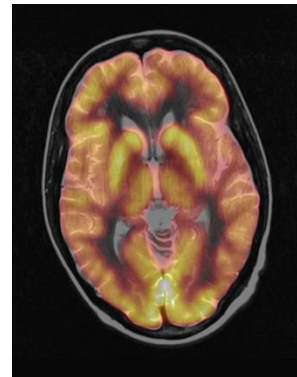


Dual Tuned Head Coil for PET/MR *

MR Coils Made-to-Measure

^{13}C metabolic MR imaging is getting more and more exciting, especially since this method is beginning to be explored in human applications. Dedicated RF coils play an important role in this context. Tx coils should pose high Tx efficiency for short RF pulses whereas an optimized SNR is needed on the Rx side. An option for ^1H overview imaging or shimming is also necessary. Furthermore, high requirements in safety and workflow are set due to human applications. Even greater advantages are promised by the utilization of hybrid imaging systems that combine simultaneous PET and MR into one scanner issuing a demand for PET compatible RF coils that do not compromise the MR image.



Transverse slice of the PET image and overlay on the T2 TSE anatomical image

Image Courtesy:

C. J. McGinnity, King's College London, London, UK

in Proc. ISMRM 2016;

Prof. Dr. H. H. Quick, University Hospital Essen, Germany;

- transmit / receive quadrature polarization for both nuclei
- high SNR performance
- optimum homogeneity
- supports ^1H decoupling experiments
- optimized for PET/MR
- sliding mounting mechanism for easy access
- open design for fMRI studies
- available for ^{31}P , ^{23}Na and ^{13}C combined with ^1H (other non-proton nuclei on demand)
- a pediatric version with adapted measurements is also available

Specifications

* Regulatory requirements for medical products will vary by country and MR system. Please contact us at info@rapidbiomed.de or info@rapidmri.com (USA, Canada, and South America) to determine approval status for products mentioned on this product sheet.

B_0 -field strength	3 T
housing dimensions	inner diameter 26.5 cm / outer diameter 35 cm
weight	ca. 8 kg