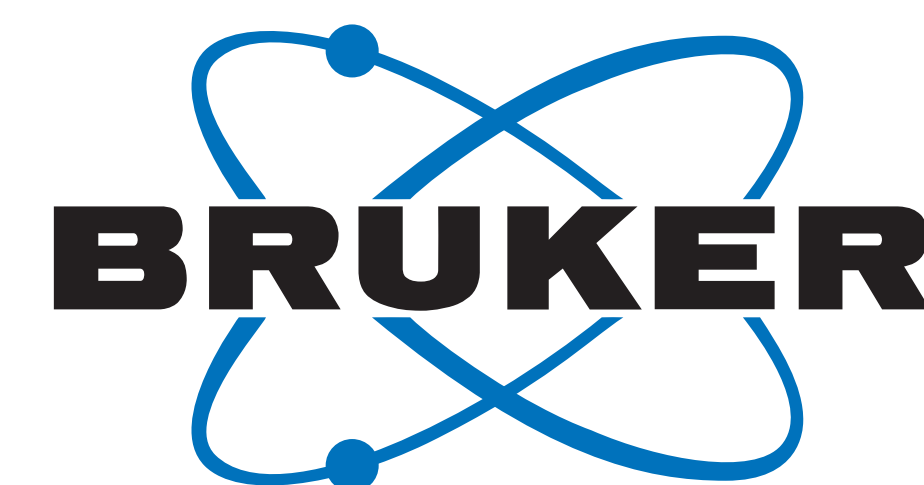


Active Refrigeration Extended to Wide Bore Magnets



Ascend™ Aeon 400 – 800 WB with Integrated Active Refrigeration

Bruker continues to be committed to increasing sustainability and responding to concerns about the limited availability and rising price of Helium. After the successful installation of over 30 Ascend Aeon standard bore (54 mm) magnets over the last few years, we are expanding the actively-refrigerated product line to wide bore (89 mm) magnets. The regular Ascend magnets will continue to be offered for both standard and wide bore.

Main Features

The Ascend Aeon 400-800 WB magnets combine Bruker's latest active shielding technology with an integrated active helium refrigeration technology.

- N₂-free magnet systems
- 2-stage pulse tube cryocooler, robust and reliable with no moving parts at the cold end
- 2-year interval for the cryocooler service by Bruker
- Quiet operation
- Integrated monitoring, more than 7 days of operational safety in case of utilities outages
- Follows on the experience with hundreds of horizontal actively-refrigerated MRI magnets and on the development of actively-refrigerated NMR magnets with standard bore

