

BlueKit Lift Systems – for modernisation

SAVING ENERGY WITH INTELLIGENT SHAFT VENTILATION



AFI

AUTOMATED FENESTRATION INC

BlueKit
D·H·E Group



About BlueKit

As a D+H Group brand, BlueKit is a market leader in the design, manufacture and sales of solutions for efficient smoke extraction, needs-optimised ventilation of lift and utility shafts as well as reliable weather protection covers. For more than ten years, BlueKit has been providing solutions for intelligent energy savings as well as safety and well-being in buildings.



WHAT IS BLUEKIT AND HOW DOES IT WORK?

To extract smoke from the lift shaft and also to ventilate it: The top of the shaft has a recessed external opening through which valuable energy is also lost. Heated indoor air escapes through leaky lift doors due to the stack effect in the heating season, which leads to a huge rise in heating costs.

BlueKit systems feature a closing element which is installed in the external opening of the lift shaft and prevents heated or air-conditioned indoor air from continuously escaping. In an emergency or if ventilation is required the closing element opens automatically. The BlueKit system consists of only a few components which are all certified to EN standards. It is compatible with every lift type and can easily be installed or retrofitted.

THE RIGHT SYSTEM FOR EVERY SHAFT

Whether standard dimensions or special solutions: Our product variants BlueKit AIO and AIO Basic can cover all structural and technical requirements. The AIO system is used as an economical solution for standard shafts and can be combined with all smoke detection systems. With their extended range of functions, the AIO solutions offer flexible adaptation options and are ideal for use in high-energy buildings. They are suitable for group shafts as well as lifts with machine room and can be extended with wind and rain sensors, timer and key switch. Connection to a fire alarm system (FAS) is also possible.

YOUR BENEFITS

- ✓ Reduction of energy costs
- ✓ Reliable smoke detection and demand-controlled ventilation
- ✓ Reduction of lift maintenance cycles
- ✓ Reduction of moisture and cold draughts
- ✓ Upgrading of air quality
- ✓ Sustainability due to reduction in CO₂ emissions

WHY BLUEKIT?

- ▶▶ Tested and certified technology
- ▶▶ Legally sound and patented
- ▶▶ Future-oriented systems
- ▶▶ Comprehensive service
- ▶▶ Collaboration with leading lift engineering specialists

WITH CERTAINTY THE SIMPLEST SOLUTION
TO SAVE VALUABLE ENERGY AND ENSURE
WELL-BEING IN EVERY BUILDING!

THE BLUEKIT SYSTEM

Reliable components working together



THEORY IS GOOD, PRACTICE IS BETTER

Find out for yourself how much energy you can save with BlueKit

We offer you a number of options for measuring the savings you could achieve with BlueKit. They range from an easy-to-understand estimate with predefined standard values through to actual data obtained directly at your shaft - take a look at the figures, you won't be wasting your time!

1 QUICK AND EASY: ONE GLANCE IS ENOUGH

The table below shows a rough estimate of the energy losses in kWh per year in a standard lift shaft. The values are based on the number of storeys in the building and the maximum payload of the lift, which are indicative of the shaft dimensions and therefore the size of the ventilation opening.

For assumptions regarding the remaining building data see the info box.

Predefined standard values

- ▶▶ One lift per shaft
- ▶▶ Door height and width (mm): 2000 x 800
- ▶▶ Door type: Telescopic with 2 leaves
- ▶▶ No machine room above the lift shaft
- ▶▶ 2.5% ventilation area according to legal requirement
- ▶▶ Average temperature: 22°C
- ▶▶ Heating type: Gas
- ▶▶ Heating efficiency: 89%

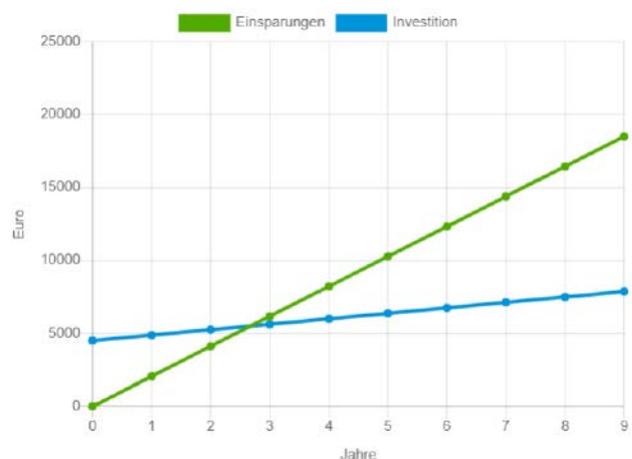
Number of storeys	Max. payload in kg				
	500	550-800	850-1300	1350-1800	> 1850
2	14037	15494	17617	20370	20938
3	18377	20947	25224	32234	33986
4	21662	25101	31298	43289	46821
5	24364	28493	36291	53201	58844
6	26705	31424	40528	61970	69828
7	28819	34027	44267	69762	79800
8	30742	36397	47647	76777	88854
9	32546	38585	50737	83113	97121
10	34234	40643	53605	88949	104715

Specifications in kWh/year

SIMULATE ENERGY SAVINGS ONLINE YOURSELF

Using the free simulation software, you can quickly and easily simulate the potential savings of a BlueKit system in your lift shaft with just a few items of data about the building. In addition to the annual values in kWh, € and CO₂, you will receive a calculation for the return on your investment and the maximum savings over 10 years.

