

Type WG-KUL



COMBINATION WITH A NON-RETURN DAMPER

Combinations of external weather louvres and non-return dampers as a protection against the direct ingress of rain, leaves and birds, and to prevent air from flowing against the intended airflow direction.

- Maximum width of 2000 mm, maximum height of 1665 mm

- Low differential pressure due to aerofoil blades
- Low air-regenerated noise
- All aerodynamic data is measured in aerodynamics and acoustics laboratories
- Maximum differential pressure: 100 Pa
- Available in standard sizes and many intermediate sizes
- Pre-assembled combination, hence fast and easy to install

Optional equipment and accessories

- Installation subframe
- Insect screen
- Powder-coated or anodised surface

APPLICATION

Application

- Combinations of Type WG external weather louvres and Type KUL non-return dampers for protecting fresh air and exhaust air openings in air conditioning systems
- Protection against the direct ingress of rain as well as against leaves and birds
- Recommended face velocity for fresh air openings: 2 – 2.5 m/s max.
- Prevention of unwanted airflows against the intended airflow direction when the system is not in operation
- Blades close automatically when the system is shut down

Special characteristics

- Any intermediate sizes within the standard size range are available
- Low installation effort on site since external weather louvre and non-return damper are factory combined and assembled
- Temperature resistant up to 80 °C
- For very large sizes, several combinations can be arranged side by side or on top of each other
- Maximum pressure of 100 Pa
- Low differential pressure due to aerofoil blades
- Non-return dampers are opened and closed by the airflow; no actuator is required

DESCRIPTION

Variants

- WG-KUL: External weather louvre made of galvanised sheet steel, with non-return damper
- WG-AL-KUL: External weather louvre made of aluminium, with non-return damper
- 1: Fresh air opening
- 2: Exhaust air opening

Accessories

- Installation subframe: Installation subframe for the fast and simple installation of external weather louvres

INFORMACIÓN TÉCNICA

FUNCTION

Functional description

External weather louvres are externally mounted air transfer devices for the fresh air and exhaust air of air conditioning systems. They are installed in external walls and façades. Their narrowly arranged blades give good protection against the direct ingress of rain as well as against leaves and birds.

Under certain unfavourable conditions, such as heavy rain, and depending on the airflow velocity it might happen that slight quantities of water enter together with the air.

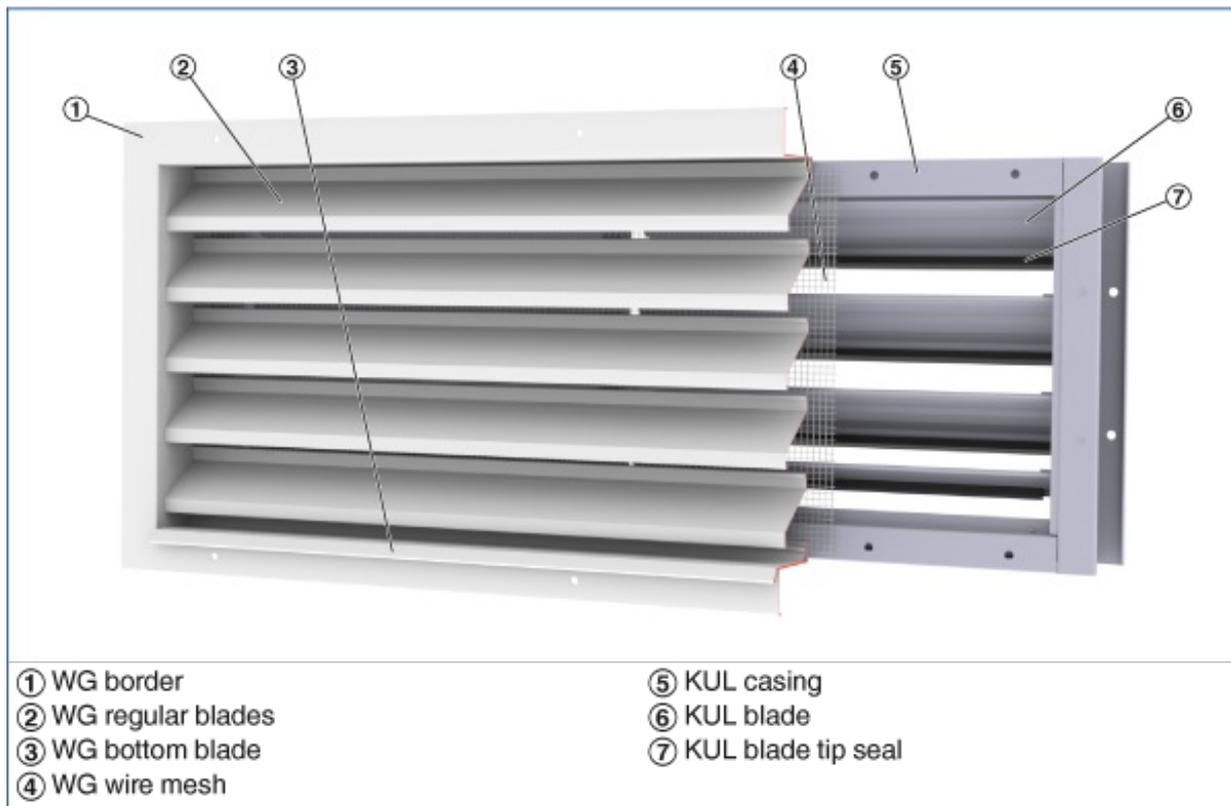
This is why the airflow velocity in fresh air openings should not exceed 2 – 2.5 m/s.

Non-return dampers close automatically.

When the system is in operation, the blades open when air flows.

When the system is shut down, the blades close due to their weight and safely prevent air from flowing against the intended airflow direction.

Schematic illustration of WG-KUL



TECHNICAL DATA



SPECIFICATION TEXT

Combinations of an external weather louvre and a non-return damper.

Rectangular external weather louvre as a protection of air conditioning systems against the direct ingress of rain, leaves and birds into fresh air and exhaust air openings.

Rectangular non-return damper to prevent air from flowing against the intended airflow direction.

Ready-to-install component which consists of a border, aerofoil rain defence blades, and a wire mesh at the rear.

Non-return damper which consists of a casing, blades with low-friction bearings, and travel stop and sealing parts.

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- Temperature resistant up to 80 °C
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Technical data

- Nominal sizes: 200 × 180 to 1600 × 1665 mm
- Volume flow rate range: 40 – 6260 l/s or 144 – 22536 m³/h at 2.5 m/s
- Free area of approx. 60 % (with insect screen approx. 45 %)
- Total differential pressure – exhaust air: 55 Pa at 2.5 m/s
- Total differential pressure – fresh air: 60 Pa at 2.5 m/s

ORDER CODE



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