary circuit	l / min	Total: 90 l / min (nominal volume flow) Helium compressor: 8 l / min
	Volume flows, secondary circuit	l / min	Gradient coil: 6 – 24 l / min (configurable) Gradient power supply: 30 – 40 l / min (configurable) RF amplifier: 0 – 21 l / min
	Pressure drops, primary circuit	bar	Total: approx. 1.5 bar Helium compressor: approx. 1 bar
	Pressure drops, secondary circuit	bar	Gradient coil: 2.0 bar to 3.8 bar Gradient power supply: 2.5 bar to 2.8 bar RF amplifier: up to 2.8 bar
	Max. cooling capacity, primary circuit	kW	88 kW
	Max. cooling capacity, secondary circuit	kW	82 kW
	Operating voltage	V/Ph/Hz	400 V / 3 Ph / 50 Hz 460 V / 3 Ph / 60 Hz
	Power consumption, overall system	kW	2.7 kW
	Max. current consumption	A	5 A
	Customer-side fusing	A	max. 16 A

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