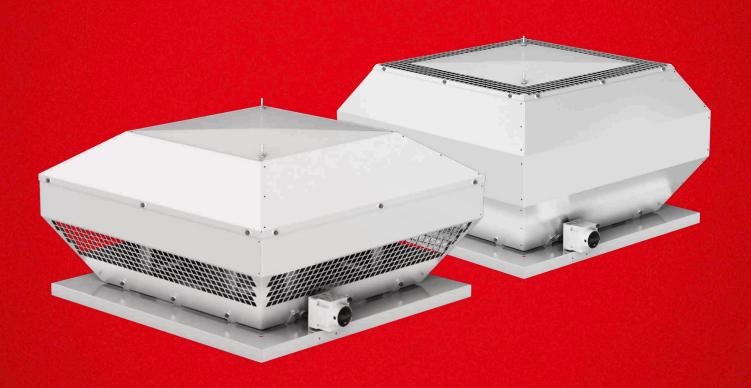
# Firmly at the top: Helios Roof Fans.\*\*



Solutions and application examples from systems provider Helios.



Each construction project is individual. Therefore, we at Helios do not simply have great products, we also offer perfectly coordinated system solutions. Always a good choice for your next project.\*\*



Our new roof fans are also available on Youtube:





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For all **airflows from 540 to 70,000 m³/h** and practically all conceivable tasks through to sensitive applications, for example, with particular temperature loads or even explosion hazards. Of course, Helios offers individual system solutions for large and small commercial enterprises or apartments and buildings in all dimensions, for all construction and installation situations, in any location and even under difficult environmental conditions. Whichever ventilation solution you are looking for, you are always optimally positioned with Helios roof fans.

It is not only the more than **150 different types in five series** which ensure good air quality. This also involves an **unparalleled system** consisting of precisely coordinated and tested accessories from air quality and temperature sensors through to controllers and sound attenuators. And, naturally, all of this in the quality that only Helios can offer.

As you can see, you are always firmly at the top with Helios.

5 series with unlimited possibilities.

### **ErP Ready**

Helios roof fans are energy-saving and comply with the new EU Ecodesign directives.

#### Clever

Power is supplied quickly and easily through the direct connection to the freely accessible isolator switch.

### Complete package

The new, unique roof fan range is complemented by perfectly coordinated accessory components.

No other provider has such a wide selection: Helios always offers the right fan for the most diverse areas of application - in all sizes.

Always a good choice

### Efficient

High power density for low operating costs thanks to state-of-the-art technology.

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\* The newly designed casings made of **high-quality aluminium** make the new series up to 40% lighter than the predecessor models. Nevertheless, all Helios roof fans offer the perfect combination of high quality, superior and uniform design with maximum stability.





\* In combination with the specially adapted, voltage-controllable motors, the fans have the highest **efficiency level** and **minimal operating noise** – they are up to 12 dB quieter than the predecessor models. Various base and roof fan attenuators are available for maximum comfort, depending on requirements.



