Ventilation Accessories

We reserve the right to make changes in the dimensions and technical data products due to their continuous improvement

About the System

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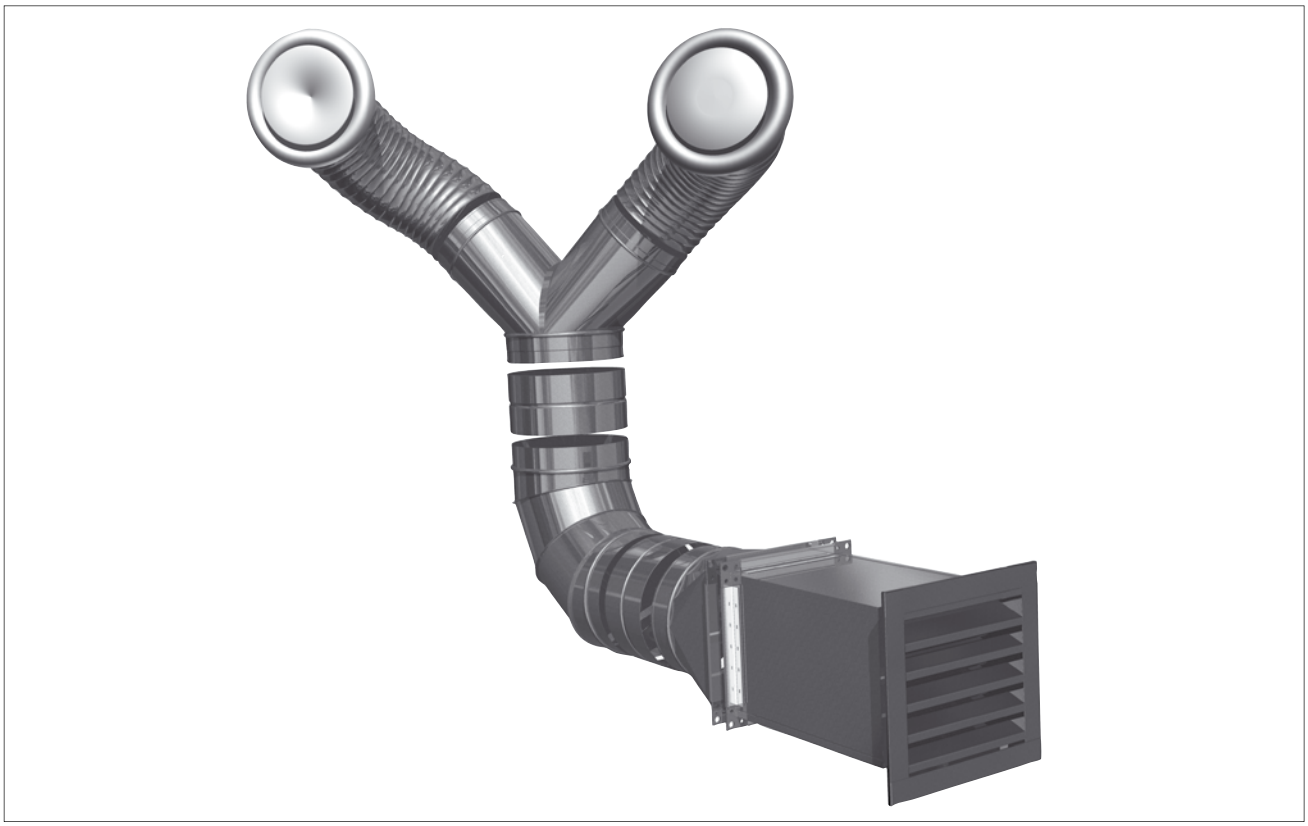


About the System

ALNOR accessories consist of a complete range of components to finish ventilation systems, such as grilles, nozzles, air diffusers, ventilation valves and plenum boxes.

Dimensions

Most the products can be connected to standard round ducts. It can be made directly or through plenum boxes intended for this purposes. The remaining values are based on the tables and information provided in a product's catalogue datasheet.

Installation Guide

Installation depends on the type of products employed. In most cases this information results from the installation system of ventilation ducts.

Benefits of Use

An attractive appearance combined with the easy installation of components helps finish a duct system efficiently. Flow rates can be customised to adapt the volume of air delivered to rooms.

Labelling

ALNOR products are furnished with the construction industry's B sign and product codes according to their technical specifications contained in this catalogue.

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

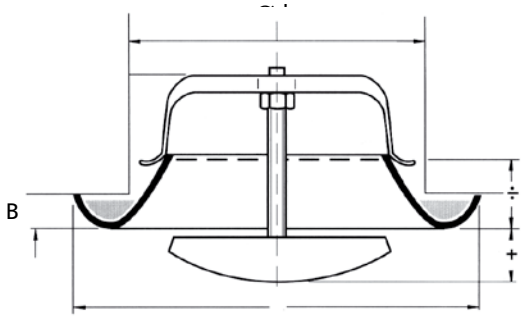
Technical Data

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

Insulated exhaust valves
KWI

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Description

The KWI outlet valve is designed for mounting on ceilings, walls or directly on ducts with use of the special assembly frame RM.The KWI 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: galvanized steel sheet
Finishing: glossy powder painted acc. to RAL 9016
Standard colour: white

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

type
Ød

* as standard without mounting frame included

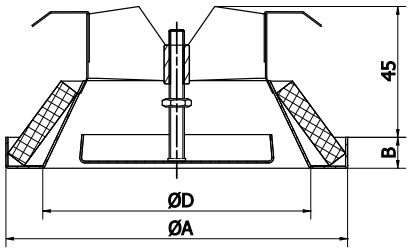
Technical Data

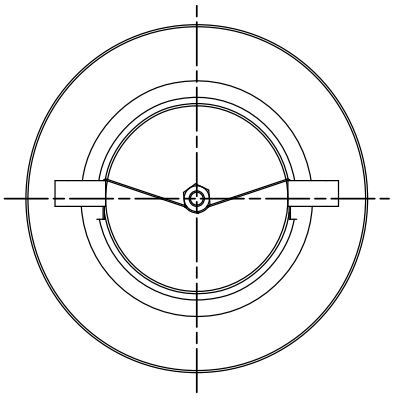
Parameters
Volumetric flow q (l/s or m³/h), total pressure loss P_t (Pa), and acoustic pressure level L_A (dB(A)), can be read from the figure.

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 nom [mm]	ØA [mm]	B [mm]	weight [kg]
80	108	16	0,1
100	137	16	0,2
125	162	16	0,3
160	193	16	0,5
200	240	19	0,7

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
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
tolerance	6	3	2	2	2	2	2	3

Chromium plated exhaust valves
KW-S

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Description

The KW-S-RM outlet valve is designed for mounting on ceilings, walls or directly on ducts with use of the special assembly frame RM.The KW-S-RM valve has a continuous adjustment of 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: galvanized steel sheet
Finishing: chromium plated

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

type
Ød

* as standard complete with mounting frame

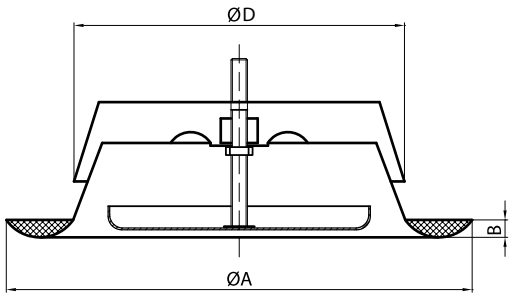
Technical Data

Parameters
Volumetric flow q (l/s or m^3/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 m^2.

Dimensions



ØD nom [mm]	ØA [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

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	4	3	2	0	-7	-15	-30
125	2	7	3	-2	-10	-20	-32
150	3	7	3	-2	-10	-20	-32
160	5	7	3	-2	-10	-19	-32
200	8	6	4	-3	-10	-19	-32
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	26	18	14	10	8	8	6	9
100	22	16	11	8	6	6	3	6
125	20	15	9	6	4	3	3	5
150	19	15	9	6	4	3	4	5
160	18	13	8	5	4	4	5	6
200	17	11	7	6	6	5	6	6
tolerance	6	3	2	2	2	2	2	3

Exhaust valves

KWO

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Description

The KWO outlet valve is designed for mounting on ceilings, walls or directly on ducts with use of the special assembly frame RML.The KWO valve has a continuous adjustment of 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: galvanized steel sheet
Finishing: glossy powder painted acc. to RAL 9016
Standard colour: white

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

type
Ød

* as standard complete with mounting frame

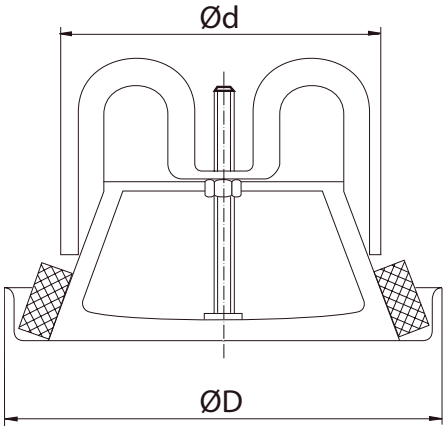
Technical Data

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 nom [mm]	*ØA [mm]*	*weight [kg]*
100	130	0,3
125	160	0,4
160	190	0,5
200	235	0,8

Acoustic pressure level, L_A (dB(A))

dimension	*average frequency (Hz)*						
[mm]	*125*	*250*	*500*	*1000*	*2000*	*4000*	*8000*
100	-6	-3	-3	-4	-9	-13	-27
125	-7	-6	-5	-8	-4	-12	-28
160	-3	-7	-5	-2	-12	-16	-29
200	-5	-7	-8	-2	-9	-13	-30
tolerance	3	2	2	2	2	2	3

Sound attenuation (dB)

dimension	*average frequency (Hz)*							
[mm]	*63*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*8000*
100	23	18	14	12	12	14	5	6
125	21	17	12	11	12	11	7	6
160	19	14	12	11	11	14	5	7
200	15	13	11	11	13	12	7	7
tolerance	6	3	2	2	2	2	2	3

KW, KWI, KW-S

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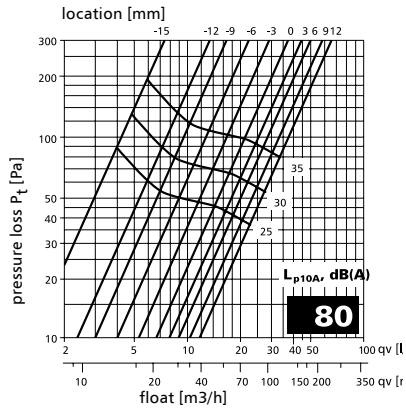
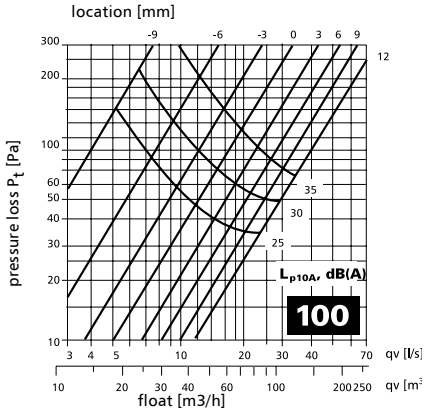
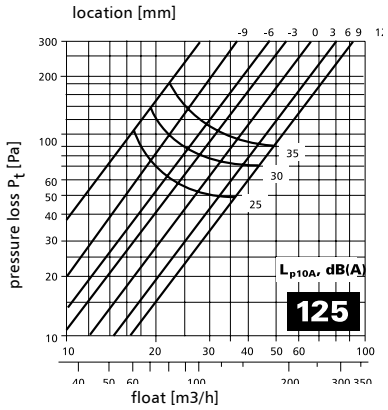
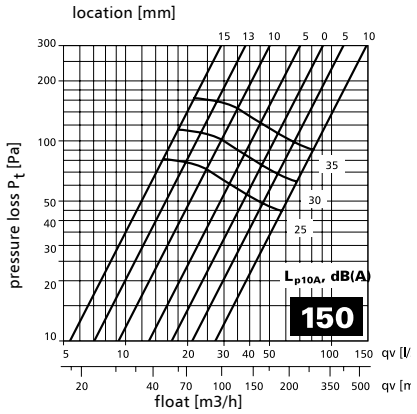
Technical Data

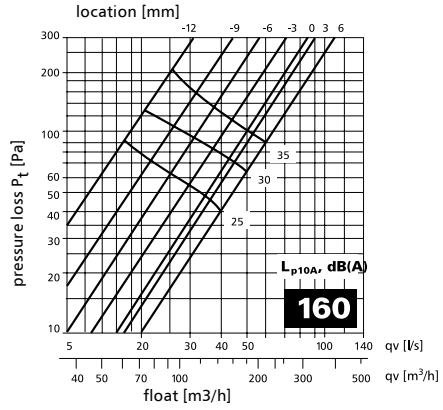
Selection charts

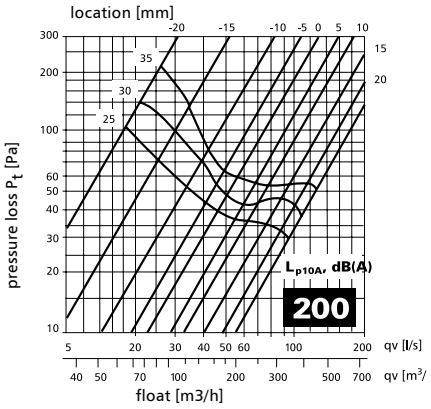


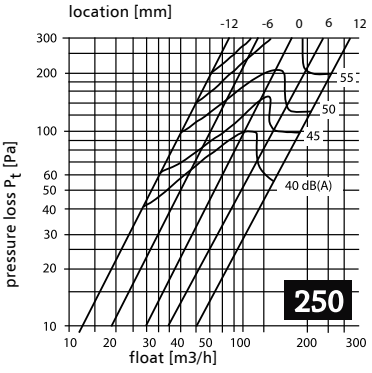










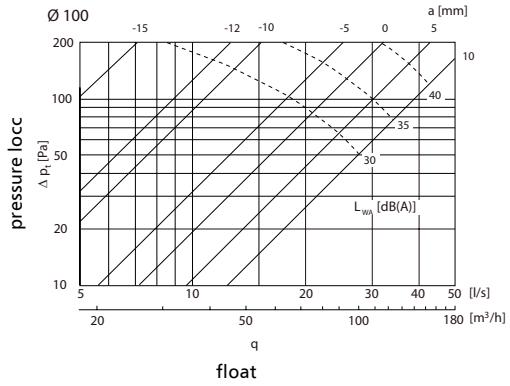


Exhaust valves
KWO

Technical Data

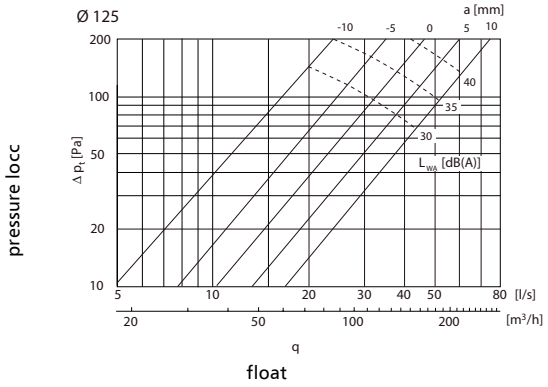
Selection charts

location



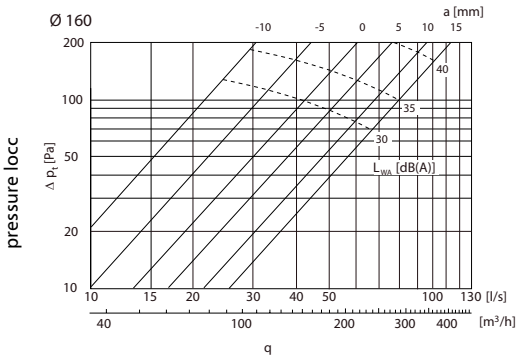
float

location



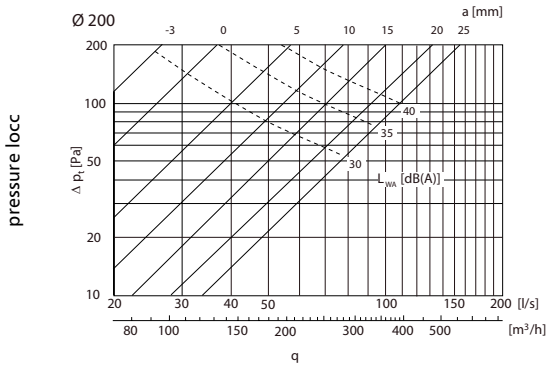
float

location



float

location



float

Supply Air Valves

KN

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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

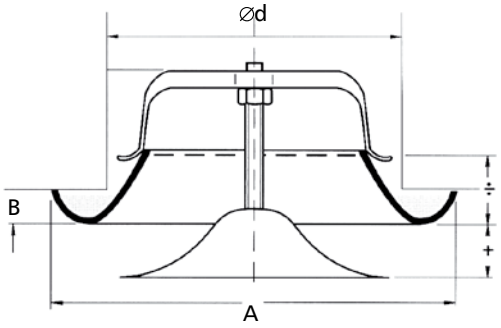
Parameters
Volumetric flow q (l/s or m³/h.), total pressure loss P_t(Pa) and acoustic pressure level L_A (dB(A)) for various cone settings can be read from the figure.

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

Insulated air supply valves

KNI

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: galvanized steel sheet
Finishing: glossy powder painted acc. to RAL 9016
Standard colour: white

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

type
Ød

* as standard complete with mounting frame

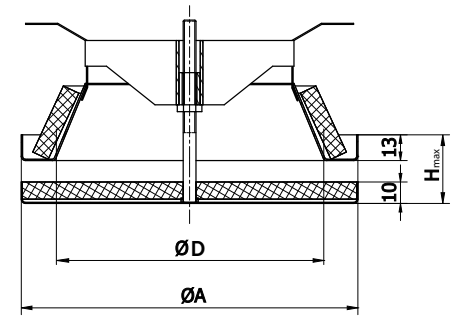
Technical Data

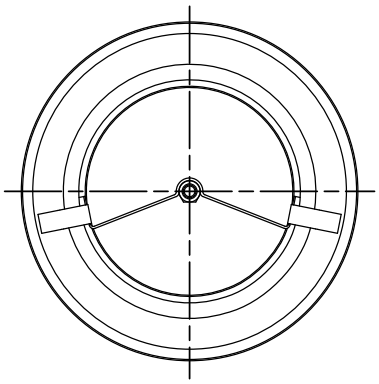
Parameters
Volumetric flow q (l/s or m³/h), total pressure loss P_t (Pa), and acoustic pressure level L_A (dB(A)), can be read from the figure.

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 nom [mm]	ØA [mm]	H_{max} [mm]	weight [kg]
80	115	45	0,19
100	137	45	0,26
125	164	45	0,33
160	212	45	0,48
200	248	45	0,65

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
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
tolerance	6	3	2	2	2	2	2	3

Chromium plated air supply valves
KN-S

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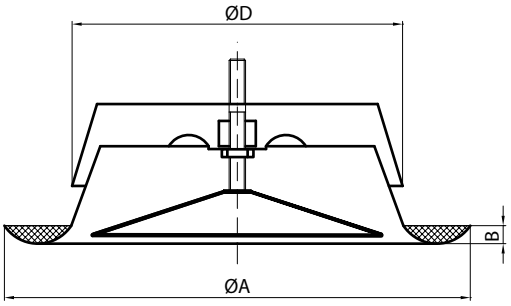
Dimensions



∅D 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

Description

The KN-S-RM air supply valve is designed for mounting on ceilings, walls or directly on ducts with use of the special assembly frame RM. The KN-S-RM has a continuous adjustment of 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: galvanized steel sheet
Finishing: chromium plated

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

type
∅d

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.

