

**Ecodor**

Energieweg 16, Postbus 161, 3130 AD VLAARDINGEN  
Tel. +31 (0) 10 248 11 22, Fax: +31 (0) 10 248 11 20  
E-mail: info@ecodor.nl, Internet: http://www.ecodor.nl



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**Metal foundry**

At the moulding and semi-automatic machine, where sand is dusted off the casting moulds, metaline and phenol odours are released. As this factory is situated in a residential area, there were many complaints from neighbours. Two identical Ecodor atomizers were placed near both machines. Six nozzles per machine treat the extracted gas in a closed pipe system, which neutralises smell of the exhaust gas by an average of 97%, according to certified odour measurements.

Installation type: compressed air misting unit  
Number: 2x6 nozzles  
Delivery: December 1998  
Product: Ecodor EC250

**Pharmaceutical industry**

At a water purification plant: one installation is placed to treat the air inside and outside the water purification building. One nozzle odour from the sludge thickener and four nozzles treat the area where the filter press is located. Five further nozzles are placed outside and neutralise the smell of the sludge.

Installation type: compressed air misting unit  
Number: 10 nozzles  
Delivery: January 1997  
Product: Ecodor EC250

**Sewage water purification plant (municipal)**

Using 35 nozzles the smell produced by the augers, the sand trap and the settling basin is considerably reduced for the surroundings. A temperature sensor drives the installation, so the nozzles only work at temperatures above 21°C.

Installation type: compressed air misting unit  
Number: 35 nozzles  
Delivery: May 1998  
Product: Ecodor EC250

**Abattoir**

Cattle abattoir: an installation was purchased to reduce odour nuisance caused by the fat rendering plant. Five nozzles were placed inside to reduce the smell as much as possible for the biofilter. Another four nozzles were placed higher than the biofilter to neutralise the remaining odours.

Installation type: compressed air misting unit  
Number: 9 nozzles  
Delivery: June 1998  
Product: Ecodor EC250

**Shrimp boiling plant**

Installation to combat the persistent fish smell produced by shrimp treatment. Six silent nozzles were placed. Three nozzles were placed inside and spray the area near the shrimps, underneath the air extraction system. Outside three nozzles with a tracer (against freezing) were placed. One nozzle is located near the filler and another two in the air extraction system outlet.

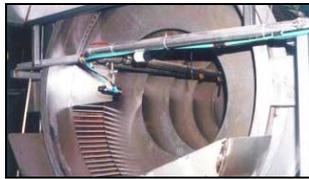
Installation type: compressed air misting unit  
Number: 6 nozzles  
Delivery: September 1997  
Product: Ecodor EC250

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**Onion cutting plant**

In sections where onions are cut, employees often have problems with onion odours, firstly the strong smell when the onions are cut, secondly irritation to the eyes caused by the onion smell. Two nozzles are placed near the cutter, which reduce the odours and eye irritation.

Installation type: compressed air misting unit  
Number: 2 nozzles  
Delivery: April 1998  
Product: Ecodor EC250

**Fodder plant**

Odours are produced during chicken fodder manufacture, mainly in the heating process. These smells are extracted and released into the open air via three chimneys. In each chimney Ecodor EC250 enzymes are injected by seven atomisers, to neutralize the air.

Installation type: compressed air misting unit  
Number: 3x7 nozzles  
Delivery: January 1998  
Product: Ecodor EC250

**Fat storage**

When storage containers are filled or emptied with (vegetable) fats, smells are released. Using overpressure in the container the air is neutralised via an insulated contact compartment by our enzyme deodoriser Ecodor EC250.

Installation type: compressed air misting unit  
Number: 3 nozzles  
Delivery: March 2000  
Product: Ecodor EC250

**Chicken hatchery**

Installation to combat the strong ammonia manure smell released during air extraction. 14 high-pressure nozzles were placed in a contact compartment to neutralise the smell.