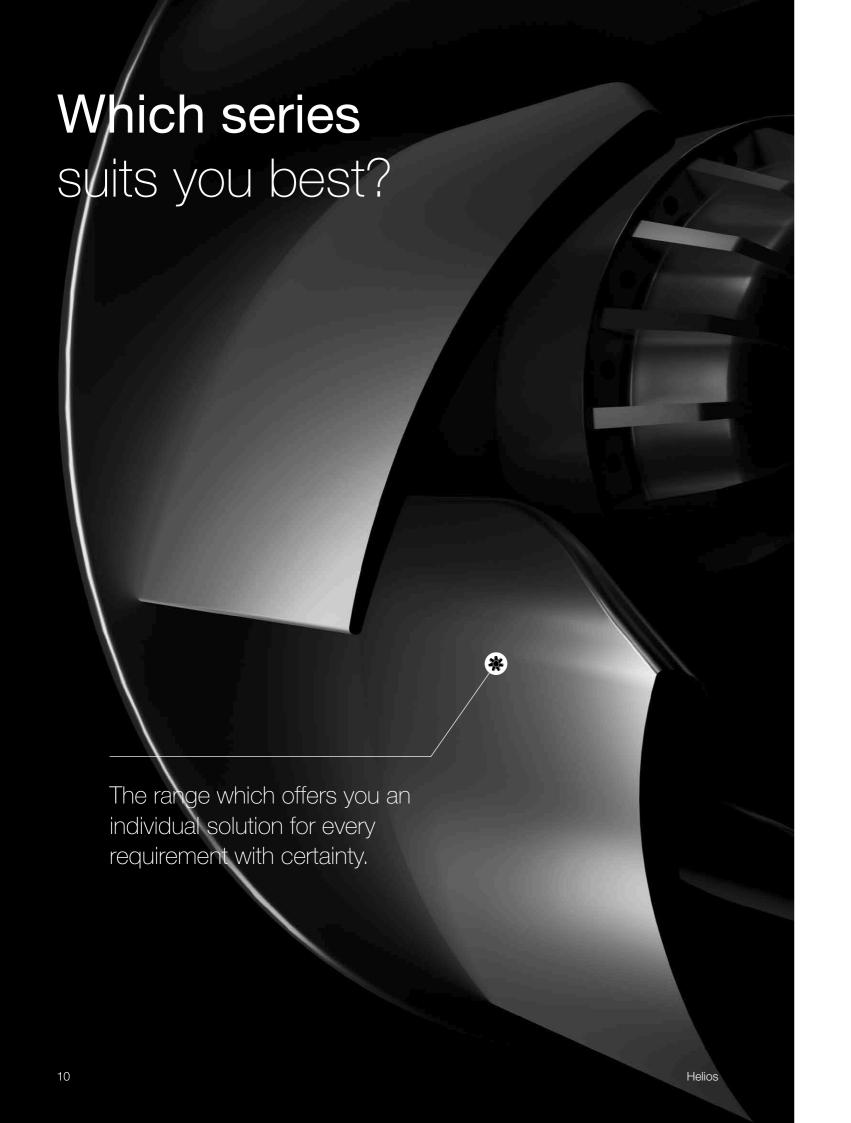
Installation is particularly simple and well thought-out. On the one hand, this is due to the use of lightweight aluminium, and on the other hand, it is also due to the perfectly coordinated accessories. All Helios roof fans are ready for connection, installable without additional installation steps and delivered complete with all installation materials. This saves time and costs in daily practice.

## Lightweight, quiet and robust.\*\*



\* The robust casings made of seawater-resistant aluminium withstand even the most adverse weather conditions and extreme temperatures – thus, they are ideally suited for outdoor installation on the roof in any case. This is what we at Helios mean by premium quality and workmanship for reliable continuous operation.

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- The vertical discharge series VD is the perfect partner for various applications in residential, commercial and public buildings.
- The vertical discharge direction promises the reduction of solid deposits on roofs, roof skylights and dome lights.
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## RD

- The new roof fans in series RD discharge horizontally and they are ideal for central ventilation without heat recovery in residential buildings or workplaces.
- → Page 14



## VD T120

- The series VD T120 is perfectly suited for the special operating conditions which prevail in process technology.
- Operationally reliable, even under the harshest conditions and continuous flow temperatures up to 120 °C.
- → Page 16



