

Lift shaft smoke extraction (LiSE) acc. to EnEV

*Cool down.
Fire Protection by*

MINIMAX

Product

- ▶ **Lift shaft smoke extraction system**
System for closure of permanent smoke outlet openings for lift shafts acc. to LBO as EnEV compliant solution for safe smoke extraction without unnecessary heat loss.
- ▶ **Control**
RWA centre with VdS approval for controls of smoke outlet openings. In case of detection of fire smoke the smoke outlet is opened. Simultaneously an elevator ride for evacuation to a smokeless floor is effected.
- ▶ **Smoke outlet opening**
The lift shaft smoke extraction resp. ventilation is effected by means of a light dome or a ribbed fan with electromotive drive (24 V DC).
- ▶ **Manual release**
In the area of the central access point the optional installation of a control panel RBH/3A is provided.
- ▶ **Smoke detection**
The automatic smoke detection is effected by means of smoke detectors, which are punctually arranged in the lift shaft, acc. to EN 54-7.
The automatic detector type MSD 523-E was especially developed for the application in a lift shaft.

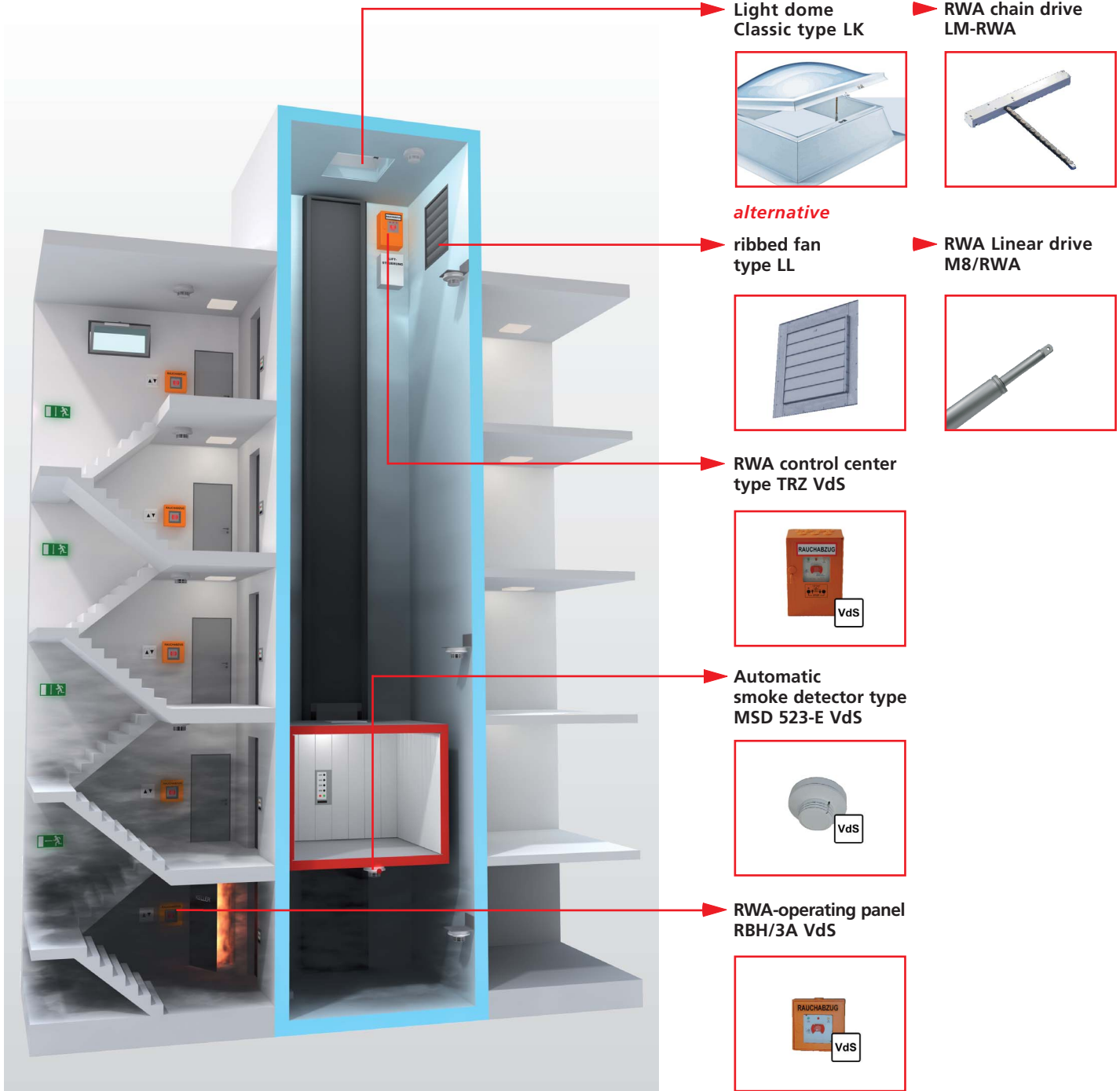
Application

- ▶ Up to now the smoke extraction in case of fire as well as the ventilation of lift shafts acc. to LBO have been effected through permanent openings. However there is a high energy loss due to these permanent gaps in the building insulation.

Furthermore § 5 of the regulation for energy saving (EnEV 2009) requires to seal heat-transferring surrounding surfaces (e.g. exterior walls, windows etc.) permanently airtight. Thus a permanently opened smoke outlet opening is no longer admissible.
- ▶ The lift shaft smoke extraction system works with a closed smoke outlet opening, which is opened by means of detection by automatic or manual detectors. That means, the opening is only opened if necessary – for controlled ventilation or for smoke extraction. So unnecessary energy and heat losses are avoided.

Your advantages

- ▶ Reliable smoke extraction of the lift shafts and compliance with the applying EnEV
- ▶ Proven system components, thereby an easy handling and cost-efficient purchase
- ▶ Easy and cost-efficient maintenance
- ▶ Low own electricity consumption, because there is no smoke extraction system
- ▶ Applicable independent of manufacturer and lift type
- ▶ Proof of suitability acc. to TÜV certificate
- ▶ Amortization by reduced energy costs
- ▶ Less draught in the staircase
- ▶ Low energy costs by avoidance of uncontrolled ventilation
- ▶ Positive effect to the building energy passport



▶ LiSE is safe and easy to use. The system consists of special smoke detectors, which permanently monitor the lift shaft and which forward the fire alarm to the RWA center in emergency situations. Optionally an alarm can be released manually by an RWA operating panel in the area of the central access point. The VdS approved RWA center controls the electromotive drive at a light dome or a ribbed fan. Simultaneously the elevator control gets the automatic instruction to pilot the evacuation level and to open the elevator cabin to get out.

Maintenance

▶ Maintenance periodically every 12 months together with the RWA plant.

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