Installation type: high-pressure misting unit  
Number: 14 nozzles  
Delivery: December 1999  
Product: Ecodor EC250Z

**Pig abattoir, slaughter waste treatment and rendering plant**

Waste products from pig slaughtering are heated in ovens. In the fat rendering plant where these ovens are located, the air is treated at several places before after treatment in the biofilters. Odour produced by slaughter waste storage is treated at the same time.

Installation type: compressed air misting unit  
Number: 10 nozzles  
Delivery: January 1996  
Product: Ecodor EC250

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**Waste treatment**

Refuse lorries dump household waste in collection bunkers at the household waste treatment plant. Cranes transport this waste to the combustion ovens. This generates large amounts of dust and odours. Five misting fans, which spray Ecodor EC250, are used to neutralise the smell. Ecodor is responsible for the total maintenance, including changing the barrels.

Installation type: dosing unit  
Number: 5 misting fans  
Delivery: October 1999  
Product: Ecodor EC250

**Transport company**

Wastewater produced when tank lorries are cleaned is conducted through a biological water purification unit where it is purified. In the aeration tank of the purification unit  $H_2S$  and  $NH_3$  odours are released, which are neutralised by four nozzles and enzyme deodoriser EC250Z.

Installation type: compressed air misting unit  
Number: 4 nozzles  
Delivery: October 1999  
Product: Ecodor EC250Z

**Processing and storing contaminated soil**

When soil is excavated near places where contaminated soil is stored or transported, odours are released into the surroundings. As soil is not always stored in one place, a mobile 20-foot deodorising unit is used. A sea-container housing a water supply can deodorise for approximately 60 hours. The odours are neutralised by misting fans on the roof of the container, which spray a mixture of Ecodor/water.

Installation type: mobile deodorising unit  
Number: 4 misting fans  
Delivery: October 2000  
Product: Ecodor EC250

**Composting installation**

Air from compost storage sheds is extracted and emitted into the open air via gas washers and biobeds. After the biobeds an Ecodor deodorising unit is installed as a post-deodoriser. This can be switched on/off as required, when odour emissions from the biofilters are too high in combination with an unfavourable wind direction. In this case one high-pressure misting unit with 64 nozzles is used.

Installation type: high-pressure misting unit  
Number: 64 nozzles  
Delivery: March 2000  
Product: Ecodor EC250

**Waste treatment**

Inside the organic waste storage facility an Ecodor deodorising unit is installed to reduce the existing smells. Three misting fans (one with an oscillator) treat the organic waste. 22 nozzles treat the remaining air inside the facility.

Installation type: 2 misting units  
Number: 3 misting fans and 22 nozzles  
Delivery: November 2000  
Product: Ecodor EC250

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### Compound feed factory

Manufacture of compound feeds (cattle pellets) generates production odours, mainly in the heating process. These odours are extracted and released into the open air by two chimneys. In each chimney 12 nozzles inject Ecodor EC250 enzymes which neutralise the outgoing air.

Installation type: compressed air misting unit  
Number: 2x12 nozzles  
Delivery: June 2000  
Product: Ecodor EC250



### Parking Garage

In a parking garage in a large seaside resort there was a high level of odour nuisance caused by urine. An automatic Ecodor deodorising unit was placed to combat the persistent urine smell in the garage. Ecodor enzyme product UF2000 is sprayed in 17 garages for several minutes per hour.

Installation type: mid-pressure unit  
Number: 34 nozzles  
Delivery: December 2000  
Product: Ecodor UF2000



### Horticultural sheet storage

Plastics and sheeting used in horticulture and agriculture and then stored, contain traces of organic substances (waste materials), which are decomposed by microorganisms. The heat involved in this process produces decomposition products with a typical smell that diffuse into the air. This leads to odour nuisance in the area surrounding the storage deposit. An Ecodor deodorising unit was placed to combat the odours.

Installation type: 2 misting units  
Number: 2+5 misting fans  
Delivery: May 2000  
Product: Ecodor EC250



### Abattoir

Inside the cold store where slaughter waste is kept, odours can cause many problems for employees. This area was fitted with a compressed air assisted misting unit that sprays Ecodor EC250 enzymes for 5 minutes at 10 minute intervals to neutralise the smell.

