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Technical Data BioSpec 70/30 USR

STANDARD CONFIGURATION	
Magnet type	Ultra Shielded & Refrigerated (USR)
1H resonance frequency	300.3 MHz
Diameter of magnet bore	306 mm
Max. gradient strength	200 mT/m @ 200 A
Max. linear slew rate	640 T/m/s
Shim set	X, Y, Z, Z2, ZX, ZY, X2-Y2, 2XY, Z3
Transmit/receive (T/R) channel	Two 1H parallel transmit / receive channels.
Transmitter power	1000 W (2x 500 W)
Standard RF coil	transceiver volume coil, ID = 154 mm
OPTIONS	
Broadband T/R channel	Additional broadband transmit / receive channel.
Parallel receiver	4, 8, 16
Parallel transmitter	up to 8 parallel transmitter
High power gradient upgrade	300 mT/m , 1040 T/m/s @ 300 A
High power transmitter upgrade	up to 2000 W (2x 1000W)
Gradient inserts	BAG 12S HP, BGA 6S-100
RF Coils	Volume and Surface Coils, Phased Array Coils, X-Nuclei Volume and Surface Coils, MRI CryoProbe™
INSTALLATION	
Rating	400/230 VAC, 3W+N+PE, 50/60 Hz, 80 A Overvoltage category: II Degree of pollution: 2 IP Classification: 20
Heat dissipation (*)	into air (technical room): ~ 7.5 kW (standard) plus ~ 7 kW High Power Gradient Amplifier (option) ~ 1.2 kW MRI CryoProbe (option) ~ 2.0 kW Parallel Transmit Cabinet (option) into air (MR system in magnet room): ~ 0.5 kW into air (operating room): ~ 0.5 kW into facility cold water supply: ~ 11.5 kW
Acoustic sound pressure	Technical room: typically 70 dB(A) Magnet room / examination: up to 100 dB(A)

(*) The power consumption and the heat dissipation depend on the actual system configuration and on the operation state of the MR instrument. For site planning purpose, see details in the instrument specific Site Planning Information.