



LIFT SHAFT
SMOKE EXTRACTION + VENTILATION

SAVE ON ENERGY COSTS

Save up to 7% of energy costs with BlueKit

BlueKit systems permanently reduce the energy costs of buildings and also maximise safety. The idea behind this is simple yet ingenious: permanent openings in the lift shaft remain closed and open only in case of fire. This reduces the heating costs. If the shaft openings are permanently open, as is the case with conventional systems, heating energy dissipates into the shaft due to the stack effect. Sealing the top of the shaft also increases the comfort in the building as this eliminates unpleasant draughts inside. The BlueKit system is one of the most advanced shaft smoke extraction solutions in the world.

YOUR BENEFITS

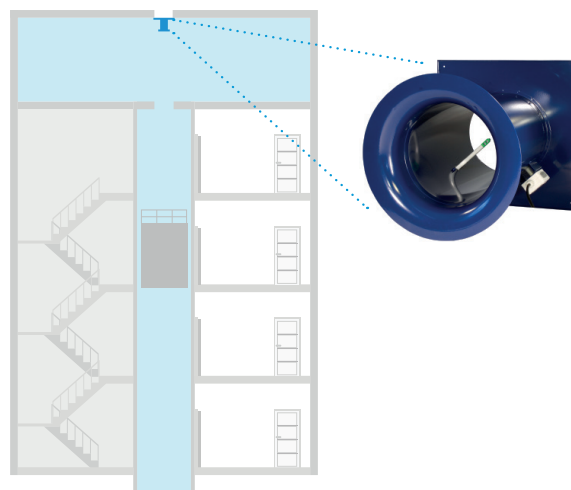
- » Potential for reducing the heating energy costs of the entire building by up to 7 %
- » Sealing of permanent openings at top of shaft
- » Reliable smoke extraction in case of fire
- » System pays for itself after only a few years
- » Increases comfort at home and in the workplace by reducing draughts



The handkerchief indicates the air flow in the shaft which carries valuable energy to the outside while the flap remains permanently open.

LIFT VISION

Figures that pay off: Measure the potential savings in your building



BlueKit Lift Vision gives you clarity by obtaining actual data from your building. A measuring device mounted in front of the permanent opening in the machine room determines the resulting energy losses. Your existing kWh price will also be factored into the calculation so you can see the actual results in monetary terms.

The energy losses (in kWh and €) and the CO₂ emissions are transmitted in real time to a networked portal which you can easily access from your PC or tablet using a password.

YOUR BENEFITS

- » Actual data directly from your shaft
- » Simply hire – no material costs
- » Installation costs are deducted when an order is placed
- » Installed and operational in no time at all
- » The only system of its kind on the market
- » Access to online portal in real time

TYPICAL EXAMPLE OF ANNUAL SAVINGS WITH BLUEKIT

BUILDING DATA

Building type	Hospital
Room temperature	24 °C
Payload of lift	2000 kg
Number of storeys	3
Prescribed ventilation opening	2.5%

SAVINGS

Savings - energy (kWh/year)	39,223
Savings - heating costs (€/year)	2,746
Savings - CO ₂ (kg/year)	7,060
Payback period of the BlueKit system	approx. 2 years
Max. savings after 10 years (€)	34,534



BIM-READY WITH BLUEKIT

Plan shaft smoke extraction in the DigiPara Liftdesigner



DigiPara has been developing software for more than 25 years to facilitate efficient lift planning and configuration. Offer drawings and 3D BIM models can be created at the press of a button in DigiPara® Liftdesigner. The shaft smoke extraction with the BlueKit systems can also be planned in the DigiPara Liftdesigner. In addition to 3D drawings, you can find BIM files for the BlueKit system components and a wide range of ventilation elements in the manufacturer library.

YOUR BENEFITS

- » First provider of shaft smoke extraction systems in DigiPara® Liftdesigner
- » Straightforward integration of BlueKit solutions into your planning
- » 2D offer and installation drawings at the press of a button
- » 3D BIM objects of BlueKit components
- » Supports IFC 4.0

www.DIGIPARA.COM/LIFTDESIGNER

BLUEKIT CONNECT

The intelligent web tool for configuring and calculating BlueKit solutions



BlueKit CONNECT facilitates intelligent, digital and straightforward shaft smoke extraction. With the web-based tool, users can generate individual solutions for their projects based purely on their own project data - without any in-depth product knowledge. To do this, the software makes use of base data such as the building type and size of the lift shaft. Once a suitable solution has been found, you will receive a costing tailored to your individual needs immediately, which you can then forward directly to BlueKit.

YOUR BENEFITS

- » Installation and data evaluation directly in the lift car
- » Intelligent tool for configuration and costing of shaft smoke extraction
- » Recommendation of suitable products for your project
- » Forwarding of costing directly to BlueKit or as PDF download
- » Personal access with saving and archiving function and own format templates

<https://CONNECT.BLUEKIT.DE>



THERMO FLAP TF

Thermally-insulated roof cowl for optimum heat insulation



Natural, thermally high-quality smoke and heat exhaust ventilator (NSHEV) for horizontal installation on flat roofs (up to max. 10° roof pitch). Ventilation and smoke extraction hood with 24 V electric motor drive for the discharge of combustion gases and for ventilation purposes. The ready-to-install solution consists of a curb and an integrated motor-driven closing element with weather-protection louvre cover.

