

OSK 800

FAN

Ventilation units with filter

Quick installation and simple maintenance:
the FAN range is our product range for electrical cabinet ventilation.



ORELL

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WIDE RANGE OF AIR FLOW RATES

Air flow rates range from 36 to 920 m³/h. The standard air flow direction is from the exterior to the interior of the cabinet for all ventilation units. The user can easily invert this by simply removing and reinstalling the fan in the reverse direction.

REDUCED EXTERNAL SIZE

The external projection is just 5 mm, in order to eliminate operational problems during transport and use of the cabinet due to excessive external dimensions.

REFINED DESIGN

As well as the attractive design of the grille, the minimal external protrusion ensures a positive aesthetic impact which supplements and improves the look of the cabinet. The grille and fan support system are made of extremely tough, self-extinguishing impact-resistant ABS, which meets UL94 V0 requirements. The standard colour is RAL 7035. On request, non-standard colours are possible for orders of sufficient quantities.

QUICK INSTALLATION

Installation is made simple and fast by making a square cut-out in the cabinet panel and by the snap fastening system which does not require fastening screws. The snap fastening system can be used on panels between 1.2 mm and 2.4 mm thick, which is virtually all. For thicknesses outside these limits, fastening can still be performed using the pack of screws included in all packs for this eventuality.

HIGH RELIABILITY

The fans used all feature motor shafts with bearings. High quality and with high volumetric efficiency, they have an expected lifetime of 30,000 hours at an ambient temperature of 55 °C. They all feature provision for making easy and safe electrical connections.

OPTIMISED PROTECTION OF THE CABINET

The special configuration of the watertight grille, the self-adhesive seal for coupling to the enclosure and the EU4 filter allow FAN units to achieve an IP54 rating. IP55 rated ingress protection can be achieved with optional accessories.

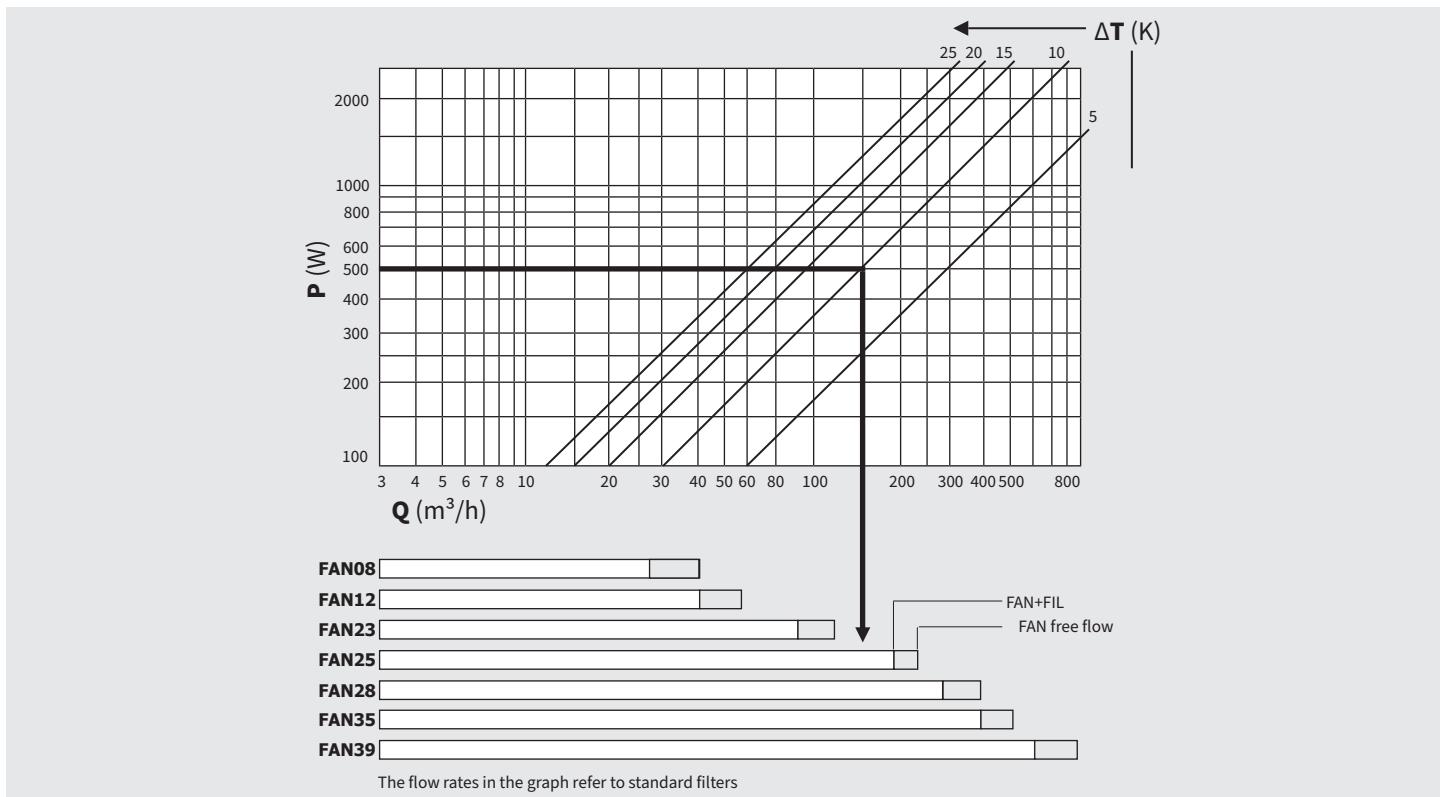
SUPPLY VOLTAGE

The FAN units are available for the most common supply voltages: 230V single phase, 115V single phase and 400V two phase, all 50-60Hz dual frequency; also available in 24V DC and 48V DC versions up to 230 m³/h. On request, versions for voltages not present in the catalogue can be produced for orders of sufficient quantities.

FILTER UNIT

FAN units can be used together with FIL filter meshes for expulsion of the air from the cabinet. Available in four sizes and created as the external part of the FAN unit, they allow the hot air to be expelled from the cabinet while maintaining its ingress protection rating.

Selection diagram for ventilation units with filter



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

Example:

Dissipated power	500 W
Temperature differential	10 K
Necessary flow rate	160 m^3/h

} Unit chosen
FAN25



Application tips

- When choosing the FAN unit, 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 possible, always favour the use of units with the air flow from the exterior of the cabinet to the interior. The resulting slight increase in pressure inside the cabinet prevents the ingress of dust through any unsealed cracks.
- If using a high-efficiency filter fabric, bear in mind that the air flow will be reduced.
- The use of DC powered FAN units can be the best way to prevent disturbances in monitors or other sensitive equipment inside the cabinet.

The FAN unit can be installed in conjunction with a N/O thermostat (AAFT012) which provides power to it only when the temperature exceeds a set threshold (e.g. 35°C). The Fan operates only when it is required to provide cooling, saving energy, extending the life of the fabric filter and reducing maintenance.