

HIGGINS & HEWINS

Air and Gas Purification Systems

ODORGARD

A Chemical wet scrubbing system for Odour Control.
Enhanced performance through ICI technology.



29,000M³/HR Odorgard unit supplied to Southern Water

Pioneered technology from ICI -

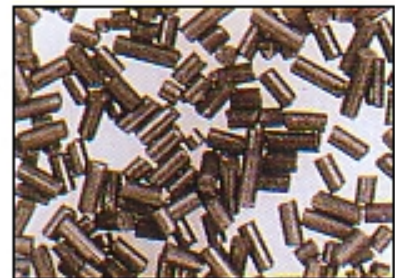
- Single scrubbing tower only now required instead of 2 or 3
- Exceptionally low chemical costs
- Enhanced removal efficiency through action of Patented ICI Catalyst (99.99%)
- Most application will require no final polishing

Guaranteed Performance

- Achieved immediately on start up
- Even after long periods of shut down
- Throughout all weather conditions
- Following a sudden increase in challenge

Simple Design

- Fully packaged system
- Minimum of floor space required
- Short delivery period
- Simple service requirements



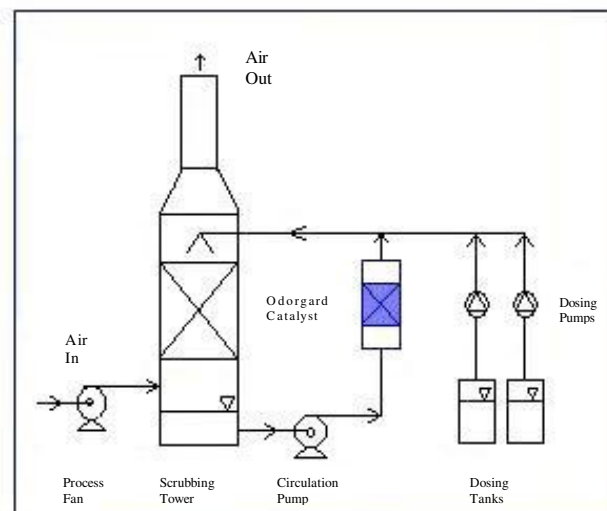
Odorgard Catalyst
(Actual Size)

Description of Process

Conventional wet scrubbing systems can use up to 3 scrubbing towers. Acid, sodium hypochlorite and caustic soda are required for the 3 stages. With Odorgard only 1 tower is required which uses both sodium hypochlorite and caustic soda.

The circulating solution is passed through the Odorgard patented nickel catalyst which activates the oxygen in the hypochlorite solution. The oxygen is now more available for reacting with the odorous compounds. The reactions are very fast allowing little opportunity for side reactions. The waste products from the chemical reactions are completely non-hazardous and can normally be discharged into a land drain.

The addition of chemicals by the dosing pumps is fully automatic and can respond rapidly to a sudden increase in challenge.



Retrofit Conversions

Existing caustic/hypochlorite scrubbers can often be retrofitted with an Odorgard package. This will result in an immediate reduction in chemical consumption costs and an improvement in odour removal efficiency. Normally, the cost of conversion would be recovered within the first 12 months in operation.

Typical Sewage Works Applications

Sludge Holding Tanks
Press House
Inlet Works
Rising Mains
Wet Wells

Other Applications

Paper Mills
Food Processing
Pharmaceutical
Chemicals

Information We Need For Budget Pricing

New Works

1. Source of air to be treated.
2. Airflow rate, maximum and minimum.
3. H₂S, mercaptan, ammonia and other gas concentrations.
4. Final air quality to be achieved.
5. Inside or outside location.
6. Any noise or height restrictions.
7. Electrical rating or zoning required.

Retrofit Conversions

1. Full details of existing wet scrubbing process.
2. Historical records showing incoming and outgoing gas concentrations.
3. Historical records showing chemical consumption rates.

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