AIR CONDITIONING RANGE

OSK 900

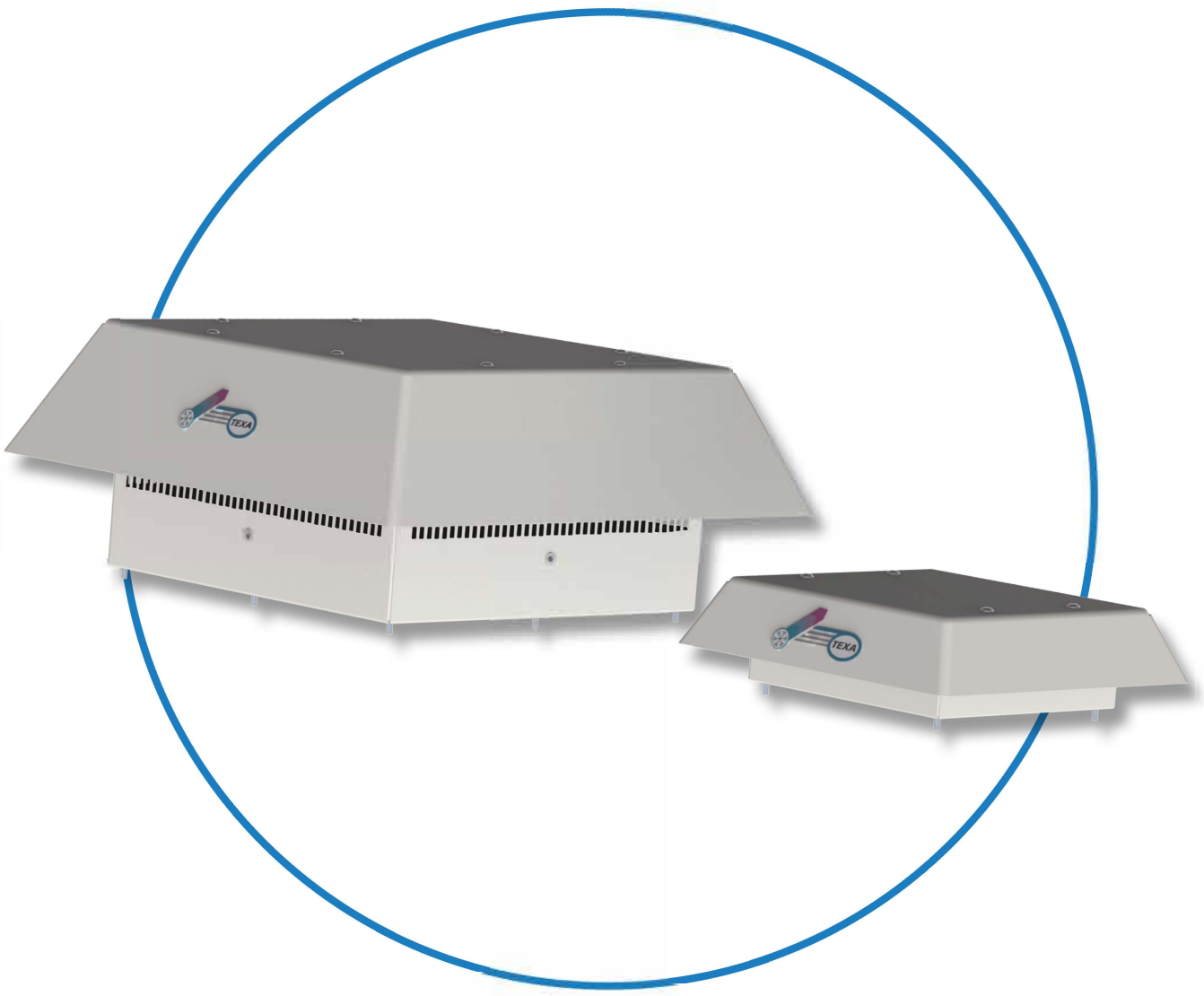
DLK

Roof-mount fans

A tough frame combined with an attractive design sets the DLK range of roof ventilators apart.

ORELL

www.orelltec.com



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DLK

Roof-mount fans

APPLICATION

Featuring easy installation and an attractive, innovative design, the DLK range of roof-mount fans are the ideal solution when there is no space on the cabinet walls, or the air flow is higher than that available with the FAN range of ventilated grilles.

AVAILABLE AIR FLOW RATES

Available in 6 sizes: from 600 to 4000 m^3/h. The fans used are centrifugal models with motor shafts with bearings. High quality and with high volumetric efficiency, they have an expected lifetime of 50,000 hours at an ambient temperature of 40 °C.

HIGH IP RATING

The special configuration of the covering structure and the self-adhesive seal for coupling to the enclosure allow DLK/DLR units to achieve an IP44 rating. On request, a filter kit is available which allows an IP54 rating to be achieved.

