Return Covers

KW

Description

The KW outlet valve is designed for mounting on ceilings, walls or directly on ducts with use of the special assembly frame RM. The KW valve has a continuous adjustment of exhausted air by rotating central disc. Selected slot can be fixed by means of a fixing nut. Special construction of the valve ensures a low level of noise as well as easy and fast assembly.

Material: steel sheet
Furnishing: furnace enamelling
Standard colour: white

Example identification
Product code: **KW - aaa**

type
Ød

* as standard complete with mounting frame

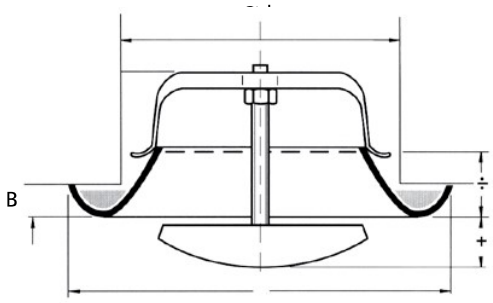
Technical Data

Parameters
Volumetric flow q (l/s or m³/h), total pressure loss P_t (Pa), and acoustic pressure level L_A (dB(A)), can be read from the figure.

Pressure losses P_t
The figures show total pressure loss P_t (Pa).

Acoustic pressure level, L_A
The figure shows acoustic pressure level L_A (dB(A)).
The noise level is specified for a room attenuation of 4dB, which translates into attenuation in the reverberation zone of the SABINE room with an acoustic absorption of 10 m².

Dimensions



Ød = dent/internal diameter of the duct

Ød nom [mm]	A [mm]	B [mm]	weight [kg]
80	115	12	0,1
100	137	12	0,2
125	164	12	0,3
150	202	12	0,3
160	212	12	0,5
200	248	12	0,7
250	302	12	0,9

Acoustic pressure level, L_A (dB(A))

dimension	average frequency (Hz)						
[mm]	125	250	500	1000	2000	4000	8000
80	-2	-6	-5	1	-1	-5	-14
100	-2	-4	-3	0	-1	-8	-16
125	4	3	1	-1	-3	-12	-22
160	-1	0	1	0	-4	-13	-26
200	0	-5	1	2	-13	-28	-32
250	1	-7	2	3	-15	-29	-33
tolerance	3	2	2	2	2	2	3

Sound attenuation (dB)

dimension	average frequency (Hz)							
[mm]	63	125	250	500	1000	2000	4000	8000
80	24	18	14	9	7	7	7	9
100	22	16	11	7	5	5	5	7
125	21	14	9	7	4	4	6	8
160	14	13	8	5	4	4	7	7
200	17	10	6	4	3	4	8	4
250	15	8	5	3	2	3	6	5
tolerance	6	3	2	2	2	2	2	3

Supply Covers
KN

Description

The KNI air supply valve is designed for mounting on ceilings, walls or directly on ducts with use of the special assembly frame RM. The KNI valve has a continuous adjustment of inlet air by rotating central disc. Selected slot can be fixed by means of a fixing nut. Special construction of the valve ensures a low level of noise as well as easy and fast assembly.

Material: steel sheet
Furnishing: furnace enamelling
Standard colour: white

Example identification
Product code: **KN - aaa**

type
Ød

* as standard complete with mounting frame

Technical Data

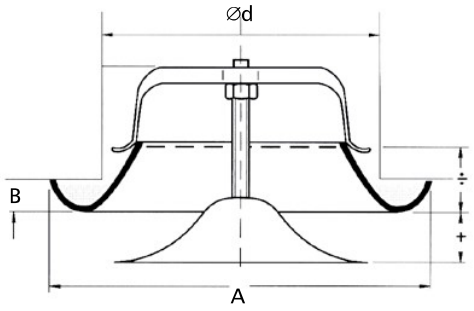
Parameters
Volumetric flow q (l/s or m³/h.), total pressure loss P_t(Pa) and acoustic pressure level L_A (dB(A)) for various cone settings can be read from the figure.

Pressure losses P_t
The figures show total pressure loss P_t (Pa).

Acoustic pressure level, L_A
The figure shows acoustic pressure level L_A (dB(A)).
The noise level is specified for a room attenuation of 4dB, which translates into attenuation in the reverberation zone of the SABINE room with an acoustic absorption of 10 m²

Control
Details of how to control volumetric flow are to be found in the instructions for use.

