



EXK

Extract air valve for ceiling or wall installation.



Technical description

Design

EXK is used in kitchen, bathroom or other rooms where you want to remove waist air. The cone is adjustable for easy commissioning of the airflows, and can be locked in position afterwards. EXK can be mounted both in the ceiling or in the wall.

Materials and finish

EXK is delivered in powder coated steel sheet, white standard color RAL9003 /NCS 0500-N. The mounting frame EXKT is made of galvanized sheet steel with rubber seal. As accessory additional mounting frames EXKB and EXKF can be used in refurbishment purposes.

Project planning

Use dimensioning charts to design the unit.

Installation and commissioning

It is recommended to always use mounting frame to mount the valve in circular ducts. EXK is easy to install in its frame with spring feather fitting. EXK can be mounted direct into the duct. The commissioning pressure is measured with a probe and the airflow is calculated using the k-factor and the formula presented. Note the position of the cone. After commissioning, the valve is dismantled, and the cone position is locked with the nut in on the back of the cone.

MAINTENANCE

Clean the valve when necessary using warm water and soap. Alternatively use a vacuum cleaner. Turn the valve clockwise for dismantling.

COMMISSIONING FACTOR

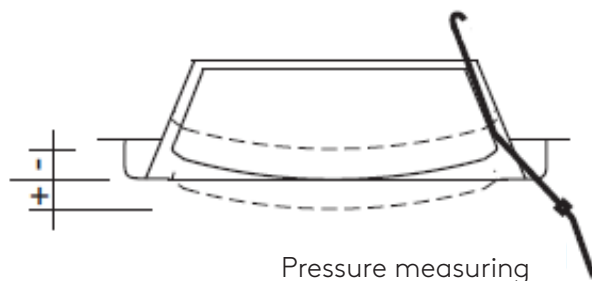
A pressure of at least 5 Pa is required to obtain at least ± 10% accuracy of the airflow.

Valve pos.	Dimension/Commissioning factor				
	080	100	125	160	200
-15	—	—	—	2,4	—
-12	—	0,4	1,6	2,9	3,2
-9	—	0,7	2,0	3,4	3,9
-6	—	1,0	2,3	3,8	4,5
-3	0,6	1,3	2,7	4,3	5,2
0	0,7	1,7	3,1	4,8	5,9
+3	1,0	2,0	3,5	5,4	6,6
+6	1,2	2,3	3,9	5,9	7,4
+9	1,5	2,7	4,3	6,4	8,1
+12	1,8	3,0	4,8	6,9	8,9
+15	2,0	3,3	5,2	7,6	9,6
+20	—	3,8	—	8,3	10,8
+25	—	—	—	—	12,1

Commissioning accuracy ±7%



Dimension	Airflow		Sound dB(A) @ 50 Pa
	l/s	m³/h	
EXK 080	10	36	22
EXK 100	20	72	20
EXK 125	35	126	22
EXK 160	60	215	24
EXK 200	80	288	23



$$q = k \cdot \sqrt{p}$$

$$p = \left(\frac{q}{k}\right)^2$$

q = Airflow l/s

p = Pressure (Pa)

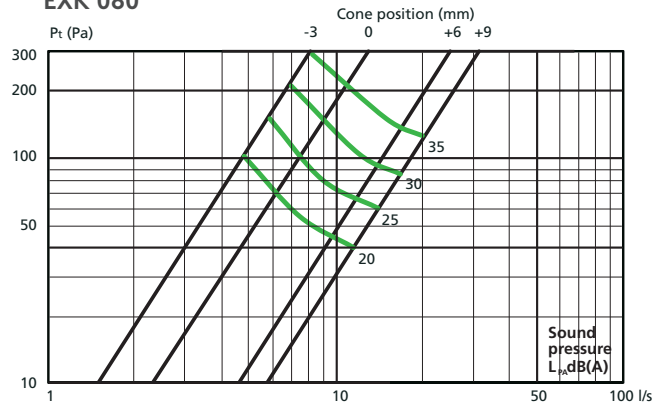
k = Commissioning factor

Figure 1. commissioning

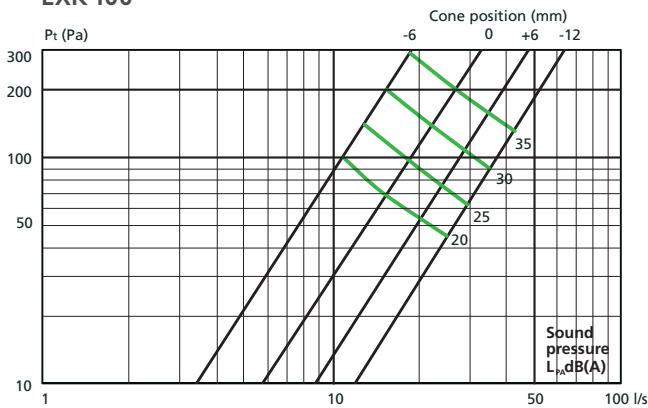
Sizing

- Noise level LPA is presented in dB(A) with an acoustic room absorbance of 4 dB (10m² equivalent sound absorption area)

