



## CYCLONE SEPARATION TRAINER



**DL PSQ12**

This equipment is widely used in the industry and allows the separation by centrifugal force of solid particles suspended in a gas.

Its operation is simply based on the separation of the particles by means of the centrifugal force.

Without having movable parts, it has a very simple maintenance, but as inconvenience we can emphasize that it is not flexible to the changes of concentration, flow, or size of the particles.

It is designed to study how cyclones, which are gas cleaning devices with particles, remove these from the gas flow.

### **TRAINING OBJECTIVES**

- View and study the operation of a centrifuge separation equipment.
- Determination of the loss of charge for clean gases.
- Determination of the pressure loss as a function of the concentration of solids in the gas.
- Calculation of the efficiency of a cyclone.

### **Included accessories**

- Funnel.
- Shovel.
- 1000 ml beaker.
- Scale.
- Stopwatch.
- Industrial suction equipment.

### **TECHNICAL DATA**

#### ***Cyclone***

- Approximate height: 265 mm,
- Lower diameter: 40 mm,
- Greater diameter: 113 mm,
- Approximate discharge tube diameters: 55 mm.

#### ***Airflow***

- Volumetric flow rate: 20 at 100m<sup>3</sup>/h.

#### ***Digital indicators***

- Temperature,
- Differential pressure.

#### ***Analogic indicator***

- Rotameter for measuring air speed.

#### ***Tank***

- With quick couplings for easy mounting and dismantling.

#### ***Filter***

- For total particle control.

#### ***Requirements***

- Power supply: single-phase from the mains, 50/60Hz.
- Sands for different granulometries.