



# Maintenance



## Maintenance offer of OTTO Engineering Polska Sp. z o.o.

We are pleased to present the offer of OTTO Engineering Poland Sp. o.o. covering the technical consulting, design, construction and maintenance of modern systems and technologies.

Regular and professional maintenance of your facilities guarantee their long-term, trouble-free and reliable operation. It allows you to extend the life of your equipment and maintain the pre-set work parameters.



## Why it is worth carrying out periodical inspections of ventilation and air-conditioning systems?

- Regulating devices, which are not systematically adjusted, cause considerable losses of energy (even when the user will immediately notice such fact).
- In accordance with the EU Regulation No. 2037/2000 – cooling systems must be regularly checked due to leakages. According to the requirements of the legislator, these inspections shall only be performed by qualified personnel within specified time limits.
- Fire dampers must be regularly maintained by qualified personnel (at least once a year).
- Damages to facilities, such as, for example, caused by improper switching the frost protection can be eliminated by recognizing them at the right time.
- You can prevent ageing of facilities and interruptions in their operation due to disturbances.
- Handling complex, technically highly developed, systems is complicated, if possibly existing customer's staff had to undertake the system maintenance – this would involve costly specialized training as well as the purchase of highly specialized equipment.



Below you can find a full range of maintenance services offered by our company.

## Range of maintenance services of OTTO Engineering Polska Sp. z o.o.

- Periodic maintenance of air conditioning systems,
- Periodic maintenance of ventilation systems,
- Periodic inspections of afterburning facilities,
- Inspections of biofilters and adsorbers
- Continuous surveillance and monitoring of the correct operation of systems,
- Calls for assistance in the event of failure.

## Maintenance services include, among others, the following systems and equipment:

### Maintenance of air conditioning and ventilation systems:

- Split, duct and precision air conditioners,
- Air handling units (including heat exchangers, humidifiers)
- Fans,
- Supply and replacement of filters.

### Cooling systems:

- Refrigeration units,
- Air conditioners,
- Heat pumps,
- Control and safety devices,
- Pipes and fittings, pumps.

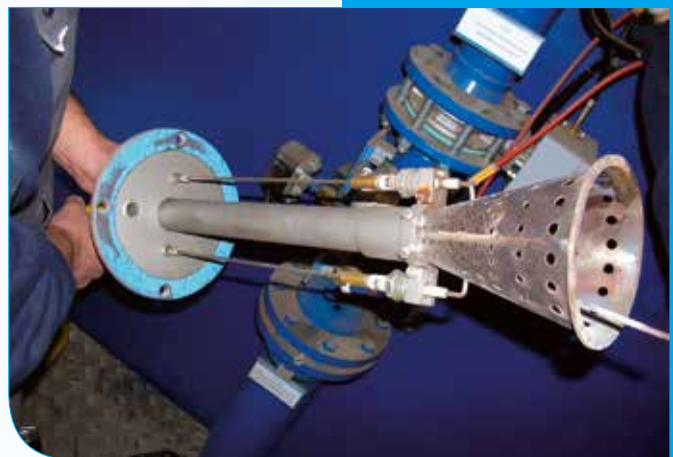
### Valves and shut-off devices (including fire dampers)

### Air purification plants:

- Biofilters,
- Water and chemical scrubbers,
- Absorbers.

### Automation and control systems:

- Control cabinets,
- Field devices (sensors)
- Regulators.





# Maintenance

## Thermal exhaust air purification equipment

- Inspections of catalytic oxidisers,
- Inspections of thermal oxidisers,
- Inspections of regenerative oxidisers.

We have properly trained staff and appropriate equipment to carry out periodic inspections, among others:

- VOC analyser,
- Exhaust gas analyser, for measurement of COx, NOx, SOx.

Example of the maintenance scope of thermal air purification equipment:

- Inspection of gas fittings,
- Quality control of combustion with an exhaust gas analyser,
- Inspection of fans,
- Inspection of heat exchangers,
- Inspection of control devices
- Inspection of a pneumatic system,
- Inspection of safety devices,
- Overall inspection and measurement of the level of pollution reduction with a VOC analyser.

Having made the periodic inspection, we prepare a detailed report that includes the descriptive and photographic part.

## Agreement on the provision of maintenance services

We can offer you long-term Maintenance Agreements that give you the assurance of operating reliability of devices, as well as the security in the form of the maintenance team group readiness at the time when a failure occurs.

## As part of the agreements for the provision of maintenance services, the following services are provided:

- Examination of the equipment for any possible energy savings and enhancements that will improve the operation of the equipment. Then, preparation of a suitable offer.
- The fastest possible preparation of an appropriate offer for repairing the equipment that has been recognized as damaged.
- Planning and designing reconstruction or extension of systems, if requested by the client.
- Training for the plant personnel responsible for operating the facilities to the extent possible in the course of maintenance works.

## OTTO TELESERVICE

In order to optimize the services offered to our customers, we developed a system of remote data transmission TELESERVICE, which has been incorporated into our service offering. With this solution, you can submit all relevant system data via modem connection with our office in Rzeszów. This allows us to solve most problems and to carry out operational inspections and checks of the control system without the cost of travelling and without the need of our personnel to be present on-site. We are confident that in a short time you will find many positive sides of this solution.

Review of our Teleservice solution:



- Troubleshooting,
- Supporting the start-up,
- Preparation for service,
- Fine adjustment of control systems over a longer period of time,
- Monitoring different manufacturing conditions for optimal use of the system,
- Direct changes as requested by the customer.

**We invite you to use our Teleservice solution!**

**24h SERVICE  
HOTLINE:  
+48 17 249 00 49**

# Leading technologies

# Individual solutions



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## References



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Utylizacji  
Odpadów Sp. z o.o.  
w Siedcach



**KLINGSPOR**

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**sanwil**  
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**BAGPAK**



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