

## RVNV Nordic Exhaust grille

RVNV Nordic is an exhaust grille, designed specifically for cold and demanding climates.

The insulated exhaust duct, controlled exhaust air velocity and separated intake and exhaust air paths reduce the risk of icing, condensation and air mixing, ensuring reliable year-round operation.

- Innovative air exhaust grille for wall mounting
- Compact design that integrates discreetly into the building façade
- Insulated exhaust duct reduces the risk of icing and icicle formation\*
- An exhaust air velocity of  $\geq 5$  m/s is ensured (with correct adjustment setting)
- Galvanized steel housing with powder coating ensures high weather resistance

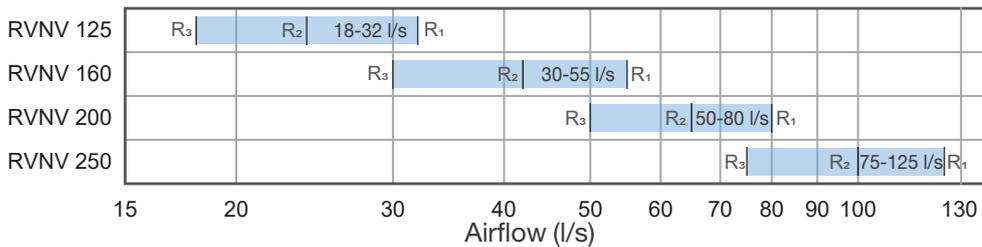


\* RVNV 125 and 160 tested according to EN 13141-8

### Application

With the RVNV-grille, air exhaust can be implemented through the wall surface. The product is particularly suitable for apartment-based and other small ventilation units where space efficiency and façade integration are important.

### Quick selection table

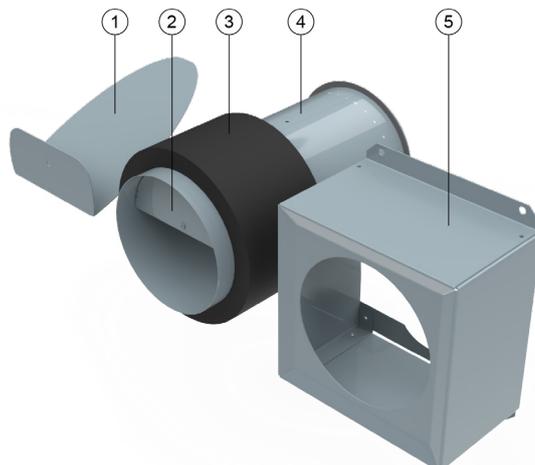


### Structure and dimensions

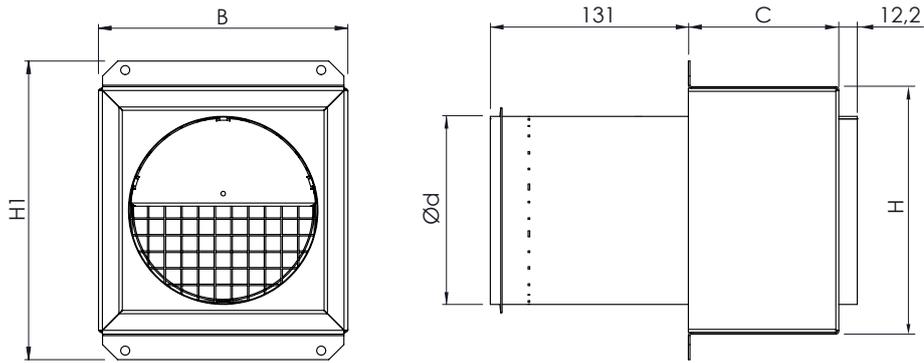
The RVNV exhaust duct is insulated within the housing with 19 mm thick Armaflex thermal insulation, significantly reducing the risk of condensation and ensuring reliable operation even in damp and cold conditions.

RVNV grilles are manufactured as standard from hot-dip galvanized steel (Z275) and finished in grey (RAL 7000). Custom orders are available in all RAL colours.

The set includes three different adjustment sections to achieve the required exhaust air velocity of 5 m/s across various airflow rates. The exhaust duct connection is equipped with a rubber gasket and a hot-dip galvanized protective mesh.



- 1 – Additional adjustment section
- 2 – Adjustment section
- 3 – Armaflex 19 mm
- 4 – Exhaust duct
- 5 – Exhaust housing



Product	D (mm)	B (mm)	H (mm)	B1 (mm)	H1 (mm)	C (mm)	Weight (kg)
RVNV 125	125	164	164	212	213	103	2,3
RVNV 160	160	201	196	249	247	152	4,0
RVNV 200	200	241	236	288	288	201	5,9
RVNV 250	250	291	287	339	338	271	9,2

### Adjustment section

The product includes three (R1, R2, R3) adjustment options to achieve the required exhaust air velocity of 5 m/s at different airflow rates. R1 represents the largest free outlet area (least restricted configuration), while R3 represents the smallest free outlet area (most restricted configuration).