Acoustic pressure level L_A (dB(A))

dimension	average frequency (Hz)						
[mm]	125	250	500	1000	2000	4000	8000
80	6	4	3	-1	-5	-10	-27
100	4	3	2	0	-7	-15	-30
125	2	7	3	-2	-10	-20	-32
160	3	7	3	-2	-10	-21	-32
160	5	7	3	-2	-10	-19	-32
200	8	6	4	-3	-10	-19	-32
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	21	13	11	9	7	7	4	6
100	22	16	11	8	6	6	3	6
125	20	15	9	6	4	3	3	5
150	19	14	8	6	4	3	3	6
160	18	13	8	5	4	4	5	6
200	17	11	7	6	6	5	6	6
tolerance	6	3	2	2	2	2	2	3

Supply Air Valves
KNT

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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 has a continuous adjustment of 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: galvanized steel sheet
Finishing: glossy powder painted acc. to RAL 9016
Standard colour: white

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

type
Ød

Technical Data

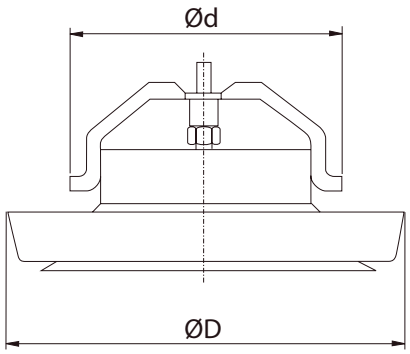
Parameters
Volumetric flow q (l/s or m³/h.), total pressure loss P_t(Pa) and acoustic pressure level L_A (dB(A)) for various cone settings can be read from the figure.

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]	ØD [mm]	weight [kg]
100	135	0,28
125	165	0,44
160	205	0,62

Acoustic pressure level L_A (dB(A))

dimension	average frequency (Hz)						
[mm]	125	250	500	1000	2000	4000	8000
100	-6	-2	-3	-5	-8	-9	-15
125	0	1	-1	-5	-15	-21	-33
160	3	2	-1	-6	-15	-23	-36
tolerance	3	2	2	2	2	2	3

Sound attenuation (dB)

dimension	average frequency (Hz)							
[mm]	63	125	250	500	1000	2000	4000	8000
100	22	18	13	11	9	8	7	8
125	20	16	11	9	9	7	6	5
160	18	14	10	9	9	7	6	6
tolerance	6	3	2	2	2	2	2	3

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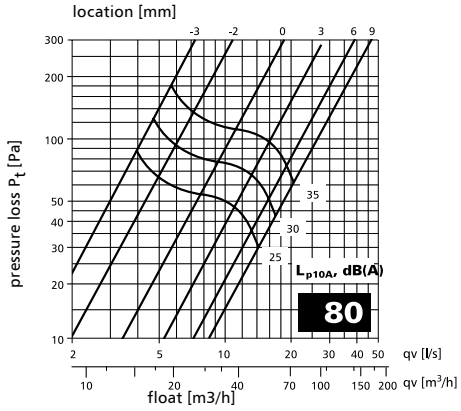
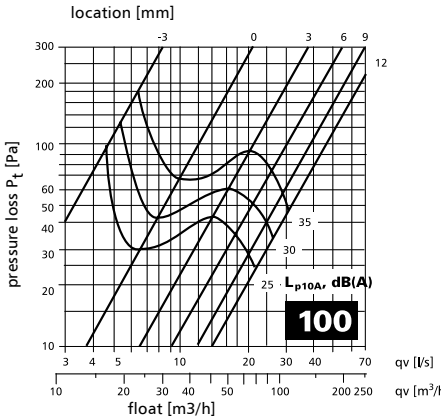
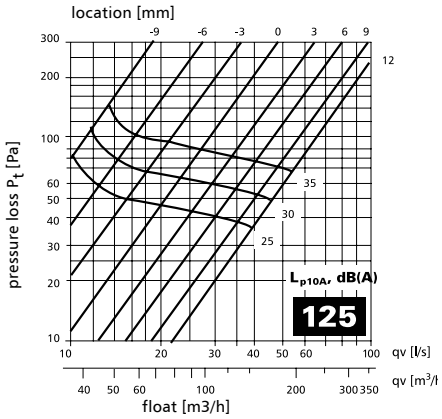
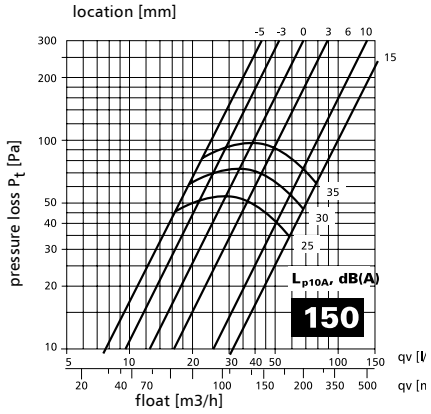
Technical Data

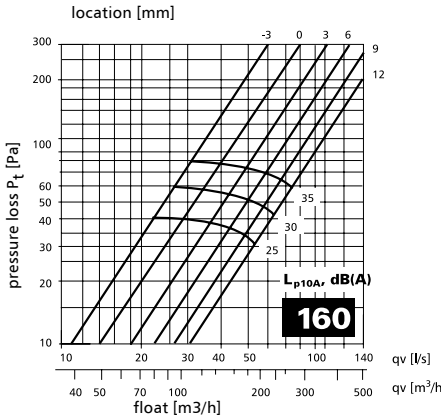
Selection charts

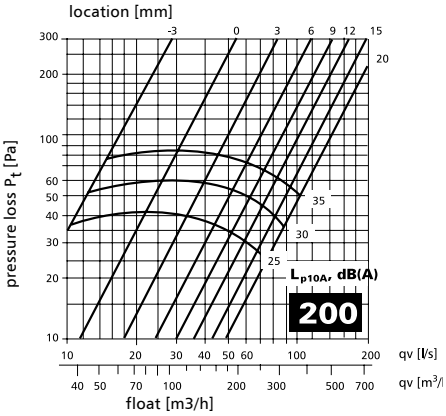


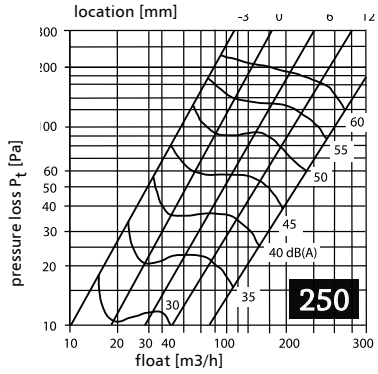










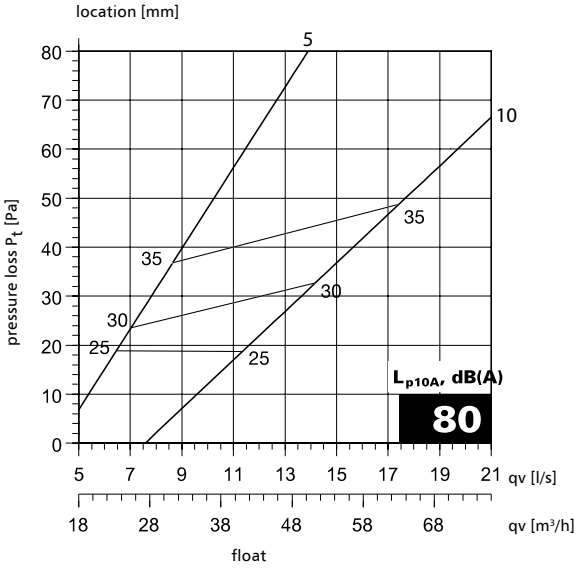


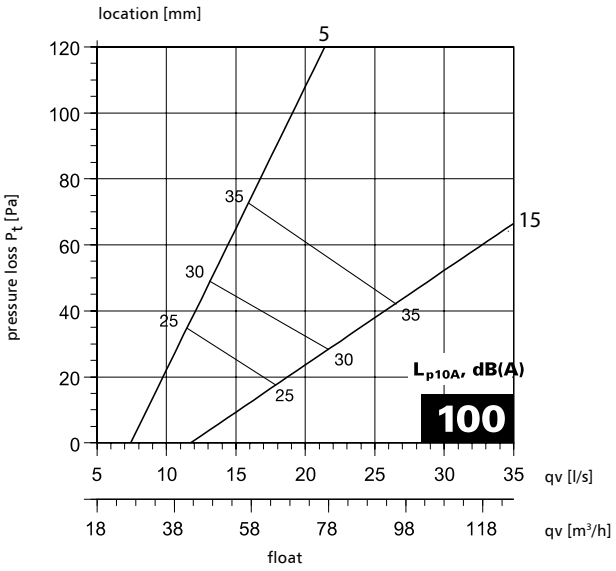
Insulated air supply valves

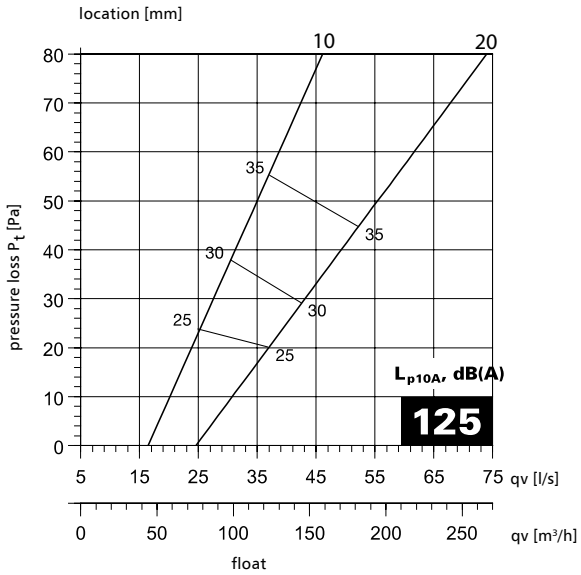
KNI

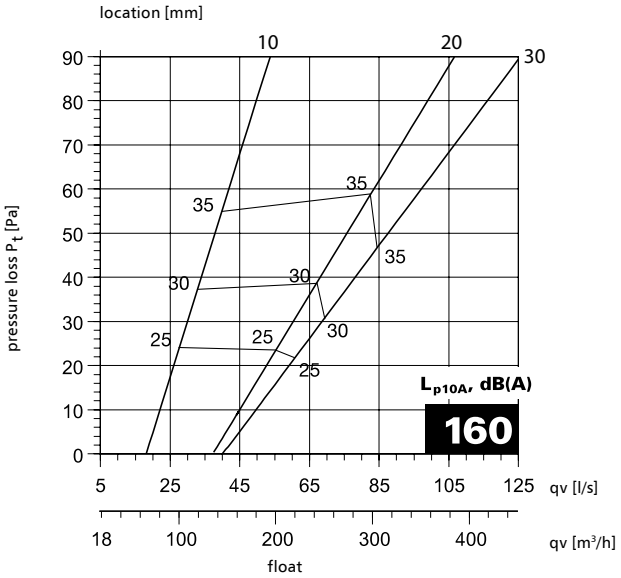
Technical Data

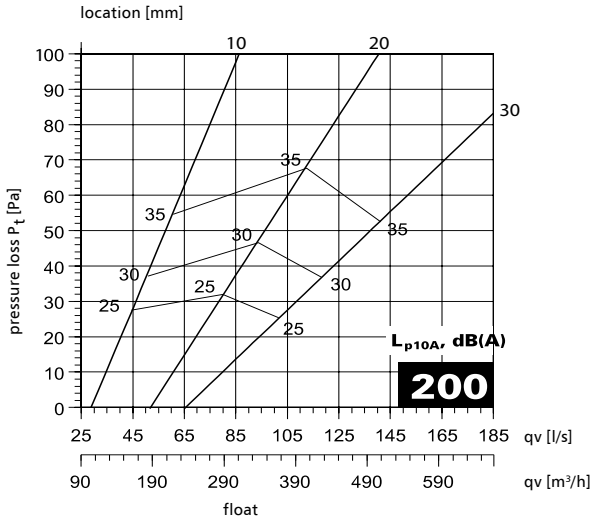
Selection charts







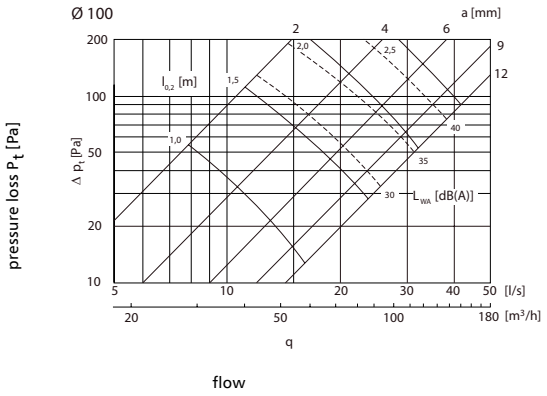




Technical Data

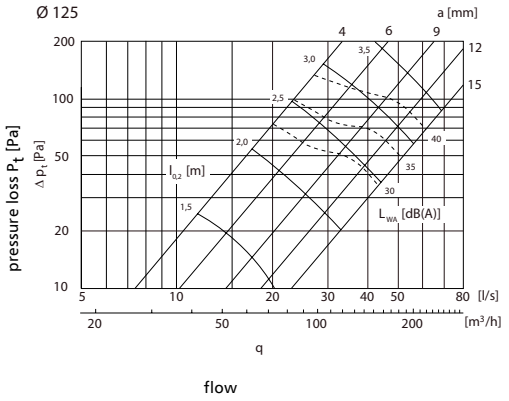
Whitout sector plate

location



flow

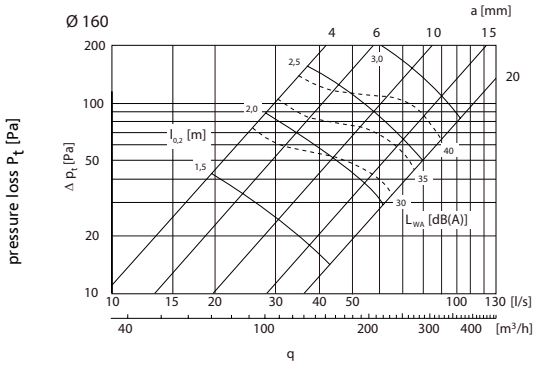
location



flow

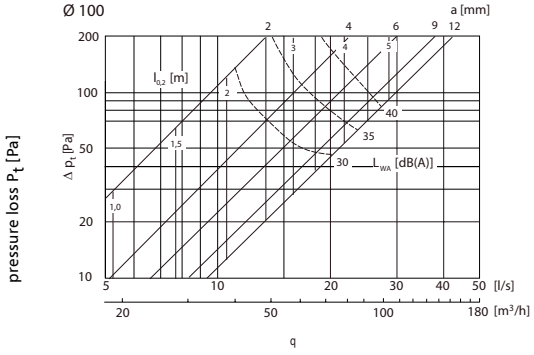
With sector plate

location



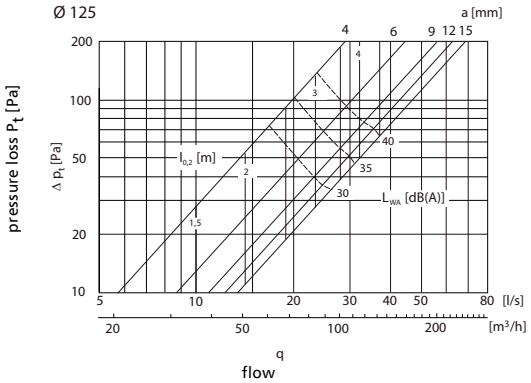
flow

location



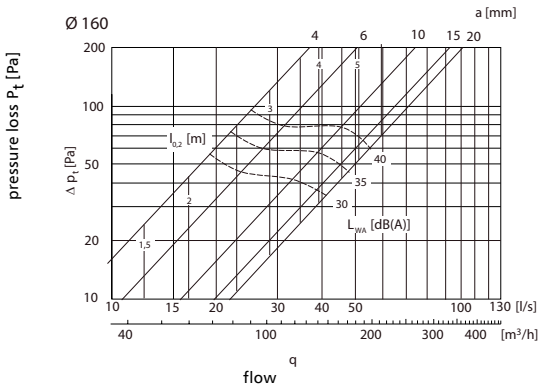
flow

location



flow

location



flow

Mounting frames for KNI i KWI

RMI

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Description

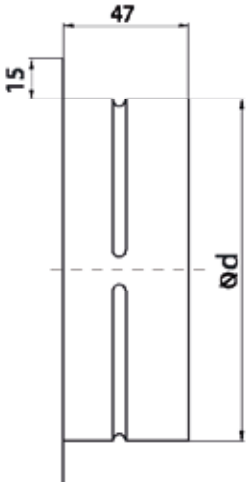
The RMI frame is designed for mounting insulated valves KNI and KWI. The frame ensures a tight connection of the valve and a duct. The RM-I frame is available in five diameters versions: 100, 125, 150, 160, 200 mm

Example identification

Product code: **RM-I** **160**

type
ød

Dimensions



code	Ød [mm] valve	weigth [kg]
RMI-100	100	0,08
RMI-125	125	0,10
RMI-150	150	0,11
RMI-160	160	0,12
RMI-200	200	0,15

Mounting frames for KNI i KWI

RMLI

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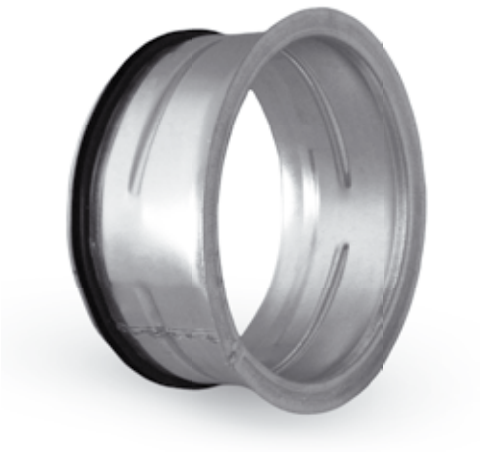


Description

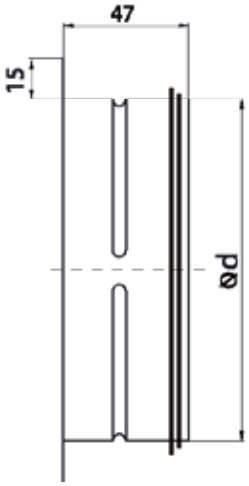
The RMLI frame is designed for mounting insulated valves KNI and KWI. The frame ensures a tight connection of the valve and a duct. The RM-I frame is available in five diameters versions: 100, 125, 150, 160, 200 mm.

Example identification

Product code: **RMLI** **160**

type
ød

Dimensions



code	Ød valve [mm]	weigth [kg]
RMLI-100	100	0,08
RMLI-125	125	0,10
RMLI-150	150	0,11
RMLI-160	160	0,12
RMLI-200	200	0,15

Mounting frames
RM

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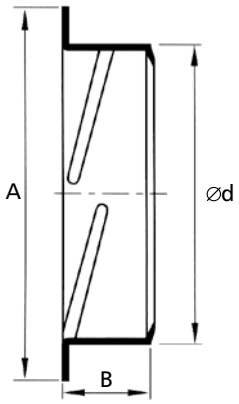
Description

Where specified in this catalogue, the control valves are supplied with an end cover that is provided with a bayonet socket. The end cover fits directly into SPR ducts, as well as all types of the flexible ducts.

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

type
Ød

Descriptions



Ød rated [mm]	A [mm]	B [mm]	weight [kg]
80	118	50	0,040
100	125	50	0,050
125	155	50	0,065
150	176	50	0,085
160	186	50	0,100
200	230	50	0,140
250	280	50	0,175

Mounting frames

RMDL

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Description

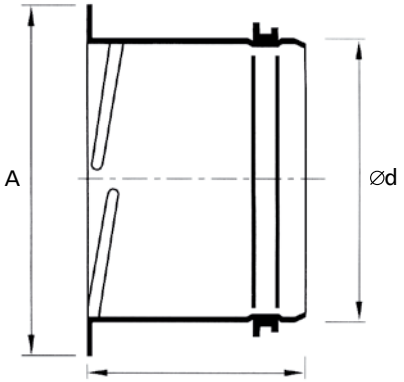
The end cover is provided with bayonet socket and EPDM gasket, which ensures permanent connection between the valve and the duct. If the valves are ordered together with an RMI, the standard end cover is not supplied.