Dimensions



Ød nom [mm]	A [mm]	B [mm]	weight [kg]
80	115	12	0,15
100	137	12	0,19
125	164	12	0,31
150	202	12	0,35
160	212	12	0,47
200	248	12	0,66
250	302	12	0,88

Acoustic pressure level L_A (dB(A))

dimension	average frequency (Hz)						
[mm]	125	250	500	1000	2000	4000	8000
80	6	3	2	1	-4	-16	-20
100	4	3	2	0	-7	-15	-30
125	2	7	3	-2	-10	-20	-32
160	5	7	3	-2	-10	-19	-32
200	8	6	4	-3	-10	-19	-32
250	9	8	6	-4	-12	-20	-33
tolerance	3	2	2	2	2	2	3

Sound attenuation (dB)

dimension	average frequency (Hz)							
[mm]	63	125	250	500	1000	2000	4000	8000
80	22	19	14	11	2	3	7	8
100	22	16	11	8	6	6	3	6
125	20	15	9	6	4	3	3	5
160	18	13	8	5	4	4	5	6
200	17	11	7	6	6	5	6	6
250	18	12	9	7	7	6	7	5
tolerance	6	3	2	2	2	2	2	3

Wall-mounted air intake/exhaust vent with wire mesh

USAV/USAV-BM

Description

USAV components can be used as air intake vents in an air supply system or air exhaust vents at the end of an air exhaust system for all types and modes of ventilation. The USAV air intake/exhaust vents feature on one side a 2x2 mesh of galvanized wires having a diameter of 1 mm.

The USAV-BM grille has an insect mesh with a larger mesh size, i.e. 8x8 mm for diameters up to 125 mm, and 12x12 mm for diameters of 150 to 500 mm.

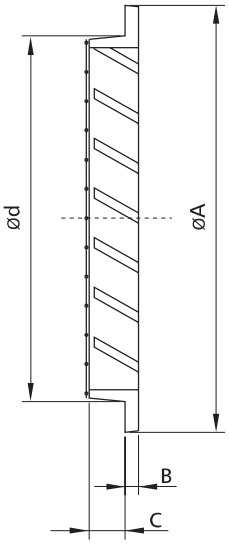
Note:
When installing USAV air intake/exhaust vents on the outside, they must be protected against weather e.g. by coating them with paint in a colour matching the facade.

Available materials — Product code examples
USAV -...- aluminium sheet

Product code example
Product code: **USAV - aaa**

type
Ød

Dimensions



Ød (mm)	ØA (mm)	B (mm)	C (mm)	F (m^2)	Weight (kg)
80	100	5.0	15	0.0035	0.14
100	125	5.0	15	0.0044	0.16
125	150	5.0	15	0.0068	0.27
150	175	5.0	15	0.0098	0.32
160	185	5.0	15	0.0120	0.37
200	225	5.0	15	0.0200	0.65
250	275	5.0	15	0.0310	1.12
315	350	7.0	15	0.0470	1.90
400	430	1.0	50	0.0750	3.00
500	530	1.0	50	0.1180	5.50

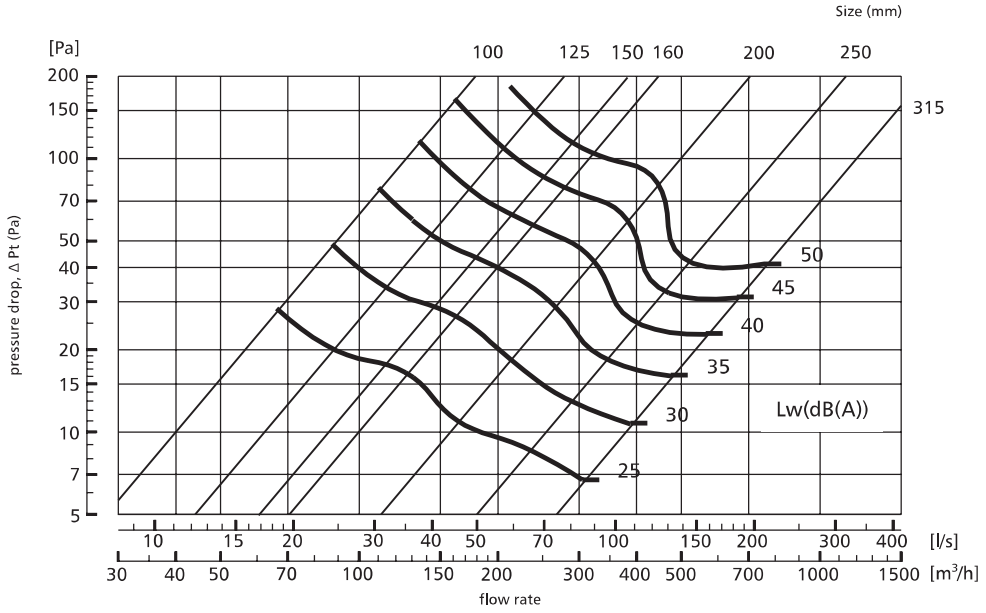
Wall-mounted air intake/exhaust vent with wire mesh