Adjustment sections R1 and R2 are attached to the exhaust duct as standard.

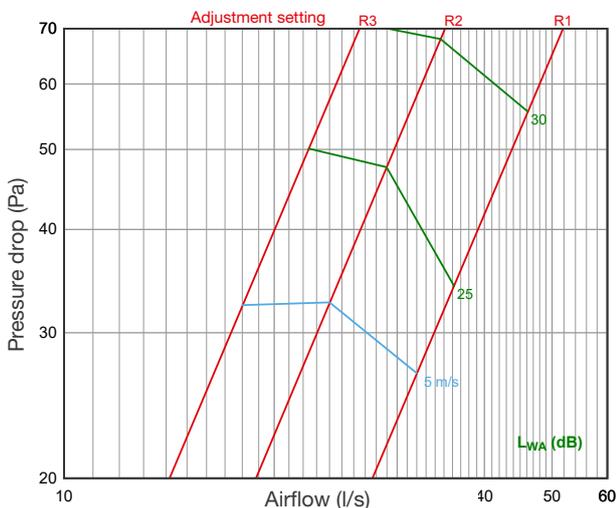
When operating at lower airflow rates, the exhaust opening is restricted by installing the appropriate adjustment section. The suitable adjustment section can be selected according to the table provided:

Product	Airflow range (l/s)	Airflow (l/s) for adjustment settings					
		R3		R2		R1	
		Nominal	Range	Nominal	Range	Nominal	Range
RVNV 125	18-32*	18	18-23	24	24-31	32	32- *
RVNV 160	30-55*	30	30-41	42	42-54	55	55- *
RVNV 200	50-80*	50	50-64	65	65-79	80	80- *
RVNV 250	75-125*	75	75-99	100	100-124	125	125- *

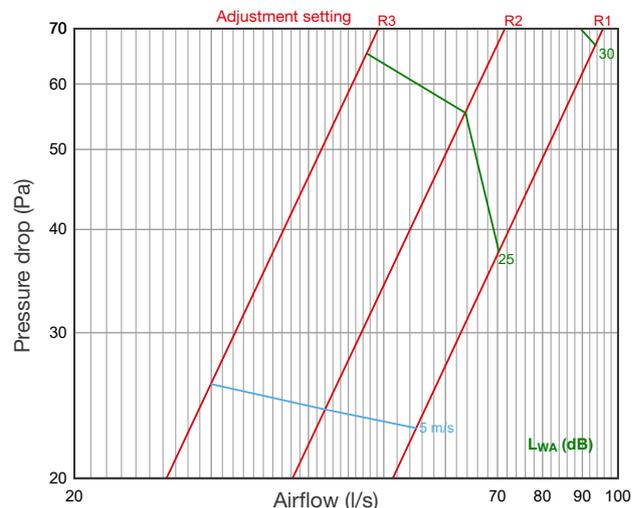
\* Upper airflow limits depend on system pressure conditions and shall be verified using the airflow/pressure graphs provided.