Example identification

Product code: **RML - aaa**

type
∅d

Dimensions



∅d rated [mm]	*A [mm]*	*B [mm]*	*weight [kg]*
80	105	50	0,060
100	125	50	0,100
125	150	50	0,125
150	175	50	0,150
160	185	50	0,160
200	225	50	0,215
250	280	50	0,240

Rosettes

ROZ-H

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Description

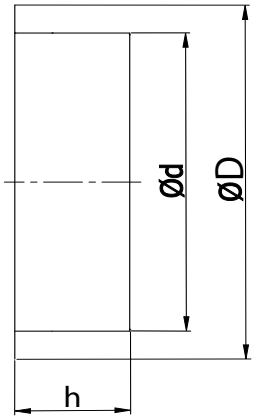
ROZ-H chromed rosette. Used as a decorative item to mask the edges of the ventilation duct hole.

Material: stainless steel
Finish: polished

Example identification
Product code: **ROZ-H** **160**

type
ød

Description



code	Ød [mm]	ØD [mm]	h [mm]
ROZ-H-80	90	150	45
ROZ-H-85	95	155	45
ROZ-H-100	110	175	45
ROZ-H-110	120	195	45
ROZ-H-115	125	195	50
ROZ-H-120	130	195	50
ROZ-H-125	135	210	50
ROZ-H-133	143	210	50
ROZ-H-135	145	210	50
ROZ-H-140	150	210	55
ROZ-H-150	160	245	60
ROZ-H-160	170	240	65
ROZ-H-200	180	250	70
ROZ-H-300	190	255	70

Rosettes

ROZ-P

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Description

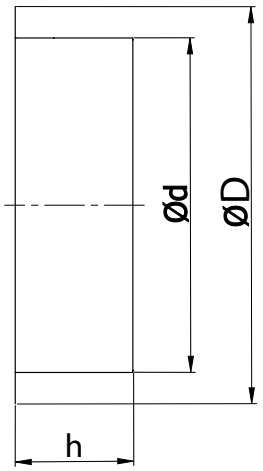
ROZ-P rozette powder-painted white. Used as a decorative item - masks the edges of the ventilation duct hole.

Material: galvanized steel sheet
Finish: powder painted RAL 9016

Example identification
Product code: **ROZ-P** **160**

type
ød

Description



code	Ød [mm]	ØD [mm]	h [mm]
ROZ-H-80	90	150	45
ROZ-H-85	95	155	45
ROZ-H-100	110	175	45
ROZ-H-110	120	195	45
ROZ-H-115	125	195	50
ROZ-H-120	130	195	50
ROZ-H-125	135	210	50
ROZ-H-133	143	210	50
ROZ-H-135	145	210	50
ROZ-H-140	150	210	55
ROZ-H-150	160	245	60
ROZ-H-160	170	240	65
ROZ-H-200	180	250	70
ROZ-H-300	190	255	70

Chrome-Nickel Ventilation Cap Supply and Roof Valve

KCN

Description

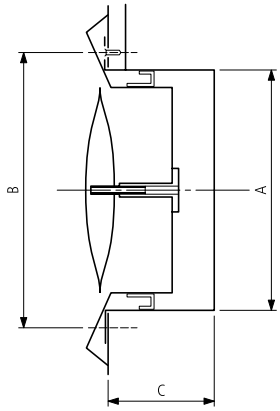
KCN valves are designed for supply and roof ventilation systems.
They provide smooth control capabilities to adjust precisely the air flow. The design of the control ensures optimal operation in both types of installation. The valves show a very attractive appearance, durability, and are easy to install.

Material: steel sheet
Furnishing: polishing

Example identification
Product code: **KCN** **aaa**

type
Ød

Dimensions



Ød [mm]	A [mm]	B [mm]	C [mm]
100	97	118	52
125	120	141	52
150	145	162	62
160	155	172	62
200	195	208	70

Plastic Air Valve

KPP

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Description

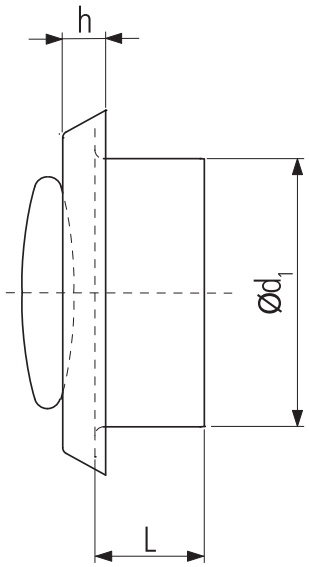
The KPP air valve is used in intake and exhaust systems.It is made of white PVC what makes it resistant to corrosion. Adjustment of air flow is made by rotating an internal part of the valve. A selected gap is fixed by means of a locking nut. Construction of the valve ensures a low level of noise. The KPP air valve is connected to a duct with use of an assembly frame. The KPP air valve is pressed into the frame.

Example identification

Product code: **KPP - aaa**

type
Ød

Dimensions



type	*Ød1 [mm]*	*L [mm]*	*h [mm]*
KPP-100	100	50	15
KPP-125	125	50	15
KPP-160	160	50	15
KPP-200	200	50	15

Wall-Mounted Air Intake/Roof Ejector

UELA

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Description

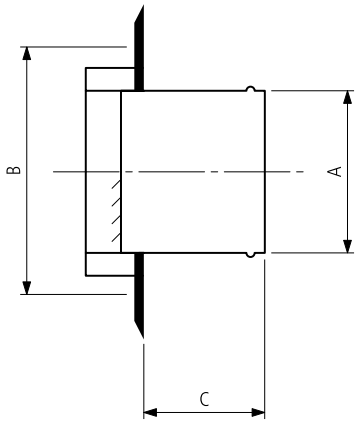
Depending on their application, UELA components can be used as air intakes or roof ejectors. In addition, the air intake is provided with insect mesh. It is well sealed and fitted with mounting clamps to make its installation easier. The external ring has two mounting holes.
UELA components are featured by an attractive appearance and long durability. They can be used both indoors and outdoors.

Material: steel sheet
Furnishing: polishing

Example identification
Product code: **UELA** **aaa**

type
∅d

Dimensions



∅d [mm]	A [mm]	B [mm]	C [mm]
100	97	133	52
125	120	165	52
150	145	192	62
160	155	192	62
200	195	253	62

Chrome-Nickel Wall-Mounted Air Intake/Exhaust Air Ejector with Overlap

UVLA

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Description

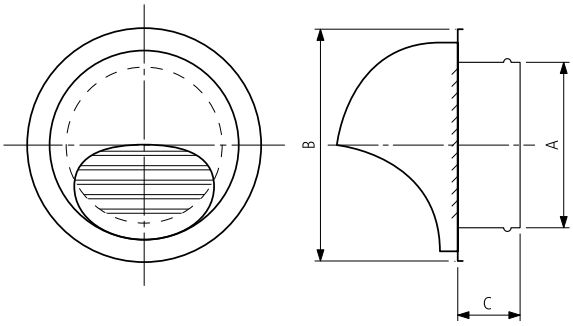
Depending on their application, UELA components can be used as air intakes or roof ejectors
Furnished with a semicircular protection cover preventing the air from being blown in and slanting blades that guide the air flow downwards. In addition, the air intake is provided with insect mesh. It has rubber gaskets and is fitted with mounting clamps to make its installation easier. It is featured by an attractive appearance and long durability and can be used both indoors and outdoors.

Material: steel sheet
Furnishing: polishing

Example identification
Product code: **UVLA** **aaa**

type
∅d

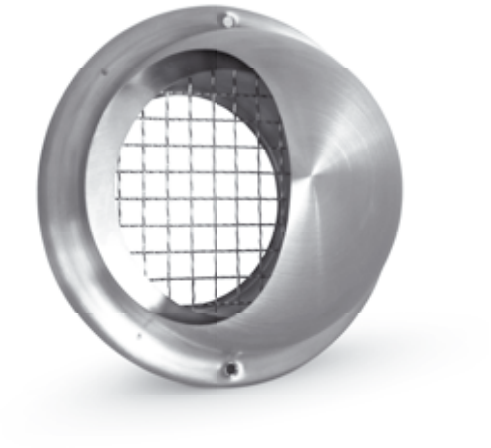
Dimensions



∅d [mm]	A [mm]	B [mm]	C [mm]
100	97	133	52
125	120	165	52
150	145	192	62
160	155	192	62
200	195	253	62

Chrome-Nickel Wall-Mounted Air Intake/Exhaust Air Ejector with Overlap

USLA



Description

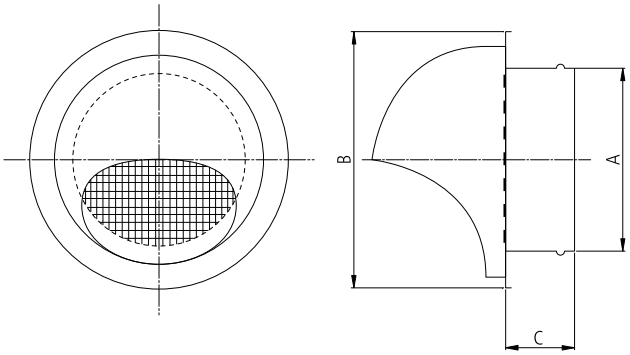
Depending on their application, USLA components can be used as air intakes or roof ejectors
Furnished with a semicircular protection cover preventing the air from being blown in. In addition, the air intake is provided with mesh. It has rubber gaskets and is fitted with mounting clamps to make its installation easier. It is featured by an attractive appearance and long durability and can be used both indoors and outdoors.

Material: steel sheet
Furnishing: polishing

Example identification
Product code: **USLA** **aaa**

type
Ød

Dimensions



Ød [mm]	A [mm]	B [mm]	C [mm]
100	97	133	52
125	120	165	52
150	145	192	62
160	155	192	62
200	195	253	62

Wall-Mounted Air Intakes/Roof Ejectors
USAV

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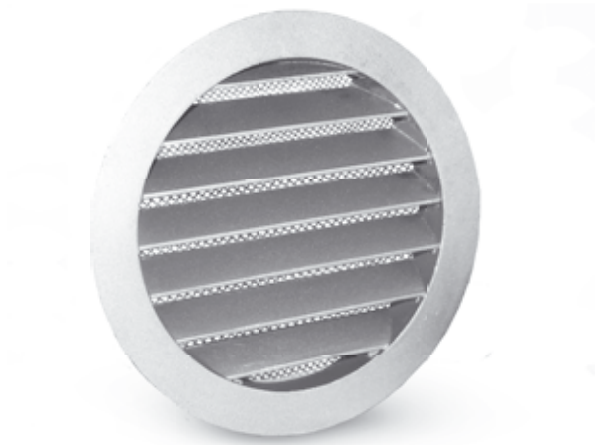


Description

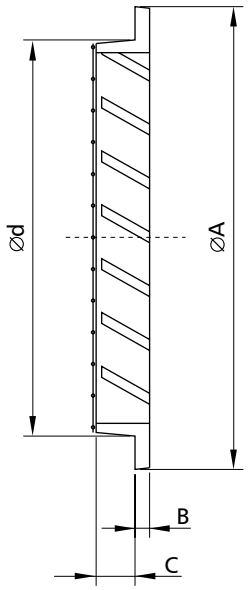
Depending on its application, the USAV can be used as an external grille of an air intake or roof ejector to either take or eject the air. The grille is provided with screw holes. The grilles in sizes 100-315 are also furnished with bird protection covers (mesh size: 2mm). Sizes 400-1250 can be supplied with bird protection covers upon request.

Size 100 – 315: cast aluminium
Size 400 – 1250: galvanised steel

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

type
Ød

Dimensions



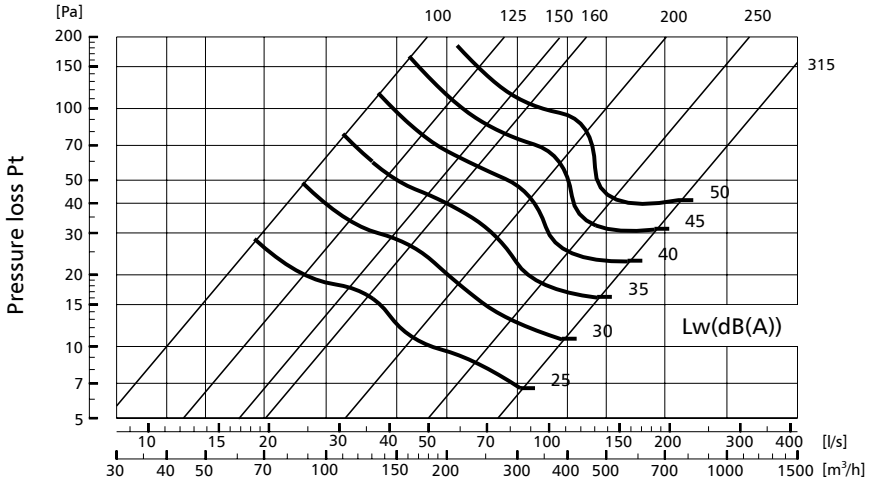
Ød [mm]	ØA [mm]	B [mm]	C [mm]	F [m²]	weight [kg]
100	125	5,0	15	0,0044	0,16
125	150	5,0	15	0,0068	0,27
150	175	5,0	15	0,0098	0,32
160	185	5,0	15	0,0120	0,37
200	225	5,0	15	0,0200	0,65
250	275	5,0	15	0,0310	1,12
315	350	7,0	15	0,0470	1,90
400	430	1,0	50	0,0750	3,00
500	530	1,0	50	0,1180	5,50
630	660	1,0	50	0,1870	8,80

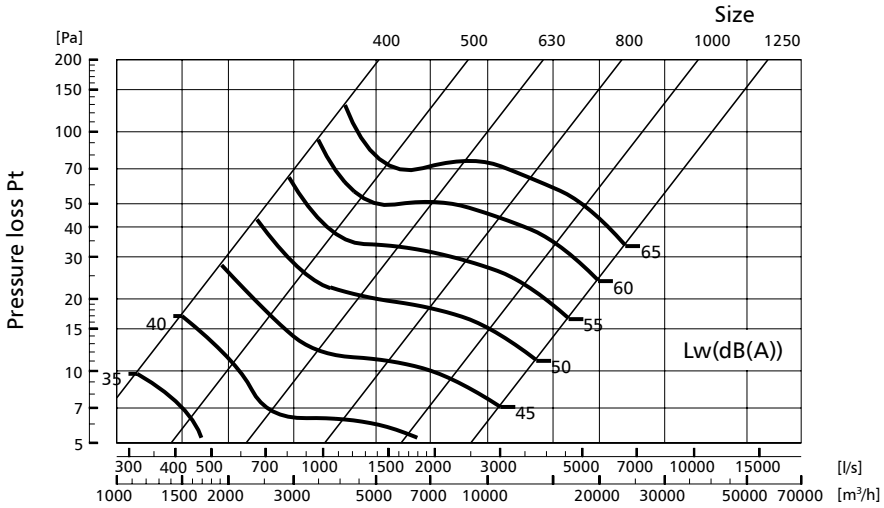
Wall-Mounted Air Intakes/Roof Ejectors
USAV

Technical Data

Capacity
The figure shows total pressure P_t (Pa) and noise level L_W (dB(A)) as a function of volumetric air flow q (l/s, m^3/h).

Noise level in free field
The figure shows noise level L_W.
Noise level within distance x (m).
$L_A = L_W - K$, see table





External Non-Return Flap Valve with Overlap

USUA

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Description

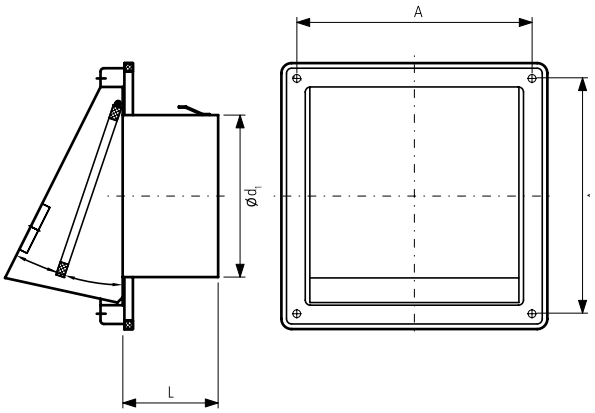
The USUA external non-return flap valve is made of acid-proof sheet metal and suitable for wall mounting using screws. It serves as an roof ejector, and the overlap protects the outlet against rainfall.

Example identification

Product code: **USUA - aaa**

type
∅d

Dimensions



type	*∅d1 [mm]*	*A x A [mm]*	*L [mm]*	*air flow [cm²]*
USUA-100	100	137 × 137	52	71
USUA-125	125	167 × 167	52	113
USUA-150	150	167 × 167	62	165

Ventilation Accessories

External lamella flap

USMS-P

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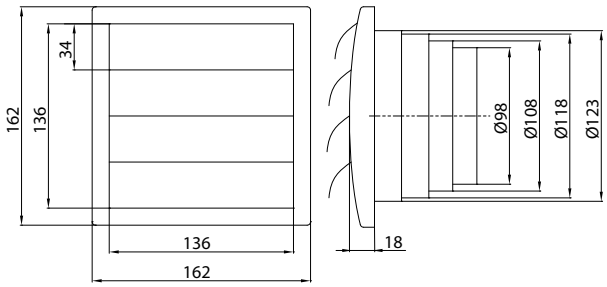
Description

The USMS-P external flap is made of white PVC and is adjusted for assembling on a wall by means of screws. It plays a role of an ejector. Self-acting closing lamellas protect an inlet against precipitations. The USMS-P flap matches diameters from 100 to 125

Example identification
Product code: **USMS-P**

type

Dimensions



External Non-Return Lamella Flap Valve

USMS

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Description

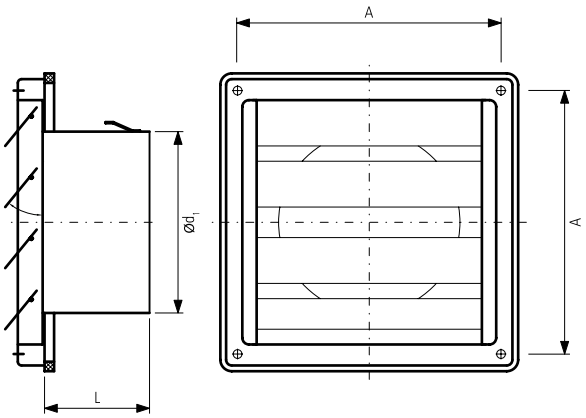
The USMS external non-return flap valve is made of acid-proof sheet metal and suitable for wall mounting using screws. It serves as an roof ejector, with self-closing lamellae protecting the outlet against rainfall.

Example identification

Product code: **USMS - aaa**

type
∅d

Dimensions



type	*∅d1 [mm]*	*A x A [mm]*	*L [mm]*	*air flow [cm²]*
USMS-100	100	137 × 137	52	70
USMS-125	125	167 × 167	52	112
USMS-150	150	167 × 167	62	164

External Grille

USUF

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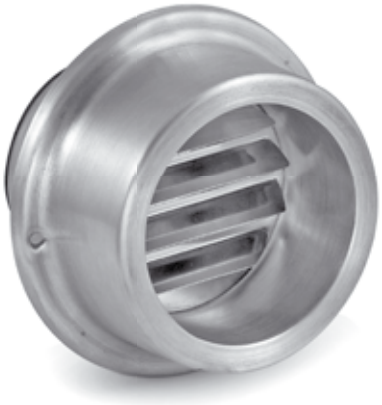


Description

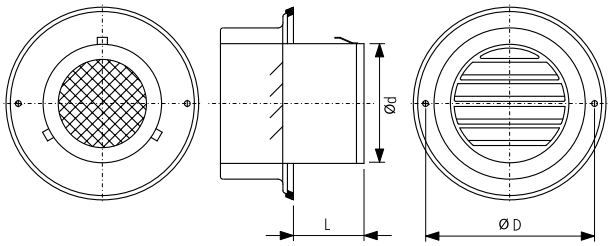
The USUF external grille is made of acid-proof sheet metal and suitable for wall mounting using screws. The high housing and slanting lamellae provide protection against rainfall, and the detachable mesh protects against insects.