YOUR BENEFITS

- » Thermally insulated profile (optimised heat insulation)
- » Uvalue 0.41 (W/m²K) with 450 hood, 0.46 (W/m²K) with 600 hood, 0.55 (W/m²K) with 800 hood calculated according to EN ISO 12567-2
- » Horizontal ventilation opening in passive or low-energy buildings
- » System-tested in compliance with DIN EN 12101-2
- » Approval in accordance with VdS 2895
- » Virtually noiseless, therefore ideal for use in sound-sensitive areas
- » Smoke extraction and ventilation regardless of wind direction
- » Ready-to-install solution
- » Condensate formation prevented by GRP base
- » Complies with requirements of German state building codes

THE NEW LST-CO₂

MEASURE Explicit CO₂ values



The lift status transmitter is an indispensable car monitoring device for the safety and comfort of lift users. In addition to information on lift operation, maintenance or breakdown, it provides the control panel of the BlueKit system with data on the CO₂ quality in the lift car.

By monitoring lift usage, the CO₂-V3 lift status transmitter (LST-CO₂-V3) automatically detects changes in air quality and independently sends a ventilation signal to the control panel. It is a closed unit that communicates with the central unit or remote radio receiver via a wireless radio transmitter.

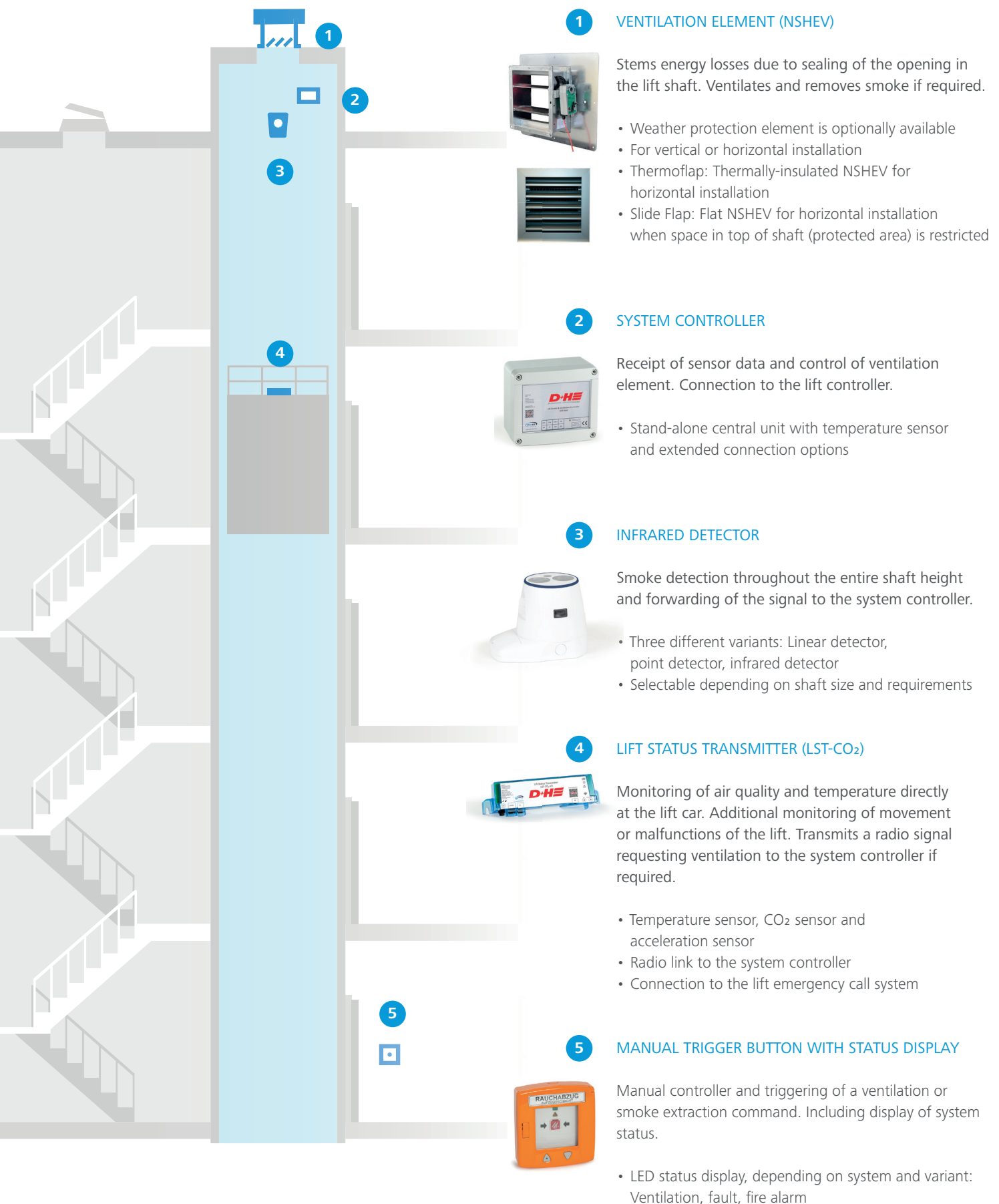
The CO₂ sensor is integrated in the LST-CO₂-V3 and evaluates the CO₂ concentration in the air. If the limit value is exceeded, ventilation is activated. In addition, the LST-CO₂-V3 can be linked to the emergency call button in the lift car to ensure ventilation of the shaft when it is pressed.

YOUR BENEFITS

- » Installation and data evaluation directly in the lift car
- » Radio link
- » Integrated acceleration sensor
- » Air quality: Instead of a VOC sensor (which measures of CO₂ equivalents), a CO₂ sensor is active
- » Temperature sensor on the car – now even more accurate
- » Ventilation controller adapts to the use of the lift
- » Service button for maintenance work
- » Air humidity sensor ensures even greater protection against mould in the lift shaft

THE BLUEKIT SYSTEM

Reliable components working together





D+H Mechatronic AG
Georg-Sasse-Strasse 28-32
22949 Ammersbek, Germany

+49 40 60565-0
info@dh-partner.com



WWW.BLUEKIT.EU