

## Piston vacuum pump U8421210

### Instruction sheet

10/10 ALF



- 1 Vacuum hose
- 2 Foot stirrup
- 3 Pump housing
- 4 Hose connection
- 5 Handle

### 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
- 1 Vacuum hose, 5 mm diam.

### 3. Technical data

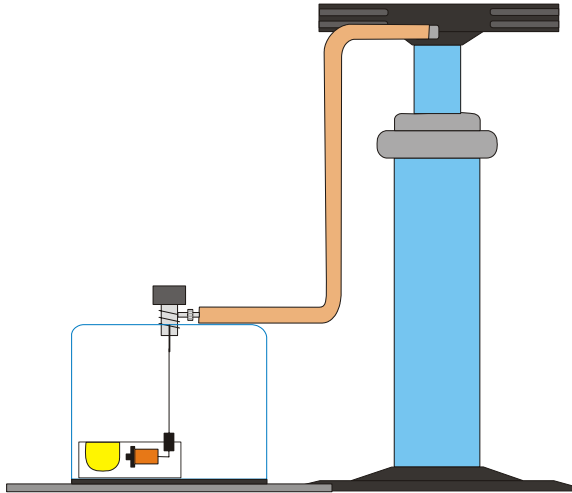
Final pressure:	400 hPa
Hose connection:	5 mm diam.
Dimensions:	160 x 235 x 560 mm <sup>3</sup>
Weight:	approx. 1.7 kg

## 4. Sample experiment

### 4.1 Propagation of sound waves in air

In order to conduct this experiment, the following apparatus is additionally required.

1 Vacuum cylinder	U8421230
1 Base plate	U8421225
1 Electric doorbell	U21854
1 AC/DC Power Supply	U33030
Experiment leads	



## 5. 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).