Example identification

Product code: **USUF - aaa**

type
∅d

Dimensions



type	*∅d_1 [mm]*	*∅D_1 [mm]*	*L [mm]*	*air flow [cm²]*
USUF-100	100	133	52	57
USUF-125	125	165	52	93
USUF-150	150	192	62	138

Grille
USSE

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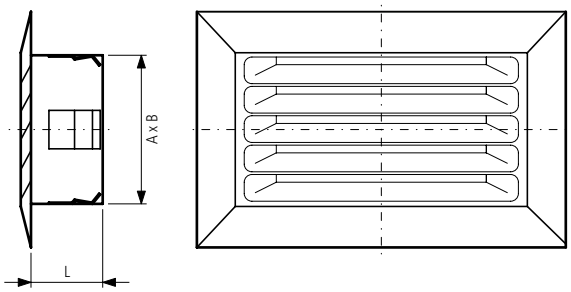
Description

The USSE is made of aluminium sheet with horizontal slanting lamellae.
USSE-B1 or USSE-B2 connectors can be used for connecting USSE grilles with round ducts.

Example identification
Product code: **USSE - 110**

code
dimension

Dimensions



type	*A x B [mm]*	*L [mm]*	*air flow [cm²]*
USSE-110	110×54	25	28
USSE-204	205×61	30	42

Connector

USSE-B1

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Description

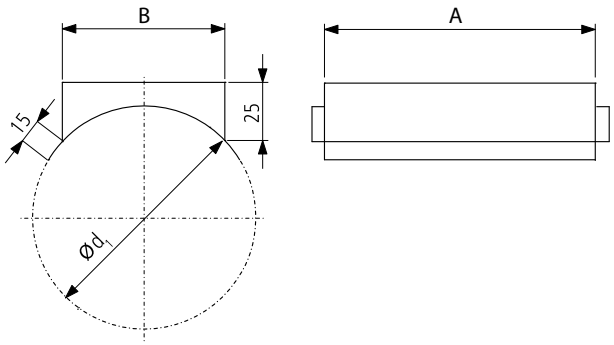
The USSE-B1 connector is used for fitting USSE grilles to round ducts.

Example identification

Product code: **USSE-B1 - aaa - w**

type
code
diameter

Dimensions



type	*A x A [mm]*	*Ød1 [mm]*
USSE-B1-100-1	110×54	100
USSE-B1-125-1	110×54	125
USSE-B1-150-1	110×54	150
USSE-B1-160-1	110×54	160
USSE-B1-200-1	110×54	200
USSE-B1-250-1	110×54	250
USSE-B1-100-2	205x61	100
USSE-B1-125-2	205x61	125
USSE-B1-150-2	205x61	150
USSE-B1-160-2	205x61	160
USSE-B1-200-2	205x61	200
USSE-B1-250-2	205x61	250

Connector

USSE-B2

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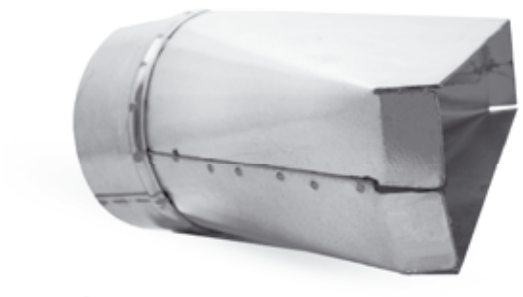


Description

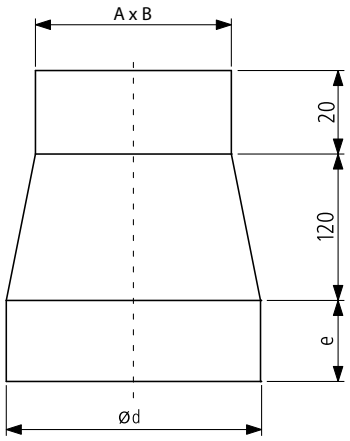
The USSE-B2 connector is used for fitting USSE grilles to round ducts.

Example identification

Product code: **USSE-B2 - aaa - w**

type
code
diameter

Dimensions



type	*A x A [mm]*	*Ød$_1$ [mm]*	*e [mm]*
USSE-B2-100-1	110×54	100	36
USSE-B2-125-1	110×54	125	36
USSE-B2-150-1	110×54	150	36
USSE-B2-160-1	110×54	160	36
USSE-B2-200-1	110×54	200	36
USSE-B2-250-1	110×54	250	55
USSE-B2-100-2	205x61	100	36
USSE-B2-125-2	205x61	125	36
USSE-B2-150-2	205x61	150	36
USSE-B2-160-2	205x61	160	36
USSE-B2-200-2	205x61	200	36
USSE-B2-250-2	205x61	250	55

Connector

USSE-B3

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Description

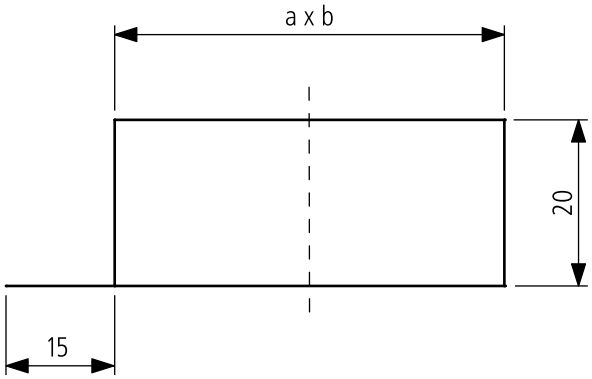
The USSE-B3 connector is used for fitting USSE grilles to rectangular ducts.

Example identification

Product code: **USSE-B3 - aaa**

code
size

Dimensions



type	*dimension*	*a x b [mm]*
USSE-B3	110	108 x 55
USSE-B3	205	205 x 60

Acid-Proof Mesh Connector

USAB

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Description

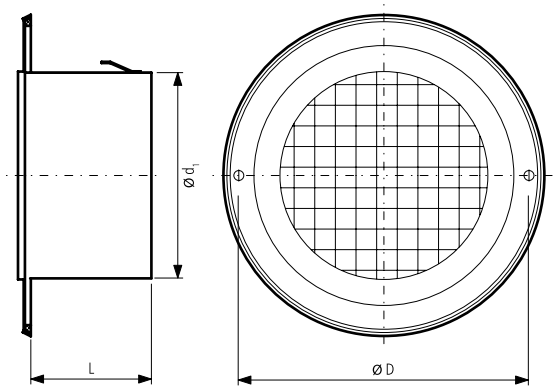
The USAB mesh connector is furnished with an end cover for connection to round ducts. It is made of acid-proof material

Example identification

Product code: **USAB - aaa**

type
∅d

Dimensions



type	*∅d₁ [mm]*	*∅D [mm]*	*L [mm]*	*air flow [cm²]*
USAB-100	100	133	52	65
USAB-125	125	165	52	101
USAB-150	150	192	62	147
USAB-160	160	192	62	157

Grille
ULMA

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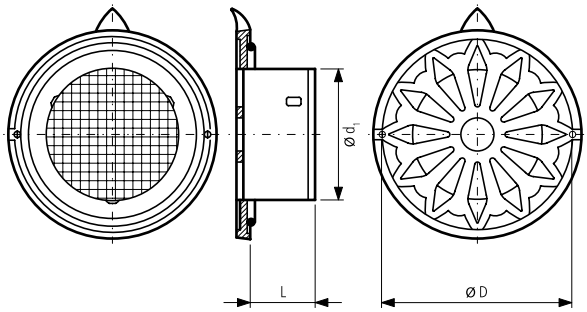
Description

The ULMA grille is aluminium cast. When connected to the duct, it is provided with a detachable mesh that enables its cleaning.

Example identification
Product code: **ULMA - aaaa**

type
∅d

Dimensions



type	*∅d1 [mm]*	*∅D [mm]*	*L [mm]*	*air flow [cm²]*
ULMA-100	100	140	52	45
ULMA-125	125	178	52	67
ULMA-150	150	178	62	115

Round duct grills – SGR

SGR

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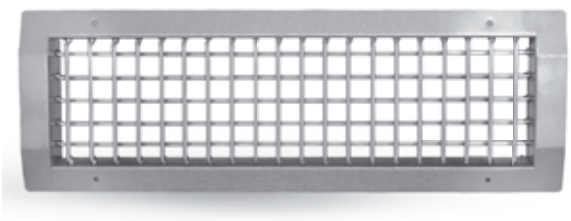


Description

The SGR intake-outtake grill is designed for mounting directly on a round duct by means of delivered screws. Construction of the grill enables its flanges to adhere tightly to a duct plane irrespective of its diameter. The grill is made of galvanized steel, with no welds. It means that it may be used without anticorrosive protections as it has the same surface finishing as ducts. The grill can be equipped with single or double lamellas mounted in vertical and horizontal position. Inclination angle of the lamellas can be adjusted manually. Additionally the grill can be equipped with the SGR-DA angular check damper.

Types of finishing of the grill: galvanized steel sheet
The grill can be powder painted according to RAL 9016

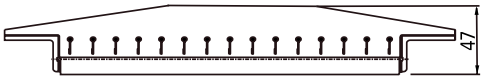
Example identification

Product code: **SGR** **a** **bbb** **ccc**

type
kind
A
B

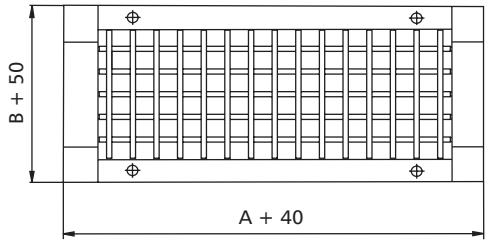
Kind

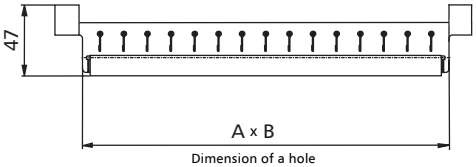
SGR-0 Single lamellas



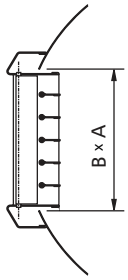
SGR-1 Double lamellas

Dimensions





Dimension of a hole



dimension A x B [mm]	min. duct dimension [mm]	max. duct dimension [mm]	surface [m²]	*weight SGR-0 [kg]*	*weight SGR-1 [kg]*
325x75	160	400	0,024	0,9	1,2
425x75	160	400	0,032	1,1	1,4
525x75	160	400	0,039	1,3	1,7
625x75	160	400	0,047	1,5	1,9
825x75	160	400	0,062	1,7	1,9
325x125	250	900	0,040	1,3	1,7
425x125	250	900	0,053	1,5	1,8
525x125	250	900	0,066	1,7	2,0
625x125	250	900	0,078	2,1	2,4
825x125	250	900	0,103	2,5	3,0
425x225	500	1400	0,096	2,7	3,0
525x225	500	1400	0,118	3,1	3,4
625x225	500	1400	0,141	3,4	3,7
825x225	500	1400	0,186	4,8	5,1

Round duct grills – SGR

SGR

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Technical Data

Table

Przepływ	A x B	425 x 75	525 x 75	625 x 75	425 x 125	525 x 125	625 x 125	425 x 225	525 x 225	625 x 225	825 x 225
(m^3/h)	Pole (m^2)	0,0130	0,0160	0,0190	0,0250	0,0310	0,0370	0,0490	0,0610	0,0730	0,0970
200	X (m)	5,1	4,6								
	L_A(dB)	24	20								
	Pt (Pa)	12	8								
250	X (m)	6,4	5,7	5,3							
	L_A(dB)	29	25	22							
	Pt (Pa)	19	12	9							
300	X (m)	7,6	6,9	6,3	5,5						
	L_A(dB)	33	29	26	21						
	Pt (Pa)	27	18	13	7						
350	X (m)	8,9	8	7,4	6,4	5,8					
	L_A(dB)	37	33	30	24	20					
	Pt (Pa)	37	24	17	10	6					
400	X (m)	10,2	9,2	8,4	7,3	6,6	6				
	L_A(dB)	40	36	33	28	23	20				
	Pt (Pa)	48	32	23	13	8	6				
450	X (m)	11,5	10,3	9,5	8,3	7,4	6,8				
	L_A(dB)	43	39	36	31	26	23				
	Pt (Pa)	61	40	29	17	11	8				
500	X (m)		11,5	10,5	9,2	8,2	7,6	6,6			
	L_A(dB)		42	38	33	29	25	20			
	Pt (Pa)		50	35	20	13	9	5			
600	X (m)			12,6	11	9,9	9,1	7,9	7,1		
	L_A(dB)			43	38	33	30	24	20		
	Pt (Pa)			51	29	19	13	8	5		
700	X (m)				12,9	11,5	10,6	9,2	8,2	7,5	
	L_A(dB)				41	37	34	28	24	20	
	Pt (Pa)				40	26	18	10	7	5	
800	X (m)				14,7	13,2	12,1	10,5	9,4	8,6	
	L_A(dB)				45	40	37	31	27	24	
	Pt (Pa)				52	34	24	14	9	6	
900	X (m)					14,8	13,6	11,8	10,6	9,7	8,4
	L_A(dB)					43	40	34	30	26	21
	Pt (Pa)					43	30	17	11		
1 000	X (m)						15,1	13,1	11,8	10,8	9,3
	L_A(dB)						42	37	33	29	23
	Pt (Pa)						37	21	14	10	5
1 200	X (m)							15,7	14,1	12,9	11,2
	L_A(dB)							41	37	33	28
	Pt (Pa)							31	20	14	
1 400	X (m)							18,4	16,5	15,1	13,1
	L_A(dB)							45	41	37	32
	Pt (Pa)							42	27	19	11
1 600	X (m)								18,8	17,2	14,9
	L_A(dB)								44	40	35
	Pt (Pa)								35	24	14
1 800	X (m)									19,4	16,8
	L_A(dB)									43	38
	Pt (Pa)									31	18
2 000	X (m)										18,7
	L_A(dB)										40
	Pt (Pa)										22

P_t(Pa) - pressure loss
L_A(dB(A)) - Acoustic pressure level

Dampers for SGR grills

SGR-DA

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Description

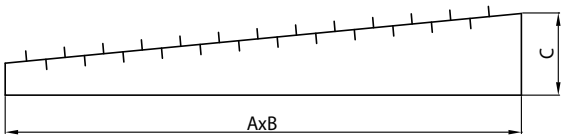
The SGR-DA angular check damper is designed for assembling on ventilation grills for round ducts. It is equipped with separate clips necessary for fastening the damper to the grill. The SGR-DA dampers are used in order to achieve an additional way of controlling the intensity and velocity of flow as well as a range of ventilation. The damper port is set at an angle to the grill plane. Air flow adjustment is made by changing a position of a damper gate closing the intake ports. The whole damper is made of galvanized steel sheet.

Types of finishing
Damper: galvanized steel sheet

Example identification
Product code: **SGR-DA** **aaa** **bbb**

type
A
B

Dimensions



Type	A [mm]	B [mm]	C [mm]
SGR-DA-325-75	325	75	55
SGR-DA-425-75	425	75	61
SGR-DA-525-75	525	75	70
SGR-DA-625-75	625	75	78
SGR-DA-825-75	825	75	80
SGR-DA-325-125	325	125	40
SGR-DA-425-125	425	125	61
SGR-DA-525-125	525	125	70
SGR-DA-625-125	625	125	75
SGR-DA-825-125	825	125	77
SGR-DA-425-225	425	125	61
SGR-DA-525-225	525	225	70
SGR-DA-625-225	625	225	78
SGR-DA-825-225	825	225	78

Rectangular duct grills
SHR

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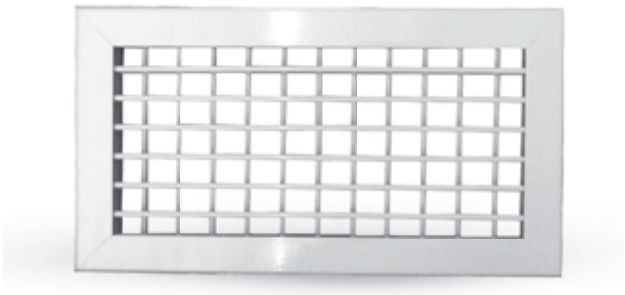


Description

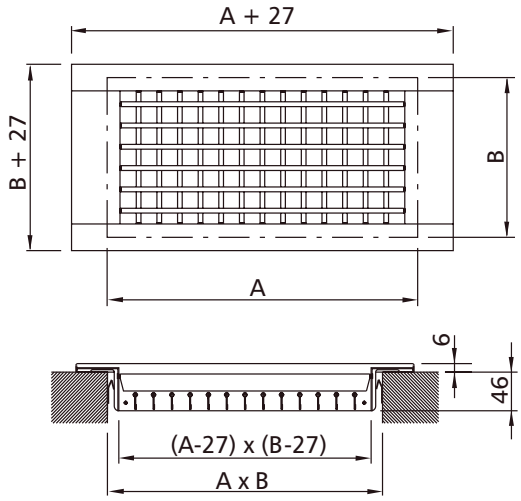
The SHR intake-outtake grill is designed for mounting on walls of rectangular ducts. The grill is fastened to the duct by means of delivered special clips. The grill is made of galvanized steel with no welds. It means that it may be used without anticorrosive protections. Inclination angle of the lamellas can be adjusted manually.

Assembly
1 – with use of delivered clips
Accessories
1 – double lamellas
Type of finishing
1 – galvanized steel sheet, powder painted according to RAL 9016

Example identification
Product code: **SHR 1 1 1 bbb ccc**

type
assembly
akcesoria
finishing
A
B

Dimensions



AxB [mm]	surface [m²]	weight [kg]
200x100	0,010	0,9
200x150	0,012	1,0
200x200	0,018	1,1
250x200	0,021	1,2
300x100	0,022	1,1
300x150	0,023	1,4
300x200	0,032	1,9
400x200	0,043	2,4
400x300	0,053	2,6
500x300	0,064	2,8

Technical data

Table

flow (m^3/h)	A x B	200 x 100	200 x 150	200 x 200	250 x 200	300 x 100	300 x 150	300 x 200	400 x 200	400 x 300	500 x 300
	Pole (m^2)	0,0098	0,0125	0,0183	0,0202	0,0212	0,0224	0,0321	0,0432	0,0532	0,0647
160	X (m)	2,5	2,2								
	L_A(dB)	22	< 20								
	Pt (Pa)	8	5								
200	X (m)	3,1	2,7	2,3	2,1	2,5					
	L_A(dB)	27	22	< 20	< 18	< 20					
	Pt (Pa)	13	8	4	2						
250	X (m)	3,9	3,4	2,8	2,4	3,1	2,6	2,4			
	L_A(dB)	33	28	20	18	24	< 20	< 18			
	Pt (Pa)	20	12								
300	X (m)	4,6	4,1	3,4	2,8	3,8	3,1	3,0			
	L_A(dB)	37	32	25	21	29	21	18			
	Pt (Pa)	29	18		10	13					
350	X (m)	5,4	4,8	4	3	4	3,6	3,1			
	L_A(dB)	41	36	29	26	33	25	22			
	Pt (Pa)	39	24	11	9	17					
400	X (m)	6,2	5,5	4,5	4	5	4,1	3,7	2,9	2,5	
	L_A(dB)	44	39	32	28	36	28	23	< 20	< 14	
	Pt (Pa)	51	32	15	11	23	10	8			
500	X (m)		6,8	5,6	5,3	6,3	5,1	4,8	3,7	3,3	3,3
	L_A(dB)		45	37	32	41	33	30	20	18	< 20
	Pt (Pa)		49	23	20	35	15	12	10	9	6
600	X (m)			6,8	5,5	7,5	6,1	6,0	4,4	4,1	3,9
	L_A(dB)			42	40	46	38	35	25	22	20
	Pt (Pa)			33	30	51	22	20	14	12	8
700	X (m)			7,9			7,1	6,6	5,6	5,1	4,6
	L_A(dB)			45			41	40	29	23	24
	Pt (Pa)			45			30	24	14	10	5
800	X (m)						8,2	7,4	5,9	5,2	5,2
	L_A(dB)						45	35	32	30	27
	Pt (Pa)						39	30	11	7	7
900	X (m)								6,6	6,1	5,9
	L_A(dB)								35	30	30
	Pt (Pa)								13	10	8
1000	X (m)								7,2	7,0	6,5
	L_A(dB)								37	32	33
	Pt (Pa)								17	14	10
1200	X (m)								8,8	8,2	7,9
	L_A(dB)								42	39	37
	Pt (Pa)								24	20	15
1400	X (m)								10,3	10,0	9,9
	L_A(dB)								45	41	41
	Pt (Pa)								32	28	20

P_t(Pa) - pressure loss
L_A(dB(A)) - sound pressure level

Frame for SHR grate for rectangular ducts

SHR-RM

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Description

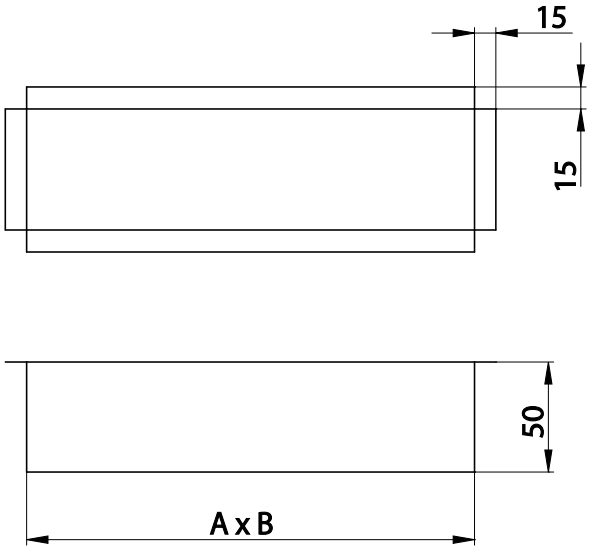
The SHR-RM assembly frame is designed for mounting the SHR grate in a rectangular duct.

