

Industrial air purification




LESNI[®]
The Air Purification People

Industrial air purification

Safe and efficient exhaust air purification

Let us participate in carrying out your environmental policy

We solve your exhaust air problems as effectively and economically as possible

LESNI A/S specialises in providing standard technology packages and innovative solutions for waste air purification. Our target is to remove & deplete irritating odour emissions, toxic gases, solvents, dust and aggressive gases.

LESNI tailor made systems are designed and engineered with customer specification in mind, to meet local and international legislations and standards with great emphasis to safety, reliability and energy conservation.

For the past 20 years, we have designed, supplied and installed more than 800 air purification plants throughout Europe, America, Asia and Australia. These high-tech installations cover a wide spectrum of air volumes ranging from 50 m³/h to 400,000 m³/h.



Business areas

- Drug production
- Pharmaceutical production
- Sterilisation plants
- Printing machines
- Lamination presses
- Solvent handling
- Food production
- Feedstuff production
- Waste incineration plants
- Surface treatment plants
- Fibre glass production
- Plasticisers
- Metallurgical industry
- Smokehouses
- Tank installations
- Drying of waste & WEEE Recycling

Pollution problems

- Solvents
- Odour substances
- Dust particles
- Aerosols
- Chlorinated hydrocarbons
- Organic hydrocarbons
- Inorganic substances
- Inflammable & toxic gases
- Other environment straining exhausts
- Ozone depleting substances

Air Purification

- Oxidation**
 - Thermal
 - Regenerative
 - Catalytic
 - DeNOx -SCR systems
- Adsorption**
 - Activated carbon
 - Zeolite
 - Solvent recovery
- Absorption**
 - Chemical scrubbers
 - Balancer
 - Venturi scrubbers
- Dust filtration**
 - Particle filters
 - Mist eliminators



We have designed, supplied and installed complete air purification plants all over the world.

Experience

We have solved problems for practically speaking all kinds of industrial and production processes, in some very stringent environment conditions and very demanding legislations.

Our people have a long history of delivering abatement and air purification solutions; covering main technologies for a number of industries. In fact any processing or manufacturing industry is a potential user of LESNI air purification solutions, the pharmaceutical, medical devices, semi-conductor, chemical, food, printing and coating, waste and recycling being our core customer groups.

Know-how

We have an extensive and profound knowledge of the market – and through this a detailed know-how regarding the strengths and weaknesses of the various technologies. This know-how enables us to evaluate with certainty their actual efficiency and suitability in solving the various problems.

At the same time, we have precise knowledge of all the economical factors needed to calculate and evaluate installation costs and running costs.

Through our activities we have built up extensive contacts with colleagues all over the world.

In Europe as well as in the USA and Asia we have direct co-operation with leading firms within industrial air purification. This ensures we continuously monitor product developments, evaluate advantages, implement and re-engineer business practices and knowledge.

Routine

We always work determinedly towards a complete clarification of all conditions in an air purification problem. In close co-operation with the client, we then design the installation representing exactly the optimum solution of the requirements specified – as economically as possible. In this field we have several years of solid proven practice.

LESNI air purification

- Consultancy
- Measurement of emissions
- Design of installations
- Supply of components
- Loan/lease of pilot plants
- Supply of installations
- Turnkey deliveries
- Maintenance services
- Inspection & spares

Contact LESNI

Discuss your possibilities with a LESNI specialist – and request estimates or tenders

Head Office, Denmark:

Call: +45 7533 2500
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Destruction of PAH



Carbon paste industry

Recuperative thermal oxidising plant
for air purification of solvents.
Air flow capacity: 9,000 m³/h

Combustion of solvents



Pharmaceutical production

Regenerative thermal oxidising plant
for the purification of exhaust air
containing solvents and odours.
Purification capacity: 30,000 Nm³/h

Elimination of toxic gases



Sterilisation of medical devices

Double catalytic abator installation for
the purification of exhaust air containing
ethylene oxide.
Purification capacity: 15,000 Nm³/h

Adsorption of styrene vapours



Fibre glass production

Activated carbon installation for the purification of exhaust air with a low solvent inlet concentration.
Purification capacity: 90,000 Nm³/h

Recovery of solvents



Production of fine chemicals

Activated carbon adsorption plant for the purification of exhaust air and recovery of high value solvents.
Air flow capacity: 10,000 Nm³/h

Absorption of industrial gasses



Semi conductor industry

Chemical gas scrubbing for the purification of exhaust air containing SiCl₄, SiH₄, SiHCl₃
Air flow capacity: 1,000 Nm³/h

Odour and VOC destruction



Food industry

Catalytic oxidation unit for the purification of exhaust air from a meat smoking plant.
Air flow capacity: 2,000 Nm³/h

Toxic and odour



Waste water treatment

Gas scrubbing and VOC destruction from drying of waste sludge.
Air flow capacity: 8,000 Nm³/h

VOC purification



Medical industry

Combined rotating concentrator with thermal oxidiser - **ConOx system** - for the purification of low solvent concentrated air.
Air flow capacity: 55,000 Nm³/h

VOC destruction



Plastic printing industry

Installation of a 3 chamber **Regenerative oxidiser** for the purification of solvents.
Air flow capacity: 40,000 Nm³/h

Odour elimination



Rendering industry

Installation of a **Regenerative thermal oxidiser with balancer** for treatment of odour from animal meat rendering.
Air flow capacity: 60,000 Nm³/h.

Activated carbon



Solvent and odour

Supply of **activated carbon filters** for the purification of exhaust air containing solvents.



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