### 1. Safety instructions

Caution: danger of overturning or breakage if used in an improper manner.

- Place your foot firmly on the stirrup provided for this purpose.
- Do not put your weight on or bend over the pump or the piston rod.
- Carefully select the distance between the pump and the experimental apparatus to ensure that the vacuum hose is not ripped out or disconnected.

### 2. Description

The piston vacuum pump can be used for all vacuum experiments in which a final pressure of 400 hPa is required.

This vacuum pump operates on the principle of a double-stroke piston pump. Air is pumped out of the experiment apparatus both during the upward and the downward movement of the piston.

#### 2.1 Scope of delivery

1. Piston vacuum pump
2. Vacuum hose, 5 mm diam.
3. Technical data

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<table>
<thead>
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<tbody>
<tr>
<td>Final pressure:</td>
<td>400 hPa</td>
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<tr>
<td>Hose connection:</td>
<td>5 mm diam.</td>
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<tr>
<td>Dimensions:</td>
<td>160 x 235 x 560 mm³</td>
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<tr>
<td>Weight:</td>
<td>approx. 1.7 kg</td>
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4. Maintenance

Make sure that the sealing rings are always properly lubricated. To do so, carry out the following steps:

- Unscrew the lid and remove it along with the piston. If necessary, clean and lubricate these components.
- While reassembling, insert the piston properly. Make sure that the components are assembled to fit perfectly before screwing them on (also see the instructions printed on the pump).