Example identification

Product code: **SHR-RM** **aaa** **bbb**

type
A
B

Dimensions



AxB [mm]	surface [m²]	weight [kg]
200x100	0,02	0,9
200x150	0,03	1,0
200x200	0,04	1,1
300x100	0,03	1,1
300x150	0,05	1,4
300x200	0,06	1,9
400x200	0,08	2,4
400x300	0,12	2,6
250x200	0,05	1,2
500x300	0,15	2,8

Square intake diffusers

NCD-S

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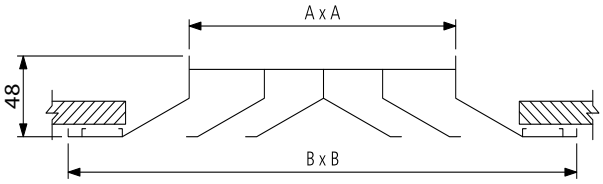
Dimensions



code	A x A [mm]	B xB [mm]	number of blades
NCD-S-295-295	150	295	2
NCD-S-370-370	225	370	3
NCD-S-445-445	305	445	4
NCD-S-520-520	375	520	5
NCD-S-595-595	450	595	6

*** typically mounted to the box PRK**

Description

The NCD-S square intake diffusers are designed for low- and medium-pressure intake and exhaust ventilation and air-condition systems. They can operate with constant and changeable air flow, in environments of 70% relative humidity.
They are recommended for horizontal intake in accommodations up to 4 m high due to their constant setting of guides.
They are mounted on rectangular ventilation ducts, expansion boxes and suspended ceilings by means of screws.
The diffusers are light and easily assembled, what eliminates a necessity of reinforcing of suspended ceilings. Its construction enables to take out a central part without dismantling the whole diffuser.
The diffusers are characterized with four-direction intake of air. It is recommended not to use self-locking diffusers in a ceiling position.
Using the PRK expansion box, a uniform air flow and damping are obtained when using an insulated box.

Material: aluminium
Finishing: powder painting
Standard colour: RAL 9016

Example identification
Product code: **NCD-S - 295 - 295**

type
dimension

Square intake diffusers

NCD-S

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Dimensions

dimensions [mm]	*A × A [mm]*	*characteristic*							
295-295	150x150	V [m³/h]	170	190	215	235	255	275	300
295-295	150x150	T [m]	1,6-2,5	1,6-2,8	1,9-2,8	2,2-3,1	2,5-3,4	2,5-3,4	
295-295	150x150	PS [Pa]	8	9	12	14	17	19	23
295-295	150x150	NC [dB]	15	16	17	19	20	21	22
370-370	225x225	V [m³/h]	380	430	480	525	570	620	670
370-370	225x225	T [m]	2,5-3,7	2,8-4,0	3,1-4,3	3,1-4,3	3,4-4,6	3,4-5,0	3,7-5,0
370-370	225x225	PS [Pa]	9	13	14	17	20	21	27
370-370	225x225	NC [dB]	18	19	21	22	24	25	26
445-445	305x305	V [m³/h]	680	765	850	935	1020	1105	1190
445-445	305x305	T [m]	3,4-5,0	3,7-5,6	4,0-5,9	4,3-6,2	4,3-6,5	4,6-6,8	5,0-7,1
445-445	305x305	PS [Pa]	10	12	16	19	22	23	30
445-445	305x305	NC [dB]	18	20	22	23	25	26	28
520-520	375x375	V [m³/h]	1060	1200	1325	1460	1590	1725	1855
520-520	375x375	T [m]	4,3-6,5	5,0-6,8	5,2-7,1	5,2-7,4	5,6-7,8	5,9-8,1	5,9-8,7
520-520	375x375	PS [Pa]	11	15	18	21	24	28	33
520-520	375x375	NC [dB]	19	21	23	25	27	28	30
595-595	450x450	V [m³/h]	1530	1720	1915	2110	2300	2500	2680
595-595	450x450	T [m]	6,5-7,8	6,2-8,1	6,2-8,7	6,5-9,0	6,5-9,3	6,8-9,9	7,1-10,2
595-595	450x450	PS [Pa]	12	15	18	22	26	29	34
595-595	450x450	NC [dB]	20	21	24	26	28	30	31

Expansion boxes to be mounted under the NCD-S diffusers

PRK

Description

The PRK expansion boxes are the attachment units for square diffusers in low- and medium-pressure ventilation systems. They are used to stabilize air flow as well as to achieve its uniform flow to the diffuser. The boxes may be connected to ventilation systems in lateral or upper plane. They may be equipped with a gate fastened to the intake connector pipe. We produce boxes padded with a flexible and high-temperature resistant, 13 mm thick insulation made of natural rubber. It is possible to order the boxes basing on drawings delivered by the Customer.

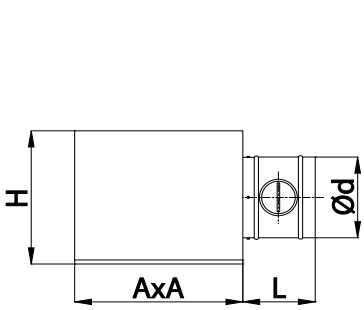
Symbols meaning:
Assembly:
B – lateral connection
G – upper connection
Equipment:
D – with a damper
Insulation:
I – insulated
Material: galvanized steel
Optionally acid resistant steel
Finishing:
Unpainted as a standard
Optionally powder-painted according to RAL 9016

Example identification

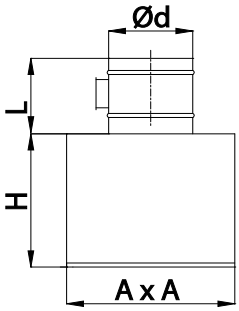
Product code: PRK 295 B D I Ød

- type
- size
- connection
- equipment
- insulation
- diameter

Dimensions



Type B - lateral connection



Type G - upper connection

Size	Type of difusser [mm]	AxA [mm]	H [mm]	Max. Ød [mm]	Stand. Ød [mm]	L [mm]
295	295-295	143x143	200	140	125	165
370	370-370	230x230	250	200	160	165
445	445-445	293x293	350	280	160	165
520	520-520	364x364	350	315	200	165
595	595-595	440x440	400	355	200	165

Swirl cassette diffusers

NKSD-C

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Description

The NKSD-C swirl diffusers are used in low and medium pressure ventilation systems. The characteristic feature is an air outlet with intensive swirl due to which air in the room is mixed with blown air. They are provided with adjustable plastic air blades (number of blades: 8 – 48 depending on the type) enabling adjustment of uniform air blow direction. Easy mounting, possibility of assembly with a plenum box. They are designed for operation with changeable or continuous air supply. Applicable for industrial room ventilation. They are mounted in ceiling plane. Due to use of the PRW plenum box the uniform air blow can be obtained as well as dampening when an insulated box is used.

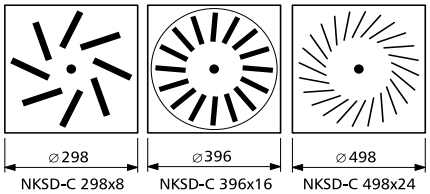
Material: galvanized steel
Finishing: powder painted RAL 9016

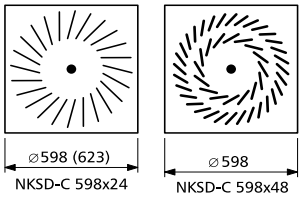
Example identification
Product code:

NKSD-C 598-48

type

Dimensions





Type	*ilość lamelek*
NKSD-C 298-8	8
NKSD-C 396-16	16
NKSD-C 498-24	24
NKSD-C 598-24	24
NKSD-C 598-48	48
NKSD-C 623-24	24
NKSD-C 623-48	48

*** typically mounted to the box PRW**

dimension of difusser	*diffuser capacity [m³/h]*												
	72	*90*	*108*	*144*	*162*	*180*	*252*	*360*	*450*	*540*	*720*	*900*	*1080*
	pressure loss / noise level [Pa/dB(A)]												
298-8	5/<20	9/<20	15/20	25/27	×	35/38	70/-47	-	-	-	-	-	-
396-16	-	-	-	-	4<20	8/<20	×	36/37	×	80/55	×	×	×
498-24	-	-	-	-	-	-	10/22	20/33	×	×	70/50	×	170/70
598-24	-	-	-	-	-	-	-	9/21	14/26	20/33	33/42	55/47	80/55
598-48	-	-	-	-	-	-	-	7/<20	9/20	13/25	25/35	50/46	90/50
625-24	-	-	-	-	-	-	-	-	12/24	26/30	38/40	62/42	78/52
625-48	-	-	-	-	-	-	-	-	6/20	12/27	22/37	36/48	80/58

Swirl cassette diffusers

NKSD-CB

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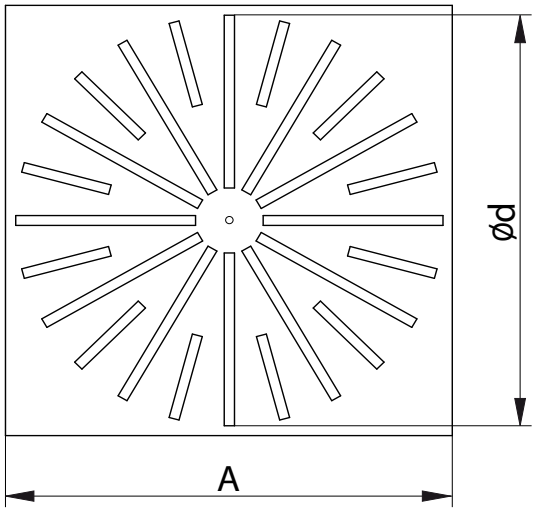
Description

The NKSD-CB cassette swirl diffuser is designed for low and medium pressure intake ventilation systems in rooms which height is up to 4 meters. Air is diffused through 24 radial wings. The advantage of this diffuser is the perfect diffusion of air stream as well a low level of noise generated during air flow. They are mounted to distribution boxes on ventilation dusts and to suspended ceilings. The diffuser is equipped with a central assembly hole. The diffusers are light and easy to install what eliminates a necessity of reinforcing the construction of suspended ceiling.
The use of the PRW distribution box ensures consistent air supply and attenuation if the box is insulated.

Material: galvanized steel
Finishing: powder painted RAL 9016

Example identification
Product code: **NKSD-CB - 600**
type _____

Dimensions



type	*A x A [mm]*	*Ød [mm]*
NKSD-CB - 600	600	545

*** typically mounted to the box PRW**

Swirl cassette diffusers

NK-SWB

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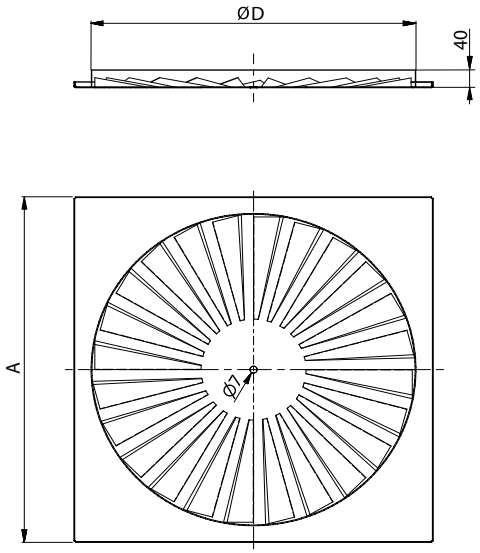
Description

The NK-SWB casette swirl diffuser is designed for proper direction and diffusion of air stream. It is applicable in low and medium pressure intake ventilation systems in rooms which height is up to 4 meters. Air is diffused through 24 radial wings. The advantage of this diffuser is the perfect diffusion of air stream as well as a low level of noise generated during air flow. They are mounted to distribution boxes on ventilation ducts and to suspended ceilings. The diffuser is equipped with a central assembly hole. The diffusers are light and easy to install what eliminates a necessity of reinforcing the construction of suspended ceiling. The use of the PRW distribution box ensures consistent air supply and attenuation if the box is insulated.

Material: galvanized steel
Finishing: powder painted RAL 9016

Example identification
Product code: **NK-SWB - 600**
type

Dimensions



type	*A x A [mm]*	*ØD [mm]*
NK-SWB - 600	595 x 595	540

*** typically mounted to the box PRW**

Swirl cassette diffusers

NK-SWB

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Dimensions

Table

For the vortex diffusers arranged in two or more rows

Height	Flow		Pressure	Sound	Range			
m	m3/s	m3/h	Pa	dB(A)	B = 2,7 m	B = 3,2 m	B = 3,6 m	B › 4 m
2,7	0,050	180	3	*	0,7	0,7	0,7	0,7
	0,060	216	4	*	1,2	1,0	0,8	0,7
	0,070	252	5	*	1,4	1,2	1,0	0,9
	0,080	288	7	*	1,6	1,3	1,2	1,0
	0,090	324	8	*	1,7	1,4	1,3	1,2
	0,100	360	10	*	1,8	1,5	1,4	1,2
	0,125	450	16	*	1,9	1,7	1,5	1,4
	0,150	540	23	25	2,0	1,8	1,6	1,5
	0,175	630	31	29	2,2	1,9	1,8	1,7
	0,200	720	41	33	2,4	2,2	2,1	2,0
3,0	0,050	180	3	*	0,7	0,7	0,7	0,7
	0,060	216	4	*	0,7	0,7	0,7	0,7
	0,070	252	5	*	1,0	0,8	0,7	0,7
	0,080	288	7	*	1,3	1,1	0,9	0,8
	0,090	324	8	*	1,5	1,2	1,1	0,9
	0,100	360	10	*	1,6	1,3	1,2	1,0
	0,125	450	16	*	1,8	1,5	1,4	1,3
	0,150	540	23	25	1,9	1,7	1,5	1,4
	0,175	630	31	29	2,0	1,7	1,6	1,5
	0,200	720	41	33	2,1	1,8	1,7	1,6
3,6	0,050	180	3	*	0,7	0,7	0,7	0,7
	0,060	216	4	*	0,7	0,7	0,7	0,7
	0,070	252	5	*	0,7	0,7	0,7	0,7
	0,080	288	7	*	0,8	0,7	0,7	0,7
	0,090	324	8	*	0,8	0,7	0,7	0,7
	0,100	360	10	*	1,2	0,9	0,8	0,7
	0,125	450	16	*	1,5	1,2	1,1	1,0
	0,150	540	23	25	1,7	1,4	1,3	1,1
	0,175	630	31	29	1,8	1,6	1,4	1,3
	0,200	720	41	33	1,9	1,6	1,5	1,4

T (m) - the range for air velocity 0.25 m / s
B (m) - the distance between rows
P (Pa) - loss of pressure

Expansion boxes to be mounted under the swirl cassette diffuser

PRW

Description

The PRW expansion boxes are the attachment units for swirling diffusers in low- and medium-pressure ventilation systems. They are used to stabilize air flow as well as to achieve its uniform flow to the diffuser.
The boxes may be connected to ventilation systems in lateral or upper plane. They can be equipped with a gate fastened to the intake connector pipe.
The NKSD-C, NK+SWA, NK+SWB, NKSD+CB diffuser is fastened to the PRW expansion box by means of a screw rivet.
We produce boxes padded with a flexible and high-temperature resistant and insulation made of natural rubber.
It is possible to order the boxes basing on drawings delivered by the Customer.

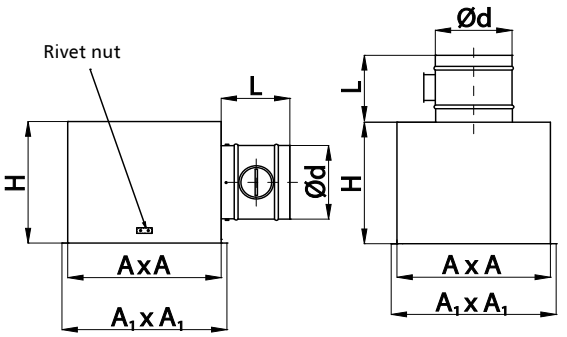
Symbols meaning:
Assembly:
B – lateral connection
G – upper connection
Equipment:
D – with a damper
Insulation:
I – insulated
Material: galvanized steel
Optionally acid resistant steel
Finishing:
Unpainted as a standard
Optionally powder-painted according to RAL 9016

Example identification

Product code: PRW 295 B D I ød

- type
- size
- connection
- equipment
- insulation
- diameter

Dimensions



type B - lateral connection

type G - upper connection

Type of difusser [mm]	AxA [mm]	A_1xA_1 [mm]	H [mm]	Max. Ød [mm]	Stand. Ød [mm]	L [mm]
298	261x261	291x291	250	200	160	165
396	367x367	391x391	300	250	200	165
498	461x461	491x491	300	250	200	165
598-24	561x561	591x591	330	250	250	165
598-48	580x580	591x591	330	250	250	165
623	595x595	625x625	360	315	315	165
623	595x595	625x625	360	315	315	165

Swirl cassette diffusers

NK-SWA

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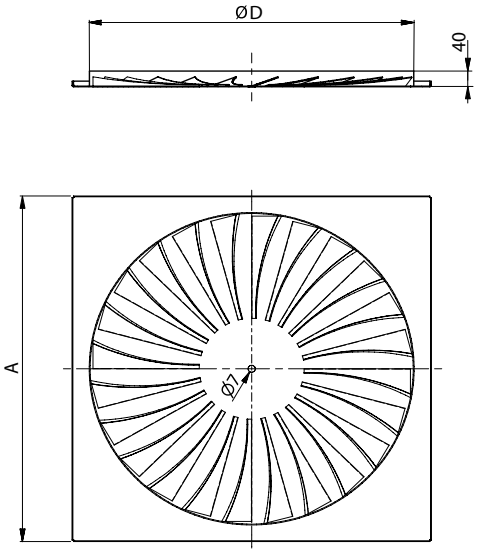
Description

The NK-SWA casette swirl diffuser is designed for proper direction and diffusion of air stream. It is applicable in low and medium pressure intake ventilation systems in rooms which height is up to 4 meters. Air is diffused through 24 radial wings. The advantage of this diffuser is the perfect diffusion of air stream as well as a low level of noise generated during air flow. They are mounted to distribution boxes on ventilation ducts and to suspended ceilings. The diffuser is equipped with a central assembly hole. The diffusers are light and easy to install what eliminates a necessity of reinforcing the construction of suspended ceiling. The use of the PRW distribution box ensures consistent air supply and attenuation if the box is insulated.

