

Series RN



Supply and exhaust ventilation grille with fixed vanes

Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

Design

- Made of high-quality extruded aluminium shape and an insert piece of perforated steel or expanded mesh.
- Reinforced frame design provides 100 % grille rigidity.
- Special vane design prevents water ingress into a ventilation system.
- A built-in protecting mesh prevents ingress of foreign objects into a ventilation system.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

Modifications

- Available modifications with an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) for fast mounting.

Air flow distributions

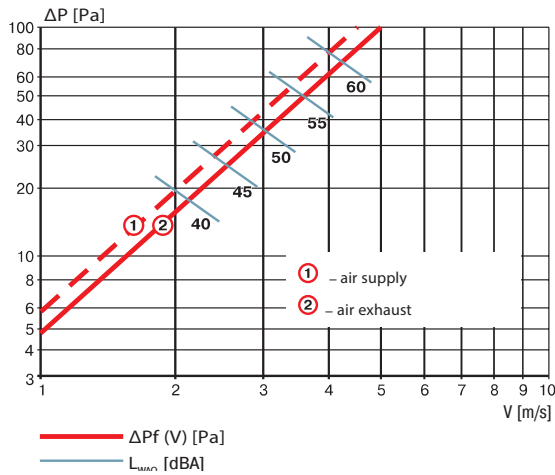


fixed (45°)

Standard size [mm] and air pass [m²]

Height H [mm]	Length L [mm]									
	300	350	400	450	500	600	700	800	900	1000
300	0.039	0.047	0.054	0.061	0.067	0.079	0.087	0.099	0.115	0.127
350		0.059	0.066	0.074	0.082	0.096	0.106	0.121	0.140	0.155
400			0.078	0.087	0.096	0.112	0.125	0.143	0.164	0.182
450				0.102	0.111	0.131	0.144	0.165	0.189	0.210
500					0.125	0.150	0.163	0.187	0.213	0.237
600						0.168	0.201	0.231	0.262	0.292
700							0.239	0.275	0.311	0.347
800								0.318	0.360	0.401
900									0.409	0.456
1000										0.511

Pressure loss and sound power level



Calculation formula	Correction factor K								
	S_{ap} [m ²]	0.03	0.05	0.07	0.10	0.15	0.2	0.3	0.4
$L_{wa} = L_{wa0} + K$	K [dBA]	4.5	3	1.5	0	+1.5	+3	+4.5	+6

Designation:

ΔP – pressure loss [Pa]

L_{wa} – sound power level [dBA]

L_{wa0} – sound power level for air pass 0.1 m² [dBA]

K – correction factor for sound power level calculation depending on air pass [dBA]

S_{ap} – air pass [m²]

V – rated speed [m/s]

Order code



Grille type:

RN – outer grille

Grille size:

L – length [mm]

H – height [mm]

Grille coating:

"__" – colour* (white by default)

"Anodized"

Accessories:

__ – no

A – adapter

Grille fixation:

u – versatile

* Standard polymer coating colours:



Overall and mounting dimensions

