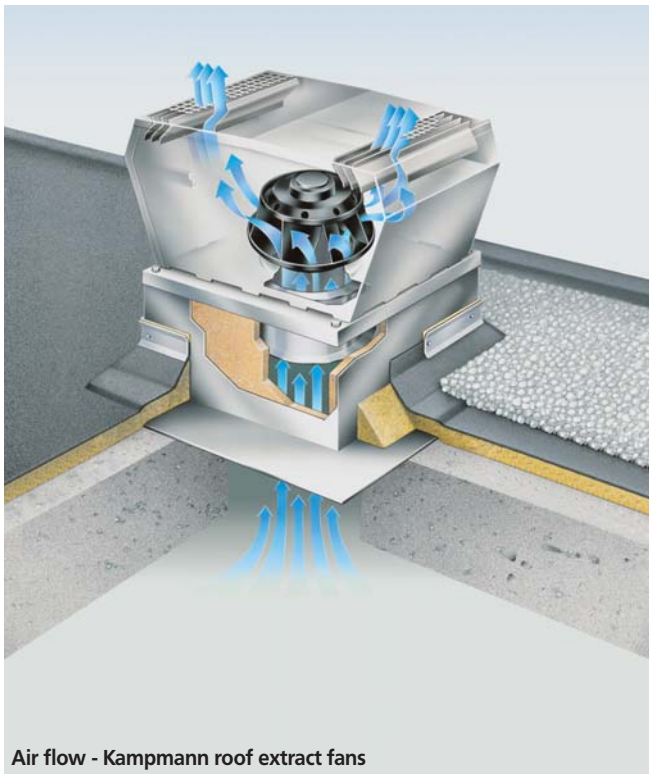


# Roof extract fans

## Controlled building ventilation



Air flow - Kampmann roof extract fans

### Roof extract fans: Quiet-running with a long service life

The complex three dimensional blade surfaces of the diagonal impellers and the aerodynamically optimised fan housing guarantee the quiet running of these units. In addition, the long service life is guaranteed by the salt-water-proof aluminium housing.

### Motor

The impeller drive is provided by 3-phase 400 V or 1-phase 230 V external rotor motors.

- Electrical ratings are in accordance with regulations for rotating electrical machines DIN EN 0350
- Windings with thermal class F insulation
- Maintenance-free, low-noise operation using specially greased ball bearings on both sides.

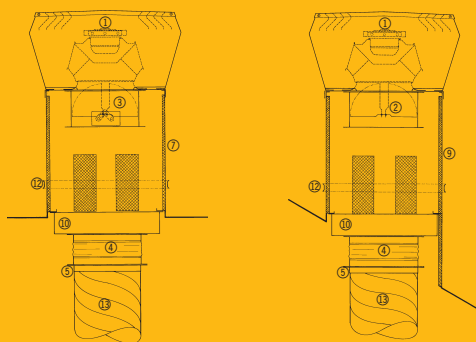
The impeller works such that a secondary flow of air cools the motor. The motor housing is made entirely of diecast aluminium and is permanently protected from corrosion by a multi-layer plastic coating.

### Housing

The fan housing has two upwards-pointing discharge openings. They carry the extract air way above the roof in a straight, vertical direction, preventing the extract air from soiling the roof. A security cover grille is fitted over the discharge openings.

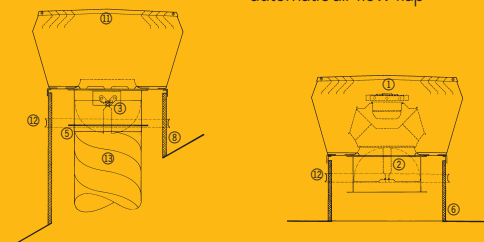
Roof extract fan on flat roof duct section with noise attenuation

Roof extract fan on sloping roof duct section with noise attenuation



Roof extract fan housing, used as induction hood, on sloping roof duct section

Roof extract fan on flat roof duct section, unrestricted air entry through automatic air flow flap