Material: galvanized steel
Finishing: powder painted RAL 9016

Example identification
Product code: **NK-SWA - 600**
typ

Dimensions



type	*A x A [mm]*	*ØD [mm]*
NK-SWA - 300	595 x 595	254
NK-SWA - 400	595 x 595	336
NK-SWA - 500	595 x 595	440
NK-SWA - 600	595 x 595	530
NK-SWA - 625	625 x 625	530

*** typically mounted to the box PRR**

Ventilation Accessories

Swirl cassette diffusers

NK-SWA

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Dimensions

Table

		Q (m³/h)				
		150	180	215	250	325
H (m)	V (m/s)	A (m)				
0.9		0.1	4.0	4.5	5.3	5.7, 6.0
	0.15	—	3.7	4.4	5.0	5.6
	0.2	—	—	—	4.2	5.0
	0.25	—	—	—	—	4.5
1.2	0.1	—	3.8	4.6	5.3	5.7
	0.15	—	—	—	4.1	4.9
	0.2	—	—	—	—	4.0
1.6	0.1	—	—	3.0	4.4	5.2
	0.15	—	—	—	—	4.0
2.0	0.1	—	—	—	3.0	4.6

Exhaust air			
Size (mm)	Flow (m³/h)	Pressure loss (Pa)	The level of suppression (dB(A))
300	150	16	20
	250	40	35
	350	80	44
400/500	250	8	‹20
	350	16	27
	500	36	40
	700	70	50
	900	120	55
600	350	8.5	‹20
	500	22	26
	700	38	35
	900	65	43

Supply air			
Size (mm)	Flow (m³/h)	Pressure loss (Pa)	The level of suppression (dB(A))
300	100	6.5	‹20
	150	13	24
	250	35	37
	400	9	53
	500	140	65
400	150	4.5	‹20
	200	9	‹20
	300	18	28
	400	36	38
	500	50	44
500	180	4.5	‹20
	250	8	‹20
	350	15	27
	550	38	42
	700	60	47
600	300	6	‹20
	400	10	22
	600	20	32
	800	38	42
	1200	85	55

Q (m3 / h) - the volumetric air flow
V (m / s) - the air velocity
A (m) - distance between diffusers
H (m) - distance between ceiling and occupied zone

Expansion boxes to be mounted under NK-SWA

PRR

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Description

PRR-SD-R plenum boxes are connecting elements for NKSD-R round intake diffusers for low and medium pressure ventilation systems.
They are used to stabilize the air flow and obtain an even air supply to the intake diffuser. The plenum box in an installation system may be connected laterally or from the above. They may be fitted with a damper at the exhaust connection. Our boxes are lined with 9mm layer of natural rubber based insulation that is flexible and resistant to high temperatures, It is possible to order pelnum boxes based on your own design drawings.

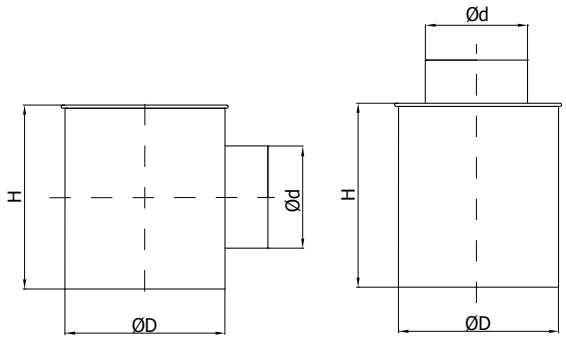
Symbols meaning:
Assembly:
B – lateral connection
G – upper connection
Assembly:
D – with a damper
Izolacja:
I – insulated
Material: galvanized steel
Optionally acid resistant steel
Finishing:
Unpainted as a standard
Optionally powder-painted according to RAL 9016

Example identification

Product code: **PRR 300 B D I Ød**

type
size
connection
equipment
isolation
diameter

Dimensions



typ B - ateral connection

typ G - upper connection

size	*ØD [mm]*	*Max. Ød [mm]*	*Dia. Ød [mm]*	*H [mm]*
300	254	224	125	250
400	336	224	125	250
500	440	250	160	300
595	530	315	200	350
625	530	315	200	350

Swirl round diffusers

NKSD-R

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Description

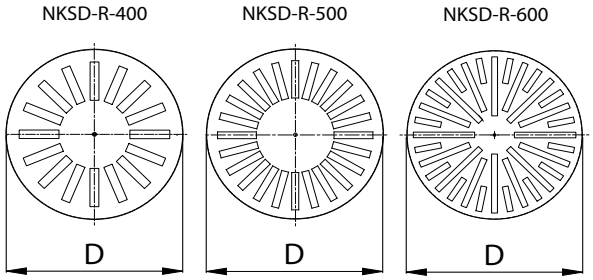
NKSD-R swirl round intakes are intended for low and medium pressure ventilation systems.
NKSD-R intakes are fitted with adjustable steering wheels (no. of wheels 16 – 32 depending on type) which allow to set the direction of concurrent air flow.
Easy to install, may be installed with a plenum box.
Intended to operate under constant or variable air flow.
Installed onto the ceiling surface.
PRR-SD-R plenum box results in an even air supply and noise reduction with insulated box.
Each intake is shipped with: two fastening screws M6x40 and M6x100, screw head cap, screw hole cap and self-adhesive foam washer.

Material: galvanized steel
Finish: powder painted RAL9016

Marking example
Product code: **NKSD-R-400**

type

Dimensions

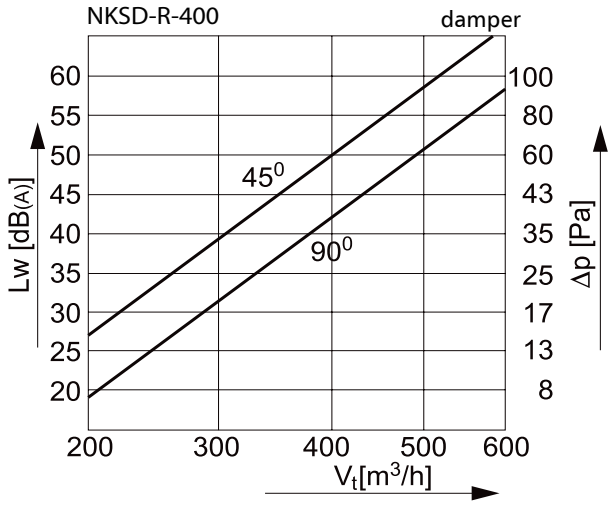


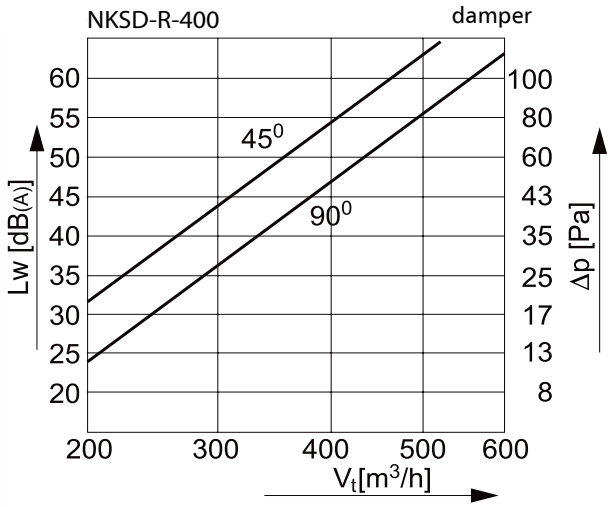
Type	*∅D*	no. of lamellae
NKSD-R-400	400	16
NKSD-R-500	500	24
NKSD-R-600	600	32

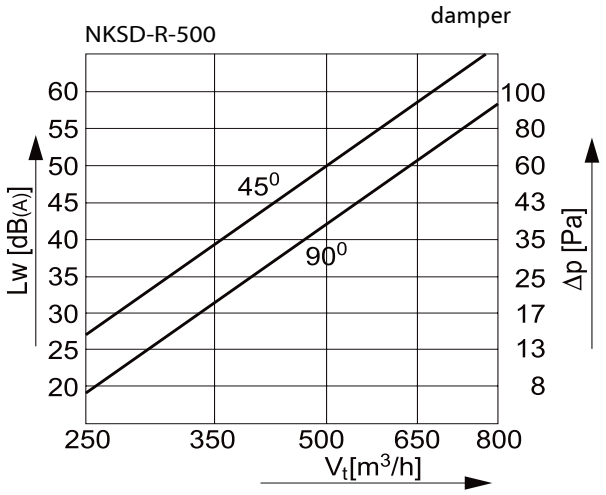
* installed in a PRR-SD-R box as a standard

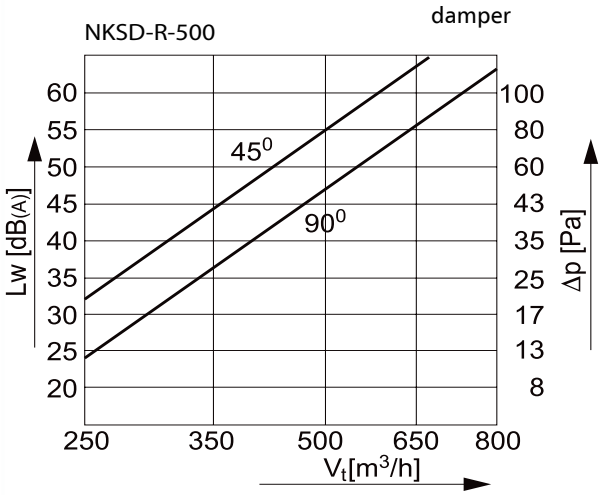
Technical data

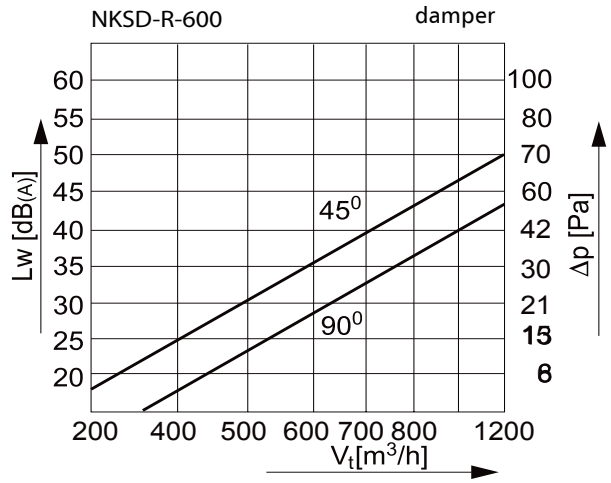
Selection graphs

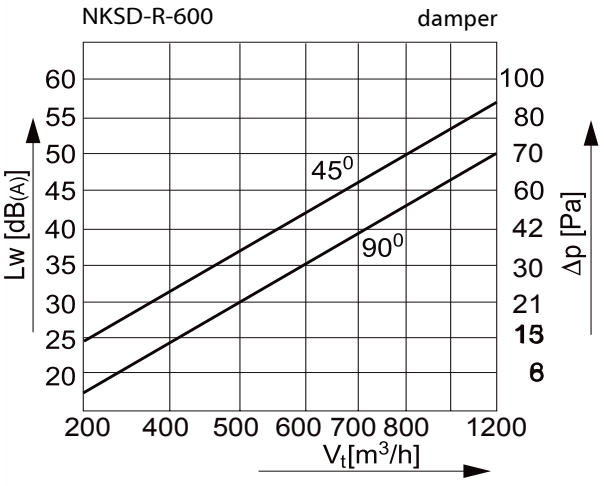












Expansion boxes to be mounted under NKSD-R

PRR-SD-R

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Description

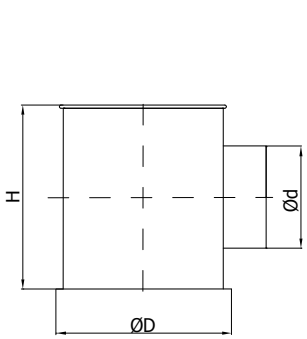
PRR-SD-R plenum boxes are connecting elements for NKSD-R round intake diffusers for low and medium pressure ventilation systems.
They are used to stabilize the air flow and obtain an even air supply to the intake diffuser. The plenum box in an installation system may be connected laterally or from the above. They may be fitted with a damper at the exhaust connection. Our boxes are lined with 9mm layer of natural rubber based insulation that is flexible and resistant to high temperatures, It is possible to order pelnum boxes based on your own design drawings.

Marking symbols:
Connection:
B – lateral connection
G – upside connection
Equipment:
D - with damper
Insulation:
I - insulated
Material: galvanized steel
Acid-proof steel on request
Finish:
Uncoated as a standard
On request - powder painted RAL 9016

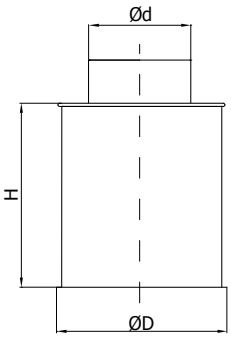
Marking example

Product code:	PRR-SD-R	300	B	D	I	Ød
type						
size						
connection						
equipment						
insulation						
diameter						

Dimensions



type B – lateral connection



type G – upside connection

dimension	*ØD [mm]*	*Max. Ød [mm]*	*Stand. Ød [mm]*	*H [mm]*
400	400	200	160	250
500	500	250	160	300
600	600	300	160	350

Round intake diffuser
NCD

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Description

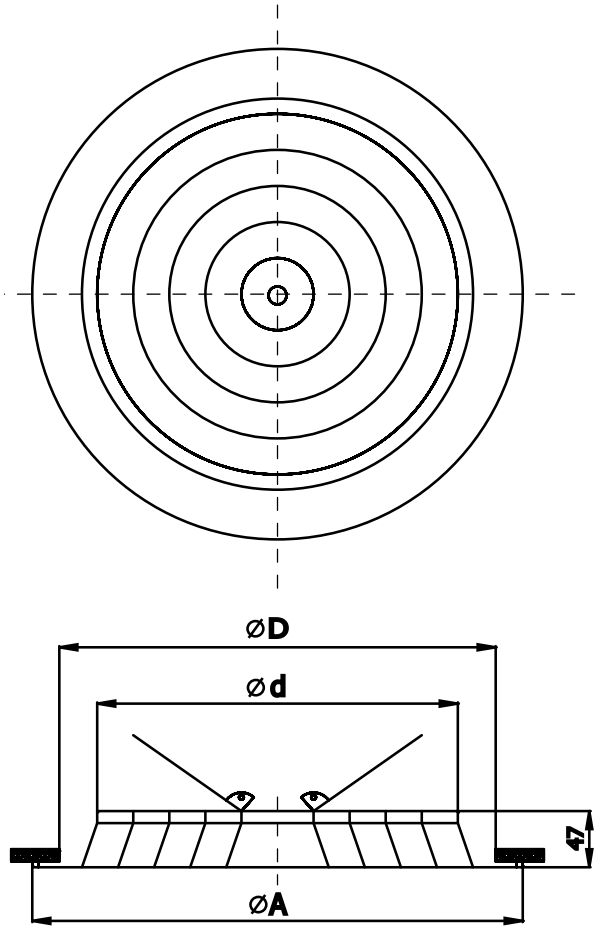
The NCD round intake diffusers are designed for low- and medium-pressure intake and exhaust ventilation and air-condition systems. They can operate with constant and changeable air flow. Air can be blown as well in vertical as in horizontal plane with temperature lower or higher than inside temperature.
The diffusers are light and easily assembled. It is possible to assemble them together with a distributor box. Using the PRO distributor box enables to obtain a uniform air flow as well as damping effect when insulated box is used.

Material: aluminium
Finishing: powder-painted according to RAL 9016

Example identification
Product code: **NCD** **aaa**

type
size

Dimensions



size	ØA [mm]	Ød [mm]	ØD [mm]
150	257	149	225
200	307	199	275
250	357	249	325
300	407	299	375
350	457	349	425

*** typically mounted to the box PRO or RM-NCD**

Round intake diffuser
NCD

Technical data

Table

Capacity (m^3/h)	Size	150	200	250	300	350
	Speed v (m/s)	2,75	1,2	0,77	0,54	0,4
	Ps (Pa)	7	3	2	2	2
100	Tmin (m)	0,5	0,33	0,27	0,22	0,19
	Tmax (m)	0,92	0,7	0,61	0,55	0,51
	NC (dB(A))	‹15	‹15	‹15	‹15	‹15
	Speed v (m/s)	4,12	1,79	1,16	0,81	0,6
	Ps (Pa)	13	4	3	2	2
150	Tmin (m)	0,75	0,49	0,4	0,33	0,29
	Tmax (m)	1,25	0,92	0,79	0,7	0,64
	NC (dB(A))	‹15	‹15	‹15	‹15	‹15
	Speed v (m/s)	5,5	2,39	1,55	1,08	0,81
	Ps (Pa)	22	6	3	3	2
200	Tmin (m)	1	0,66	0,53	0,44	0,38
	Tmax (m)	1,59	1,13	0,96	0,85	0,77
	NC (dB(A))	‹15	‹15	‹15	‹15	‹15
	Speed v (m/s)	6,87	2,99	1,94	1,35	1,01
	Ps (Pa)	33	8	4	3	3
250	Tmin (m)	1,24	0,82	0,66	0,55	0,48
	Tmax (m)	1,92	1,35	1,14	0,99	0,89
	NC (dB(A))	32	18	‹15	‹15	‹15
		8,25	3,59	2,32	1,61	1,21
	Ps (Pa)	47	10	5	4	3
300	Tmin (m)	1,49	0,99	0,79	0,66	0,57
	Tmax (m)	2,25	1,57	1,32	1,14	1,02
	NC (dB(A))	37	24	‹15	‹15	‹15
		9,62	4,18	2,71	1,88	1,41
	Ps (Pa)	63	13	7	4	3
350	Tmin (m)	1,74	1,15	0,93	0,77	0,67
	Tmax (m)	2,58	1,79	1,49	1,29	1,15
	NC (dB(A))	41	28	18	‹15	‹15
	Speed v (m/s)	10,99	4,78	3,1	2,15	1,61
	Ps (Pa)	82	17	8	5	4
400	Tmin (m)	1,99	1,31	1,06	0,88	0,76
	Tmax (m)	2,91	2,01	1,67	1,43	1,28
	NC (dB(A))	45	32	21	‹15	‹15
	Speed v (m/s)	12,37	5,38	3,49	2,42	1,81
	Ps (Pa)	103	21	10	6	4
450	Tmin (m)	2,24	1,48	1,19	0,99	0,86
	Tmax (m)	3,24	2,23	1,84	1,58	1,4
	NC (dB(A))	48	35	25	16	‹15
	Speed v (m/s)		5,98	3,87	2,69	2,02
	Ps (Pa)		26	12	7	5
500	Tmin (m)		1,64	1,32	1,1	0,95
	Tmax (m)		2,45	2,02	1,73	1,53
	NC (dB(A))		38	28	19	‹15

Round intake diffuser
NCD

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Technical data

Table

Capacity (m^3/h)	Size	150	200	250	300	350
	Speed v (m/s)		7,17	4,65	3,23	2,42
	Ps (Pa)		36	16	9	6
600	Tmin (m)		1,97	1,59	1,32	1,14
	Tmax (m)		2,88	2,37	2,02	1,78
	NC (dB(A))		43	33	24	17
	Speed v (m/s)		8,37	5,42	3,37	2,82
	Ps (Pa)		48	21	11	7
700	Tmin (m)		2,3	1,85	1,54	1,33
	Tmax (m)		3,32	2,72	2,31	2,04
	NC (dB(A))		47	37	29	21
	Speed v (m/s)			6,2	4,31	3,22
	Ps (Pa)			27	14	9
800	Tmin (m)			2,11	1,76	1,52
	Tmax (m)			3,08	2,61	2,29
	NC (dB(A))			41	32	25
	Speed v (m/s)			6,97	4,84	3,67
	Ps (Pa)			34	17	10
900	Tmin (m)			2,38	1,98	1,72
	Tmax (m)			3,43	2,9	2,55
	NC (dB(A))			44	36	29
	Speed v (m/s)			7,75	5,38	4,03
	Ps (Pa)			41	21	13
1000	Tmin (m)			2,64	2,2	1,91
	Tmax (m)			3,78	3,19	2,8
	NC (dB(A))			8,52	39	32
	Speed v (m/s)			5,08	5,92	4,43
	Ps (Pa)			29	25	15
1100	Tmin (m)			2,96	2,42	2,1
	Tmax (m)			4,13	3,49	3,05
	NC (dB(A))			50	41	34
	Speed v (m/s)				6,46	4,84
	Ps (Pa)				29	17
1200	Tmin (m)				2,64	2,29
	Tmax (m)				3,78	3,31
	NC (dB(A))				44	37
					7	5,24
	Ps (Pa)				34	20
1300	Tmin (m)				2,86	2,48
	Tmax (m)				4,07	3,56
	NC (dB(A))				46	39
	Speed v (m/s)					6,05
	Ps (Pa)					26
1500	Tmin (m)					2,86
	Tmax (m)					4,07
	NC (dB(A))					43

Expansion boxes to be mounted under the NCD

PRO

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Description

The PRO expansion boxes are the attachment units for round diffusers in low- and medium-pressure ventilation systems. They are used to stabilize air flow as well as to achieve its uniform flow to the diffuser. The boxes may be connected to ventilation systems in lateral or upper plane. They may be equipped with a gate fastened to the intake connector pipe. We produce boxes padded with a flexible and high-temperature resistant, 13 mm thick insulation made of natural rubber. It is possible to order the boxes basing on drawings delivered by the Customer.

