

CDD Design ceiling air diffuser

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PERFORMANCE DATA

- NW 600 / 625
- Air volumes at 35 dB(A) approx. 450 m³/h in the supply air and approx. 900 m³/h in the return air.

SPECIAL FEATURES

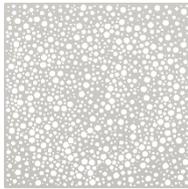
- suitable for supply and return air
- for standard and small air volumes
CDD-N-...: for standard air volumes
CDD-M-...: for small air volumes
- four models available
CDD-N-A: Design ceiling diffuser, with round hole design, with different hole diameters.
CDD-N-B: Design ceiling diffuser, with rectangular hole design, with different sizes of rectangles.
CDD-N-C: Design ceiling diffuser, with slot design, with slots of different lengths.
CDD-...-E: Design ceiling diffuser, with round hole design, the holes arranged in a helical manner including the corner areas.
CDD-...-K: Design ceiling diffuser, with round hole design, the holes arranged in a helical manner in a circle.

OVERVIEW OF PRODUCT VERSIONS

square design (-Q/-S)

CDD-N-A-Q/-S-...

CDD-N-A-Q-...

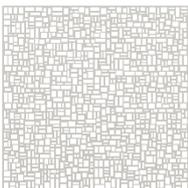


CDD-N-A-S-...



CDD-N-B-Q/-S-...

CDD-N-B-Q-...

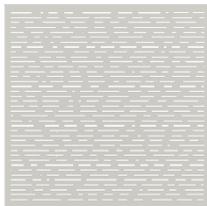


CDD-N-B-S-...



CDD-N-C-Q/-S-...

CDD-N-C-Q-...

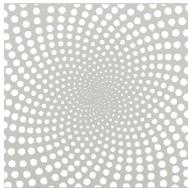


CDD-N-C-S-...

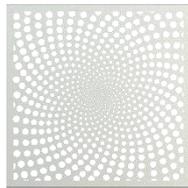


CDD-...-E-Q/-S-...

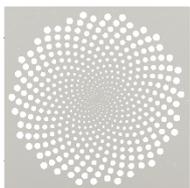
CDD-...-E-Q-...



CDD-...-E-S-...

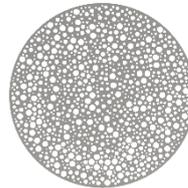


CDD-...-K-Q/-S-... (view of -Q and -S is identical)

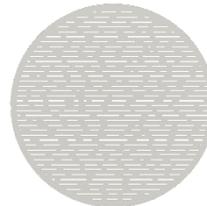


round design (-R)

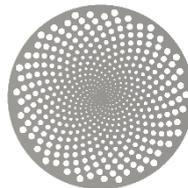
CDD-N-A-R-...



CDD-N-C-R-...



CDD-...-K-R-...



FUNCTION AND USE

The SCHAKO design ceiling air diffuser of **CDD-... type** has been developed exclusively for use in return air systems.

The round (-R) or square design ceiling air diffuser with surrounding edge (-Q) or square design with double folded edge (-S) consists of various perforated faceplates with plenum box for introducing the supply air into the room or extracting return air from the room. The design ceiling air diffuser is suitable for VAV systems with variable volumetric flows of 40-100%. The CDD-M-... model (only possible CDD-...-E/K-...) is especially designed for very small air volumes.

The faceplate consists of perforated sheet steel with high-quality powder coating in the colour RAL 9010 (white) or in other RAL colours (freely selectable). The plenum box is made of galvanised sheet steel and has fixing lugs.

The diffuser is connected to the plenum box via:

- Magnetic fastening (-MB, standard)
- Concealed mounting (-VM, not possible for CDD-...-C/-E/-K-...)

Only possible for ceiling installation!

PERFORMANCE DATA SUPPLY AIR

CDD-N-A-Q/-S/-R-Z-...

V _{ZU} (m ³ /h)	L _{WA} [dB(A)]	Δp _{t supply air} (Pa)
370	30	14
425	35	19
495	40	25

CDD-N-B-Q/-S-Z-...

