Technical Information

7 Tesla MRI scanner
Siemens

Location address:
EPFL AVP CP CIBM AIT CH F0-533
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Description
First of its kind scanner for humans, with active-shielding, ultra-short magnet length designed for human clinical research, complemented with a patient suite to accommodate human subject volunteers.

Specifications
- Cryostat length: 2200 mm
- Cryostat diameter: 2700 mm
- Cryostat weight (excluding cryogens): 28 Tonnes approx.
- Nominal operating current: 192 Amps
- Energy stored: 39.3 MJ
- Gradients of 80 mT/m and 333 T/m/s

Additional related infrastructure
- Human volunteer subject preparation room (volunteers and outpatient research subjects) with two beds and space for related interventions.

Additional hardware & software:
- Diverse RF coils for 1H, 31P and 31C MRS
- LCModel for MRS quantification