Fan Solutions for smoke extraction

Issue 4.1 EN

NICOTRA Gebhardt

fan|tastic solutions

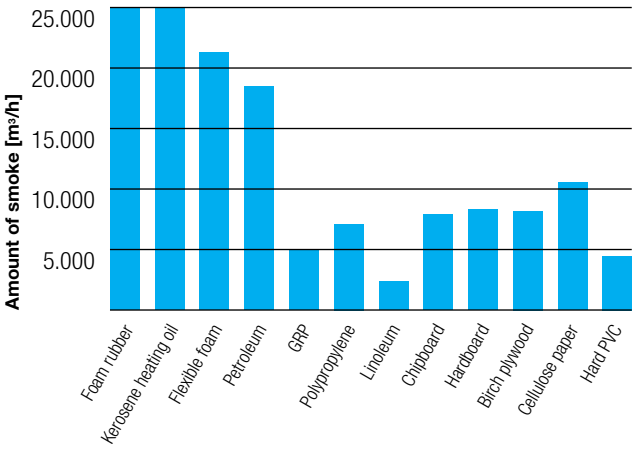
You have to understand fire to master smoke extraction

Perfect smoke extraction in the case of fire not only demands absolute understanding of the techniques used – it also calls for an understanding of the nature of fire and the flow of fumes. **Nicotra Gebhardt** sets standards in both aspects – by using CFD to simulate the flow of smoke, for example.

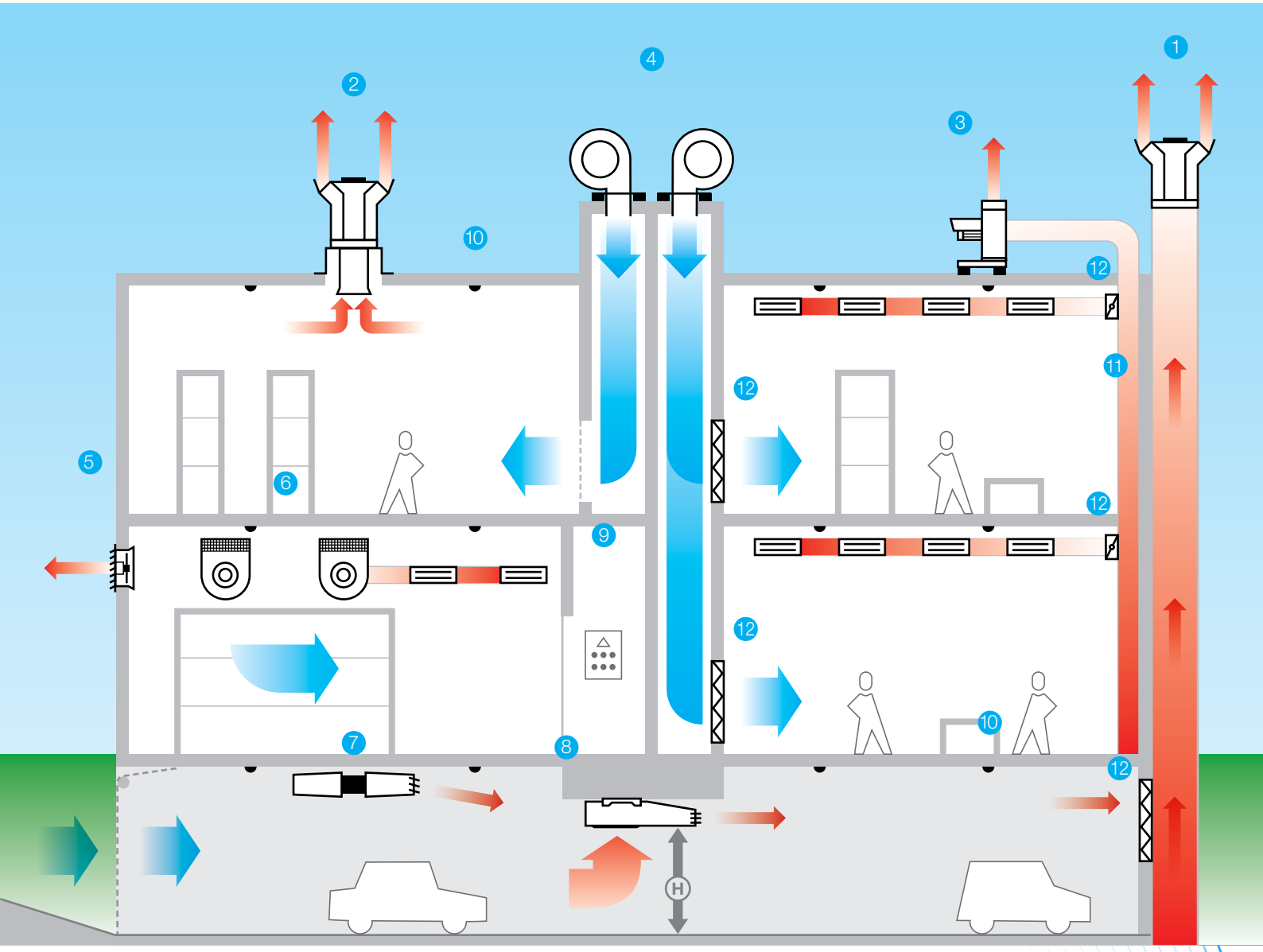
We can offer you the world's largest range of mechanical smoke extraction solutions – compiled in this brand new SafeAir catalogue. With our wall, roof, radial, axial and pulse fans, we master every form of smoke extraction, whatever the application. We thereby ensure maximum safety throughout any building – from the underground car park to the roof – and comply with all the statutory norms for building fire protection.