V _{ZU} (m ³ /h)	L _{WA} [dB(A)]	Δp _{t supply air} (Pa)
380	30	14
440	35	18
520	40	26

CDD-N-C-Q/-S/-R-A-...

V _{ZU} (m ³ /h)	L _{WA} [dB(A)]	Δp _{t supply air} (Pa)
390	30	8
470	35	12
590	40	18

CDD-N-E-Q/-S-Z-...

V _{ZU} (m ³ /h)	L _{WA} [dB(A)]	Δp _{t supply air} (Pa)
360	30	13
415	35	18
485	40	25

CDD-N-K-Q/-S/-R-Z-...

V _{ZU} (m ³ /h)	L _{WA} [dB(A)]	Δp _{t supply air} (Pa)
360	30	13
415	35	18
485	40	25

In the return air, the volumetric flows double their volume while the sound power level and the pressure loss remain the same.

AIR THROW PATTERN

Ceiling, air intake



Ceiling, exhausting



MODELS

CDD-N-...	for standard air volumes.
CDD-M-...	for small air volumes (only possible with drill pattern -E and -K).
CDD-N-A-...	Design ceiling diffuser, with round hole design, with different hole diameters, with magnetic fastening (-MB, standard), optionally with concealed mounting (-VM).
CDD-N-B-...	Design ceiling diffuser, with rectangular hole design with different sizes of rectangles, with magnetic fastening (-MB, standard), optionally with concealed mounting (-VM).
CDD-N-C-...	Design ceiling diffuser, with slot design, with slots of different lengths, with magnetic fastening (-MB, standard, for return air only).
CDD-...-E-...	Design ceiling diffuser, with round hole design, the holes are arranged in a helical manner including the corner areas, with magnetic fastening (-MB, standard).
CDD-...-K-...	Design ceiling diffuser, with round hole design, the holes are arranged in a helical manner in a circle, with magnetic fastening (-MB, standard).
CDD-...-Q-...	Design ceiling diffuser, square design with surrounding edge.
CDD-...-S-...	Design ceiling diffuser, square design with double folded edge.
CDD-...-R-...	Design ceiling diffuser, round design with surrounding edge (not possible for CDD-B/-E-...).
CDD-...-Z-...	Supply air (with intake funnel).
CDD-...-A-...	Return air (without intake funnel).

MOUNTING

- Magnetic fastening (-MB, standard).
- Concealed mounting (-VM), using invisible screw mounting.
 - only in connection with plenum box (on-site plenum box or counter pole brace are also possible).
 - not possible for CDD-...-C/-E/-K-...

Only possible for ceiling installation!

PROCESSING

Faceplate

- perforated sheet steel (-SB):
 - painted to the colour RAL 9010 (white) (-9010).
 - painted to a RAL colour of your choice (-xxxx, at an extra charge).

Baffle plate (only for supply air model (-Z))

- Sheet steel painted to RAL 9005 (black).

Intake funnel

- Sheet steel painted to RAL 9005 (black).

ACCESSORIES

Plenum box (-SK-...-56/-75-...)

Square design, made of galvanised sheet steel (-SV, standard), housing with round connection spigot and mounting brackets.

- Air volume:
 - standard air volumes (-56)
 - small air volumes (-75)
- Air diffuser:

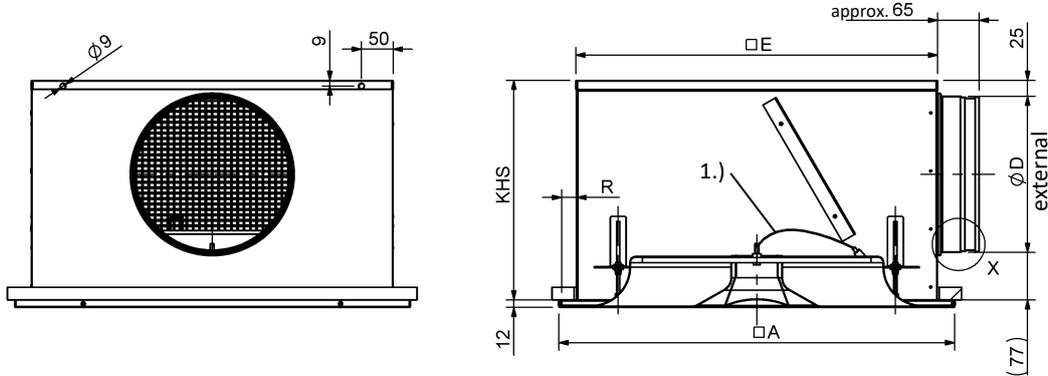
- suitable for CDD-...-Q/-S-... (-Q).
- suitable for CDD-...-R-... (-R).
- Nominal width:
 - suitable for NW600 (-600).
 - suitable for NW625 (-625).
- Mounting:
 - Magnetic fastening (-MB, standard).
 - concealed mounting (-VM, not possible for CDD-...-C/-E/-K-...).

