The next generation of Electrophoresis Sample Handler joins the Touch Series of analyzers as part of Helena’s integrated solution for high volume electrophoresis workloads. Like its predecessor, ESH Touch provides automated front-end specimen processing for the SPIFE Touch with positive patient ID and interface to QuickScan Touch or LIS - but in a smaller, faster, quieter, more flexible and user-friendly package.

ESH Touch transfers samples directly from primary patient tubes to barcoded sample trays, ready for application to agarose gels by the SPIFE Touch. A 100-sample capacity accommodates the largest SPIFE Touch gels and dilution schemes for each sample can be specified. A touch-screen interface makes the system easy to use.

**FEATURES**

- User-friendly touch screen interface
- Primary tube sampling with liquid level sensor
- Barcode reader with LIS interface for positive ID
- 100-sample capacity
- Flexible dilutions, i.e. per sample
- Smaller footprint
- 50% faster sample tray preparation
- Improved level and tube detection
- Quieter operation

www.helena.com | helena@helena.com
800-231-5663
**Electrophoresis Instruments:** SPIFE 3000, SPIFE Touch

**Densitometer Instruments:** QuickScan Touch

**Input Power:** Cat. No. 1380: 90 to 264 Vac, 47 to 63 Hz

**Fuses:** F1, F2: 6.3A T/250V

**Dimensions:** ≤ 21 in. (46 cm), High ≤ 25 in. (76 cm) Wide, ≤ 24 in. (66 cm) Deep

**Weight:** ≤ 100 lb. (45 kg)

**Operating Environment:** 15° to 27°C (59° to 81°F) Altitude 2000 m, Humidity 20-80%, non-condensing

**Storage / Shipping Temperature:** -9.4°C at uncontrolled humidity to 60°C at 80% humidity (15° to 140°F)

**Shipping Altitude:** 4,267 meters (14,000 feet)

**Pump System:** 2 peristaltic pumps, 1 syringe pump

**Computer System:** Internal computer, hard drive, 4 external USB ports, 2 external RS232 connections, touchscreen capable monitor

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### Test Tubes:

<table>
<thead>
<tr>
<th>Test Tube Type</th>
<th>Minimum Volume</th>
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</thead>
<tbody>
<tr>
<td>13 x 75 round bottom</td>
<td>150 µL</td>
</tr>
<tr>
<td>16 x 100 mm round bottom</td>
<td>300 µL</td>
</tr>
<tr>
<td>13 mm conical bottom</td>
<td>75 µL</td>
</tr>
<tr>
<td>13 mm serum separator tubes</td>
<td>min. volume 500 µL above plug</td>
</tr>
<tr>
<td>16 mm serum separator tubes</td>
<td>min. volume 800 µL above plug</td>
</tr>
</tbody>
</table>

### Electrophoresis Instrument and LIS Interfacing:

- **Programmable baud rate:** 1200, 2400, 4800, 9600, 14400
- **Programmable data bits:** 7, 8
- **Programmable stop bits:** 1, 2
- **Programmable parity:** None, Odd, Even
- **Programmable protocol:** None, XON-XOFF, ASTM