Find out about our range of modern smoke extraction systems in this catalogue and see for yourself what good value intelligent smoke extract fans from **Nicotra Gebhardt** are. And above all: act on it before it is too late! We would be happy to advise you.

Conflagration gases and fumes emitted by burning 10 kg of each material



Safe smoke extraction solutions from the cellar to the roof!

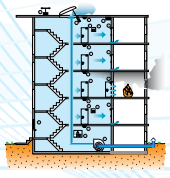


1. *genovent* smoke extractor roof fans, RDM 57
2. *genovent* smoke extractor roof fan, RDM 56
3. Radial smoke extractor fan, REM BU/RER 13; 17
4. 2 Centrifugal fans for supply air
5. SLCS axial smoke extractor fan
6. RWM 57 smoke extractor wall fan
7. AGM Jetfan *prevent* smoke extractor pulse fan
8. RGM Jetfan *prevent* smoke extractor pulse fan
9. Smoke detector switchgear (out of fire zone)
10. Optical smoke detector
11. Duct – F 90
12. Smoke dampers

(H) Headroom according to garages regulation

Smoke extraction

Supply air

		Flow rate						Conveying medium			Discharge	Drive type		Material		
		14.000 m³/h	31.000 m³/h	37.000 m³/h	57.000 m³/h	65.000 m³/h	150.000 m³/h	300 °C – 120 min	400 °C – 120 min	600 °C – 120 min	Discharge	Direct drive	Belt drive	Aluminium	Galvanised steel	Coated steel	Insulating casing
RDM 56 | 57		●	●	●	●			●	●	●	↑	●			●		
RWM 57		●	●	●				●	●	●	→	●			●		
REM BU | BI		●	●					●	●	●	✥	●				●	●
RER 13 | 17		●	●	●	●	●	●	●	●		✥		●		●	●	●
SLCS		●	●	●	●	●		●			✥	●			●		
AGM | RGM		**AGM:** Thrust up to 52 N **RGM:** Thrust up to 75 N						●			↔	●			●	●	
AGM | RGM [CO]		**AGM:** Thrust up to 52 N **RGM:** Thrust up to 75 N						**+40 °C**			↔	●			●	●	
PPSP System		As necessary										●	●				

Smoke extract fans

RDM
Smoke Extract–Roof Fan with direct drive

Vertical discharge,
motor separated from airflow,
with outlet flaps, snow load class SL 1000

RDM 56 +400°C – 120 min.

RDM 57 +600°C – 120 min.

RWM
Smoke Extract–Wall Fan with direct drive

Horizontal discharge,
for wall installation,
motor separated from airflow

RWM 57 +600°C – 120 min.

REM
Smoke Extract–Centrifugal Fan with direct drive

single inlet, inlet and discharge sides with flange for duct system,
motor separated from airflow.

REM BU +400°C – 120 min.
without insulating housing.

REM BI +400°C – 120 min.
with insulating housing.

RER
Smoke Extract–Centrifugal Fan with belt drive

single inlet, inlet and discharge sides with flange for duct system,
motor separated from airflow.

RER 13 +400°C – 120 min.
welded, coated.

RER 17 +400°C – 120 min.
lock-seamed, galvanised.

SLCS
Smoke Extract–Axial Fan with direct drive

For horizontal and vertical installation, motor in airflow.

SLCS +300°C – 120 min.

SLCS +400°C – 120 min.
on request.

AGM
Smoke Extract–Axial Fan with direct drive

Axial Jet fan based on the pulse fan principle, motor in airflow.

AGM 01/02 +300°C – 120 min.
not reversible.

AGM 11/12 +300°C – 120 min.
reversible.

AGM 06/16 for ventilation of CO gases and continuous standard ventilation up to +40 °C. Not reversible and reversible models.

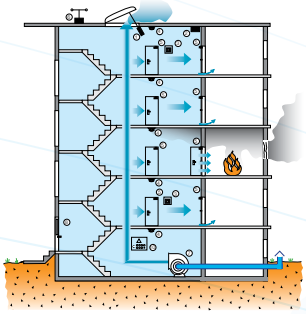
RGM
Smoke Extract–Radial Fan with direct drive

Radial Jet fan based on the pulse fan principle, motor in airflow.

RGM 91 +300°C – 120 min.

REM 96 for ventilation of CO gases and continuous standard ventilation up to +40 °C.

PPSP - Systems
Positive Pressure Smoke Protection – Systems



For indoor stairwells, corridors and emergency tunnels.

SafeAir

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