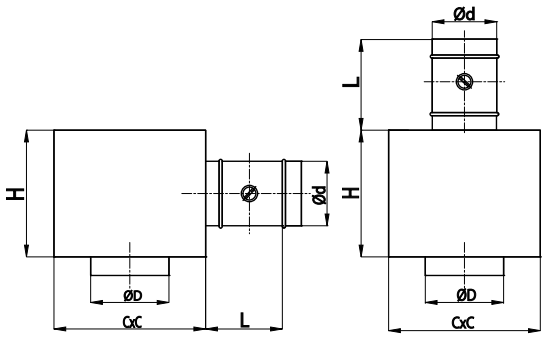
Symbols meaning:
Assembly:
B – lateral connection
G – upper connection
Equipment:
D – with a damper
Insulation:
I – insulated
Material: galvanized steel
Optionally acid resistant steel
Finishing:
Unpainted as a standard
Optionally powder-painted according to RAL 9016

Example identification

Product code: **PRO** **150** **B** **D** **I** **ød**

type
size
connection
equipment
insulation
diameter

Dimensions



type B - lateral connection

type G - upper connection

size	ØD [mm]	Ød [mm]	CxC [mm]	H [mm]	L [mm]
150	224	wg. zam	280	270	125
200	274	wg. zam	330	310	150
250	312	wg. zam	385	350	175
300	370	wg. zam	430	390	200
350	424	wg. zam	480	440	225

Plenum boxes for NCD intake diffusers

PRR-CD

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Description

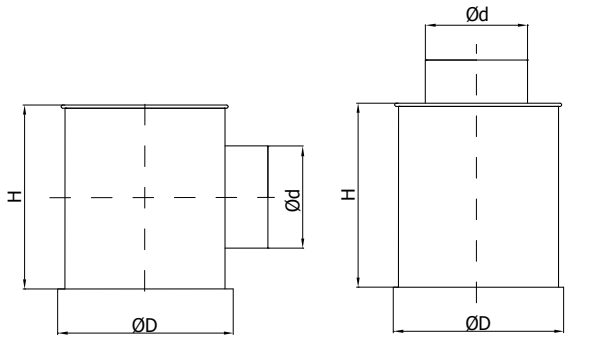
PRR-CD plenum boxes are connecting elements for NCD round intake diffusers for low and medium pressure ventilation systems.
They are used to stabilize the air flow and obtain an even air supply to the intake diffuser. The plenum box in an installation system may be connected laterally or from the above. They may be fitted with a damper at the exhaust connection. Our boxes are lined with 9mm layer of natural rubber based insulation that is flexible and resistant to high temperatures, It is possible to order pelnum boxes based on your own design drawings.

Marking symbols:
Connection:
B – lateral connection
G – upside connection
Equipment:
D - with damper
Insulation:
I - insulated
Material: galvanized steel
Acid-proof steel on request
Finishing:
Uncoated as a standard
On request - powder painted RAL 9016

Marking example
Product code: **PRR-CD 300 B D I Æd**

type
size
connection
equipment
insulation
diameter

Dimensions



type B – lateral connection

type G – upper connection

size	ØD [mm]	Max. Ød [mm]	Stand. Ød [mm]	H [mm]
150	220	160	125	200
200	270	200	125	250
250	320	200	160	250
300	370	250	160	300
350	420	250	160	300

Plenum boxes for NCD diffusers

RM-NCD

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Description

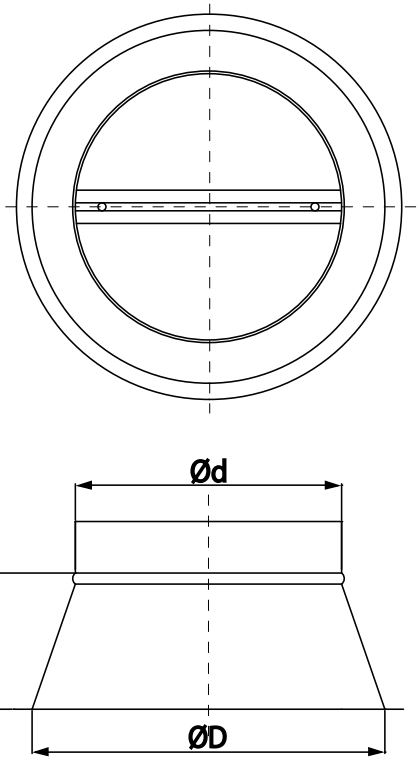
The RM-NCD plenum boxes are connecting elements for round diffusers in low and medium pressure ventilation systems. They are used to stabilize air flow and ensure uniform air supply to the diffuser. The inlet port of a plenum box can be connected directly to the ventilation system. Plenum boxes can be equipped also with a damper installed in the inlet port. Plenum boxes can be ordered based on drawings provided by the customer.

Oznaczenia symboli:
Wyposażenie:
DS – with damper
BP – without damper
Material: galvanized steel
Optionally acid resistant steel
Finishing:
Unpainted as a standard
Optionally powder-painted according to RAL 9016

Example identification
Product code: **RM-NCD - 150 - 125**

type
Type of difusser
⌀d duct

Dimensions



code	size of difiuser	⌀d duct [mm]	⌀D [mm]	H [mm]
RM-NCD-150-125	150	125	220	150
RM-NCD-150	150	150	220	100
RM-NCD-150-160	150	160	220	100
RM-NCD-200	200	200	270	100
RM-NCD-250-200	250	200	320	150
RM-NCD-250	250	250	320	100
RM-NCD-300-250	300	250	370	150
RM-NCD-300	300	300	370	100
RM-NCD-300-315	300	315	370	100
RM-NCD-350-315	350	315	420	150
RM-NCD-350-355	350	355	420	100

Long range nozzle
KHA

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Description

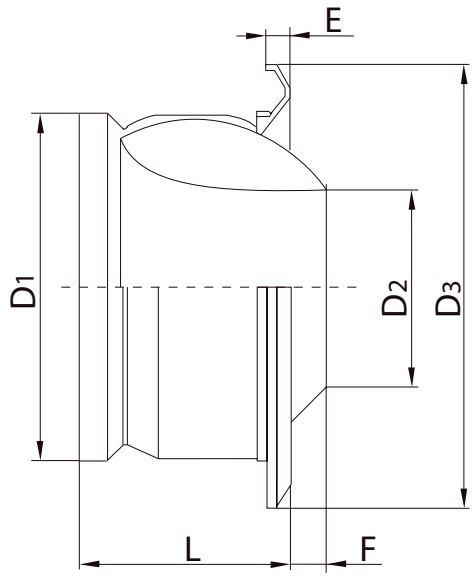
Long range nozzles KHA are applicable in high premises with high volume such as theatre, cinema and industrial halls. High volume flow of air is accompanied by a low level of sound pressure what guarantees a large range of air supply.
It is possible to apply the nozzle both for horizontal and vertical air supply.
The design of the iris-type lifting element allows to change the stream of air in any direction for 30o without causing changes in resistance and sound power.

Material: aluminium
Finish: powder painted acc. to RAL 9016
Standard colour: white

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

type
$\varnothing D_1$

Dimension



$\varnothing D_1$ [mm]	$\varnothing D_2$ [mm]	$\varnothing D_3$ [mm]	E [mm]	F [mm]	L [mm]
100	50	162	10	-2	78
125	64	185	10	4	89
160	82	216	11	10	106
200	108	273	16	14	127
250	136	318	16	23	159
315	174	400	23	29	189
400	230	483	24	47	223

Long range nozzle
KHA

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Technical Data

dimension [mm]	*stream range*						*V [m/s]*
	10 m		*20 m*		*30 m*		
	q [l/s]	*L_A dB(A)*	*q [l/s]*	*L_A dB(A)*	*q [l/s]*	*L_A dB(A)*	
100	-	-	26	31	39	42	0,25
125	-	-	34	27	50	37	
160	23	<20	46	<20	69	32	
200	29	<20	61	<20	85	26	
250	37	<20	76	<20	106	23	
315	50	<20	96	<20	150	21	
400	65	<20	129	<20	195	<20	
100	26	31	52	50	-	-	0,5
125	34	27	68	46	-	-	
160	46	<20	92	39	138	50	
200	61	<20	121	36	182	47	
250	76	<20	152	32	229	43	
315	98	<20	195	27	293	39	
400	129	<20	258	27	387	37	
100	52	50	-	-	-	-	1,0
125	68	46	-	-		-	
160	92	39	-	-	-	-	
200	121	36	242	49	-	-	
250	152	32	305	51		-	
315	195	27	390	47	585	53	
400	258	27	546	45	773	51	

L_AdB(A) - sound pressure level
q [l/s] - volumetric flow
V [m/s] - flow rate

Round supply diffusers
ACL

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Description

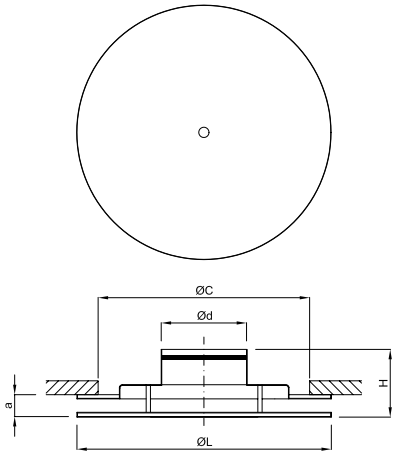
ACL supply diffusers are used with low and medium pressure ventilation systems and air-conditioning intakes and offtakes. They can be used with constant and irregular air-flow. The supplied air may have a temperature lower by 12°C compared to the air temperature in the interior. This allows the AKP intakes to be used, for example, in cold storage It is recommend to install on the ceiling surface.

Material: aluminium
Finish: powder painted
Standard color: RAL 9010
on special request, it can be painted in any color from the RAL template.

Example identification
Product code: **ACL** **aaa**

type
wielkość

Dimension

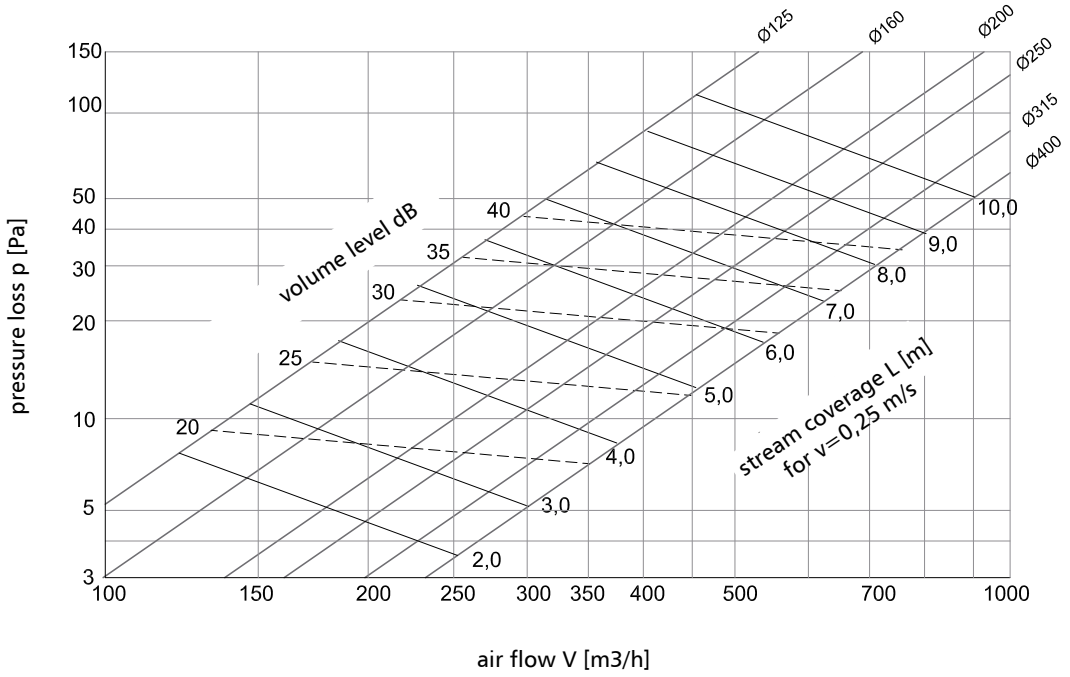


dimensions	*ØD [mm]*	*ØL [mm]*	*ØC [mm]*	*H [mm]*
125	123	240	200	148
160	158	300	260	158
200	198	360	320	168
250	248	460	420	168
315	313	540	500	168
400	398	540	500	168

Round supply diffusers
ACL

Technical data

Charts



Round supply diffusers
ACP

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Description

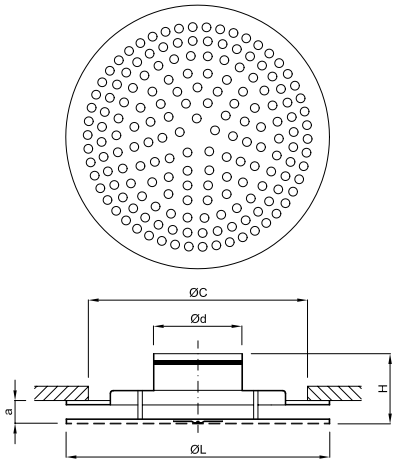
ACP supply diffusers with perforated surface are intended for low and medium pressure ventilation systems and air-conditioning intakes and offtakes. They can be used with constant and irregular air-flow. The supplied air may have a temperature lower by 12°C compared to the air temperature in the interior. This allows the AKP intakes to be used, for example, in cold storage It is recommend to install on the ceiling surface.

Material: aluminium
Finish: powder painted
Standard color: RAL 9010
on special request, it can be painted in any color from the RAL template.

Example identification
Product code: **ACP** **aaa**

type
dimensions

Dimension

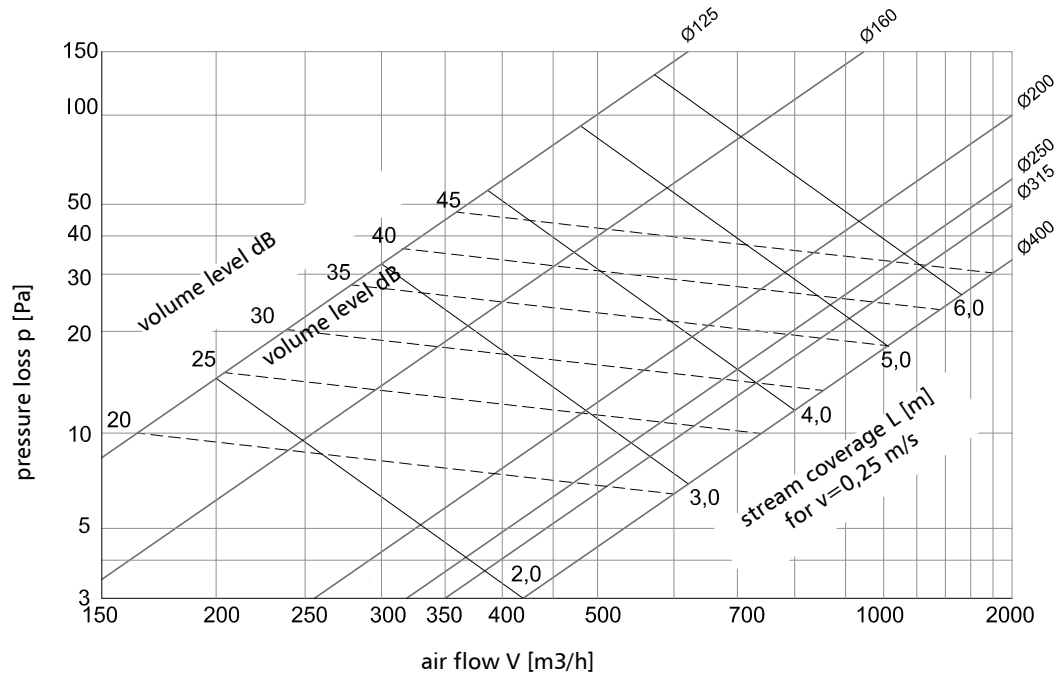


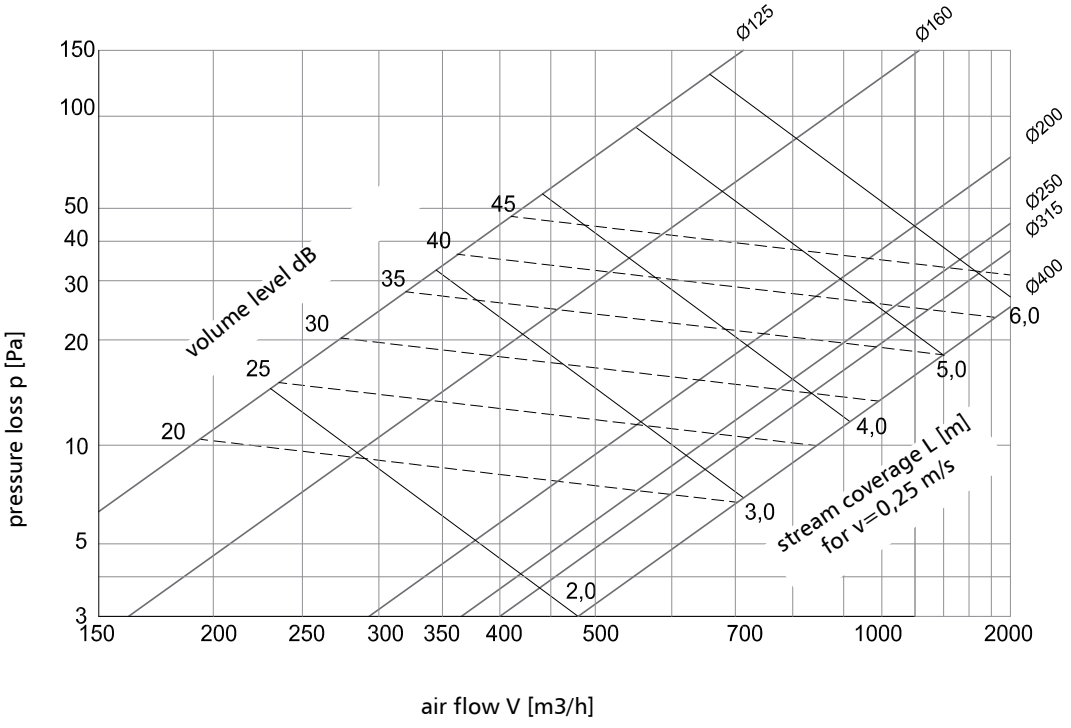
dimensions	*ØD [mm]*	*ØL [mm]*	*ØC [mm]*	*H [mm]*
125	123	240	200	148
160	158	300	260	158
200	198	360	320	168
250	248	460	420	168
315	313	540	500	168
400	398	540	500	168

Round supply diffusers
ACP

Technical data

Charts





Square supply diffusers
AKP

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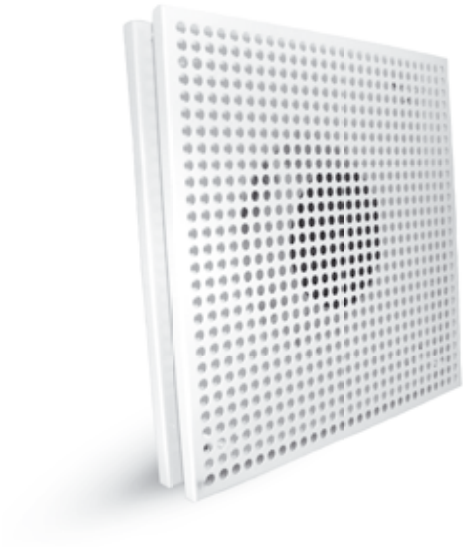


Description

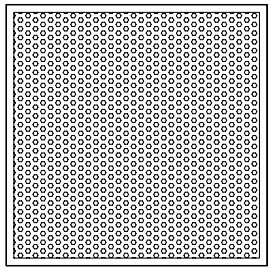
AKO supply diffusers are intended for low and medium pressure ventilation systems and air-conditioning intakes and offtakes. They can be used with constant and irregular air-flow. The supplied air may have a temperature lower by 12°C compared to the air temperature in the interior. This allows the AKP intakes to be used, for example, in cold storage It is recommend to install on the ceiling surface.

