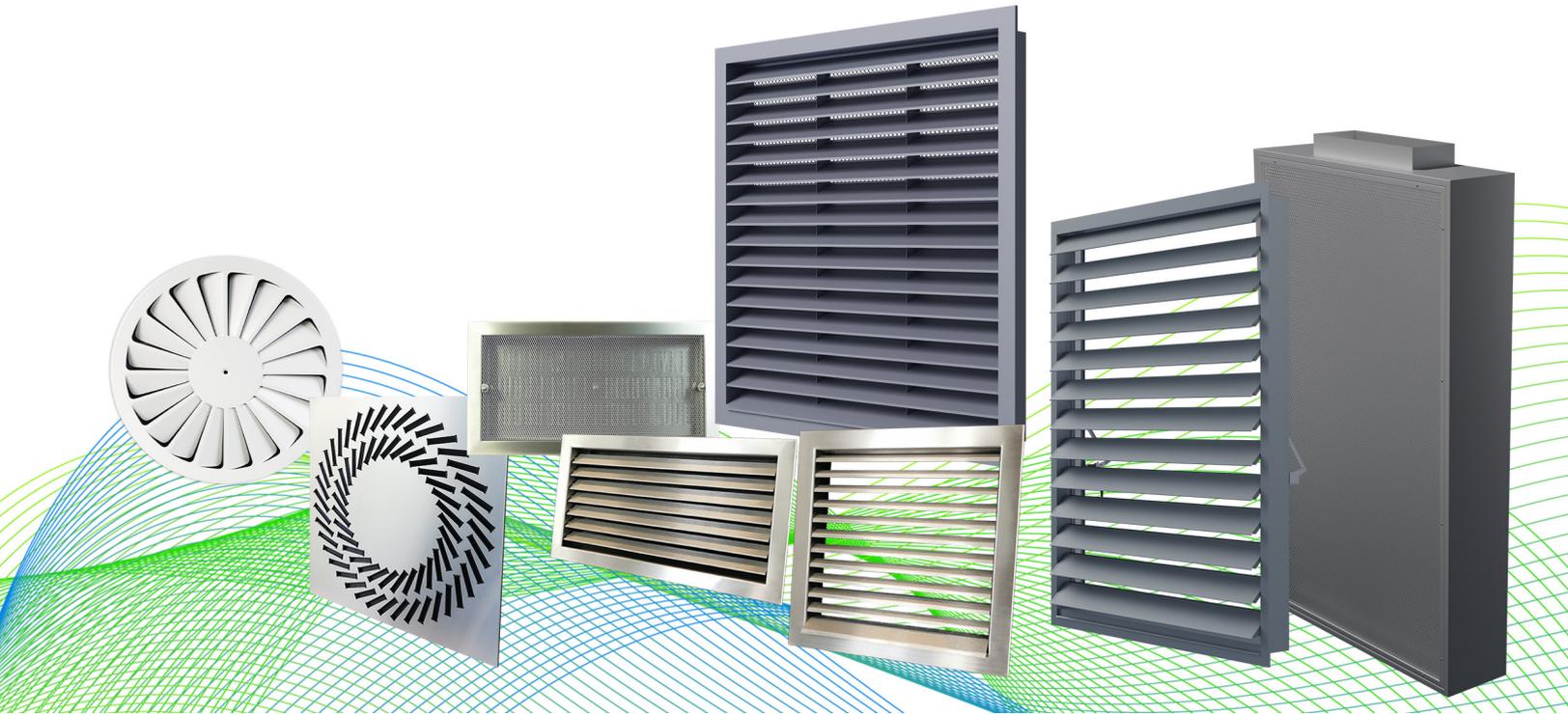




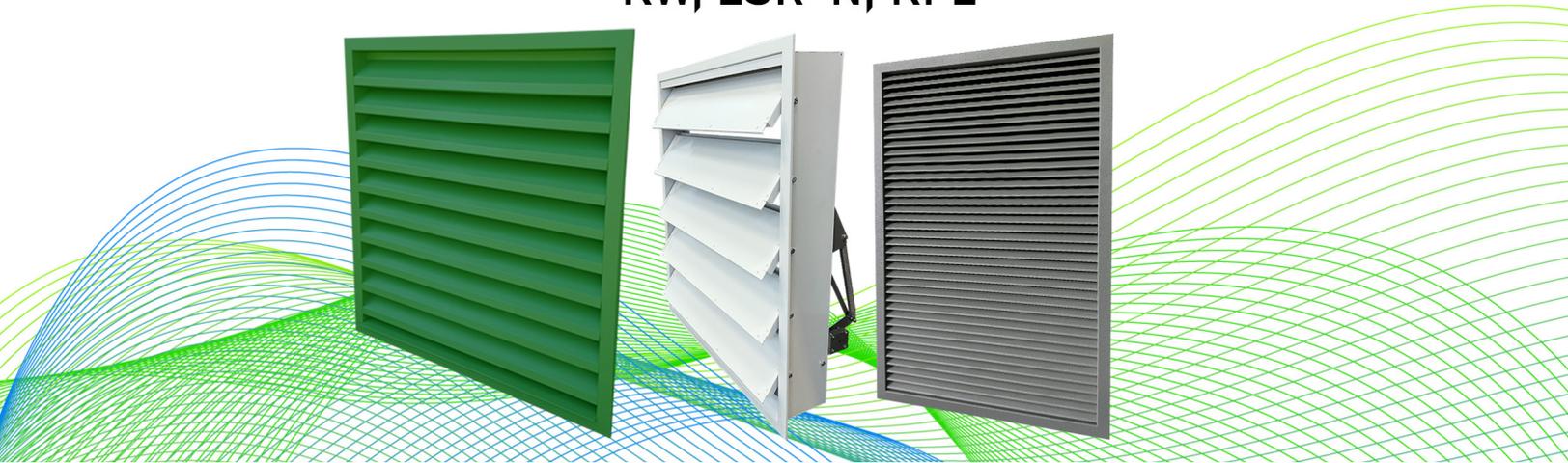
## VENTILATION IN PUBLIC UTILITY BUILDINGS



Ventilation in public utility buildings plays a crucial role in ensuring comfort and safety for users. Saw-Pol specializes in manufacturing ventilation and air conditioning system components, with a particular focus on solutions tailored to public utility buildings, such as shopping centers, hospitals and medical facilities, schools, restaurants, hotels, theaters, cinemas, swimming pools, sports halls, and many others. We offer wall-mounted air inlets and outlets, grilles, ceiling diffusers, displacement diffusers, floor grilles, and masking grilles for fire dampers. Our ventilation products are made from high-quality materials, including galvanized steel, aluminum, and stainless steel (1.4301/304 and 1.4404/316L). In sports facilities where humidity is high, such as swimming pool halls, components must be corrosion-resistant; therefore, we recommend stainless steel. These products come in various shapes and colors, enabling them to match the room's and building's style. Custom production allows us to meet the expectations and visions of even the most demanding designers and architects.