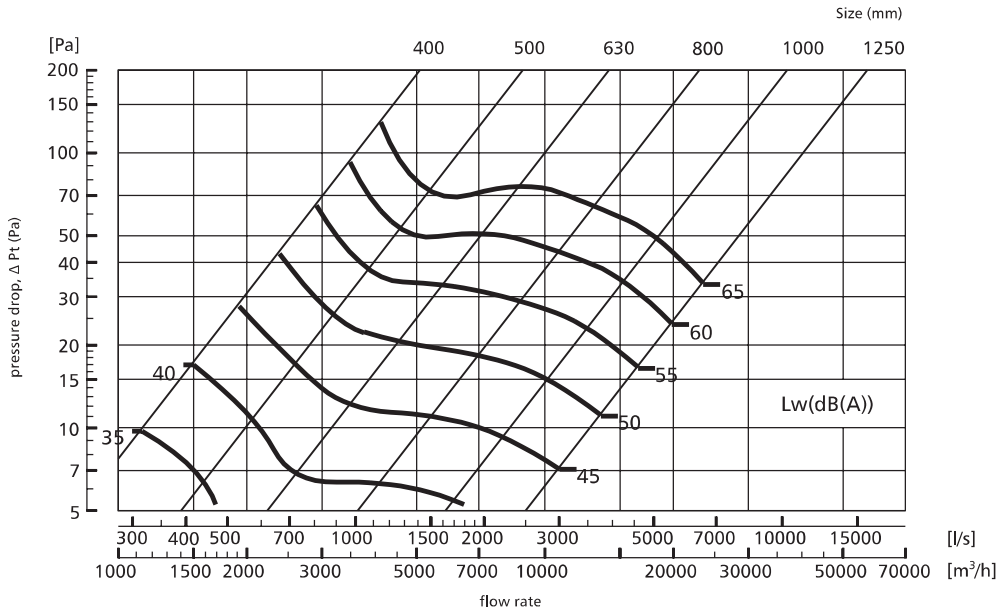
USAV/USAV-BM

Technical specifications

Performance
The chart shows the total pressure, P_t (Pa) and the sound level, L_W (dB(A)) vs. the volumetric air flow, q (l/s, m³/h).

Open space sound level
The chart shows the sound level, L_W.
Sound level at distance x (m).
$L_A = L_W - K$, see the table





Plastic foam damper

DAT-AKU

Description

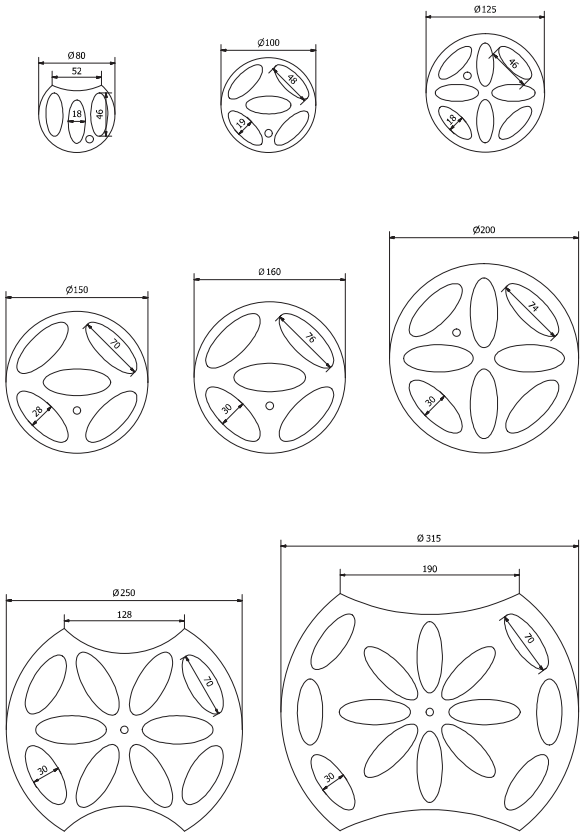
The DAT-AKU is an economical and an easy-to-install foam damper/silencer designed for central ventilation systems with attenuating properties. The design and the material the foam damper is made of - namely - non-flammable flexible polyurethane foam (class B2 according to DIN 4102-1) lead to its double function - a damper with an attenuating properties.
Installation instructions: Insert the damper into the circular duct (e.g. before the air valve), then adjust pressure and airflow by removing the number of open holes. In order to obtain better attenuation, install several DAT-AKU foam dampers in series.

