Cyclone
software package

A SOFTWARE TOOL FOR GAS/SOLID
CYCLONE SEPARATORS DESIGN

Cyclone 2.0 is a software tool
for gas/solid separation.

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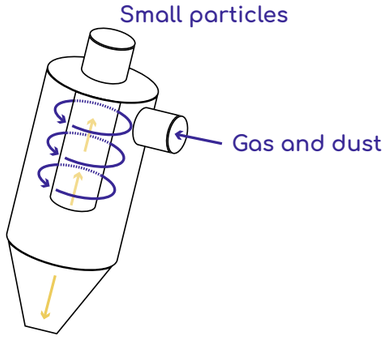
Based on rotational effects and gravity force, the cyclonic separation is a method for removing solid particles from air or gas streams.

Cyclones are the principal type of gas-solid separator used because of their easy construction, low cost and ability to operate at high temperatures and pressures.



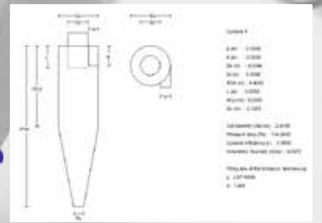
METHODS

Input two or three of these parameters:
a. Volumetric flow rate [from 10^{-4} to 1 000 $m^3 .s^{-1}$]
b. Cyclone diameter [from 0.01 to 3 m]
c. Cut diameter [from 0.2 to 20 µm]
d. Cyclone efficiency [from 0 to 100%]
e. Pressure drop [from 10 to 1 000 Pa]

CALCULATIONS MODELS

Choose a model:
- Bart model
- Leith and Licht model
- Möthes and Löffler model
- Lorenz model
- Muschelknautz model

CYCLONE 2.0



RESULTS

- Cyclone design
- Cut diameter
- Pressure drop
- Cyclone efficiency
- Volumetric flow rate

MULTI-CYCLONE COMBINATION

The software offers the possibility to develop a complex network of cyclones, with arrangement of several series and/or parallel configurations to optimize separation efficiency.

A SIMPLE AND USER FRIENDLY SOFTWARE PACKAGE

A user friendly interface permits easy input of available data and vizualization of the cyclone to be studied. The simulated results and new cyclone design appear on the screen immediatly after the calculation.

The user can at any time save or load the software configuration state.

THE CYCLONE 2.0 SOFTWARE PACKAGE RUNS UNDER ALL WINDOWS OPERATING SYSTEMS

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