**SETAVIS MANUAL KINEMATIC VISCOMETERS**

### 83542-0
**SETAVIS ’DOUBLE 6’ KINEMATIC VISCOMETER**

**ASTM D7279 Houillon Method**

- Correlates with: ASTM D445; D446; D2270; IP 71; IP 226; BS 188; BS 2000 Part 71; BS 4459; EN 3104; ISO 2909; ISO 3104; FTM 791 305; NF T60-100; NF T60-136; JIS K2283
- Two independently controlled baths
- Temperature range 0 to 150°C
- Up to 6 viscometer tubes per bath
- Integral 6 channel digital timer
- In-situ tube cleaning with integral vacuum pump

The 83542-0 is a manual version of the 83545-3 automatic kinematic viscometer. The instrument is a bench top stand alone instrument comprising two temperature controlled baths, each providing capacity for up to six Setavis viscometer tubes, and an integral 6-channel timer.

**SUPPLIED WITH:** mains lead and instruction manual.

**Notes:** Supplied without viscometer tubes or thermometers, refer to the accessories section.

### 83541-3
**SETAVIS KINEMATIC VISCOMETER**

**ASTM D7279 Houillon Method**

- Correlates with: ASTM D445; D446; D2270; IP 71; IP 226; BS 188; BS 2000 Part 71; BS 4459; EN 3104; ISO 2909; ISO 3104; FTM 791 305; NF T60-100; NF T60-136; JIS K2283
- Temperature range 0 to 150°C
- Up to 6 viscometer tubes
- Integral 6 channel digital timer
- In-situ tube cleaning with integral vacuum pump

The 83541-3 is a compact version of the 83542-0 kinematic viscometer, with one temperature controlled bath providing capacity for six Setavis viscometer tubes and six simultaneous measurements. Complete with integral 6-channel timer and vacuum pump for in-situ cleaning.

**SUPPLIED WITH:** mains lead and instruction manual.
## ACCESSORIES – Setavis Kinematic Viscometer

### REQUIRED

<table>
<thead>
<tr>
<th>Seta Part No.</th>
<th>Seta Part No.</th>
<th>Nominal Constant</th>
<th>Sample Volume (ml)</th>
<th>Viscosity Range (mm²/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>83600-001</td>
<td>83600-002</td>
<td>0.01</td>
<td>0.1</td>
<td>3 to 9</td>
</tr>
<tr>
<td>83600-002</td>
<td>83600-003</td>
<td>0.03</td>
<td>0.15</td>
<td>3 to 18</td>
</tr>
<tr>
<td>83600-003</td>
<td>83600-004</td>
<td>0.05</td>
<td>0.15</td>
<td>10 to 30</td>
</tr>
<tr>
<td>83600-004</td>
<td>83600-005</td>
<td>0.1</td>
<td>0.175</td>
<td>20 to 60</td>
</tr>
<tr>
<td>83600-005</td>
<td>83600-006</td>
<td>0.3</td>
<td>0.175</td>
<td>60 to 180</td>
</tr>
<tr>
<td>83600-006</td>
<td>83600-007</td>
<td>0.5</td>
<td>0.225</td>
<td>100 to 300</td>
</tr>
<tr>
<td>83600-007</td>
<td>83600-008</td>
<td>1.0</td>
<td>0.25</td>
<td>200 to 600</td>
</tr>
<tr>
<td>83600-008</td>
<td>83600-009</td>
<td>3.0</td>
<td>0.25</td>
<td>600 to 1200</td>
</tr>
<tr>
<td>83600-009</td>
<td>83600-010</td>
<td>5.0</td>
<td>0.275</td>
<td>1000 to 2000</td>
</tr>
</tbody>
</table>

### SETA KINEMATIC VISCOSITY BATH THERMOMETERS.

With ice point scale and 0.02°C subdivisions to allow easy reading to within 0.01°C.

