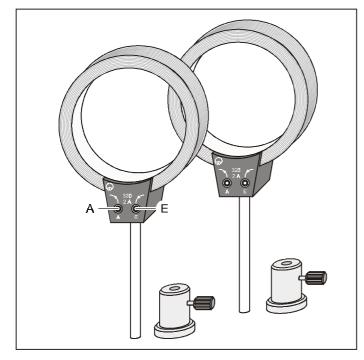
Physics	Chemistry - Biology	Technology

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1 Description

The Helmholtz pair of coils is intended for use on the tube stand (555 600) and adapted to the dimensions of the LD demonstration tubes (555 610 ff). During arrangement in the distance which is marked on the tube stand with H an approximately homogeneous magnetic field is produced.

2 Scope of supply

2 coils on support with stand rod 2 magnetic feet

3 Technical data

Technical data of one coil:

Max. current load:	2 A
DC resistance:	6 Ω
Number of turns:	320
Connections:	4 mm safety sockets
Stand rod:	130 mm \times 10 mm \varnothing
Mean coil diameter:	13.4 cm
Helmholtz arrangement:	
Mean coils distance:	6.7 cm
Magnetic induction <i>B</i> :	$B = 4.25 \text{ mT} \cdot \frac{l}{A}$ <i>I</i> : current through one coil



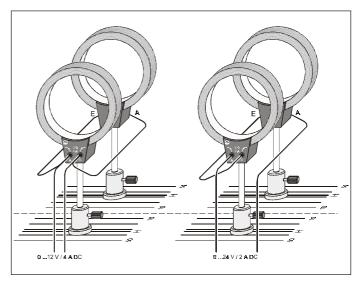
Lehr– und Didaktiksysteme LD Didactic GmbH Leyboldstrasse 1 · D-50354 Huerth

Instruction sheet 555 604

Helmholtz pair of coils (555 604)

- A Connection to beginning of coil
- E Connection to end of coil

4 Helmholtz arrangement



- Arrange the coils in such a way that the connection sockets point outward.
- For parallel connection, connect the sockets A and E of coil 1 with the sockets E and A of coil 2, respectively, and to a DC voltage source 0...12 V / 4 A.
- For series connection, connect socket E of coil 1 with socket E of coil 2 and the sockets A of both coils to a DV voltage source 0...24 V / 2 A.

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