

Your air. We care.

# Air Cleaning Systems



High performance Air Cleaning Systems for polluted exhaust air systems, stenters frames, coating machines and dryers

**System Koenig**

**Luwa**

# LUWA Systems for Industrial Air Cleaning

High efficiency • long live time • low maintenance • integrated solution

Nature relies on our consideration and responsible action.

With air cleaning technology from LUWA AG, you will be able to comply with the most stringent European and international environmental laws and regulations.

LUWA AG can supply a broad selection of modular solutions, tailor-made to fulfill your demanding requirements.

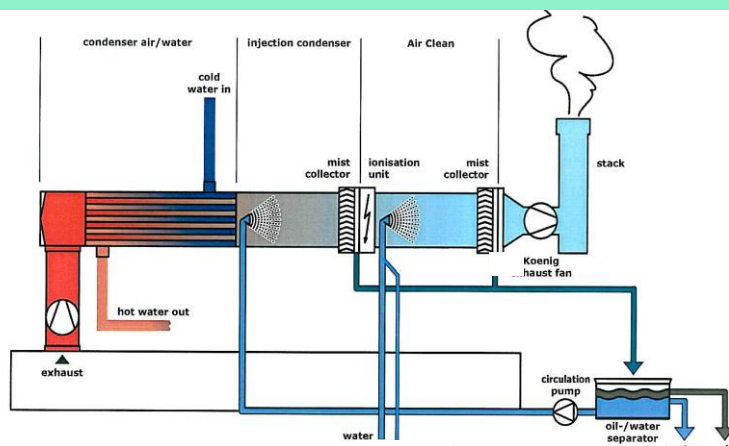
## Air Cleaning Equipment

The hot exhaust air passes through an **injection condenser**. The exhaust air cools down by evaporation cooling. Condensable hydro carbons, eg. oils and waxes, are condensing. Water soluble substances are dissolved in the water spray. The droplets are caught by the mist collector

The exhaust air then passes through an **ionisation unit** where particles receive an electric charge. In the subsequent condenser, water (without electrical charge) is injected. The positively charged pollutants, such as dust and oil particles, cling to the water drops. These particles then get separated from the exhaust air while passing through the final mist collector.

In the last stage, the cracked oil particles (blue smoke) pass through a high voltage **smoke terminator** where the particles collect at the discharge plates.

The waste water is flowing into a collection tank for separation of oil from water.



## Control system

No matter which process is running on your stenters frames, the control systems always attains optimum conditions.

## System integration

Our engineers are taking special care to integrate each air cleaning system into your process flow. Functionality and performance of your machines will not be affected by the LUWA system.

## Advantages

- ➔ Cleaning efficiency for condensable hydro carbons of up to 90%
- ➔ Special steel for longest live time
- ➔ Low maintenance due to automatic cleaning
- ➔ Control system for optimal performance
- ➔ Up to 4 stenters can be combined into one air cleaning unit

## Luwa (UK) Ltd

Wrigley St  
Oldham  
OL4 1HN

Tel: 0161 624 8185

Fax: 0161 626 4609

Email: [sales@luwa.co.uk](mailto:sales@luwa.co.uk)

[www.luwa.co.uk](http://www.luwa.co.uk)

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