

## Determining of Gas Quantities

Apparatus for determining the quantities of gases, produced during combustion in a combustion vessel according to method Dr. Schmidt.



The equipment consists of:

- ✓✓ Stable stand
- ✓✓ Glass container of a volume of about 3000 ml (the exact volume will be determined after manufacturing)
- ✓✓ Digital vacuum meter
- ✓✓ Holding device for 25 ml combustion vessel (used in combustion calorimeter MS10HE for determining heat of explosion)

Basically, the quantity of gases is determined by measuring the difference in starting pressure and final pressure. •

The quantity is then calculated by the formula:

$$V_G = \frac{P_0 \cdot V_T \cdot T_G}{P_1 \cdot 273 K}$$