

Системы естественного дымоудаления NRA

Технические характеристики

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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: jec@nt-rt.ru || сайт: <https://jockel.nt-rt.ru/>

Natural smoke extraction systems (NRA)



Natural smoke extraction is based on the principle of thermal buoyancy. Different temperatures lead to different air densities. The warm smoke gases rise and escape through openings into the open air. Fresh air is also drawn into the building from outside, creating a natural air circulation.

For this smoke extraction to work, sufficient fresh air must flow into the building. Natural smoke and heat extraction systems must function without delay at all times, even under extreme conditions (snow, wind, extreme temperatures).

A natural smoke exhaust system (NRA)...

- ... uses thermals, i.e. the automatic buoyancy of hot air.
- ... keeps **escape and rescue routes smoke-free** so that people and animals can leave the building safely or be rescued by the fire brigade.
- ... enables effective firefighting by the fire brigade.
- ... dissipates heat from the building, lowers the temperature and **protects the structure of the object**.

Overview Products

- Horizontal and vertical smoke extraction devices
- Electrical, pneumatic and pyrotechnic triggering devices
- Manual control points
- Spring systems
- Weather sensors
- RWA plans

Overview of services

- Consulting, planning and project management
- Delivery and installation of the required system components
- Construction and commissioning
- Maintenance and repair
- Repair
- Accompaniment of recurring inspections by the expert

DIN 18232-2 Natural smoke exhaust systems (NRA) – Dimensioning, requirements and installation
DIN 12101-2 Specification for natural smoke and heat exhaust ventilation devices
VDMA basic paper on smoke extraction

Consulting and specialist planning of natural smoke extraction systems (NRA)

As a specialist company, Jockel Brandschutztechnik-Service GmbH offers comprehensive project support. This begins with consulting, design, and technical planning of a smoke extraction system and extends to installation, commissioning, and final acceptance by an expert inspector. We can also provide professional support upon request.

Jockel provides comprehensive support for clients' projects. The project process is based on applicable standards and generally accepted engineering practices.

Commissioning, maintenance and repair of natural smoke extraction systems (NRA)

In order to fulfil the operator's obligations, Jockel Brandschutztechnik-Service GmbH carries out regular maintenance and repair of the safety system and accompanies the recurring inspection by an expert.

Smoke extraction systems must be manufactured and commissioned in accordance with recognized engineering practices, as defined by the Technical Inspection Ordinance. Furthermore, they must be regularly inspected through maintenance, taking into account the manufacturer's specifications.

Furthermore, these systems must be subjected to recurring inspections by an expert in accordance with the inspection regulations of the respective federal states.

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