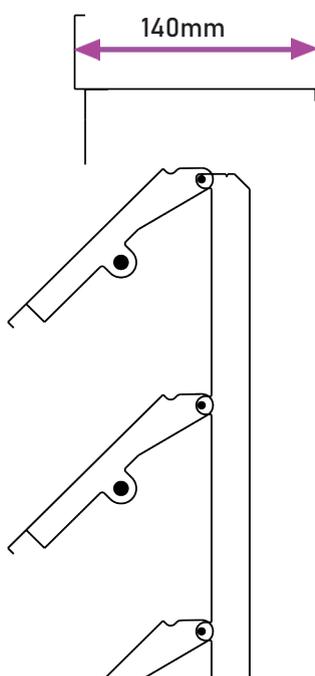
## COMPENSATORY VENTILATION AND SMOKE VENTILATION: KW, ZSR-N, KPZ



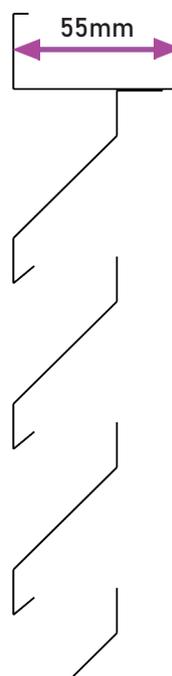
In many buildings, smoke ventilation and air compensation systems play a vital role in protecting lives and health during a fire. Their primary purpose is to enable evacuation, limit the spread of smoke, and ensure access for rescue services. Saw-Pol manufactures components compliant with applicable regulations and standards. Smoke ventilation of evacuation corridors is critical as they must remain smoke-free to facilitate safe evacuation. For such applications, we produce ventilation grilles that shield and mask smoke dampers, commonly KW and KPZ grilles.

An essential component for drawing in compensatory air from outside is our adjustable ZSR-N louvers. Equipped with actuators, they automatically open when the fire alarm system is activated. Their effectiveness and reliability have been confirmed through tests conducted at the CNBOP Fire Safety Institute.

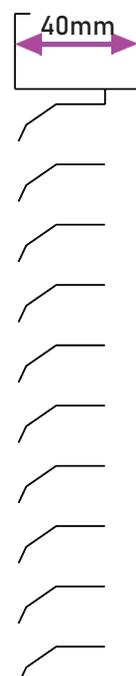
ZSR-N  
Adjustable blades



KW  
Fix blades



KPZ  
Fix blades





## CEILING DIFFUSERS: NWK-3, NWO-3, NWK-1, NW0-1, AN



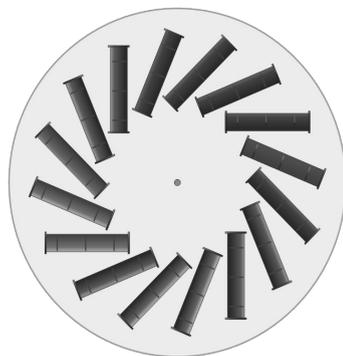
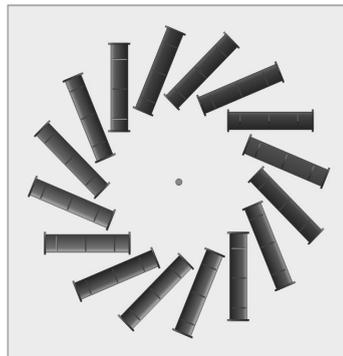
Ceiling-mounted anemostats and diffusers are vital for air supply and exhaust in many buildings. Our components can be equipped with high-filtration-class filters (e.g., HEPA filters) to eliminate contaminants such as dust and pollen, which is especially important in hospitals or restaurants. Diffusers and anemostats can be designed for various types of suspended ceilings.

### Ceiling air diffusers

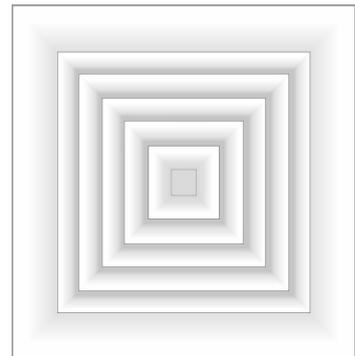
NWK-1  
Fix blades



NWK-3  
Adjustable blades



Anemostat AN



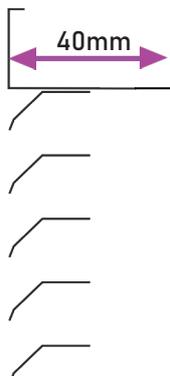


## VENTILATION GRILLES: KPZ, KSL, ALWP-1, KFC, ST-W, ST-S

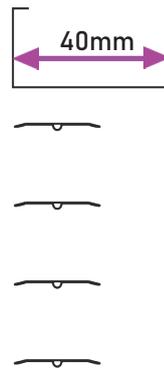


Grilles are indispensable elements of ventilation and air conditioning systems, ensuring proper air exchange in any room. Saw-Pol grilles are easy to install and remove, facilitating regular cleaning, which significantly impacts indoor air quality. Our offer includes fixed-louver grilles (e.g., KPZ, KSL, ALWP-1), grilles for fan coil units (KFC), and ventilation grilles with adjustable louvers to control the direction and intensity of airflow. In sports halls and corridors, we reinforce grilles to enhance durability. In hotels, where aesthetics and design are important, we offer grilles in various shapes and colors to match the interior style and harmonize with the hotel's decor.