To find out more now go to www.bluekit.eu



2 PRECISE AND DETAILED: A TAILORED REPORT

Do you require a simulation for your project? We will prepare a detailed report for you regarding the potential energy savings you could achieve in your building with a BlueKit System.

For the simulation to be as accurate as possible, it is helpful to know the construction conditions on-site. Does the actual size of the ventilation opening sometimes deviate significantly from the legally required area, for example? If no precise specifications are available, a site inspection should be carried out.

One of our employees will visit you on-site to obtain the precise dimensions of the ventilation opening at the top of the shaft. Any constructional challenges, such as space restrictions that require special solutions for smoke detection or flaps, for example, can also be identified directly during this visit.

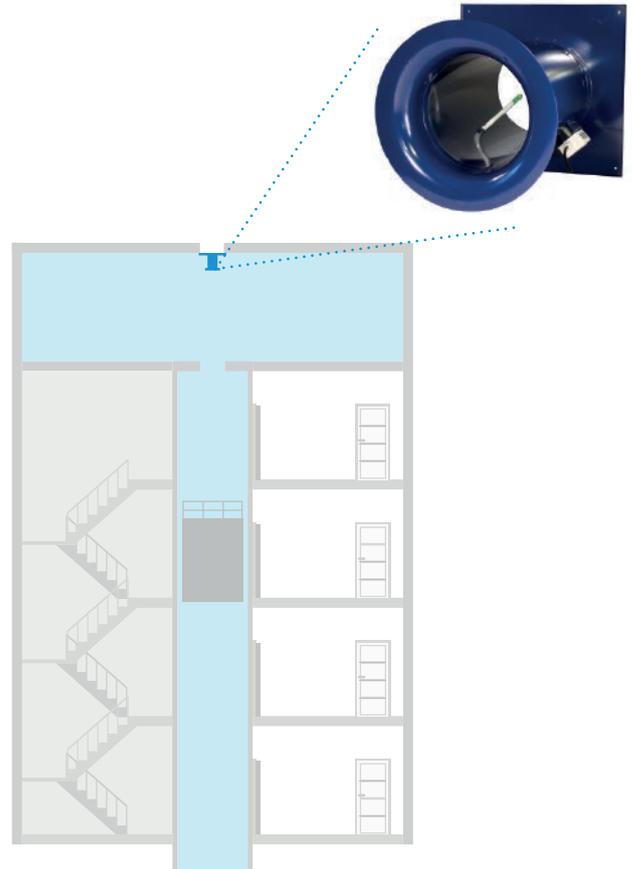
3 LIFT VISION - FIGURES THAT PAY OFF

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

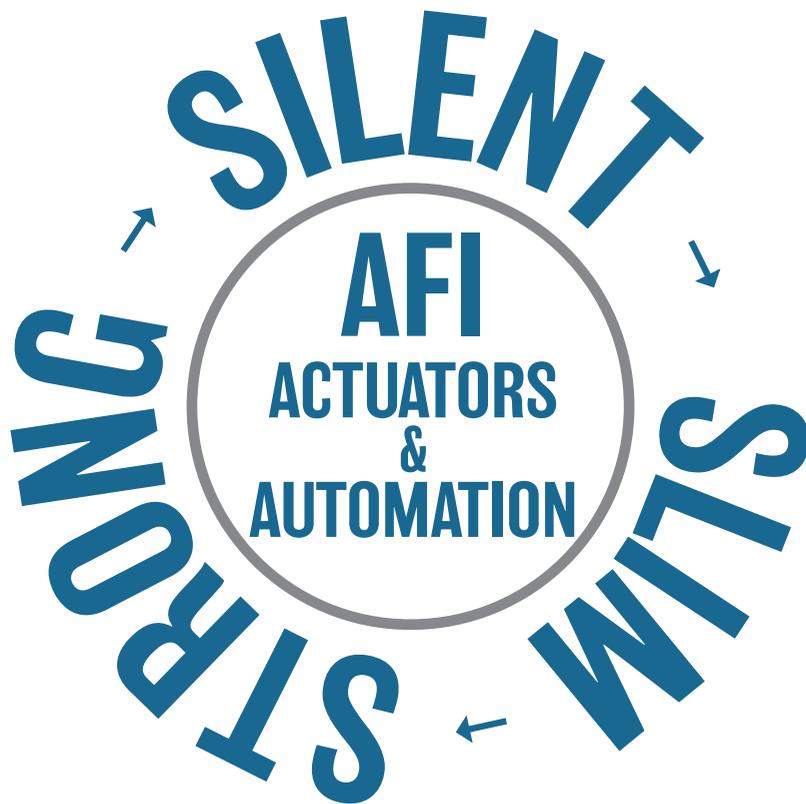
BUILDING DATA

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)	39223
Savings - heating costs (€/year)	2746
Savings - CO ₂ (kg/year)	7060
Payback period of the BlueKit system	approx. 2 years
Max. savings after 10 years (€)	34534





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