Only possible for ceiling installation!
- Damper:
 - without damper (-DK0) (standard).
 - with damper (-DK1), made of galvanised sheet steel, in the plenum box housing, for simple air volume regulation.
 - with damper (-DK2), made of galvanised sheet steel, in the plenum box housing, adjustable with cable-operated adjustment, for simple air volume regulation.
- Rubber lip seal:
 - without rubber lip seal (-GD0) (standard).
 - with rubber lip seal (-GD1) made of special rubber, at the connection spigot.
- Volumetric flow meter:
 - without volumetric flow meter (-VME0) (standard).
 - With volumetric flow meter (-VME1), holder made of galvanised sheet steel, measuring sensor made of plastic, connections made of aluminium.
- ROB version:
 - without ROB version (-ROB0) (standard).
- Insulation:
 - without insulation (-I0) (standard).
 - with internal insulation (-Ii), thermal insulation inside the plenum box.
 - with external insulation (-Ia), thermal insulation at the outside of the plenum box.
- Height of plenum box:
 - Standard height of plenum box (-KHS).
 - Height of plenum box in mm (-xxx) (always with 3 digits). (SK-Q-... model: minimum height [KHS] with spigot position S1+S2+S3+S5 = spigot diameter $\varnothing D + 102$ mm and with spigot position S0 = 200 mm. SK-R-... model: minimum height [KHS] with spigot position S1+S2+S3+S5 = spigot diameter $\varnothing D + 137$ mm and with spigot position S0 = 235 mm)
- Spigot diameter:
 - Standard spigot diameter (-SDS).
 - Spigot diameter in mm, can be freely selected (-xxx, always with 3 digits).
- Spigot position:
 - 1 spigot from above (-S0).
 - 1 lateral spigot on the plenum box (-S1) (standard).
 - 2 lateral spigots, offset by 90° (-S2).
 - 2 lateral spigots, offset by 180° (-S3).
 - 2 lateral spigots arranged next to each other (-S5).

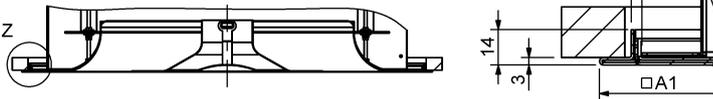
DIMENSIONS

square design (-Q/-S)

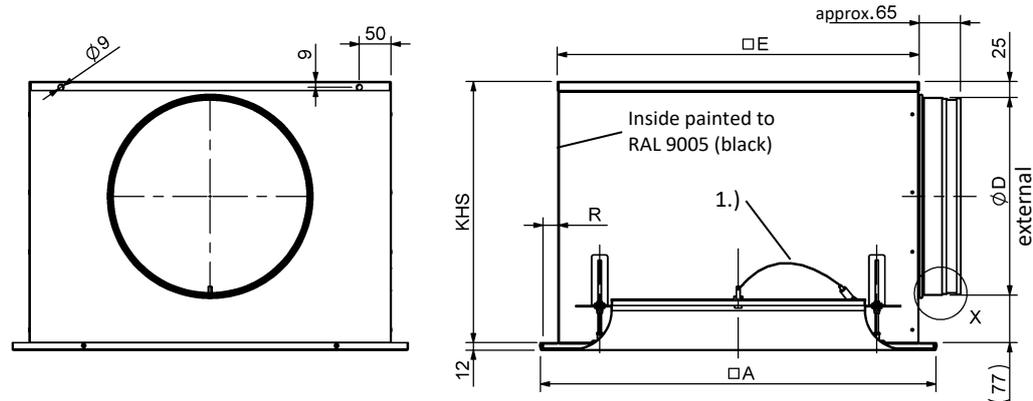
CDD-...-Q-...-Z with SK-Q-...-Z-... (for supply air)