## B VD F400/F600

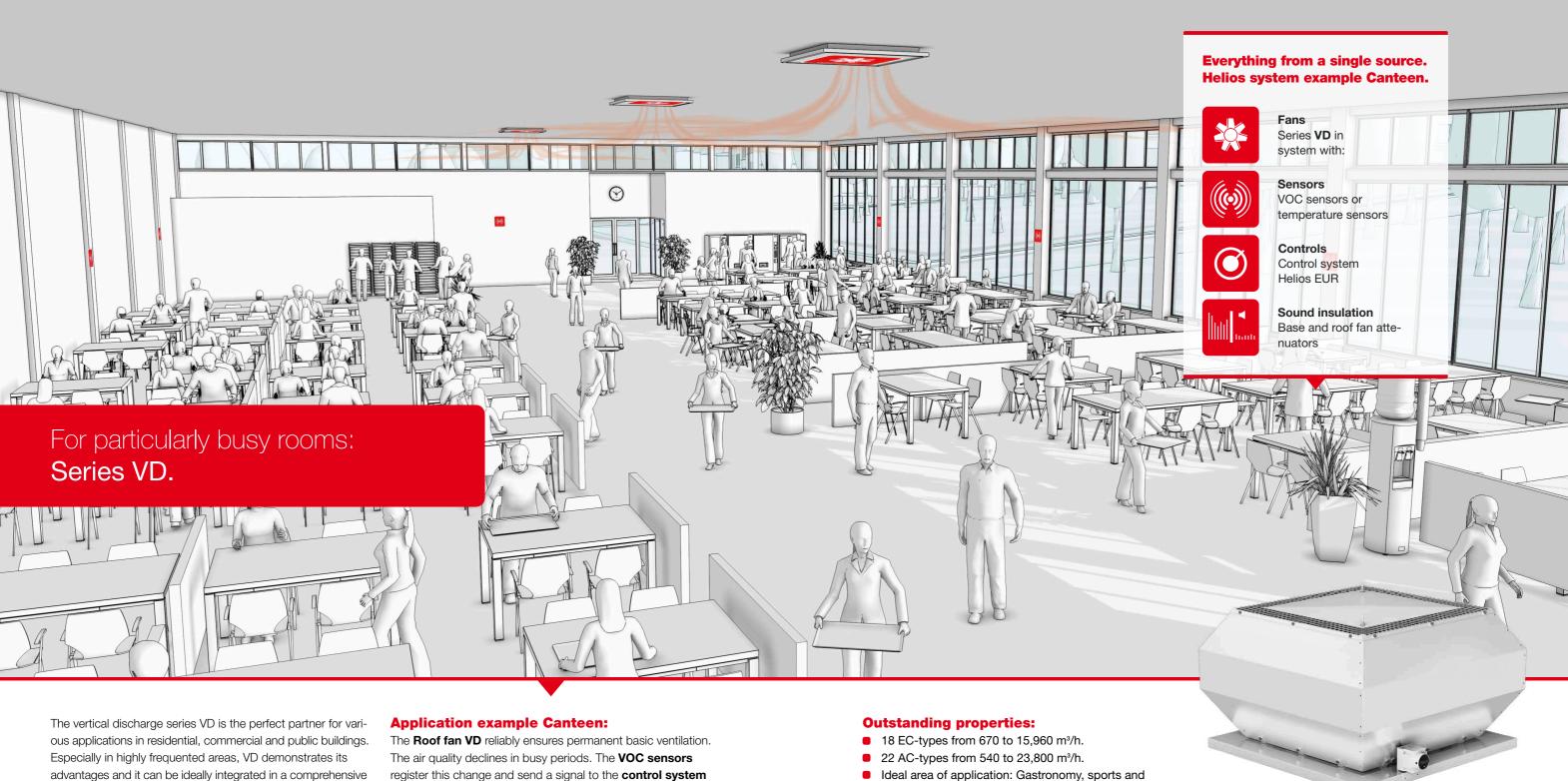
- Maximum safety in case of fire: Uniquely high air flow rates up to 70,000 m³/h for temperature classes F400 and F600.
- Ideal for smoke extraction in assembly areas and sales outlets.
- → Page 18