### Technical data

| Height<br>A<br>mm | Width<br>H<br>mm | Depth<br>K<br>mm | Air volume<br>V<br>m³/h |
|-------------------|------------------|------------------|-------------------------|
| 334 – 531         | 364 – 818        | 563 – 1132       | 560 – 11230             |

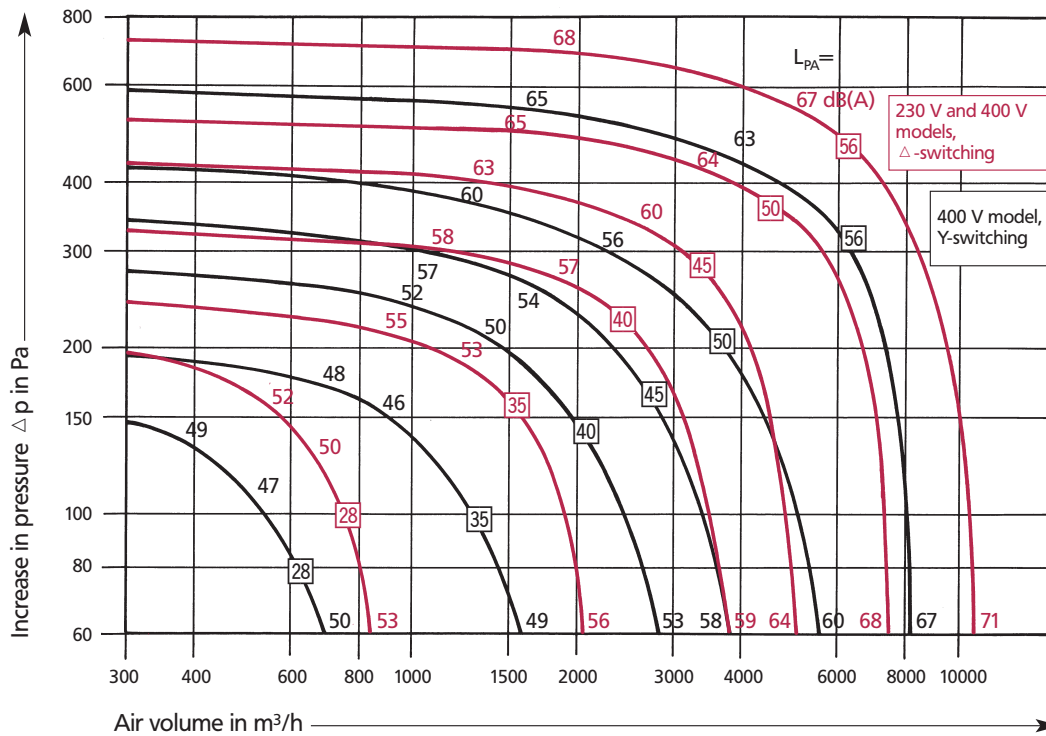
### Construction

- ① Roof extract fan
- ② Automatic air flow flap
- ③ Motorised air flow flap
- ④ Flexible connection
- ⑤ Counter flange
- ⑥ Flat roof duct section
- ⑦ Flat roof duct section with noise attenuator
- ⑧ Sloping roof duct section
- ⑨ Sloping roof duct section with noise attenuator
- ⑩ Adaptor for roof duct with noise attenuation
- ⑪ Empty housing
- ⑫ Sealing profile, included with roof duct section
- ⑬ Flexible ducting, by others

# Roof extract fans

## Quick selection diagrams • Type numbers

### Roof extract fans, 4-pole single phase and 4-4-pole three phase motors



Red air volume curves indicate:

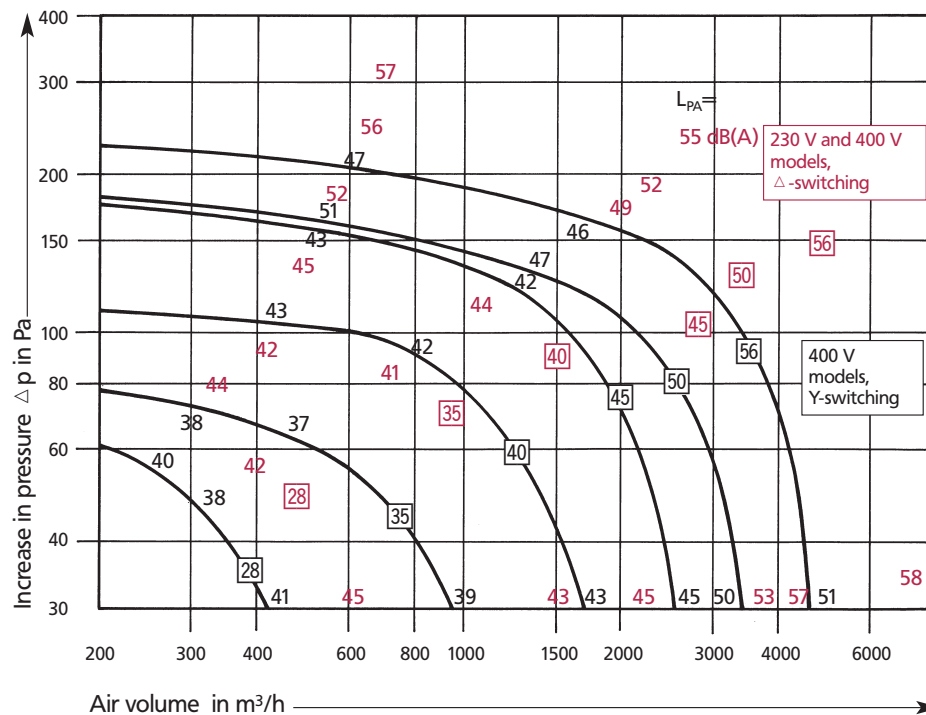
- 1-phase (230 V) units, single stage operation, and
- 3-phase (400 V), operating at fan stage 2 (triangle) with 2-stage operation.

Blue air volume curves indicate:

- 3-phase (400 V) models, operating at fan stage 1 (star) with 2-stage operation

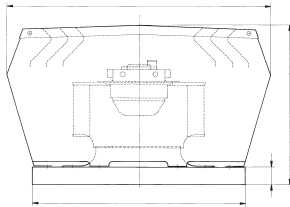
$L_{PA}$  [dB(A)] = total sound pressure level at 4 m from induction side without noise attenuation

### Roof extract fans, 6-pole single phase and 6-6-pole three phase motors

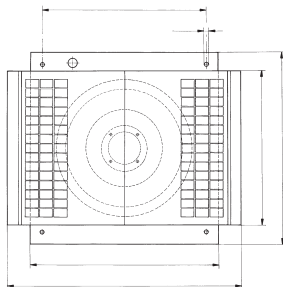


### Roof extract fan type numbers

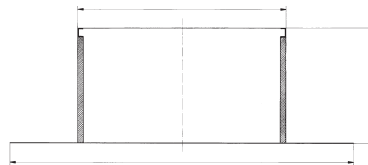
|                                                      |    |    |
|------------------------------------------------------|----|----|
| 28                                                   | 44 | 10 |
| 0                                                    | 1  | 0  |
| without repair switch                                |    |    |
| 1 with integral repair switch (not for Eex e-models) |    |    |
| 1 single phase, 230 V, 50 Hz                         |    |    |
| 3 three phase, 400 V, 50 Hz                          |    |    |
| 7 three phase, 400 V, 50 Hz, Eex e-protected         |    |    |
| Number of poles                                      |    |    |
| 44                                                   | 66 | 40 |
| 44                                                   | 66 | 40 |
| 44                                                   | 66 | 40 |
| 44                                                   | 66 | 40 |
| Model                                                |    |    |
| 28/35/40/45/50/56                                    |    |    |



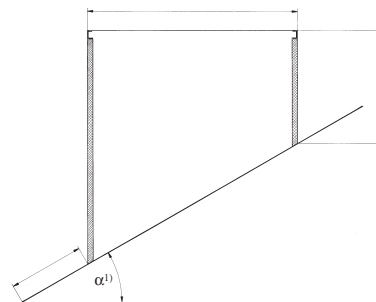
Side view



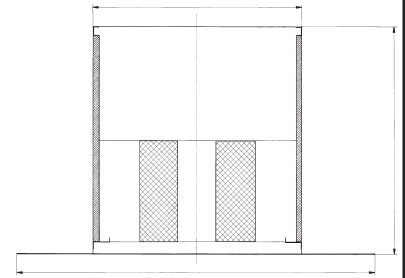
Plan view  
Roof extract fan with radial impeller  
type \* ----