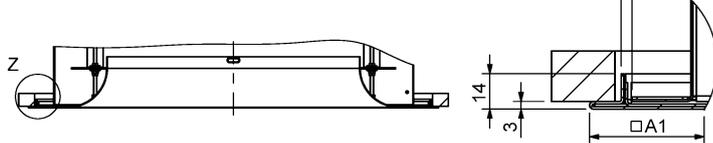
CDD-...-S-...-Z with SK-Q-...-Z-... (for supply air)



CDD-...-Q-...-A with SK-Q-...-A-... (for return air)



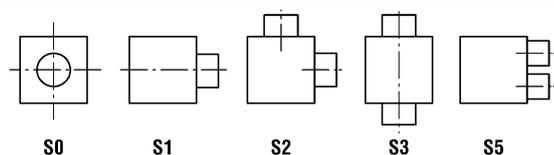
CDD-...-S-...-A with SK-Q-...-A-... (for return air)



Available sizes

NW	$\square A$	$\square A1$	$\square E$	R	CDD-N-...					CDD-M-...				
					SK-Q-56-Z-...		SK-Q-56-A-...		ϕD_{max} (SK-56) for ...-S5	SK-Q-75-Z-...		SK-Q-75-A-...		ϕD_{max} (SK-75) for ...-S5
					KHS	ϕD	KHS	ϕD		KHS	ϕD	KHS	ϕD	
600	598	623	570	12	350	248	415	313	248	300	198	350	248	198
625	623	648	570	24	350	248	415	313	248	300	198	350	248	198

Spigot position



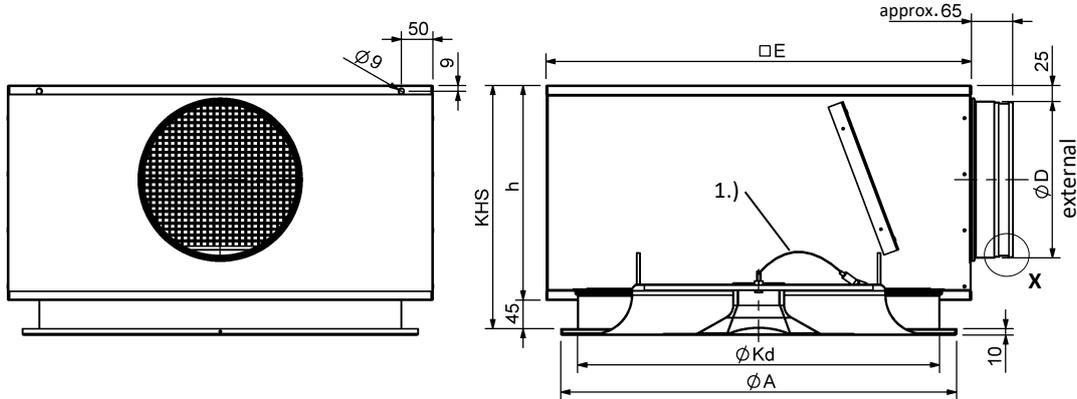
Minimum height [KHS] with spigot position S1+S2+S3+S5 = spigot diameter $\phi D + 102$ mm and with spigot position S0 = 200 mm.

Ceiling opening with CDD-...-S-... = $\square A + 5$ mm
 Ceiling opening with CDD-...-Q-... = $\square E + 5$ mm

