

## STANDARD FIELD COIL NFH 63,4



### • Standard Field Coil according to Helmholtz NFH 63,4

A standard field coil according to Helmholtz is used to generate a homogeneous static magnetic field. For example it is suitable to check or to calibrate sensors.

It consists of two compact partial coils that are split by a thin wall. Higher field strengths as with conventional Helmholtz coils can be reached because of the relatively large windings. Up to 80 kA/m (1 kOe) can be generated for short time periods. The homogeneous field region can be accessed in axial and radial direction.

A proprietary calibration certificate, which documents traceability of calibration to national standards, is issued free of charge on purchase. A calibration can alternately be carried out in our ISO/IEC 17025 accredited calibration laboratories in Germany and in the USA for an extra charge. Periodic recalibration is recommended and can of course also be performed by our laboratories.

### • Technical Data

Field strength constant $k_H$ :	approx. 20 kA/m per A (250 Oe per A)
Flux density constant $k_B$ :	approx. 25 mT per A (250 G per A)
Maximum current:	4 A
Operation time:	25 %, max. 5 minutes at full current
Homogeneous field region (1 %):	max. 12 mm diameter, max. 20 mm length
Openings:	50 mm axial diameter, 8 mm diameter radial hole on rear side
Resistance:	approx. $2 \cdot 10 \Omega$

Due to continuous product improvements, specifications are subject to change without notice.

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