



*Non contractual photo*

**SERVICE : PRECISION BALANCE 0,1 G - 2 KG VACUUM ; 220V - 2 KW WATER HCL GAS, SODA (FOR TE1020 PACKAGE)**  
**DIMENSIONS : TE 1000 : 2400 X 600 X 2200 MM / TE 1010 : 1900 X 600 X 1700 MM / TE 1020 : 500 X 600 X 2200 MM**  
**WEIGHT : TE1000 : 160 KG / TE1010 : 80KG / TE1020 : 80 KG**

## REFERENCE : TE1000

The general awareness of air pollution problems, such as urban pollution, the greenhouse effect, acid rain, or the depletion of the atmospheric ozone layer, has led to the development of more and more standards. severe. These standards for discharges into the atmosphere concern a large number of industrial processes: incineration (household waste, industrial waste, etc.), thermal power stations (fuel, gas, coal, etc.).

Thus, today, all industries must have treatment processes adapted to their fumes, report on their efficiency and possibly be able to adapt to more stringent standards.

The TE1000 fume treatment pilot provides a better understanding of the pollutants present in the fumes; and to study several treatment processes: filtration, cyclone separation, absorption.

It can be ordered in its complete version TE1000, or in the version TE1010 "Study of filtration and cyclone separation", to which it is possible to add the TE1020 "Absorption study" at a later date.

Study of the losses of load of the elements of the air circuit  
Determination of the efficiency of filters and their clogging according to the particle size of the dust.  
Determination of the efficiency of the cyclone according to the particle size of the dust, the air flow and the losses of charges.  
Study of column operation (NUT, HUT, K)  
Study of the hydrodynamics of the column  
Study of the neutralization of liquid discharges  
Determination of the efficiency of the absorption column as a function of the acid gas concentration and the flue gas velocity.

### Technical specifications :

- Together for the study of filtration and cyclone separation, TE1010
- 1 centrifugal blower
- 1 flow meter for air: pitot type with associated pressure gauge
- 1 variable flow dust injection system
- 1 cyclone made of borosilicate glass
- 1 two-drawer filter box with filter set
- 2 U-tube manometers for measuring pressure losses
- 1 set of dust of various grain sizes
- Together for the study of absorption, TE1020
- 1 packed column Raschig
- 2 tanks of neutralization of the liquid discharges
- 2 flow meters for water for HCL