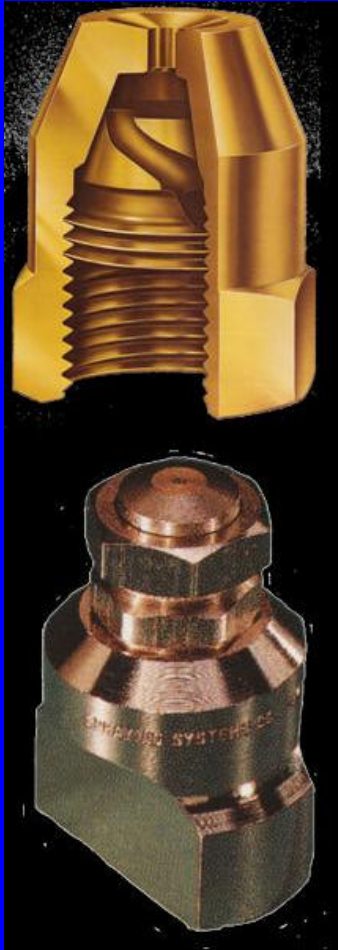


**Atomizer Nozzles: Selection and Testing of Commercial Nozzles for Many Uses & Also Designing Atomizers to Suit Application**



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PERDAC: Excellence in  
Consultancy, Research and  
Specialist Short Courses

## OUR SPECIALIST ENGINEERING CONSULTANCY SERVICES

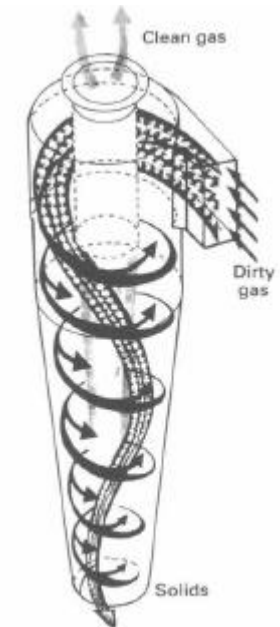


Fig. 11.11 Schematic of a cyclone.

**PERDAC Ltd**

[www.perdac.com](http://www.perdac.com)

## HIGHLIGHTS OF PERDAC CONSULTANCY AND R&D SERVICES

### HOW WE PROVIDE OUR SERVICES-

Perdac consists of a team of Directors, Project Officers and Consultants with expertise that stretches across most fields of Industrially Related Fluid Dynamics.



We can provide our services by several routes including:

- One to one consultancy, attending meetings, brain-storming etc.
- Short experimental or measurement programmes, or intermittent routine repeat testing of flow devices or spray nozzles to specified tolerances.
- Calculations or computer modelling to analyse a problem or design or improve a flow system.
- Longer experimental programmes (a few months or more) with firm objectives (payment by results element possible)
- Development programmes, combining design, construction and testing.

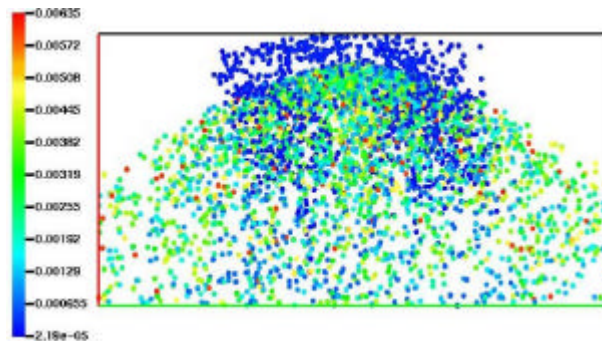
### OUR RESOURCES

Our staff and consultants are highly trained and qualified, with considerable experience working with industry in R&D and consultancy. At the highest level they are internationally known researchers, working independently or at leading university research laboratories. Their expertise currently covers the following fields, however do not hesitate to contact us if your area does not coincide with one of these:

- Industrial processes and equipment involving fluid flow including with heat and/or mass transfer and mixing.
- Two-phase flows, including spray systems (aerosols, pharma, agricultural, fuel, food processing, cooling, coating etc).
- Measurement and experimental methods, design and development.
- Calculation including Computational Fluid Dynamics (CFD).

Perdac supports the Spray Research Group labs at Salford University, with state-of-the-art rigs and equipment, and we can arrange for measurement programmes to be undertaken in these labs.

We provide services at a reasonable costs and with understanding of the needs of industry.



Water sprinkler spray predicted using CFD



### SOME EXAMPLE PROJECTS

- New generation household aerosols and sprays (see separate leaflet)
- Sprays for new confectionary products
- Characterising sprays for mass spectrometers
- Improving and characterising oil burners
- Multi-spray plant with extract, for coating process
- Fine spray coating of medical devices



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