



**3 FLIES IN
ONE SWOOP
WITH A RWA-FLAP**



SHAPING THE FUTURE

Three Flies in one Swoop with an (RWA)-Flap

- LESS ENERGY COSTS
- LESS CARBON EMISSIONS
- THE ONLY SYSTEM WORLDWIDE THAT INTEGRATES BUILDINGS INTO THE LOGISTICS OF THE FUTURE.

(builder certified for all lift brands)



PATENT EP 3 529 190 B1

ADVANTAGES

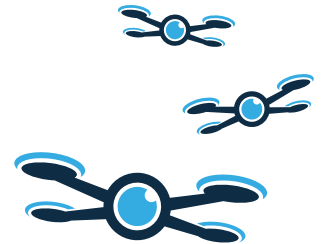
If your lift is temporarily ventilated and smoke controlled with an RWA-flap instead of permanently, you save money and you are ready for the revolutionary, modern delivery logistics that are already successfully applied in the USA.

1 – LESS ENERGY COSTS

The temporary ventilation of the shaft reduces heating cost by 1400 to 7700 Pounds per year and lift.

2 – LESS EMISSIONS

Heating reduction brings about 5,4 tons less carbon emissions per year and lift.



3 – THE LIFT IS READY FOR THE PARCEL LOGISTICS OF THE FUTURE

The Drone Delivery Terminal (DDRT) can be installed later without any cost of modification and allows for a contact-less parcel delivery exactly targeted as to place and time in towns.

The price of 6000 Pounds amortizes within 2 – 3 years through reduction of costs.



RWA-dome of LIKUNET®
breakthrough-proof according to EN 1873

TEMPORARY, INTELLIGENT VENTILATION/SMOKE CONTROL OF LIFT SHAFTS BY RWA-FLAP

The RWA-flap pragmatically fulfills the legal requirements and technical rules for ventilation and smoke extraction in case of fire.

Smoke-control in lift shafts

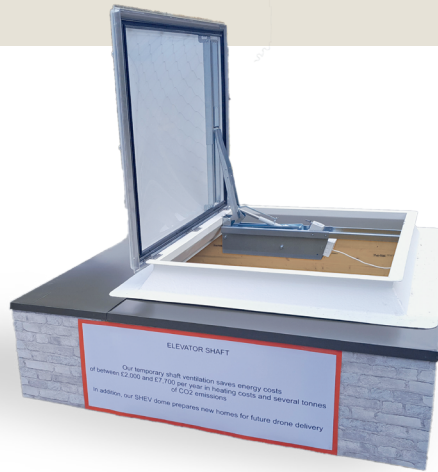
The smoke detector of the certified system signals smoke and the RWA-flap quickly removes smoke in case of fire. Moreover, unnecessary losses of warmth in the building are prevented because the closing contraption in the shaft head will open only to remove smoke in case of fire.

Ventilation of lift shafts

Under standard operating conditions The ventilation of lift shaft and cab has to be configured in accordance with the building's cross sections and the legal requirements so as to guarantee the necessary air exchange by the external air stream volume. The air exchange rate is defined as the quotient between measured external air volume and room air volume. Thus the lift shaft has to be provided with sufficient quantities of air from outside.

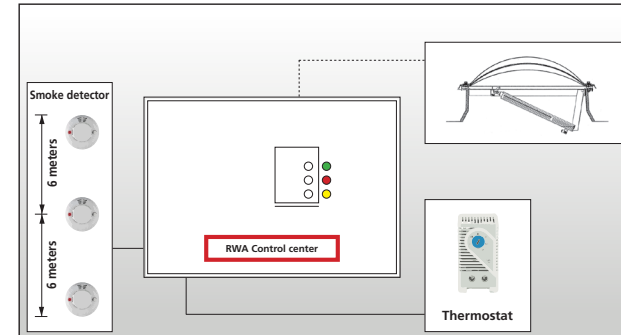
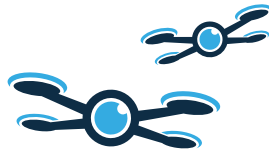
At its highest point, the lift shaft has to have a ventilation opening. If this directly leads out into the open, the system is in „draft mode“ and heat energy is lost.

Our intelligent, temporary ventilation of the shaft prevents unchecked losses of heated room air.



ACTIVATION

- smoke detector in the shaft
- temperature monitoring (the dome opens at 30°C)
- malfunction of the system
- entrapment of passengers in the cab
- black-out of electricity
- air quality in the shaft/cab (optional)
- start of the evacuation run (control in case of fire)



THOUSANDS OF POUNDS
IN HEATING COSTS ARE BLOWN
THROUGH THE CHIMNEY EVERY YEAR.

YOU CAN SAVE THAT!

Save 1400 Pounds to 7700 Pounds or more.

EXAMPLE OF CALCULATING ENERGY COSTS

use of the building for	heath-care	dwelling
room temperature	24°C	21°C
pay load of lift	1.600 kg	630 kg
number of stops	8	5
total width of door	1.200 mm	900 mm
door height	2.100 mm	2000 mm
required opening for smoke-extraction <small>(in % of the cross-section of the shaft)</small>	2.5	1
reduction in kWh/year	141,000	23,000
less Pounds a year	7.700	1.400
les carbon emissions <small>(in a year)</small>	32.500kg	5.400kg
Potential of the intelligent ventilation of the lift shaft net savings in 10 years		
approx in Pounds	82.000	14.700

PARCEL DELIVERY BY DRONE

The Drone Delivery Receiving Terminal (DDRT) is the smart infrastructure for your modern passenger lift. Drones deliver parcels on time directly to the house.

INTELLIGENT

The DDRT is the smart parcel station for future-oriented and sustainable parcel delivery by drone in urban areas.