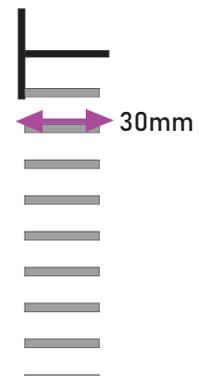
**KPZ**  
fixed blades



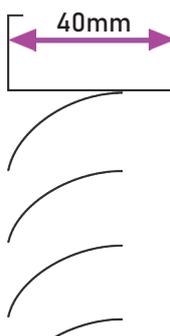
**ST-W**  
adjustable blades



**ALWP-1t**  
Fixed blades with  
T-profile frame



**KSL**  
fixed blades



**KFC**  
fixed blades



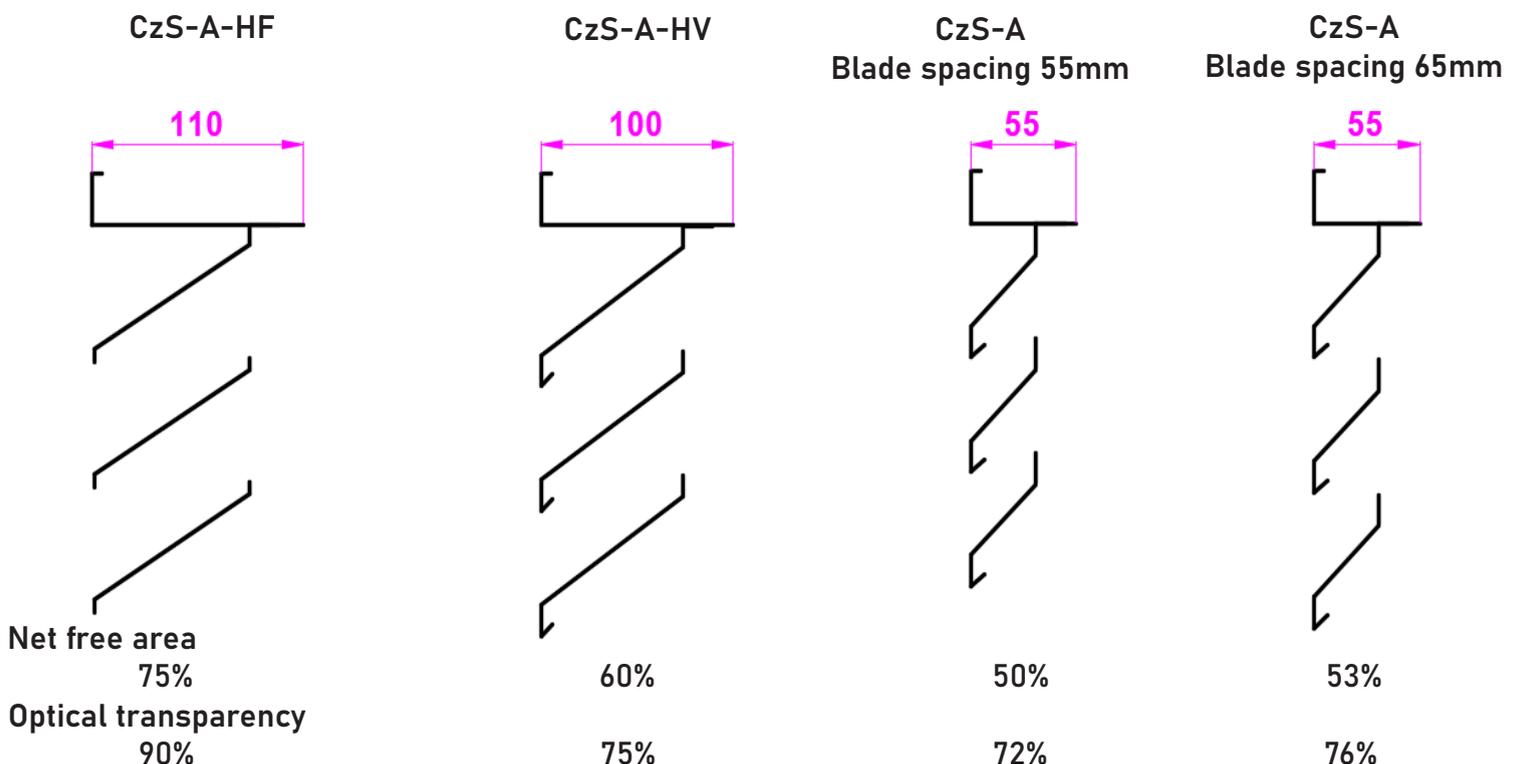


## EXTERNAL GRILLES, AIR INTAKES, AND EXHAUST LOUVERS TYPES CzS-A, CzS-A-HF, CzS-A-HV, Czs-B, ZSR-N



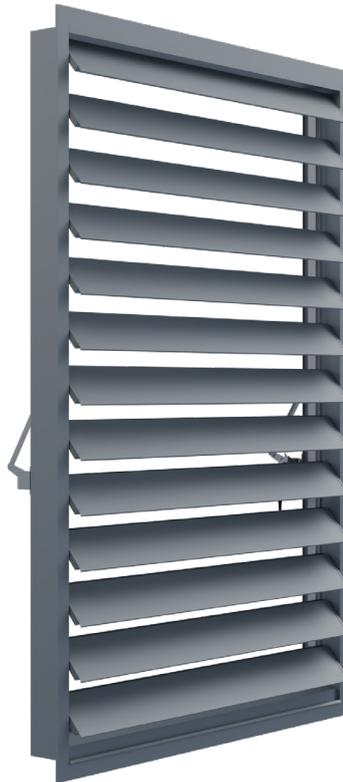
External air inlets and grilles play a key role in ventilation systems by ensuring an adequate supply of fresh air and protecting the installation from contamination and damage. Our products are solidly built from durable materials like stainless steel, galvanized steel, or aluminum, making them resistant to weather conditions such as rain, snow, wind, and UV radiation. Saw-Pol offers external components in various aesthetic and color options to complement the building's facade. Our air inlets and grilles can include filters or protective meshes to safeguard the ventilation system from contaminants, extending the system's lifespan and reducing maintenance frequency—highly recommended in buildings with stringent hygiene requirements, such as hospitals.

Our standard product is the CzS-A wall air inlet, available in various versions to achieve desired parameters, from standard louver spacing to high-flow CzS-A-HF models, offering an optical opening of 90% and a net free area of 75%.





Saw-Pol also offers adjustable grilles, allowing the angle of the blades to be set as needed. Their primary advantages include precise airflow control, protection against weather conditions, and improved energy efficiency by allowing partial closure in unfavorable atmospheric conditions. These adjustable louvers can be operated manually (ZSR-N-R), by a pull-cord mechanism (ZSR-N-C), or electrically with an actuator (ZSR-N-S).



