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## 1. Lascells Cloud Chamber

The Lascells cloud chamber is the perfect alternative to existing unreliable and time consuming dry ice variants. The chamber is self-contained and thermoelectrically cooled. The chamber requires no dry ice or water; the only setup necessary is the addition of propan-2-ol (CHE3118SE) and connection to a mains socket. The chamber contains an integrated power supply and illumination of the chamber is provided by a high intensity LED.

Using the provided source, tracks should be visible within 10 minutes. Once running the cloud chamber can be made to run for extended periods by adding more alcohol through the access provided in the lid. A replacement cloud chamber source (PY3106) is available separately as a spare part. Dimensions: 400 × 250 × 180mm, weight: 2.5kg.

| Code | Description | Pack | Price |
|---|---|---|---|
| PY3104 | Cloud chamber | Each | £486.50 |
| PY3106 | Spare cloud chamber source | Each | £11.55 |

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## 2. Teltron Tube Holder

The Teltron tube holders are available for S and D mounting points. The entire S and D series and related accessories, such as the Helmholtz coils S and auxiliary coil have standard fittings. An easily replaceable fuse is located in the holder to protect the valuable tubes from excessive voltage. The slots for holding coils have metric rulings to ensure precise adjustments with a maximum spacing of 150mm. The auxiliary coil can be inserted into the stepped front side of the tube holder.

| Code | Description | Pack | Price |
|---|---|---|---|
| SE1014525 | S type | Each | £413.49 |
| SE1008507 | D type | Each | £284.92 |

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## 3. Helmholtz Coils Pair

Pair of Helmholtz coils for generating a uniform magnetic field perpendicular to the axis of the Teltron S series tube. Teltron tube holder S allows the coils to be configured in the Helmholtz geometry or at variable distances to produce magnetic fields aligned vertically, or coaxial, with respect to the tube axis. The maximum field strength generated by the coils (~ 10mT) is approximately 300 times weaker than that produced by an MRI machine (~ 3T), which are known to be safe for use by people with medical implants such as pacemakers.

- Can be used for the AQA Physics A level magnetic fields required practical

| Code | Description | Pack | Price |
|---|---|---|---|
| SE1000611 | S type | Each | £385.16 |
| SE1000644 | D type | Each | £385.16 |