## RD / VD Ex

- Wide range of explosion-proof fans.
- Optimal for potentially explosive atmospheres.
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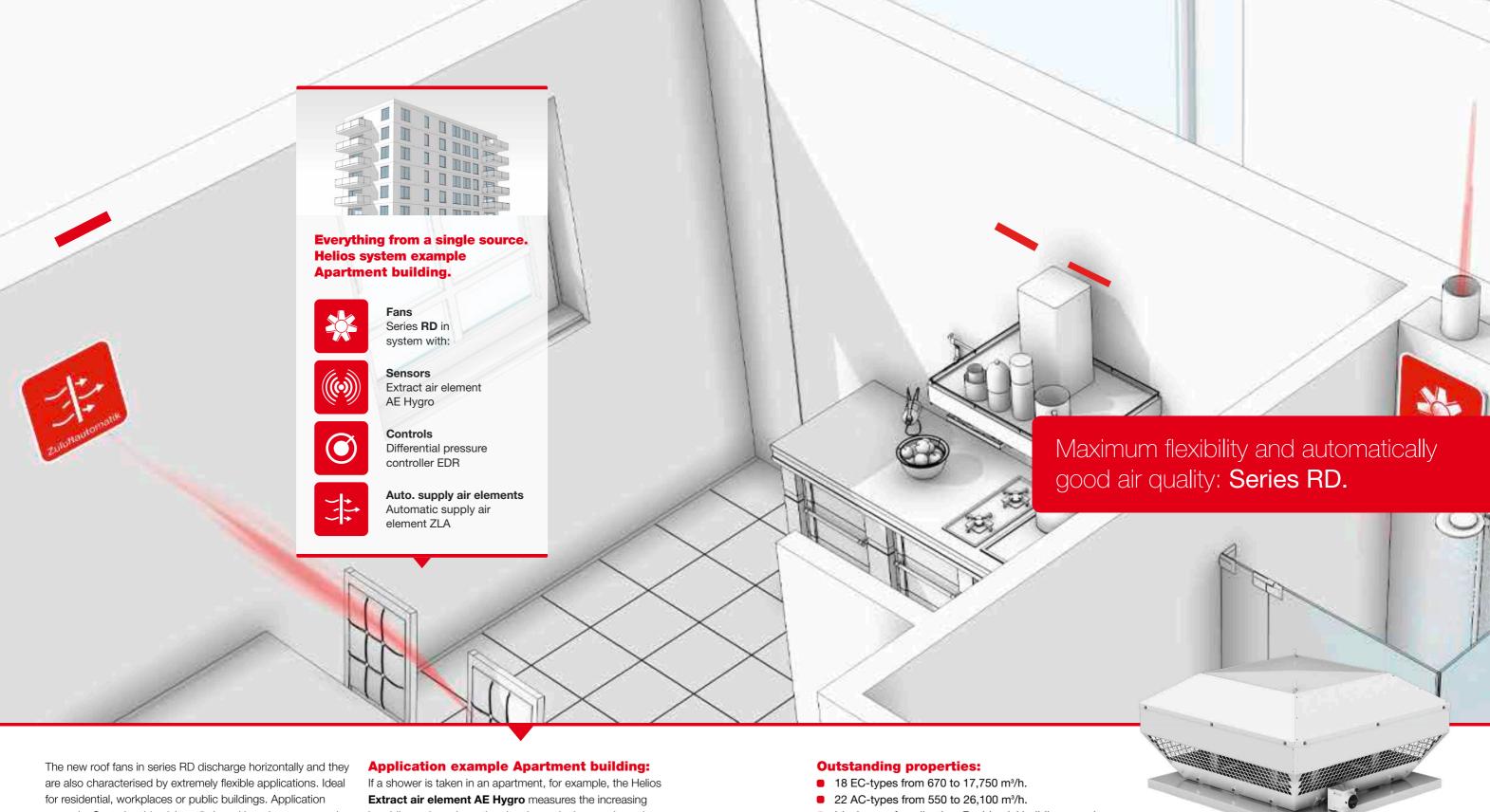
Roof fans



advantages and it can be ideally integrated in a comprehensive Helios ventilation system.

register this change and send a signal to the control system **EUR.** The ventilation performance is then adapted in this respect. This guarantees the demand-oriented and energyefficient regulation of the fan performance at all times. The efficient sound insulation concept consisting of base and roof fan attenuators also ensures the undisturbed usage of the rooms and pleasant tranquillity in the fan installation area itself.

- recreational facilities, assembly areas.
- Minimisation of solid deposits through vertical discharge.
- Pre-mounted isolator switch (up to DN 250: terminal box) and integrated motor protection as standard.
- Clear cost advantage: all types are speed controllable with demand-based operation thanks to a variety of sensors.