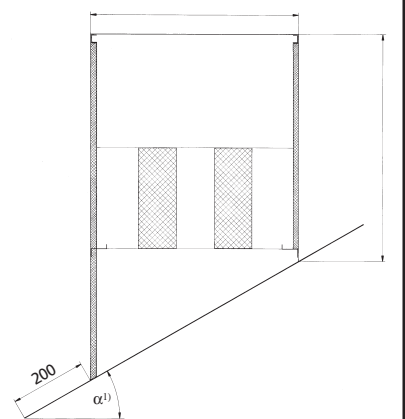
Flat roof duct section  
type \* 400



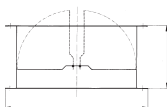
Angled roof duct section  
type \* 600



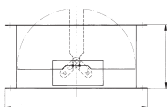
Flat roof duct section with noise  
attenuator type \* 500



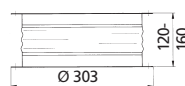
Angled roof socket with noise  
attenuator type \* 700



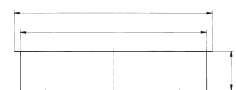
Fresh air flap, automatic



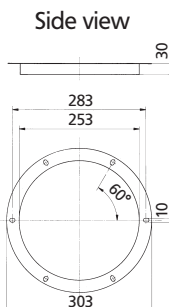
Fresh air flap, motorised<sup>3)</sup>  
type \* 110



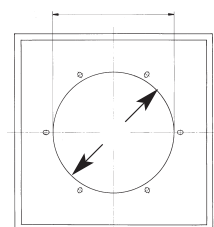
Flexible induction section  
type \* 200



Side view



Plan view<sup>2)</sup>  
Counter-flange type \* 300



Plan view  
Connecting section for use with  
roof duct with noise attenuation  
type \* 800

<sup>1)</sup> Please state angle of roof when ordering

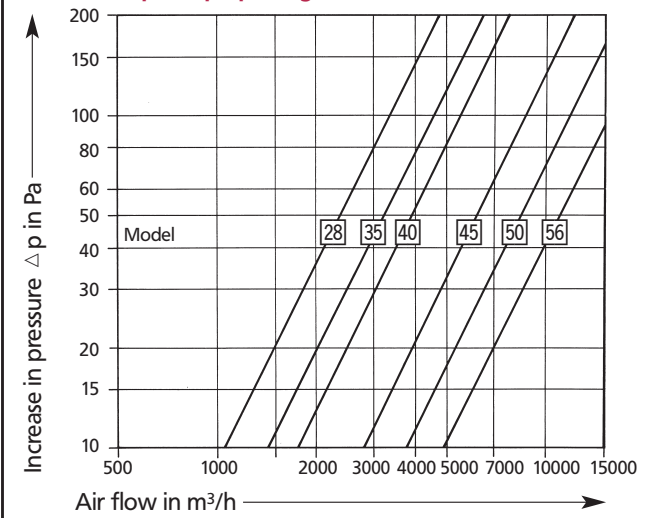
<sup>2)</sup> Dimensions are same for all circular connecting flanges

<sup>3)</sup> not suitable for use with Ex-protected roof extract fan

\* Insert model no.

## Controlled ventilation for retail and industry • Components

**Pressure drop - Flap opening**



### Flap opening, automatic, type \_\_ 100

The automatic flap opening has a flange on both sides and as fitted on the induction side of the roof extract fan. The airflow opens the flaps automatically. When the fans are not working, the weight of the flaps shuts them automatically to prevent the ingress of cold air.

### Flap opening, motorised, type \_\_ 110

The motorised flap opening is strongly recommended in windy locations (coastal, cliff top locations), as it prevents the flap rattling due to different internal and external pressures. The design is identical to the automatic model type \_\_ 100 with the difference that the flap is moved by an actuator, which, in turn is controlled by a stage switch.

