

Fast Ramping Systems

Specifications

Standard fast-ramping magnet Specifications

Specifications	solenoid	split-pair
Room temperature bore (parallel to B)	70mm	52mm
Room temperature bore (perpendicular to B)	N/A	30mm
Span between end flanges (parallel to B)	233mm	570mm
Span between end flanges (perpendicular to B)	N/A	438mm
Cryostat height	820mm	881mm
Cold head type	2x Sumitomo 415D	2x Sumitomo 415D
Approximate cryostat weight	120kg	150kg
Cooldown time	<12 hrs	<12 hrs
Maximum field	7 tesla	7 tesla
Operating current	281 A	203 A
Magnet homogeneity (10mm DSV)	0.35%	0.76%
Magnet inductance	0.55 henry	1.9 henry
Fastest sweep rate to full field	0.7 T/s	0.22 T/s