Installation type: 1 misting unit  
Number: 4 nozzles  
Delivery: August 2000  
Product: Ecodor EC250



### Tunnel building

When railway tunnels are constructed, excavated soil is transported to the surface via a conveyor-belt. High concentrations of ammonia (values of approximately 45 ppm) are released by this soil. By placing two misting fans that spray Ecodor EC250 under the conveyor-belt cover, the ammonia level is reduced to values of 10-15 ppm.

Installation type: 1 misting unit  
Number: 2 misting fans  
Delivery: November 2000  
Product: Ecodor EC250Z

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### Export Abattoir

Exhaust gas periodically released from the purification unit must be deodorised effectively. To ensure correct treatment of the exhaust gas, 5 misting fans are placed on the footbridge, which spray Ecodor EC250 product. This guarantees effective deodorization of the exhaust gas before the air is released into the surroundings (in this case a residential area).

Installation type: 1 misting unit  
Number: 5 misting fans  
Delivery: December 1999  
Product: Ecodor EC250



### Abattoir

In the silo of an abattoir where cattle slaughter waste is stored, bad smells are often a nuisance for the neighbours. This silo was fitted with a compressed air assisted misting fan which regularly injects colour and deodorising liquid Ecodor SL-Blue, in order to colour the and neutralise the smell at the same time.

Installation type: 1 misting unit  
Number: 2 nozzles  
Delivery: August 1999  
Product: Ecodor EC-Blue



### Processing and storing contaminated soil

When soil is excavated near places where contaminated soil is stored or transported, odours are released into the surroundings. As soil is not always stored in one place, a mobile 20-foot deodorising unit is used. The odours are neutralised by misting fans on the roof of the container, which spray a mixture of Ecodor EC250/water.

Installation type: mobile deodorising unit  
Number: 2 misting fans  
Delivery: November 2001  
Product: Ecodor EC250



### Water purification plant

With storage and transport of horticulture sheeting percolate water is led through a water purification plant. Two misting fans placed inside the reservoirs spray a mixture of Ecodor/water, which neutralises the smells released when water is introduced into the basins.

Installation type: 1 deodorising unit (external housing)  
Number: 2 misting fans  
Delivery: November 2001  
Product: Ecodor EC250



### Compound feed factory

Manufacture of compound feeds (cattle pellets) generates production odours, mainly in the heating process. These odours are extracted and released into the open air by a central gas exhaust pipe. Inside this pipe, which is also used as a contact compartment, 7 x 2 nozzles inject Ecodor EC250 to neutralise the released air.

Installation type: compressed air misting unit  
Number: 2x7 nozzles  
Delivery: June 2002  
Product: Ecodor EC250

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**Processing and storing contaminated soil**

When soil is excavated near places where contaminated soil is stored or transported, odours are released into the surroundings. As soil is not always stored in one place, a mobile 10-foot deodorising unit is used. The odours are neutralised by misting fans on the roof of the container, which spray a mixture of Ecodor EC250/water.

Installation type: mobile deodorising unit  
Number: 2 misting fans  
Delivery: May 2002  
Product: Ecodor EC250

**Chicken manure processing plant**

In a factory where chicken manure is treated, the process air is first led through a scrubber, placed on the roof, in order to reduce high concentrations of ammonia. The remaining odour is neutralised by 12 compressed air assisted nozzles, located inside the gas exhaust pipe of the scrubber.

Installation type: compressed air nozzle unit  
Number: 12 nozzles  
Delivery: May 2002  
Product: Ecodor EC250

**Plastic processing plant**

In a storage area where plastic is cleaned and shredded there are odour problems. These odours are reduced to an acceptable level using four misting fans, which spray diluted EC250.

Installation type: misting fan unit  
Number: 3 misting fans  
Delivery: July 2002  
Product: Ecodor EC250