Not suitable for use with Ex-protected (Eex e) models.

### Flat roof duct section type \_\_ 400

### Angled roof duct section \_\_ 600

The flat roof and angled roof duct sections are manufactured from salt water-resistant aluminium and are fitted with 20mm thick insulation. The duct comes complete with base plate and welded joints. It facilitates the quick and easy fitting of roof extract fans on flat and sloping roofs. The angle of slope of the roof should be stated when ordering the angled roof duct.

### Flat roof duct section with noise attenuator type \_\_ 500

### Angled roof duct section with noise attenuator type \_\_ 700

The design of these ducts is identical to the previous ones with the difference that the height of the insulation is reduced to allow the flap opening to be fitted. The angle of slope of the roof should be stated when ordering the angled roof duct.

### Connecting section for use with roof duct with noise attenuator type \_\_ 800

This connecting section allows a counter-flange or induction flange to be fitted to a roof duct section with noise attenuator.

### Flexible induction section, type \_\_ 200

The flexible induction section consists of a fabric duct between two flanges and reduces vibration transfer between the roof extract fan and the duct system. The length of this section can be adjusted to between 120 and 160 mm.

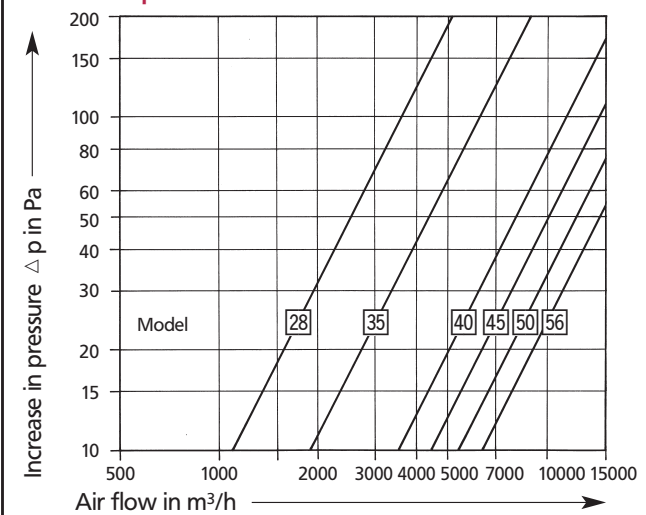
### Counter-flange, type \_\_ 300

The counter-flange enables roof extract fan components, such as the flap opening or flexible induction section, to be connected to the duct system. The flange dimensions comply with DIN 24154 part 1.

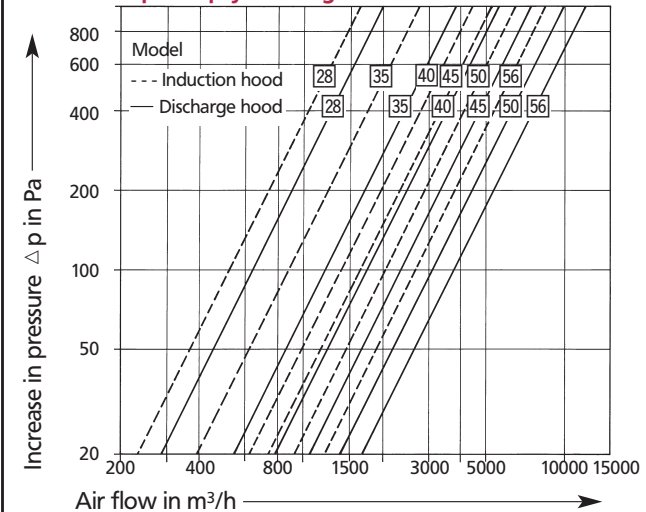
### Empty housing, type \_\_ 020

The empty housing serves to protect an induction or discharge opening in the roof from the effects of weather. The base plate is fitted with bolts for the connection of further components.

**Pressure drop - Roof duct section with noise attenuator**



**Pressure drop - Empty housing**



\* Insert model size