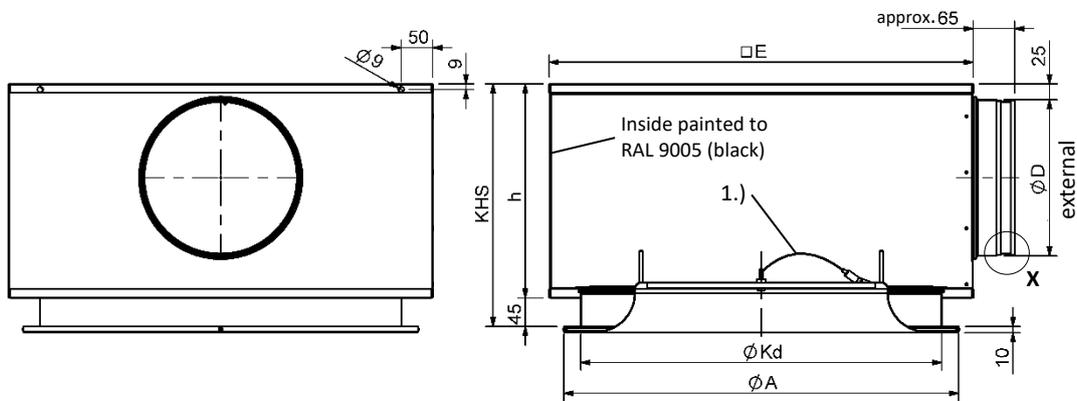
KHS= standard height of plenum box
 1.) Safety cable

round design (-R)

CDD-...-R-...-Z with SK-R-...-Z-... (for supply air)



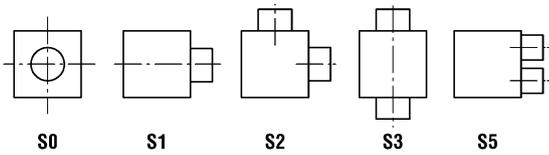
CDD-...-R-...-A with SK-R-...-A-... (for return air)



Available sizes

NW	$\square A$	$\square E$	$\varnothing Kd$	CDD-N-...					CDD-M-...								
				SK-R-56-Z-...			SK-R-56-A-...		$\varnothing D_{max}$ (SK-56) for ...-S5	SK-R-75-Z-...			SK-R-75-A-...		$\varnothing D_{max}$ (SK-75) for ...-S5		
				KHS	$\varnothing D$	h	KHS	$\varnothing D$		h	KHS	$\varnothing D$	h	KHS		$\varnothing D$	h
600	598	670	570	385	248	340	450	313	405	298	335	198	290	385	248	340	198
625	623	670	570	385	248	340	450	313	405	298	335	198	290	385	248	340	198

Spigot position



Minimum height [KHS] with spigot position S1+S2+S3+S5 = spigot diameter $\varnothing D$ +137 mm and with spigot position S0 = 235 mm.

KHS= standard height of plenum box

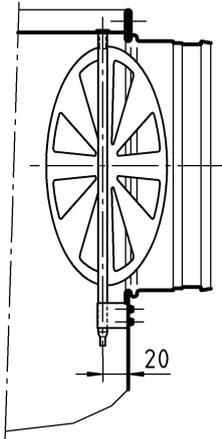
1.) Safety cable

DIMENSIONS OF ACCESSORIES

Damper (-DK0/ -DK1 / -DK2), for SK-...

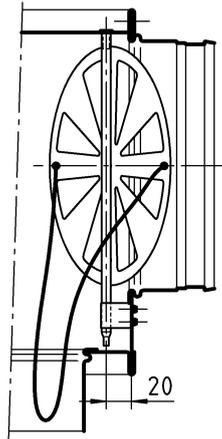
- without damper (-DK0) (standard).
- with damper (-DK1).
- with damper and cable-operated adjustment (-DK2).

DK1:



DK2:

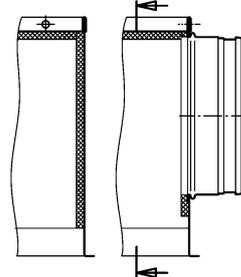
with cable-operated adjustment



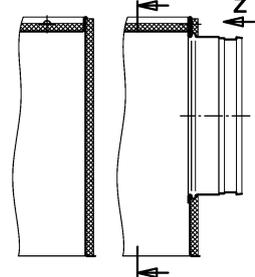
Insulation (-I0/ -Ii / -Ia), for SK-Q-...

- without insulation (-I0) (standard).
- with internal insulation (-Ii).
- with external insulation (-Ia).

