

Cool-40 Rat Coil

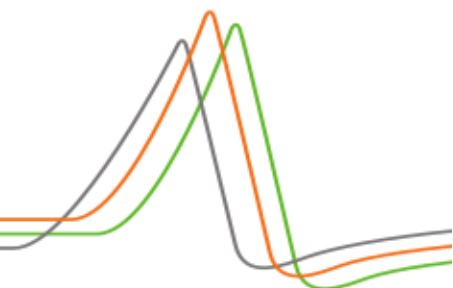
The ultimate tool to study effects and action mechanisms of Transcranial Magnetic Stimulation (TMS) in small rodents



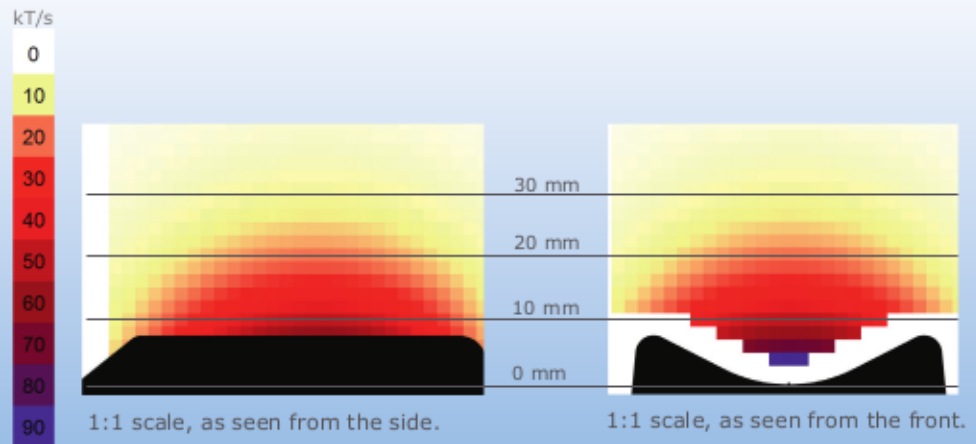
- Perform rTMS and determine motor threshold
- Study the effects of TMS within e.g. behavioral, metabolic, (epi) genetics, molecular and biochemical pathways
- May be used inside a PET or SPECT imaging scanner with a minimum \varnothing 120mm bore
- Allows a high number of stimuli before overheating
- Developed in close collaboration with researchers within the field



Not for human use, animal studies only.



Magnetic Field Strength



Mechanical Properties	
Weight	0.5 kg
Cable length	1.4 m
Dimensions of transducer head (WxLxH)	52 x 54 x 42mm

Environmental Data	
Operating temperature	10-30°C (50-86°F)
Storage temperature	0-50°C (32-122°F)
Operating humidity	30-75% RH
Storage humidity	10-90% RH

Performance*	
Motor Threshold level for anesthetized rats (propofol)	Typically 30% mean output
Maximum protocol settings for continuous running without overheating	10 pps: 60 pulses/train @ ITI 54s @ 50% mean output 5 pps: 60 pulses/train @ ITI 48 s @ 53% mean output 1 pps: 70% mean output

* The Cool-40 Rat Coil requires the High-Performance Cooling System.

Magnetic and Electrical Properties	
Max initial dB/dt:	80 kT/s (5 mm from coil surface)
Active Pulse width	280µs (biphasic)

Coil Winding Data	
Type and dimension	Circular ø40mm with a slight bend

Ordering Number	
Cool-40 Rat Coil:	9016E0241
High-Performance Cooling System:	9016B0411



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Developed in close collaboration with the Molecular Imaging Center Antwerp

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