### ELPI®+ ACCESSORIES

#### ELPI®+ units

<table>
<thead>
<tr>
<th>ELPI®+ Unit</th>
<th>ELPI+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incl. ELPI®+ unit with impactor and charger unit, 2 m of sample hose (IPR-212), vacuum hose (IA-322B), aluminium foils (CF-300), greased aluminium foils (CFG-225), Apiezon-L grease (AG-10), substrate positioning tool (N1591), spare charger needle (N1281), RS-232 cable with USB adapter, connectors, power supply with mains cable, user manuals and calibration certificate.</td>
<td>ELPI+</td>
</tr>
</tbody>
</table>

#### ELPI®+ Spare Impactor and Charger unit

<table>
<thead>
<tr>
<th>N1312</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1312 is intended for use as ELPI®+ spare impactor only. For existing users, please inform the serial number of the ELPI®+ together with the purchase order.</td>
</tr>
</tbody>
</table>

#### High Temperature ELPI®+ (HT-ELPI®+)

<table>
<thead>
<tr>
<th>HT-ELPI+110</th>
<th>HTELPI+230</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 V</td>
<td>230 V</td>
</tr>
<tr>
<td>HT-ELPI®+ incl. ELPI®+, heating unit with control for external heater, impactor heater, charger insulator, 1.5 m heated sampling line, Teflon insulators for the impactor, temperature sensor for HT-ELPI®+ inlet, needed cables and connectors</td>
<td>N1393</td>
</tr>
</tbody>
</table>

#### ELPI®+ upgrade to HT-ELPI®+, 110 V

<table>
<thead>
<tr>
<th>N1393B</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELPI®+ upgrade to HT-ELPI®+, 110 V</td>
</tr>
</tbody>
</table>

#### ELPI®+ upgrade to HT-ELPI®+, 230 V

<table>
<thead>
<tr>
<th>N1393B</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELPI®+ upgrade to HT-ELPI®+, 230 V</td>
</tr>
</tbody>
</table>

#### High Resolution ELPI®+

<table>
<thead>
<tr>
<th>HRELPI+</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR-ELPI®+ incl. ELPI®+ and high-resolution software to get the size distribution in up to 500 size channels.</td>
</tr>
</tbody>
</table>

#### ELPI®+ upgrade to HR-ELPI®+

<table>
<thead>
<tr>
<th>N1543</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incl. HR-ELPI®+VI software and firmware</td>
</tr>
</tbody>
</table>
## PUMPS

**Vacuum Pumps**
- DP25 230 V / 50 Hz
- DP25B 100 V / 50 Hz
- DP25B 115 V / 60 Hz

<table>
<thead>
<tr>
<th>Pumps</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>IA-904</td>
<td></td>
</tr>
<tr>
<td>IA-908</td>
<td></td>
</tr>
<tr>
<td>IA-909</td>
<td></td>
</tr>
</tbody>
</table>

## ACCESSORIES

**Impactor collection plate set, 14pcs**
Spare set of impactor collection plates. Incl. 14 pcs of ELPI®+ impactor collection plates and a storage case.

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1322</td>
</tr>
</tbody>
</table>

**Storage case for ELPI®+ collection plates**

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1379</td>
</tr>
</tbody>
</table>

**Sintered collection plate set, 14 pcs**
Sintered collection plates to prevent impactor overloading and particle bounce. Sintered collection plates allow 10 or 20 times longer measurement times without need to clean the impactor.

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1369</td>
</tr>
</tbody>
</table>

**Dekati® Sample Conditioning and Dilution Instruments**

All Dekati® Sample conditioning and dilution instruments are compatible with ELPI®+:
- Dilution systems w/o heating for variable sample conditions
- Volatile particle removers including evaporation tubes and catalytic strippers
- Sample dryers
- Heated sampling lines
- Pre-separator inlets including cyclones and ambient air inlets
- Isokinetic sampling nozzles
- High temperature sampling probes
- Etc.

Some examples are presented in the following pages.
<table>
<thead>
<tr>
<th><strong>Dekati® Diluter</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>For diluting the sample with 1:8 dilution factor</td>
<td><strong>DI-1000</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dekati Double Diluter</strong></td>
<td><strong>DI-2000</strong></td>
<td></td>
</tr>
<tr>
<td>Two stage dilution system with two Dekati® Diluters</td>
<td><strong>DI-2003</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Accessories for full setup for exhaust measurements:</strong></td>
<td><strong>DI-2001</strong></td>
<td></td>
</tr>
<tr>
<td>230 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110 V</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Dekati® Cyclone</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-separator cyclone for removing particle &gt;10 µm from the sample</td>
<td><strong>SAC-65</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Dekati® DEED</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>For conditioning exhaust sample according to EURO6 regulation.</td>
<td><strong>DEED-100</strong></td>
<td></td>
</tr>
<tr>
<td>230 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DEED-300 High Pressure Diluter</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dilution system for sampling from high pressure conditions</td>
<td><strong>DEED-300</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Dekati® eDiluter™</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-stage, compact dilution system with first dilution stage heated and fixed dilution factor.</td>
<td><strong>eDiluter230</strong></td>
<td></td>
</tr>
<tr>
<td>230 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dekati® eDiluter™ Pro</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two-stage, compact and versatile dilution system with first dilution stage heated and adjustable dilution factor</td>
<td><strong>eDilpro230</strong></td>
<td></td>
</tr>
<tr>
<td>230 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110 V</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Heated sampling line
Incl. perforated probe and connectors
- 1.5 m, 230 V
- 1.5 m, 110 V
- 3 m, 230 V
- 3 m, 110 V