### CALIBRATION CERTIFICATE (WORKS) - OPTIONAL

<table>
<thead>
<tr>
<th>Seta Part No.</th>
<th>Seta Part No.</th>
<th>Works Cert.</th>
<th>Temperature Set Point (°C)</th>
<th>Temperature Range (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>83620-001</td>
<td>83620-002</td>
<td>40</td>
<td>38.6 to 41.4</td>
<td></td>
</tr>
<tr>
<td>83620-002</td>
<td>83620-003</td>
<td>50</td>
<td>48.6 to 51.4</td>
<td></td>
</tr>
<tr>
<td>83620-003</td>
<td>83620-004</td>
<td>100</td>
<td>96.6 to 101.4</td>
<td></td>
</tr>
<tr>
<td>83620-004</td>
<td>83620-005</td>
<td>150</td>
<td>148.6 to 151.4</td>
<td></td>
</tr>
</tbody>
</table>

**CALIBRATION CERTIFICATE (UKAS) - OPTIONAL**

<table>
<thead>
<tr>
<th>Seta Part No.</th>
<th>Seta Part No.</th>
<th>Works Cert.</th>
<th>Temperature Set Point (°C)</th>
<th>Temperature Range (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>83674-001</td>
<td>83674-002</td>
<td>40</td>
<td>38.6 to 41.4</td>
<td></td>
</tr>
<tr>
<td>83674-002</td>
<td>83674-003</td>
<td>50</td>
<td>48.6 to 51.4</td>
<td></td>
</tr>
<tr>
<td>83674-003</td>
<td>83674-004</td>
<td>100</td>
<td>96.6 to 101.4</td>
<td></td>
</tr>
</tbody>
</table>

### CONSUMABLES – Setavis Kinematic Viscometer

**2 Years/2000 Tests Qty**

<table>
<thead>
<tr>
<th>Seat Part No.</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>22420-005</td>
<td>2</td>
</tr>
<tr>
<td>83541-002</td>
<td>12</td>
</tr>
<tr>
<td>83541-036</td>
<td>1</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS

- **Seat Part No.:** 83542-0, 83541-3
- **Viscosity Range:** 2.5 to 2000 mm²/s, 2.5 to 2000 mm²/s
- **Temperature Range:** Ambient to 150°C, Ambient to 150°C
- **Temperature Stability:** ±0.01°C below 100°C, ±0.01°C below 100°C
- **Sample Size:** 0.15 to 0.275 ml, 0.15 to 0.275 ml
- **Typical Flow Time:** 50 to 100 seconds, 50 to 100 seconds
- **No. of Timer Channels:** 6, 6
- **No. of Baths:** 2, 1
- **Bath Capacity:** 2 litres, 2 litres
- **Tube Capacity:** up to 12 (6 per bath), up to 6
- **Voltage:** 110/120V, 50/60Hz, 110/120V, 50/60Hz (switchable), 220/240V, 50/60Hz (switchable)
- **Power:** 450W, 450W
- **Size (HxWxD):** 68 x 59 x 30 cm, 60 x 40 x 30 cm
- **Weight:** 37 kg, 22 kg

**CALIBRATION, VERIFICATION & TRAINING**

- **CALIBRATION CERTIFICATE (UKAS) - OPTIONAL**
- **CALIBRATION CERTIFICATE (WORKS)**
- **VERIFICATION CERTIFICATE (UKAS)**
- **VERIFICATION CERTIFICATE (WORKS)**
- **TRAINING CERTIFICATE**

### ACCESSORIES – Continued

**OPTIONAL**

<table>
<thead>
<tr>
<th>Seat Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>83570-0</td>
<td>TUBE BACK-FILL KIT, for cleaning blocked tubes in situ. Comprises wash bottle and tubing.</td>
</tr>
<tr>
<td>83700-5</td>
<td>TUBE UNIVERSAL PRE-HEATING AND FILTERING KIT, for use with transparent and opaque samples. Comprises hot plate, support, high temperature 75 micron reusable filter unit and 100 temperature disposable sample containers with 100 associated 75 micron filters and covers.</td>
</tr>
</tbody>
</table>

**SETAPLUS EXTENDED 12 MONTH WARRANTY**

**SETAVIS UNIVERSAL PRE-HEATING AND FILTERING KIT**

- **Set Point (°C):** Ambient to 80°C, Ambient to 80°C
- **Accuracy:** ±0.01°C below 100°C, ±0.01°C below 100°C
- **Flow Time:** 50 to 100 seconds, 50 to 100 seconds
- **Sample Size:** 0.15 ml, 0.15 ml
- **No. of Timer Channels:** 6, 6
- **No. of Baths:** 2, 1
- **Bath Capacity:** 2 litres, 2 litres
- **Tube Capacity:** up to 12 (6 per bath), up to 6
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**CALIBRATION CERTIFICATE (UKAS) - OPTIONAL**

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**TRAINING CERTIFICATE**

**VISCOSITY STANDARDS, (for details see page 48)**

**SETAX THERMOMETERS**

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- **Viscosity Range:** 2.5 to 2000 mm²/s, 2.5 to 2000 mm²/s
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