Manual control

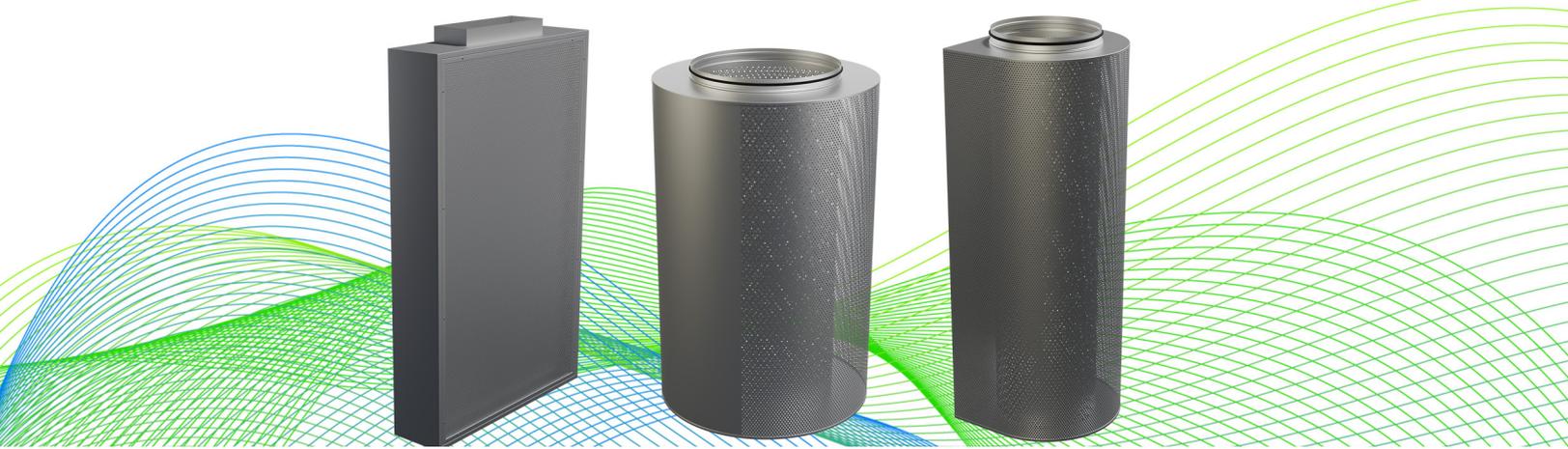


Control with actuator



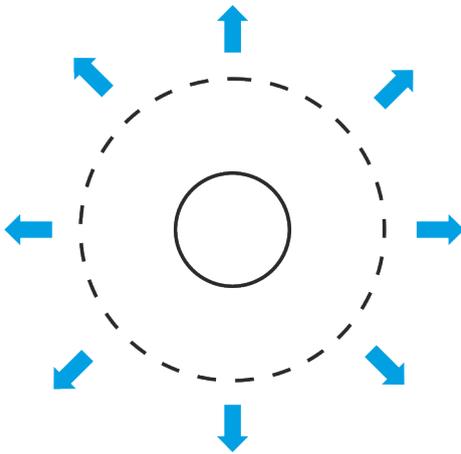


## DISPLACEMENT AIR DIFFUSERS: NW, NW-P, NW-N, NW-4P

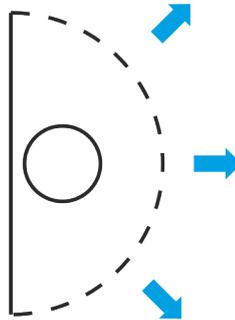


Displacement diffusers are modern and efficient ventilation solutions ideal for large public spaces like sports halls, conference rooms, and theaters. They deliver large volumes of air at low speed with a laminar flow. This ensures efficient ventilation with low acoustic power and pressure drop, crucial in locations like cinemas and theaters. We offer circular (NW), semi-circular (NW-P), corner (NW-N), and rectangular (NW-4p) displacement diffusers.