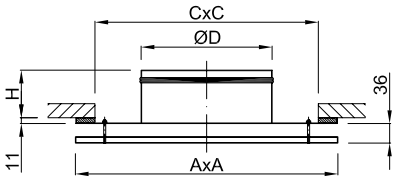
Material: aluminium
Finish: powder painted
Standard color: RAL 9010
on special request, it can be painted in any color from the RAL template.

Example identification
Product code: **AKP** **aaa**

type
dimensions

Dimension





dimensions	*ØD [mm]*	*AxA [mm]*	*CxC [mm]*	*H [mm]*
125	123	235x235	200x200	138
160	158	295x295	260x260	148
200	198	395x395	360x360	158
250	248	495x495	460x460	158
315	313	595x595	560x560	158
400	398	595x595	560x560	158

Square supply diffusers

AKP

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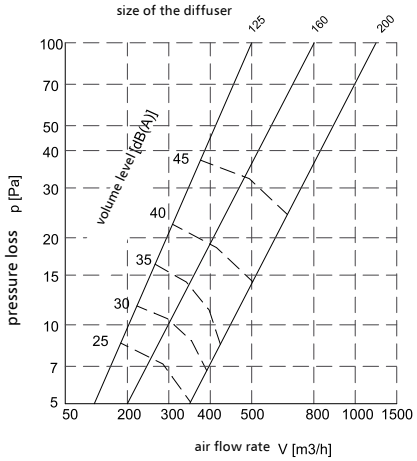
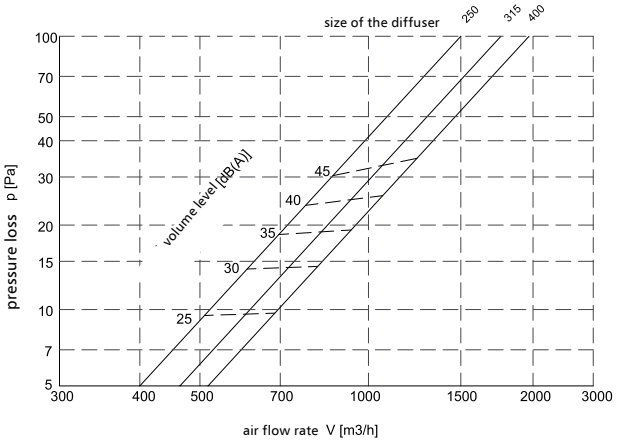
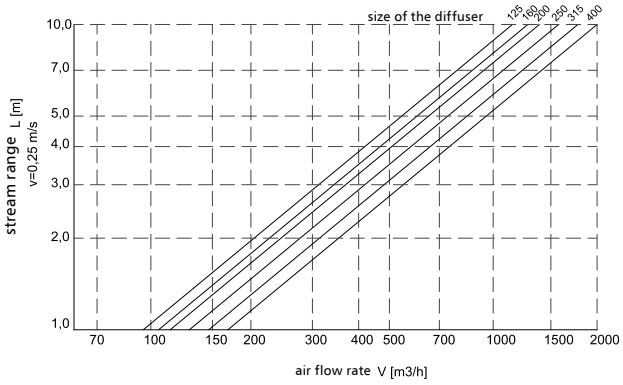
Technical data

Charts







Round supply diffusers
ITG

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Description

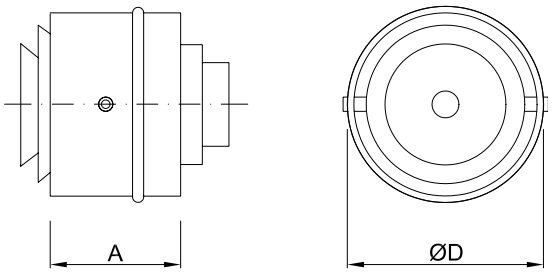
ITG round, long range supply diffusers are intended for high capacity air supply systems. The supplied air may have a temperature lower by 12°C compared to the air temperature in the interior. This allows the ITG intakes to be used, for example, in cold storage The air flow angle may be adjusted, 15° to 30°. By turning the diffuser by 180° it is possible to adjust the air flow focus.

Material: galvanized steel sheet
Finish: powder painted
Standard color: RAL 9010
on special request, it can be painted in any color from the RAL template.

Example identification
Product code: **ITG** **aaa**

type
dimensions

Dimension



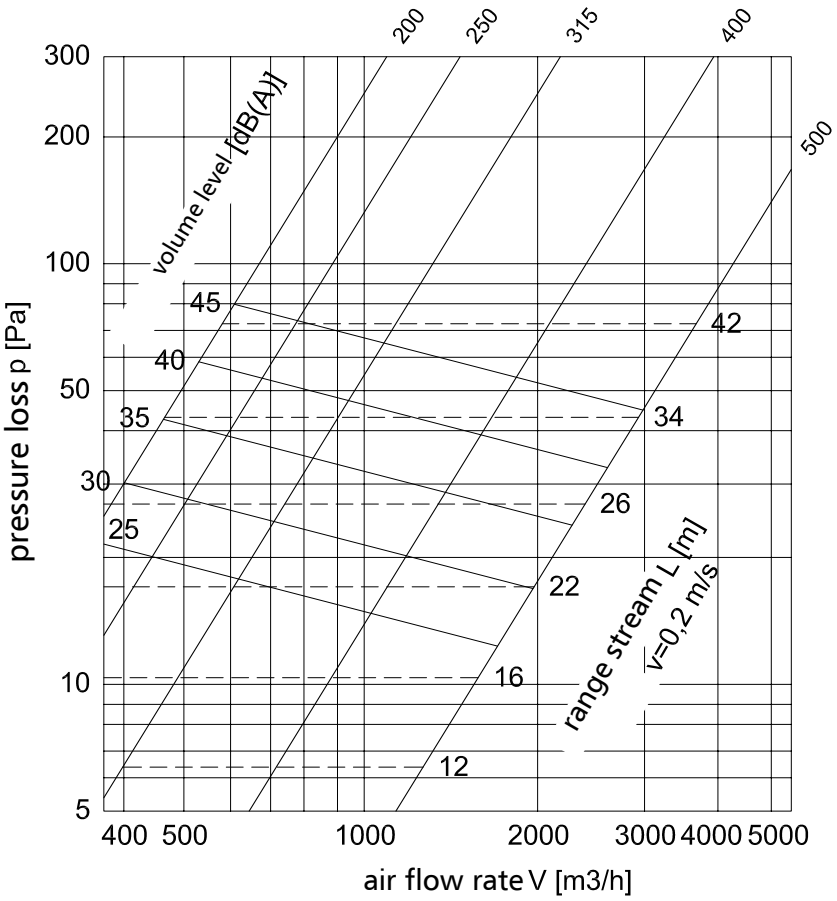
dimensions	*A [mm]*	*ØD [mm]*	*number of hole [pcs]*
200	115	198	2
250	115	248	2
315	115	313	3
400	115	398	3
500	115	498	4

Round supply diffusers

ITG

Technical data

Charts



Round supply diffusers

DKF

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Description

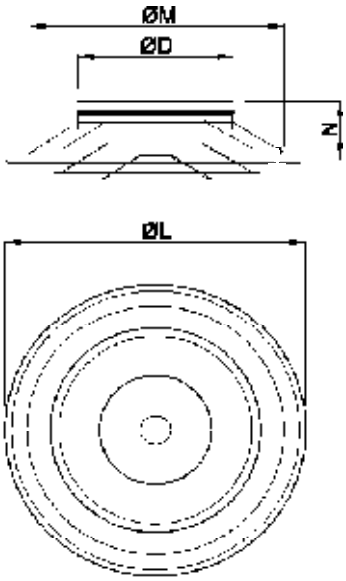
DKF supply diffusers are for low and medium pressure ventilation systems and air-conditioning intakes and offtakes. They can be used with constant and irregular air-flow. DKF supply diffusers may be used for heating of cooling the interior. DKF supply diffusers allow for a high amount of supplied air. It is recommend to install on the ceiling surface.

Material: galvanized steel sheet
Finish: powder painted
Standard color: RAL 9010
on special request, it can be painted in any color from the RAL template.

Example identification
Product code: **DKF** **aaa**

type
dimension

Dimension



dimension	*ØD [mm]*	*ØL [mm]*	*ØM [mm]*	*N [mm]*
125	124	305	270	82
160	159	305	270	82
200	199	378	330	84
250	249	477	420	99
315	314	591	530	116
400	398	690	630	128

Round supply diffusers

DKF

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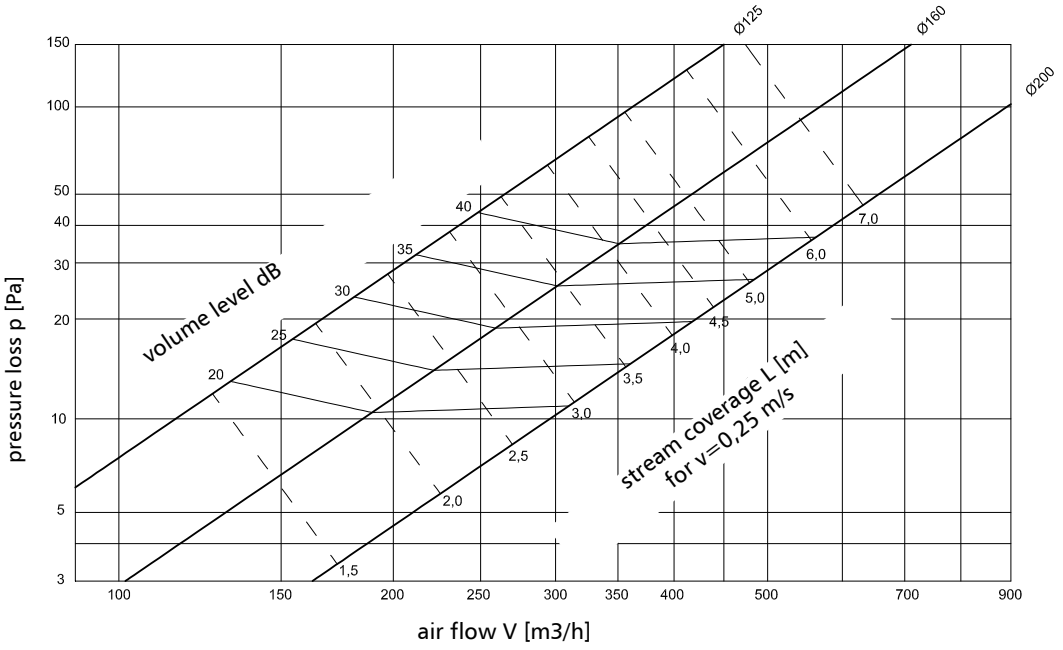
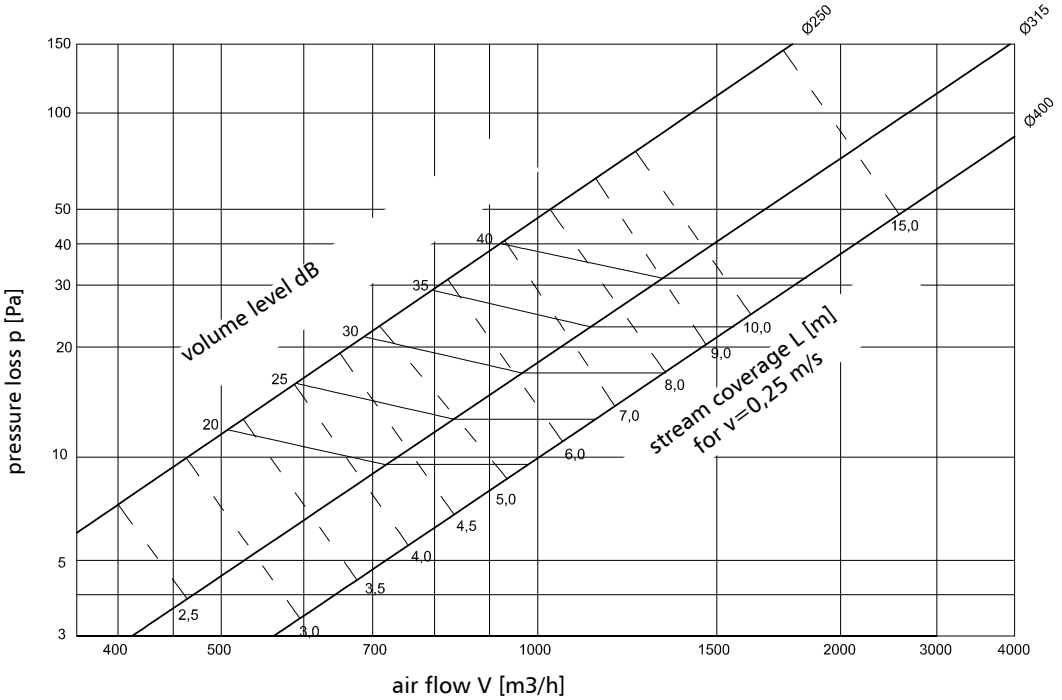
Technical data

Charts





Steel Wall Air Intake grill

CSQ

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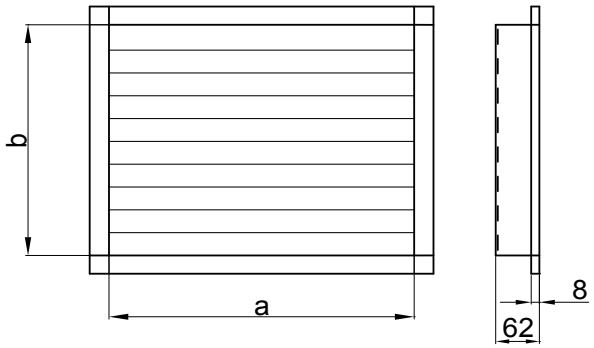
Description

Wall air intake grilles are produced with fixed shutters protected with a 12,7 x 12,7 mm mesh made of 1 mm dia. galvanized wire. They are mounted on walls or as a termination of ventilation ducts.
They are made of galvanized steel sheet. Optionally they can be powder painted with any RAL colour.
The product has the hygienic certificate HK/B/1652/01/2007.

Example identification
Product code: **CSQ - 2500 - 500**

type
a
b

Dimensions



Aluminium Wall Air Intake Grill

CSQ-A

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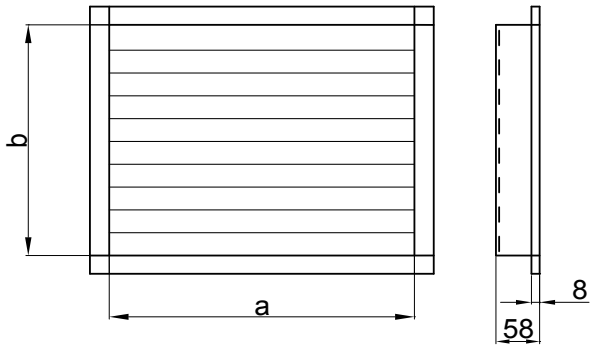
Description

Wall air intake grilles are produced with fixed shutters protected with a 12,7 x 12,7 mm mesh made of 1 mm dia. galvanized wire. They are mounted on walls or as a termination of ventilation ducts.
They are made of aluminium. Optionally they can be powder painted.
The product has the hygienic certificate HK/B/1652/01/2007.

Example identification
Product code: **CSQ-A - 2500 - 500**

type
a
b

Dimensions



Steinlees Steel Wall Air Intake Grill

CSQ-K

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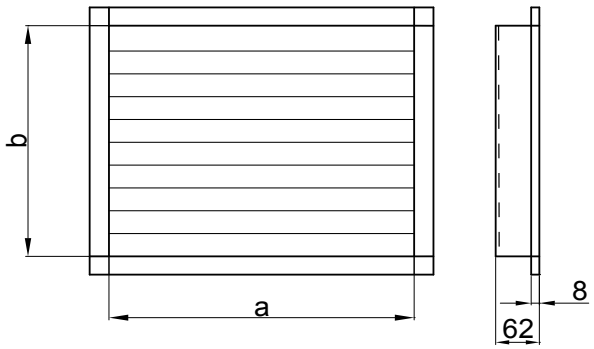
Description

Wall mounted air intakes are fitted with fixed shutters protected with a 12,7 x 12,7 mm mesh made of 1 mm dia. galvanized wire. Installed on walls or as a termination of ventilation ducts. Made of acid-proof steel sheet.
On request, it may be powder painted in any RAL template color.
The product has a hygiene certification HK/B/1652/01/2007.

Example identification
Product code: **CSQ-K - 2500 - 500**

type
a
b

Dimensions



Steel Wall Exhaust Grille

WSQ

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Description

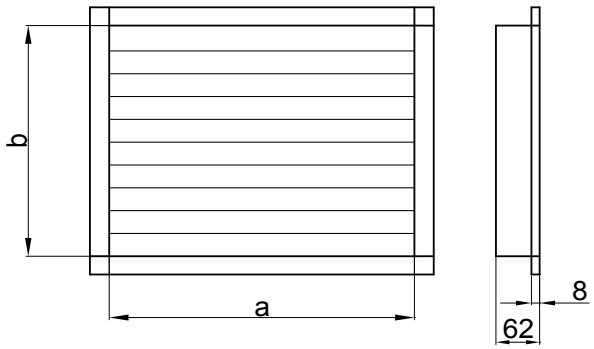
Wall air intake grills are manufactured with fixed shutters protected with a net. They are mounted directly on walls or as closing of ventilation ducts.
They are made of galvanized steel sheet. Optionally they can be powder painted.
The product has the hygienic certificate HK/B/1652/01/2007.

Example identification

Product code: **WSQ - 2500 - 500**

type
a
b

Dimensions



Aluminium Wall Exhauts Grille

WSQ-A

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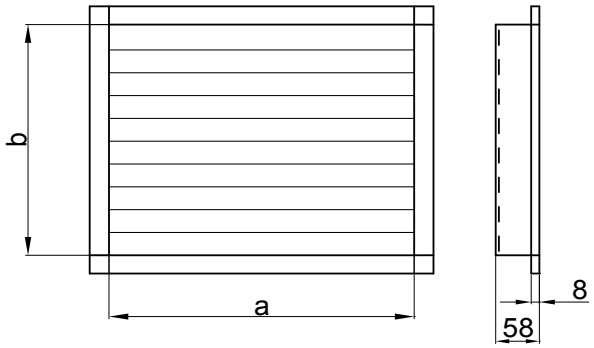
Description

Wall air intake grills are manufactured with fixed shutters protected with a net. They are mounted directly on walls or as closing of ventilation ducts.
They are made of aluminium. Optionally they can be powder painted.
The product has the hygienic certificate HK/B/1652/01/2007.

Example identification
Product code: **WSQ-A - 2500 - 500**

type
a
b

Dimensions



Steinless Steel Wall Exhauts Grille

WSQ-K

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Description

Wall-mounted air intakes with fixed shutters.
Installed on walls or as a termination of ventilation ducts.
Made of acid-proof steel sheet.
On request, it may be powder painted in any RAL template color.
The product has a hygiene certification HK/B/1652/01/2007.

Example identification

Product code: **WSQ-K - 2500 - 500**

type
a
b

Dimensions