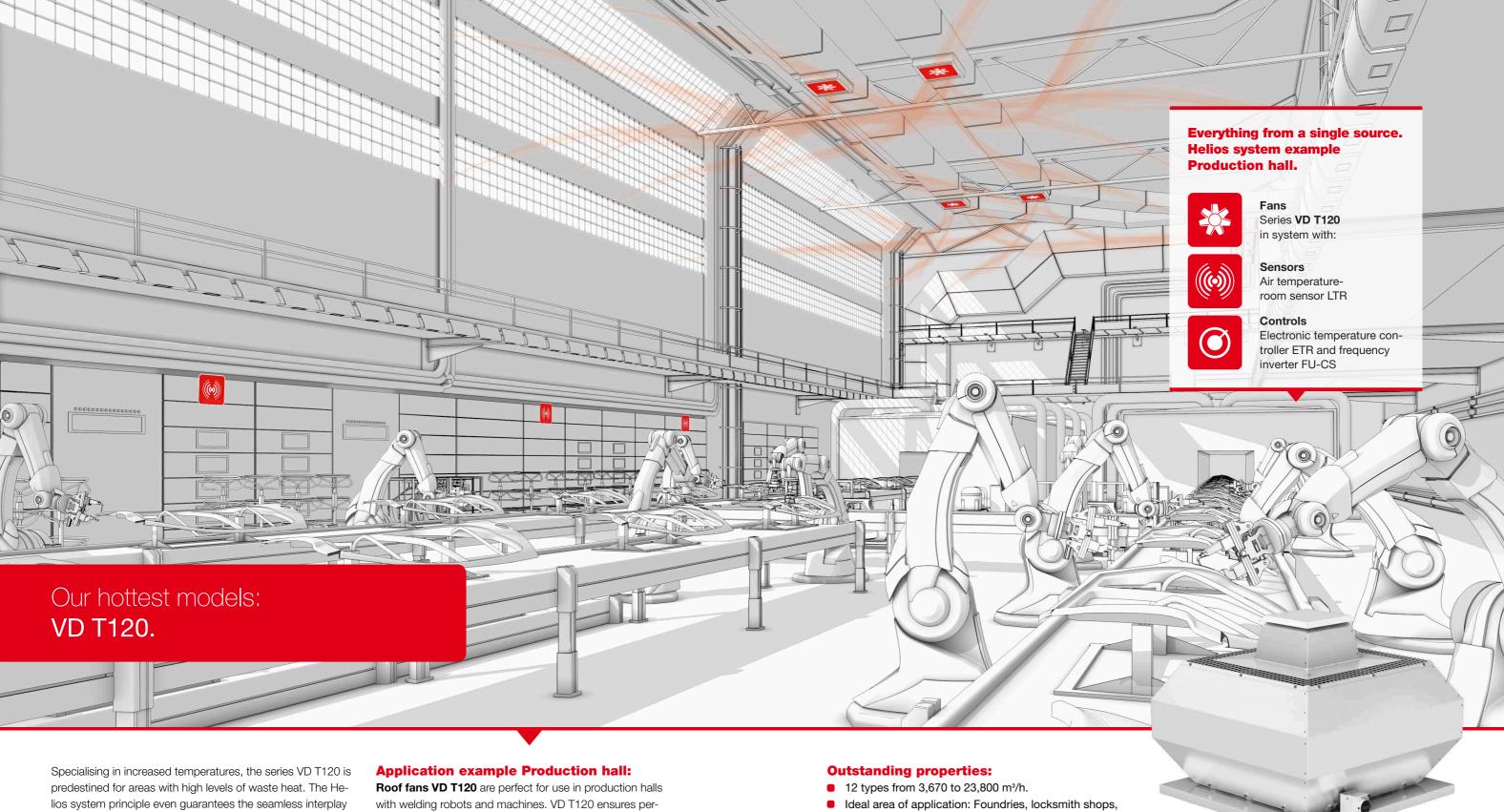


example: Central residential ventilation without heat recovery in an apartment building with multiple units and internal bathrooms.

humidity and regulates the air volume via the opening valve. The Fan RD increases the speed and airflow accordingly with the help of the Helios Differential pressure controller **EDR**. The Helios **Supply air element ZLA** quietly supplies the required filtered fresh air from outside. The moisture is removed immediately. This is registered by the AE Hygro sensor. The roof fan then switches back to basic ventilation. This takes place at low speed and it is extremely energy-efficient due to the variably controllable and economical EC motors. The efficient system of sensors and constant pressure control always ensures the exact amount of air for the entire building, individually for each residential unit.

- Ideal area of application: Residential buildings, workplaces, public buildings.
- Horizontal discharge direction.
- Pre-mounted isolator switch (up to DN 250: terminal box) and integrated motor protection as standard.
- All types are speed controllable with demand-based operation thanks to a variety of sensors.