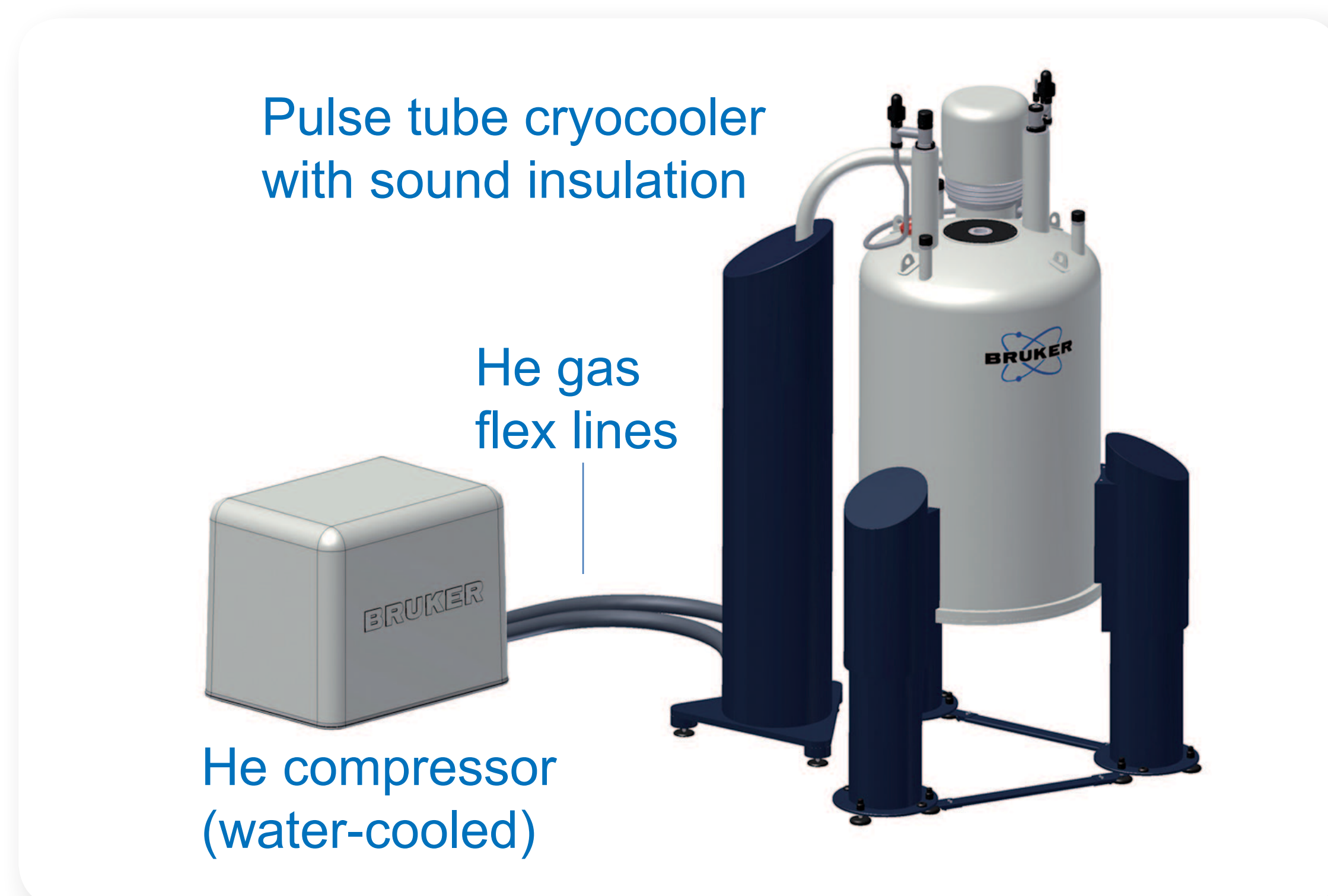
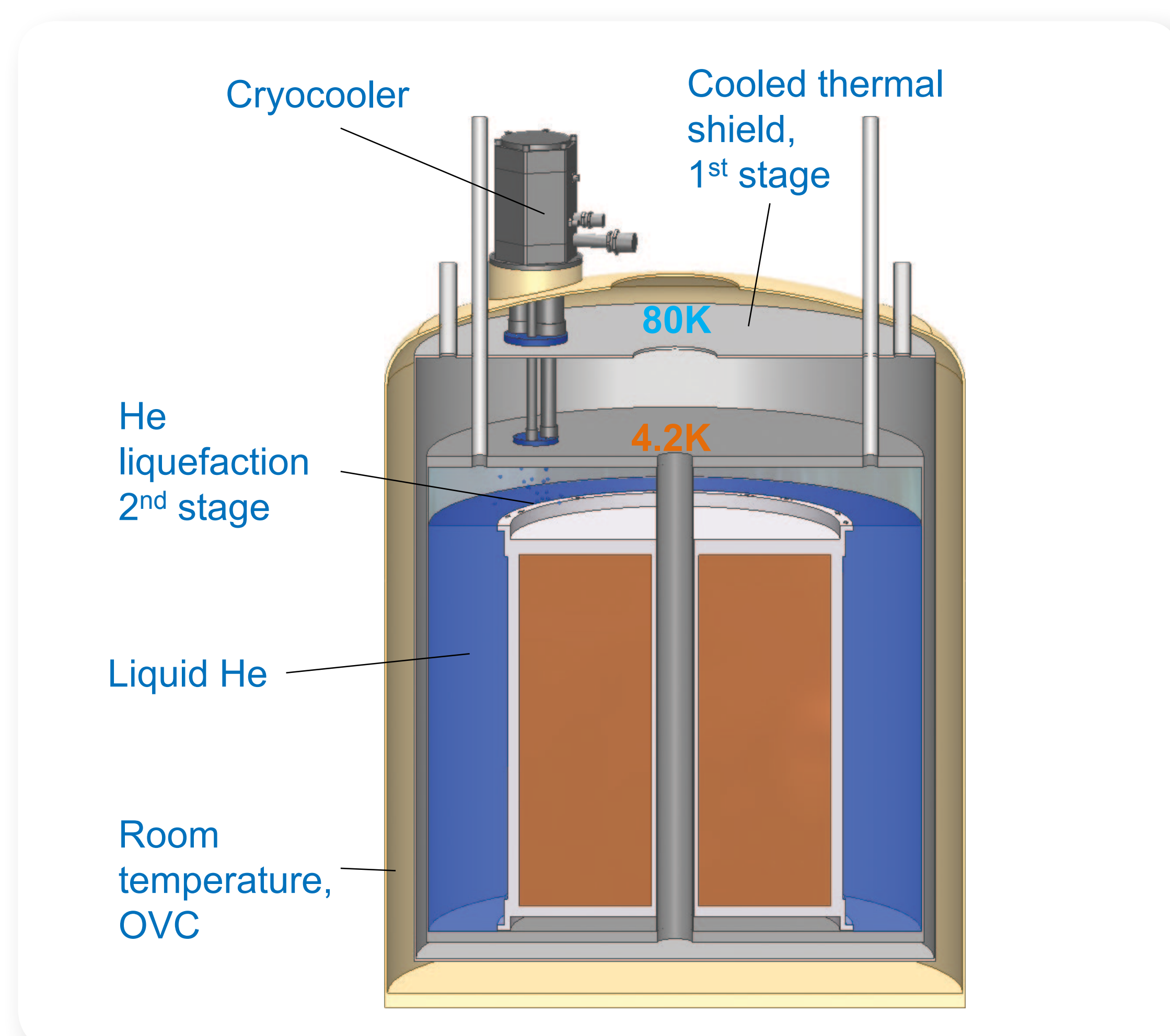
Benefits

The Ascend Aeon WB magnets eliminate the He and N₂ refills, maximize user convenience and experiment flexibility and reduce downtime.

- No more dependence on cryogenics and keeping the NMR system operational even when He is not available
- Increased convenience with Care-Free operation requiring no user intervention or maintenance
- Reduced downtime and increased experiment flexibility
- Available also for WB-DNP magnets with sweep coil, enabling care-free operation for both the gyrotron and the NMR magnets with active-refrigeration
- NMR performance with no compromise



The Ascend Aeon family of magnets 400 MHz–800MHz



Ascend Aeon 500/89 at Bruker laboratory in Germany

