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## ***Bruker Avance AV 300 NMR spectrometer***

### **300 Mhz UltraShield long hold time magnet**

- Type: 300 SB UltraShield
- Operating field: 7.05 Tesla
- Field stability: < 3 Hz/hour
- Axial range with field homogeneity better than 10 ppm: approx 55 mm
- Radial stray field (horizontal distance of the 5 Gauss line): <0.6m
- Axial stray field (vertical distance of the 5 Gauss line): <0.9m
- Cryoshims: X, Y, Z, Z<sup>2</sup>, Z<sup>3</sup>
- Cryostat type: D232/54
- Room temperature bore: 54mm
- Approximate helium evaporation rate under stabilized normal conditions: approx 9 ml/h liquid helium
- Liquid helium refill volume: approx 39/53 liters
- Helium hold time: > 180 days
- Approximate nitrogen evaporation rate under stabilized normal conditions: approx 180 ml/h liquid nitrogen
- Liquid nitrogen refill volume/total volume: approx 48/52 liters
- Nitrogen hold time: > 11 days
- Room temperature orthogonal shim system BOSS I Type SB-1 with low current and low heat dissipation design
- BST shim upper part Type A : Enables high flow rates for VT gas and included integral sensors for communication with BSMS
- Bruker Smart Magnet System shim and Digital Lock control unit
- Minimum ceiling height: 2.62 meters

### **Bruker AV 300 spectrometer cabinet**

- 19" rack mounted cabinet with rf shield and full front access to all sub-assemblies and cabling
- BLAXH 100/50 transmitter system including 1H, 19F transmitter for observe and homo/heteronuclear decoupling & X frequency broadband transmitter system for X frequency observe and decoupling for both CW and high power pulse operations
- Multilink preamplifier
- ATR Quadrature detection receiving system with high dynamic range, 22 MHz intermediate frequency and inverse capability

- Digital acquisition control system with CCU, TCU, FCU for F1, FCU for F2, RCU and DQD.



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