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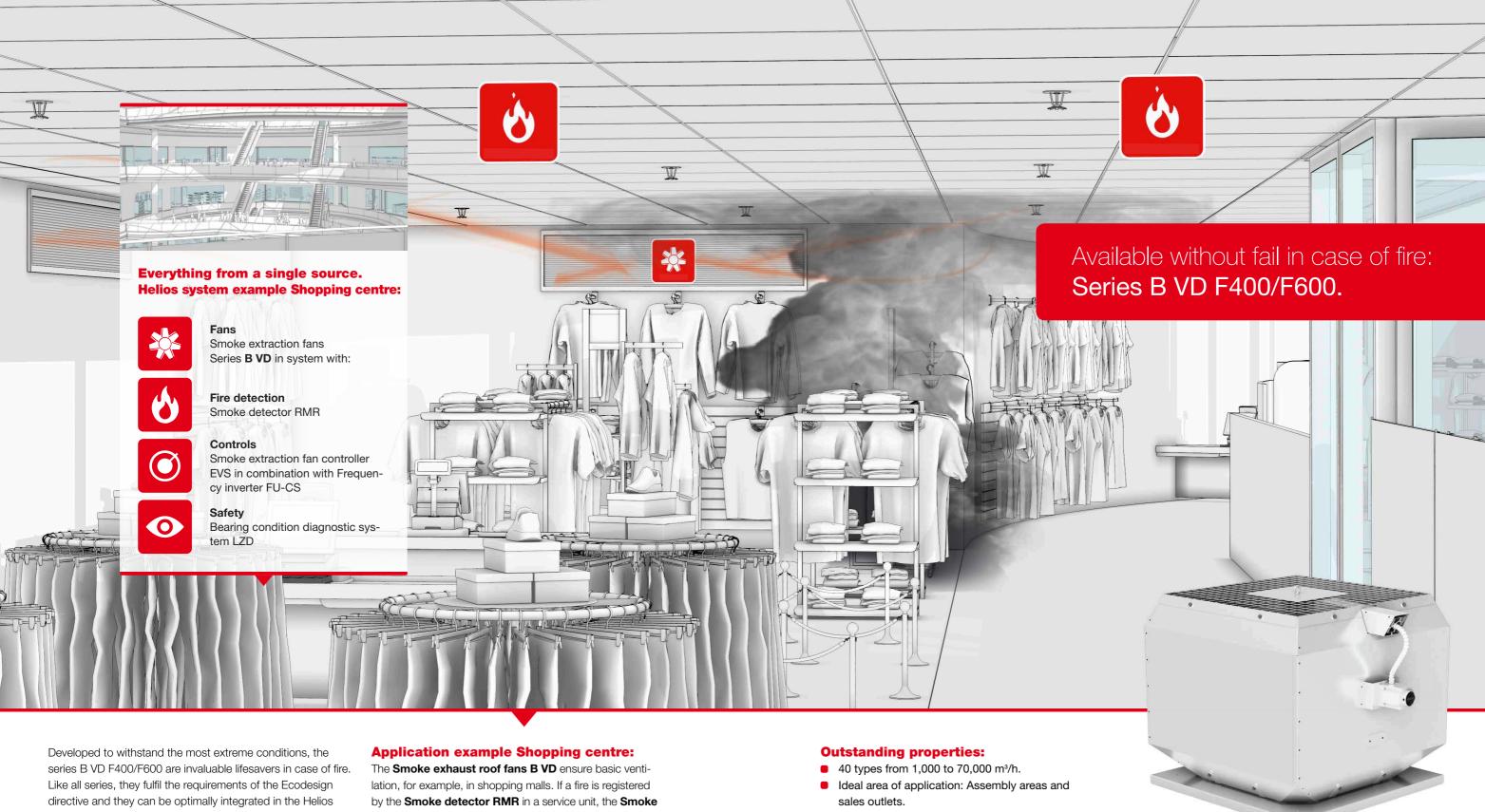
of all components here - for the best ventilation result, even under harsh operating conditions.

In this respect, the VD T120 can be used in continuous operation for flow temperatures up to 120 °C.

manent basic ventilation. As soon as the welding robots and machines are in operation and generating waste heat, the  $\mbox{\bf Air}$ temperature-room sensor LTR registers the increase in hot air and sends a signal to the electronic Temperature controller ETR. In combination with the Frequency inverter FU-CS, the airflow of the Fan VD T120 is increased accordingly. This ensures demand-oriented ventilation, even in sensitive application areas.

- production halls with waste heat from large machines.
- Operationally reliable, even under the harshest conditions and continuous flow temperatures up to 120 °C.

