

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

- **Magnet:** Magnex Scientific 7 Tesla / 680 mm Bore. Active shielded. Ultra short length. Zero boiloff magnet
- **Cryostat length:** 2200 mm
- **Cryostat diameter:** 2700 mm
- **Cryostat weight (excluding cryogenes):** 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