Available materials - Product code examples
DAT-AKU-...-50 - 50 mm thick polyurethane foam
DAT-AKU-...-75 - 75mm thick polyurethane foam

Product code example
Product code: **DAT-AKU - 100 - 50**

type
Ød
thickness

Dimensions



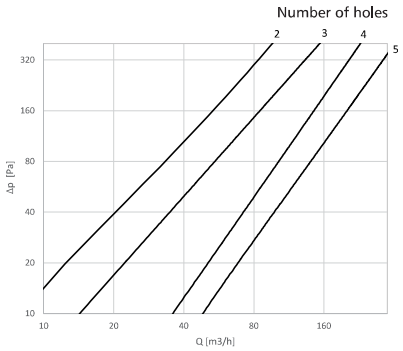
Product code	ød [mm]	Thickness [mm]	Number of holes
DAT-AKU-80	80	50 / 75	3
DAT-AKU-100	100	50 / 75	5
DAT-AKU-125	125	50 / 75	8
DAT-AKU-160	160	50 / 75	5
DAT-AKU-200	200	50 / 75	8
DAT-AKU-250	250	50 / 75	10
DAT-AKU-315	315	50 / 75	14

Plastic foam damper

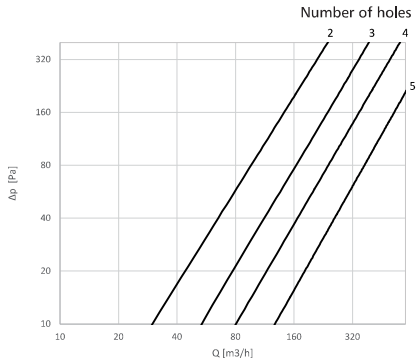
DAT-AKU

Air flow charts

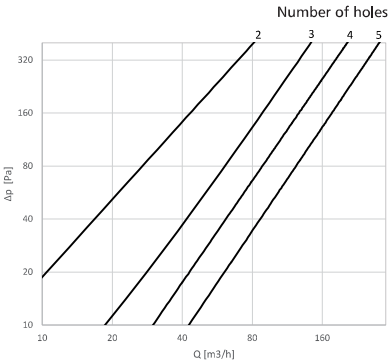
DAT-AKU-100-50



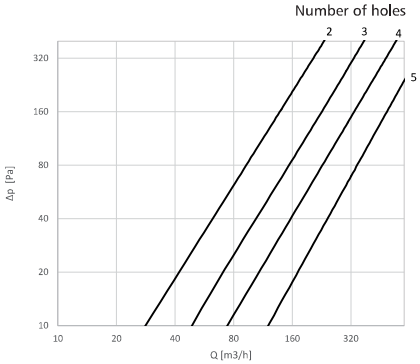
DAT-AKU-160-50



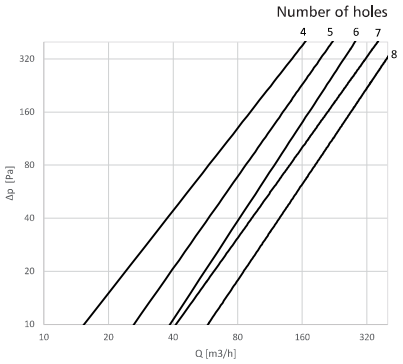
DAT-AKU-100-75



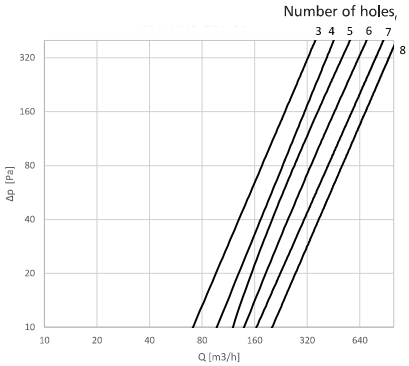
DAT-AKU-160-75



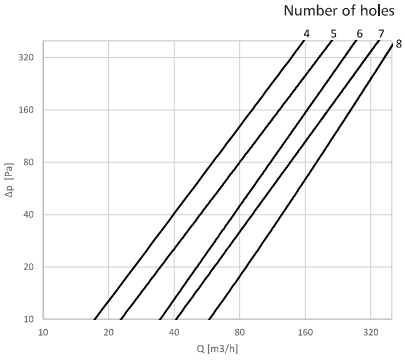
DAT-AKU-125-50



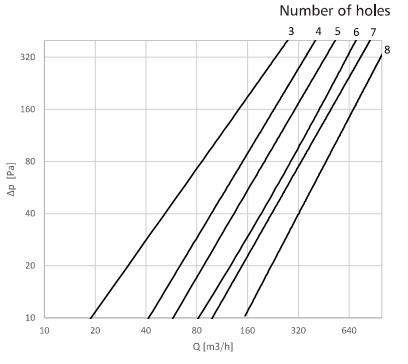
DAT-AKU-200-50



DAT-AKU-125-75



DAT-AKU-200-75

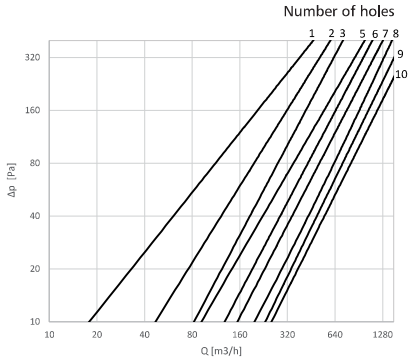


Plastic foam damper

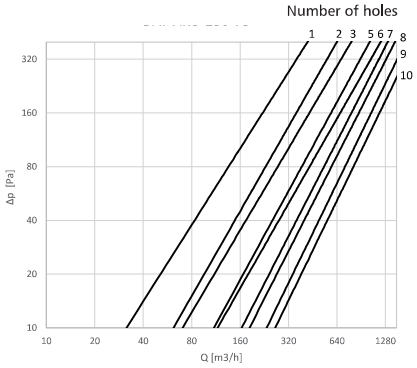
DAT-AKU

Air flow charts

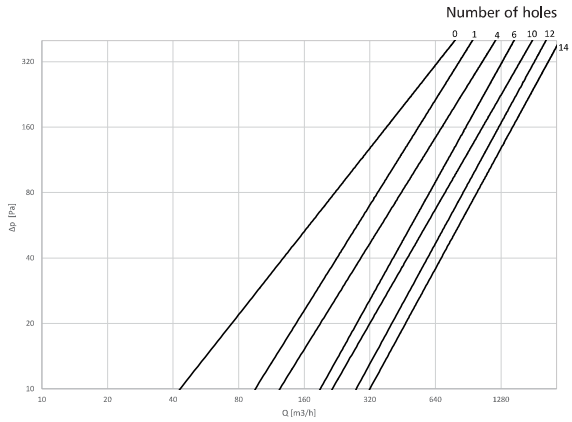
DAT-AKU-250-50



DAT-AKU-250-75