<table>
<thead>
<tr>
<th>Length</th>
<th>Voltage</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 m</td>
<td>230 V</td>
<td>DEED-150</td>
</tr>
<tr>
<td>1.5 m</td>
<td>110 V</td>
<td>DEED-150D</td>
</tr>
<tr>
<td>3 m</td>
<td>230 V</td>
<td>DEED-150C</td>
</tr>
<tr>
<td>3 m</td>
<td>110 V</td>
<td>DEED-150B</td>
</tr>
</tbody>
</table>

### Heated probe, 1 m
For sampling from max 600 °C
- 230 V (also available as 2 m version)
- 110 V
Can be operated with temperature controller DR-1623/DR-1611.

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>230 V</td>
<td>ELA-460</td>
</tr>
<tr>
<td>110 V</td>
<td>ELA-460B</td>
</tr>
</tbody>
</table>

### Temperature controller
Temperature controller to operate ELA-460/ELA-460B. Same controller for the Dekati® Cyclone heater and Dekati® Diluter heater.

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>230 V</td>
<td>DR-1623</td>
</tr>
<tr>
<td>110 V</td>
<td>DR-1611</td>
</tr>
</tbody>
</table>

### Sampling probe set for isokinetic sampling
Set incl. 11 pcs stainless steel sampling probes (3.45-3.81-4.16-4.57-5.0-5.46-5.92-6.71-7.62-8.69-9.9 mm)
Sampling probes can be directly connected into SAC-65 sampling cyclone inlet (R3/8") or IPR-500.
Set includes also 11 pcs Cu gaskets 17/21x1.5 mm
One nozzle from SAC-100 set

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAC-100</td>
</tr>
<tr>
<td>SAC-0010</td>
</tr>
</tbody>
</table>

### Dekati® Stack Emission Dryer
To remove humidity from the sample
- 120 cm
- 120 + 60 cm

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD-120</td>
</tr>
<tr>
<td>DD-126</td>
</tr>
</tbody>
</table>

### TSP Inlet for ambient air measurements
Suitable for both 10 and 30 lpm

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPR-126</td>
</tr>
<tr>
<td>Product Description</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>PM10 inlet for ambient air measurements</td>
</tr>
<tr>
<td>EN 12341 PM10 inlet downscaled to 10 lpm</td>
</tr>
<tr>
<td>Dekati® Dryer for ambient air measurements</td>
</tr>
<tr>
<td>Complete setup with PM10 inlet and connectors</td>
</tr>
<tr>
<td>ELPI®+ CONSUMABLES</td>
</tr>
<tr>
<td>Collection substrates</td>
</tr>
<tr>
<td>Aluminium foils, 300 pcs, Ø25 mm</td>
</tr>
<tr>
<td>Collection foils for ELPI®+ impactor stages</td>
</tr>
<tr>
<td>Greased aluminium foils, 100 pcs, Ø25 mm</td>
</tr>
<tr>
<td>Pre-greased with Apiezon-L</td>
</tr>
<tr>
<td>Polycarbonate collection foils, 100 pcs, Ø25 mm</td>
</tr>
<tr>
<td>Collection foils for ELPI®+ impactor stages, suitable for chemical analysis</td>
</tr>
<tr>
<td>Substrate greasing</td>
</tr>
<tr>
<td>Apiezon-L grease</td>
</tr>
<tr>
<td>Impactor foil grease 10 g incl. mixing jar 1:20. Max 100 °C.</td>
</tr>
<tr>
<td>Dekati® Collection Substrate Spray</td>
</tr>
<tr>
<td>For fast greasing of the collection substrates. Stencil not included.</td>
</tr>
<tr>
<td>Hazardous material, needs special packaging/transportation.</td>
</tr>
<tr>
<td><strong>Dekati</strong>® 25 mm stencil</td>
</tr>
<tr>
<td>--------------------------</td>
</tr>
<tr>
<td>For greasing of 15 foils at one time with the Collection Substrate Spray.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Apiezon-H grease</strong></th>
<th>AG-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impactor foil grease 25 g, max 200 °C</td>
<td></td>
</tr>
</tbody>
</table>