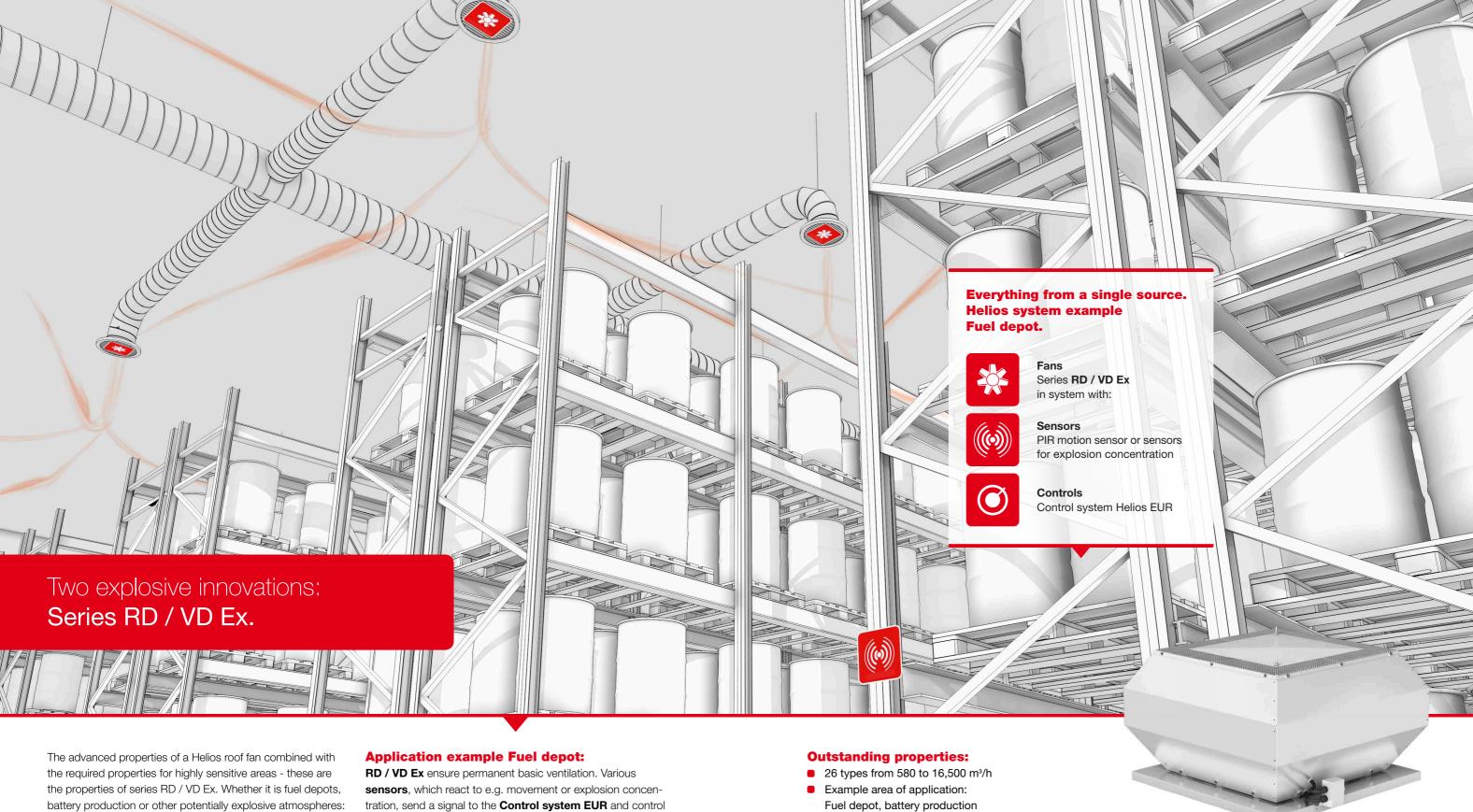
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system environment. Thanks to their dual functionality, they can be used for everyday ventilation, e.g. in assembly areas and sales outlets, in addition to smoke extraction.

extraction controller EVS in combination with the Frequency inverter FU-CS will send a signal to the fans, which will switch to smoke extraction mode within fractions of a second. This ensures both quick and reliable smoke extraction and thus the safe evacuation of employees and visitors, as well as free access for the fire service. Another special feature of series B VD: The Helios Bearing condition diagnostic system LZD guarantees safe operation in case of emergency, even with long standstill periods.

- Dual function for ventilation and smoke extraction operation due to frequency inverter.
- Innovative design with patented cooling concept.
- Numerous accessory components for maximum system diversity.
- Reliable, even in case of increased snow loads: Deflector B DEF for requirements of snow load class 3000.



RD / VD Ex are reliable solutions and they can also be perfectly integrated in the Helios system environment with coordinated sensors, control technology and sound insulation.

the fan in a targeted way.

This ensures demand-oriented ventilation, even in highly sensitive fuel depots.

- Standard explosion-proof terminal box on outside of casing.
- Perfectly coordinated accessory components for individual systems.