NATURAL VENTILATION UNIT

A version without fan is also available: DLR19XX0B. This is used when natural ventilation is sufficient to cool the cabinet and you wish to maintain a high IP rating for the cabinet.

AVAILABLE POWER SUPPLIES

DLK roof-mount fans are available for 230V and 115V single-phase power supplies. On request, versions for supply voltages not present in the catalogue can be produced for orders of sufficient quantities.

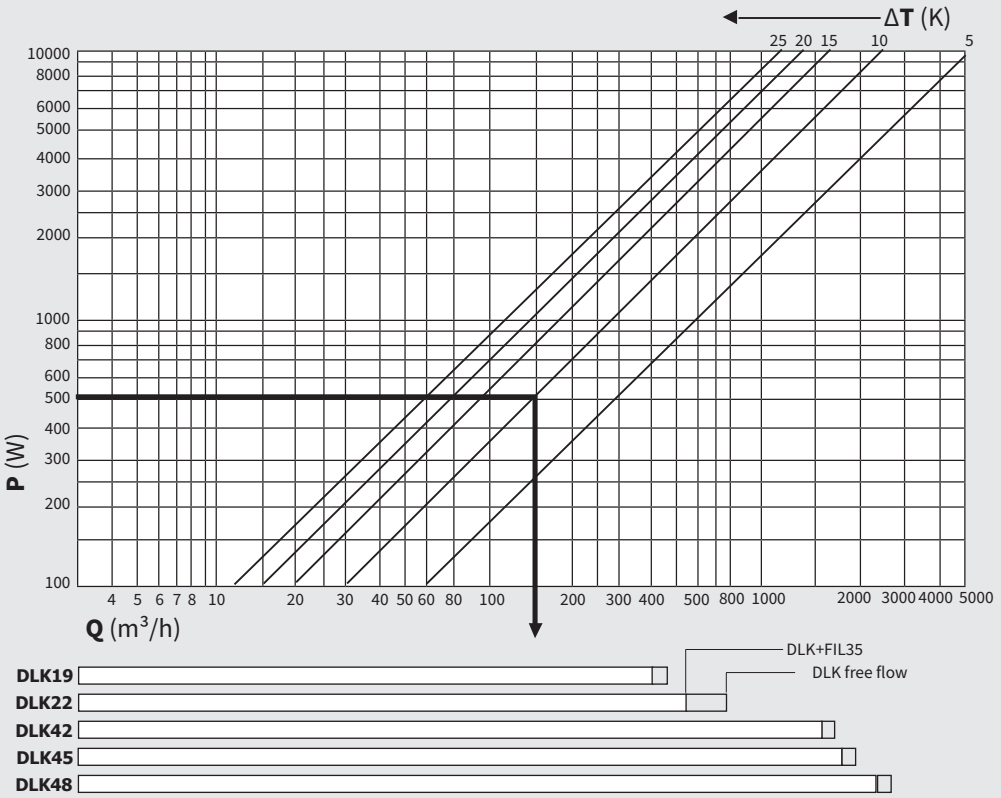
LOW NOISE LEVEL

Reduction of noise levels is a precise criteria aimed for when developing the DLK units. They have been designed to minimise disturbance from noise and thus help provide quiet working environments.

FILTER UNIT

DLK roof-mount fans can be used together with the FIL35XN0B filter grille for intake of air in the cabinet.

Selection diagram for roof-mount fans



Q = Air flow rate
P = Power dissipated in the cabinet
ΔT = Temperature differential

Example:

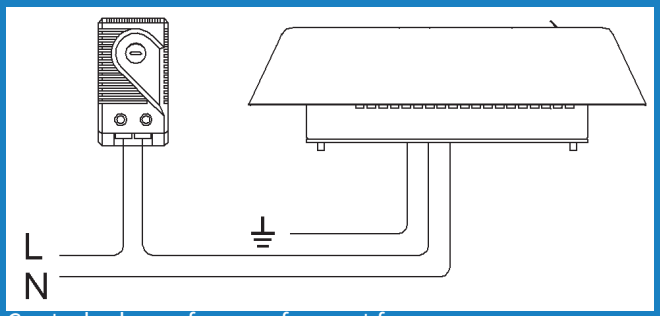
Dissipated power	500 W	Unit chosen **DLK19**
Temperature differential	10 K	
Necessary flow rate	160 m³/h	

Application tips

■ When choosing the DLK roof-mount fan, retain a safety margin of at least 10% to take into account the decrease in flow rate caused when the fabric filter gets dirty.

■ If using a high-efficiency filter fabric, bear in mind that the air flow will be reduced.

■ The DLK roof-mount fan can be installed via a thermostat which provides power to it only when the temperature exceeds a set threshold (e.g. 35°C). In this way the fan operates only when it is needed to provide cooling, saving energy, extending the life of the fabric filter and reducing maintenance.



Control scheme for a roof-mount fan using AAFTO12 thermostat