DAT-AKU-315-75



End caps

FLX-CS-PVC/FLX-CF-PVC

Description

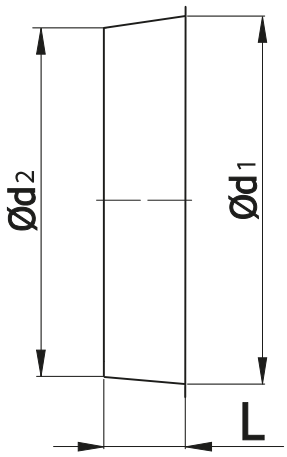
The FLX-CS-PVC end cap is used for plugging the ends of FLX-HDPE and FLX-HDPE-A ducts, e.g. when installing ducting on the construction site - they effectively protect against contamination of the interior of the ducts. At the same time, FLX-CS-PVC end cap is also used to plug unused connection spigots in plenum boxes and FLX-PLO distribution boxes (but they are not inserted inside the spigot, but onto it).
FLX-CF-PVC end caps are used for plugging unused connection spigots in plenum boxes and FLX-PRO distribution boxes. The end caps are made of PVC.

Product code example

Product code: **FLX-CS-PVC - 75**

type
diameter

Dimensions



Product code	$Ø_1$ [mm]	$Ø_2$ *[mm]*	*L [mm]*
FLX-CS-PVC-63	51	49	20
FLX-CF-PVC-63	66	63	20
FLX-CS-PVC-75	63	59	20
FLX-CF-PVC-75	78	78	20
FLX-CS-PVC-90	76	74	20
FLX-CF-PVC-90	95	91	20

How to install

FLX-CS-PVC end caps fit inside FLX-HDPE and FLX-HDPE-A ducting.

FLX-CS-PVC end caps are mounted onto the connection spigots of FLX-PLO-75 and FLX-PLO-90 plenum boxes.

FLX-CF-PVC end caps fit inside the connection spigots of FLX-PRO-63 plenum boxes.