INNOVATIVE

The DDRT is compatible with all current lift systems and it should be taken into consideration in the planning phase of the building.

INCLUSIVE

The DDRT allows for a contact-less, theft-proof and App-controlled and scheduled delivery by air for all urban dwellers and it preserves the environment.

I DELIVERY- LOGISTICS

Outdated delivery logistics	future delivery logistics by drone
higher traffic volume	less road traffic
high noise pollution	less noise
higher polluting emissions	no emissions
a lot of packaging waste	less packaging waste
not customer-oriented	customer-oriented
not exactly targetet in place and time	exactly targeted in place and time
may be stolen	theft-proof
needs the presence if a person	contact-less and convenient

e-commerce and delivery services are booming. A trend that has been enhanced by the late pandemic. Make a decision for saving money and enjoy the advantages of delivery by drone!

OPERATING MODE OF DRONE DELIVERY BY AIR

video: www.droneterminals.com

As soon as an App-registered drone is above the RWA-flap equipped address, the flap opens.



The parcel is released onto the conveyer belt, transported to one of the pick-up stations of the DDRT and stored vertically.



The addressee receives a code and the information that the parcel is ready for collection.

When the code is entered at the DDRT, a small door opens in the lift cabon and the parcel can be taken out.



IMPLEMENTATION

PHASE 1

VENTILATION/SMOKE CONTROL OF SHAFTS

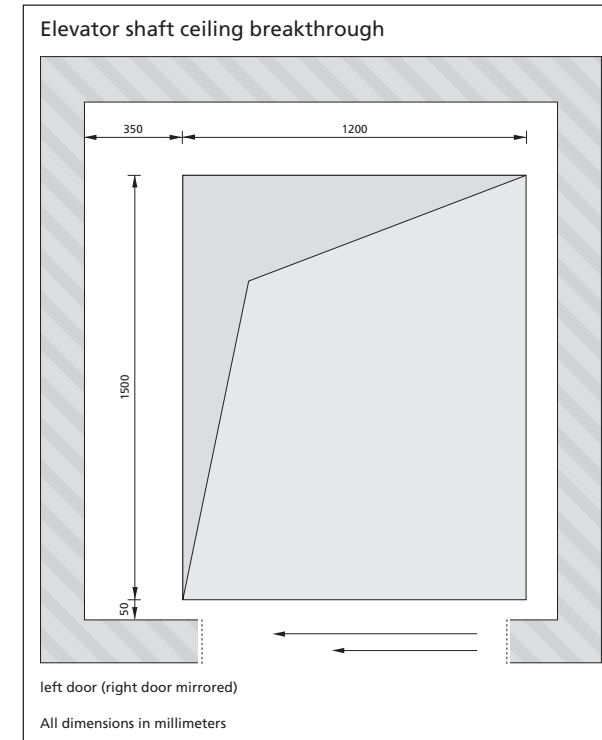
during planning

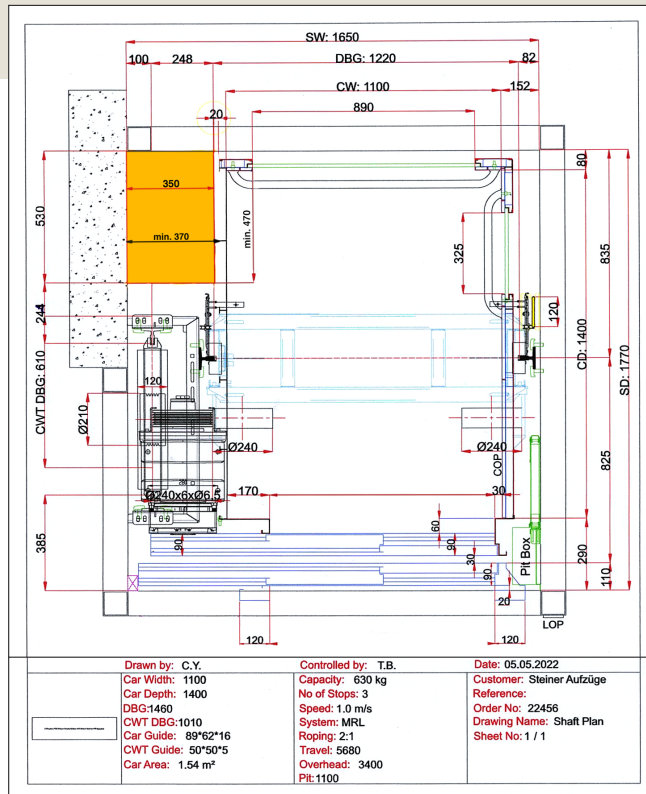
- **Build a 50cm higher lift shaft**

example: Normally, the lift company needs 3400 mm from the finished floor of the highest stop to the lower edge of the shaft cover – whereas now, this is 3900 mm



- **Plan the shaft opening according to the design.**





- If necessary, the lift company must use a narrower counterweight (e.g. steel instead of concrete) in order to make room for the DDRT according to the design.

PHASE 2 – PARCEL-LOGISTICS

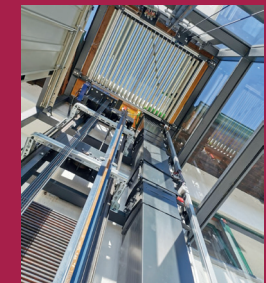
As soon as the authorities grant the permission to fly logistic drones



- The lift company is delivered the DDRTerminal, completely pre-assembled by us. 8.000 Pounds (ex works)



- The terminal is lifted and installed in one day



- The system is maintained according to our instructions by the lift company

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SMART CITY LIFT SYSTEMS

Drone Delivery Receiving Terminal for Elevators