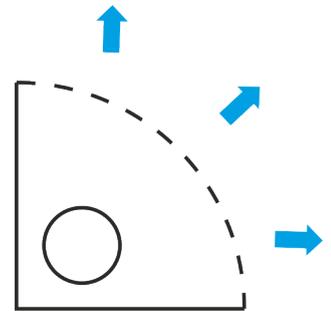
NW  
Round air  
diffuser



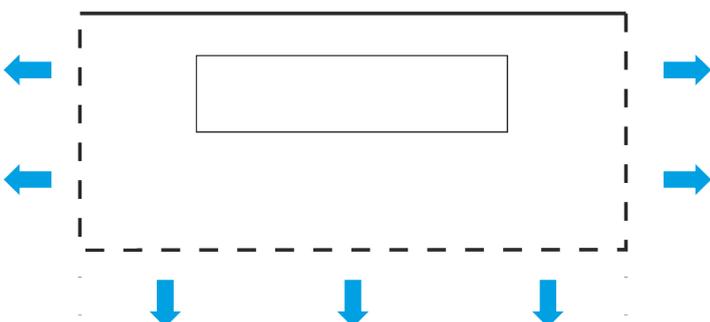
NW-P  
Half-round air  
diffuser



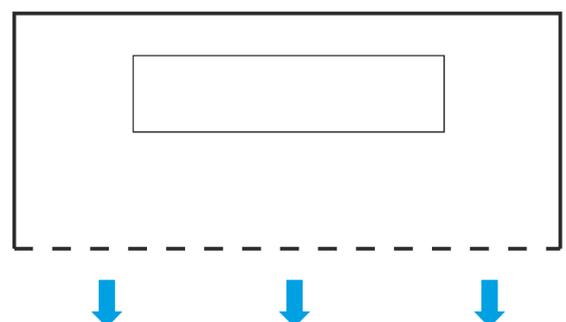
NW-N  
Corner air diffuser



NW-4P  
Rectangular  
air diffuser

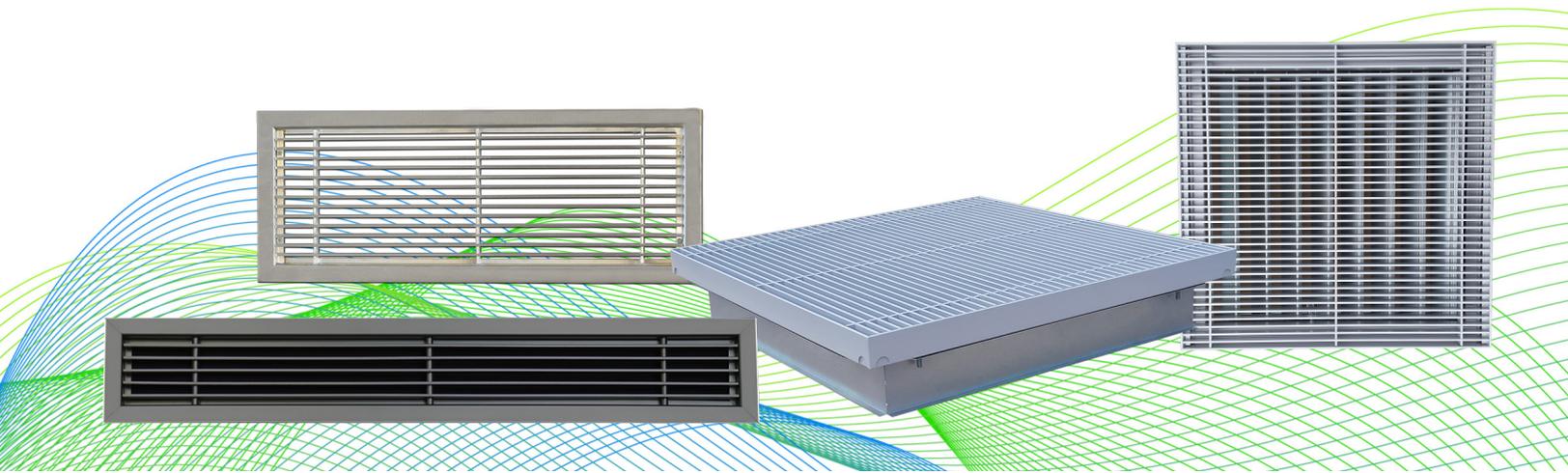


NW-4P  
Rectangular  
air diffuser





## LÜFTUNGSGITTER FÜR BODENEINBAU KPWP, KPP-1



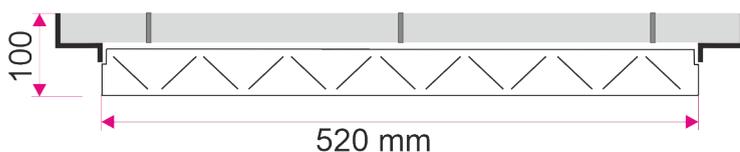
In modern buildings with technical floor systems, air supply grilles are often installed in the floor. This solution is commonly found in server rooms, data centers, and modern offices where raised floors enable easy layout changes. For such applications, we offer the KPP-1 grille. We also provide grilles for direct floor installation in buildings where the ventilation system is integrated with the flooring, such as conference rooms, theaters, and shopping galleries.



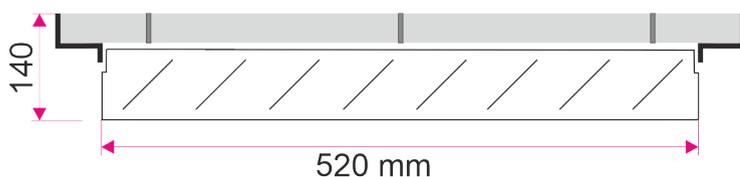
Floor grille KPWP



Floor grille KPP-1



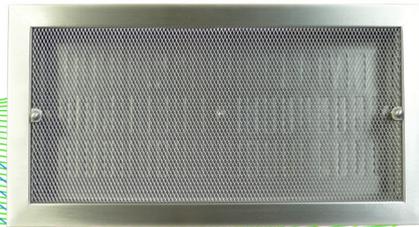
Floor grille KPP-1  
With opposed damper GP



Floor grille KPP-1  
With parallel damper GW

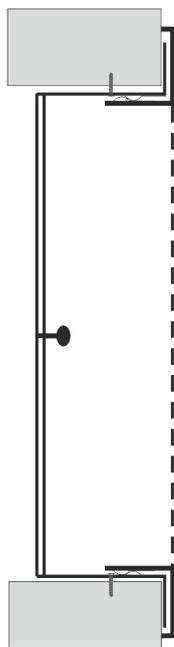


## HYGIENIC GRILLES FOR HOSPITALS - KLH HYGIENIC GRILLES

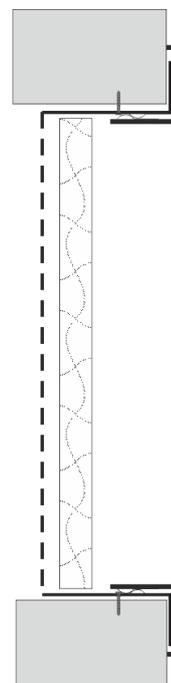


Hygienic grilles, also known as lint traps, are specialized devices used in ventilation systems, particularly in facilities where fiber contamination from medical dressings may occur, such as hospitals, clinics, and laboratories. These grilles aim to eliminate such particles, essential for ensuring air cleanliness, health protection, and proper ventilation system operation. They help reduce the risk of hospital-acquired infections, including the spread of pathogens and allergens. Saw-Pol's hygienic grilles are made of corrosion-resistant materials and designed for easy cleaning, crucial in medical facilities where hygiene is paramount.

Air grille KLH with damper



Air grille KLH with filter





# SAW-POL

Our solutions guarantee efficiency, safety, and energy savings. With over 20 years of experience in the industry, you can trust us to deliver high-quality products tailored to meet the specific needs of your facility.



CE



ANSYS®





# SAW-POL

## Contact us!



PL/ENG

+48 663 530 034

+48 726 420 666

+ 48 726 786 888



office@sawpol.pl (EN/DE)



Office: Góra Św. Małgorzaty 31a

Production und warehouse: Góra św. Małgorzaty 25a

99-122 Góra Św. Małgorzaty, Poland

VAT iD: PL726-176-47-57



Complete product range

[www.sawpol.pl/en](http://www.sawpol.pl/en)