### Technical data

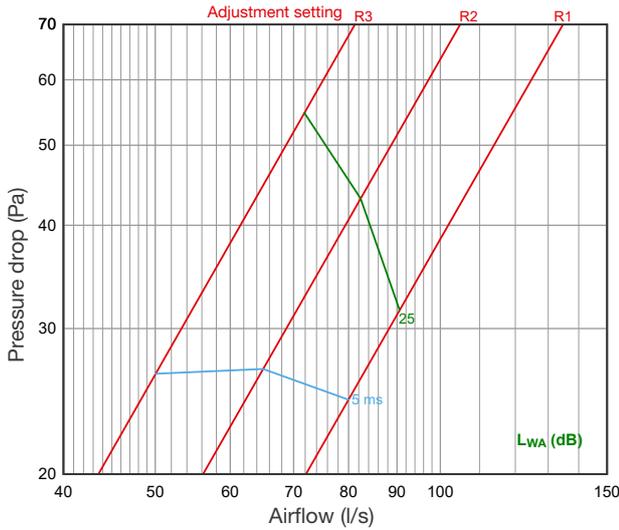
RVNV 125 - Exhaust air



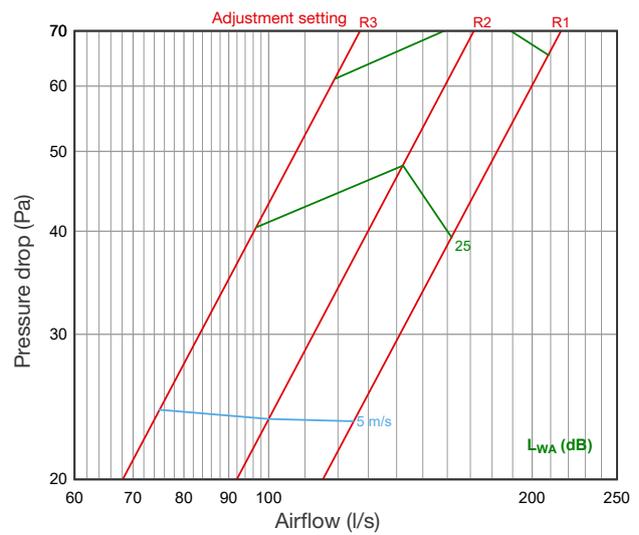
RVNV 160 - Exhaust air



RVNV 200 - Exhaust air



RVNV 250 - Exhaust air



Acoustic data

$$L_w = L_{wA} + K_{okt}$$

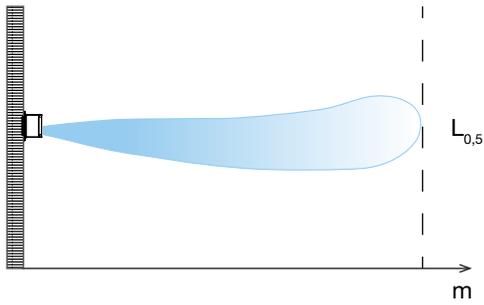
RVNV, exhaust air	Adjustment setting	Sound level correction factor $K_{okt}$ (dB)							
		Mean frequency of octave band (Hz)							
		63	125	250	500	1k	2k	4k	8k
RVNV 125	R1	14	-4	-3	0	-7	-13	-16	-12
	R2	19	-1	-2	1	-3	-3	-6	-8
	R3	18	2	0	2	1	1	-1	-5
RVNV 160	R1	15	1	0	-2	-8	-13	-13	-7
	R2	17	2	0	-2	-4	-7	-10	-8
	R3	17	-1	-3	-5	-9	-13	-12	-7
RVNV 200	R1	16	2	-1	-6	-11	-10	-11	-4
	R2	15	2	-2	-6	-9	-11	-10	-3
	R3	18	3	0	-4	-7	-11	-11	-4
RVNV 250	R1	8	1	-1	-2	-6	-12	-14	-8
	R2	8	1	0	-1	-3	-7	-11	-9
	R3	11	4	3	3	4	1	-3	-6

Sound attenuation

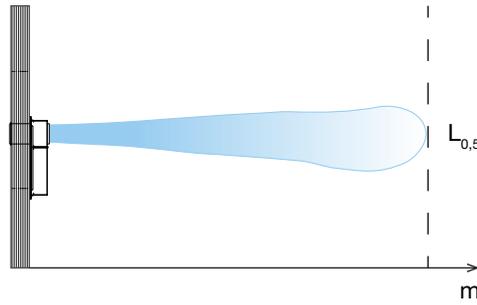
RVNV, exhaust air	Adjustment setting	Sound attenuation $D_{okt}$ (dB)							
		63	125	250	500	1k	2k	4k	8k
RVNV 125	R1	22	15	11	9	5	1	3	2
	R2	25	16	12	11	8	2	5	5
	R3	25	16	12	13	8	2	5	5
RVNV 160	R1	19	13	10	9	2	2	3	2
	R2	19	14	11	10	3	2	4	4
	R3	19	14	12	13	4	3	6	5
RVNV 200	R1	15	11	10	7	2	3	3	3
	R2	16	12	11	8	3	3	4	4
	R3	17	13	12	11	3	4	5	5
RVNV 250	R1	16	11	10	5	1	3	3	3
	R2	17	11	10	6	2	4	4	4
	R3	18	12	13	8	3	6	6	6

Exhaust airflow pattern at 5,0 m/s outlet velocity

Side view



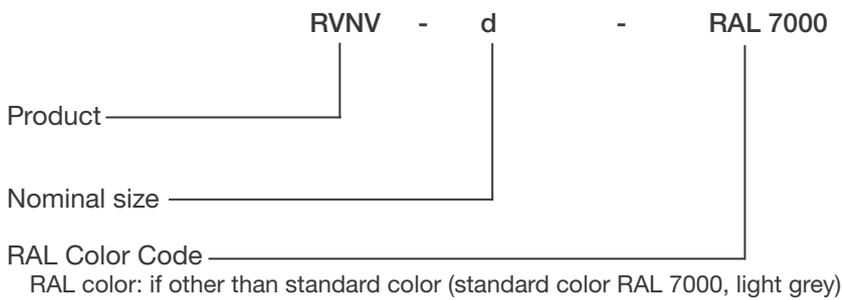
Top view



Product	Adjustment setting	Flow rate (l/s)	Throw length $L_{0,5}^*$
RVNV 125	R1	40	3,2
RVNV 125	R3	15	3,2
RVNV 160	R1	60	4,0
RVNV 160	R3	25	3,4

\*0,5 m/s end velocity; isothermal conditions; open outdoor environment.

Product marking



Example: RVNV 160 RAL7000