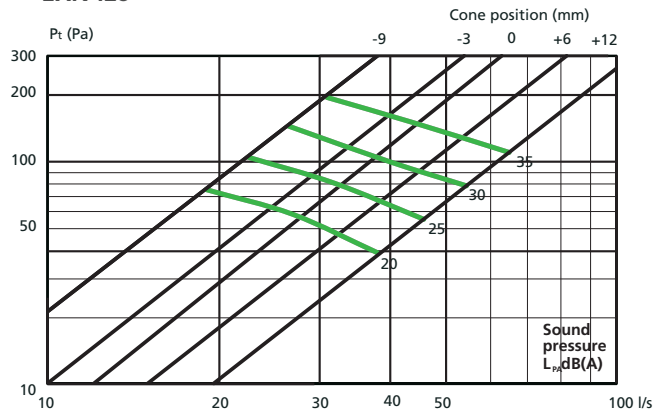
EXK 080



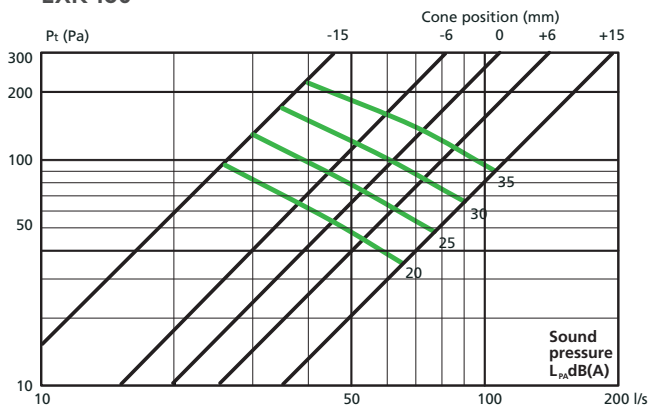
EXK 100



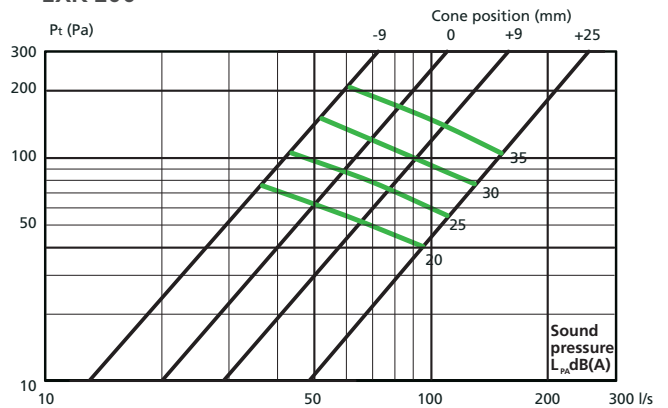
EXK 125



EXK 160



EXK 200



Sound data

Sound power level Lw (dB) table

Dimension	Frequency (octave) Hz							
	63	125	250	500	1000	2000	4000	8000
EXK 080	-5	-5	-1	-2	0	-3	-8	-19
EXK 100	+2	-1	+2	-2	-1	-2	-8	-16
EXK 125	-3	0	+1	-2	-1	-2	-8	-20
EXK 160	-1	0	+2	-2	0	-3	-8	-19
EXK 200	0	+3	+3	0	0	-4	-11	-22
Tol +/-	3	3	3	3	3	3	3	3

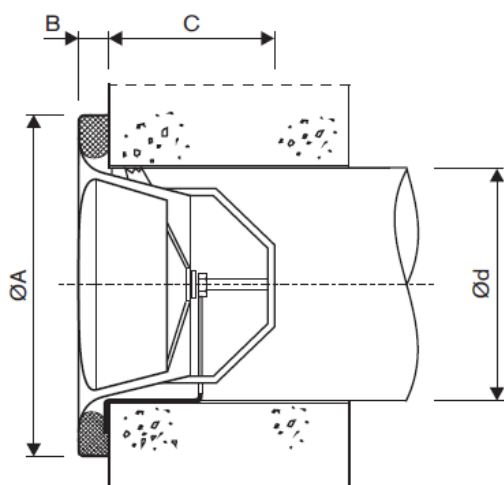
Sound attenuation ΔL (dB) table ΔL

Dimension	Frequency (octave) Hz							
	63	125	250	500	1000	2000	4000	8000
EXK 080	26	25	23	19	6	19	10	10
EXK 100	26	24	20	17	14	19	11	10
EXK 125	23	19	15	13	11	15	9	10
EXK 160	22	18	15	12	11	14	8	8
EXK 200	21	17	14	12	11	16	8	8
Tol +/-	3	3	3	3	3	3	3	3

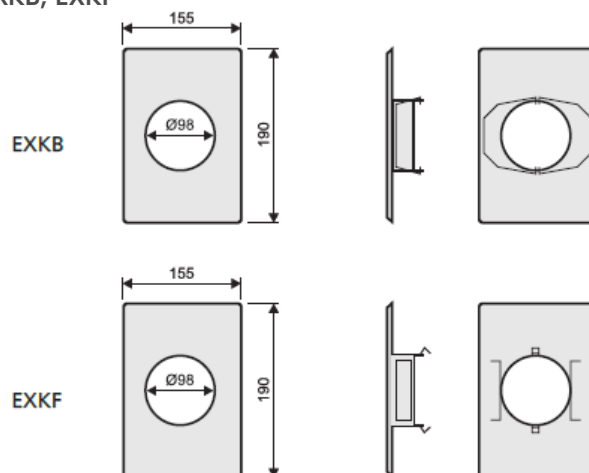
Dimensions and weight

EXK

Dimension	ØA	B	C	Ød
080	108	15	59	80
100	134	15	77	100
125	161	15	82	125
160	194	16	93	160
200	244	20	11	200



EXKB, EXKF



Order key

Product

Extract air device: EXK aaa

Dimension: 080, 100, 125, 160, 200

Accessories: EXK b

T = mounting frame, insert

B = Conversion frame, spring

F = Conversion frame, feather

Specification text

QMC.2

EXTRACT AIR VALVE

Extract air valve for small airflows such as in bathrooms, washing rooms and kitchens.

FDXX

Supplier:

Swegon

Type:

EXK + EXKT

Dimension:

ØXXX X pcs

Feel good **inside**