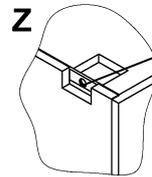
internal (-Ii)



external (-Ia)



View Z

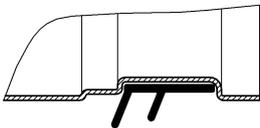


External insulation (-Ia) recessed in the area of the mounting brackets.

Rubber lip seal (-GD0/ -GD1), for SK-...

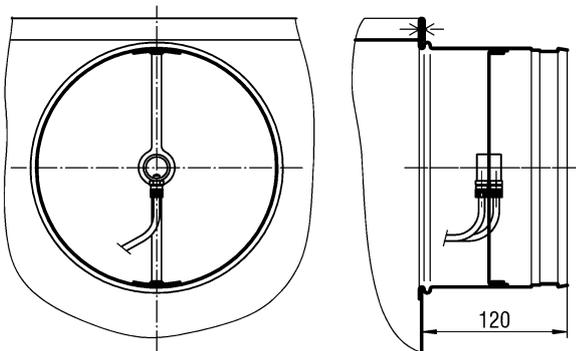
- without rubber lip seal (-GD0) (standard).
- with rubber lip seal (-GD1).

Detail X



Volumetric flow meter (-VME0/ -VME1)

- without volumetric flow meter (-VME0) (standard).
- with volumetric flow meter (-VME1).

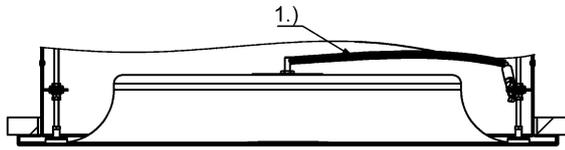


MOUNTING OPTIONS

Only possible for ceiling installation!

Magnetic fastening (-MB, standard)

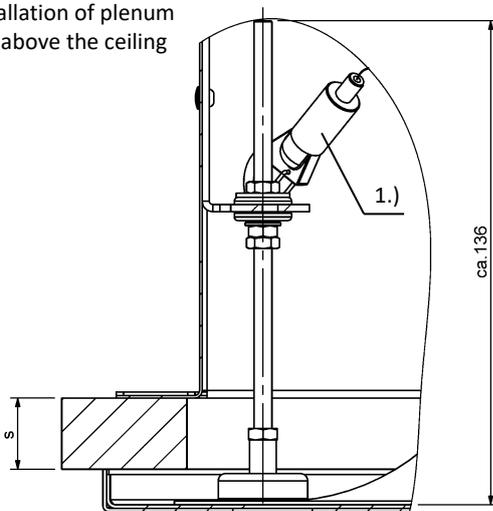
supply air



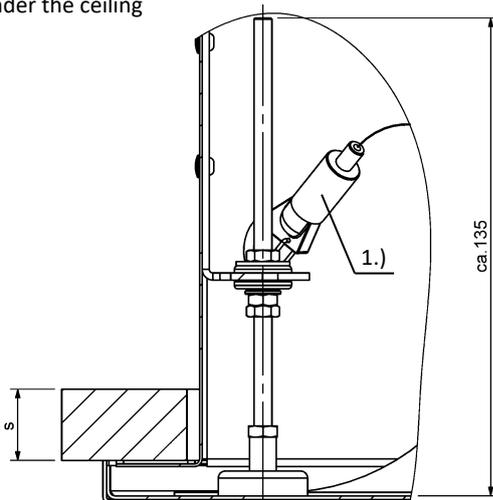
1.) Safety cable

Mounting note:

Installation of plenum box above the ceiling



Installation of plenum box under the ceiling



Note:

For the installation of the plenum box above the ceiling, the ceiling depth s may not exceed the following dimensions.

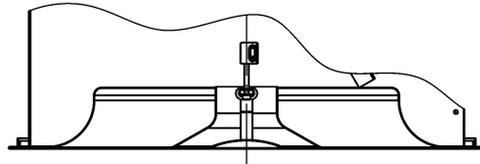
$$S_{\max} = 60 \text{ mm}$$

Concealed mounting (-VM)

(not possible for CDD-...-C/-E/-K-...)

In concealed mounting, the diffuser is fastened on the plenum box (-SK) by means of a pole brace and M6 cylinder head screw (according to DIN EN ISO 4762).

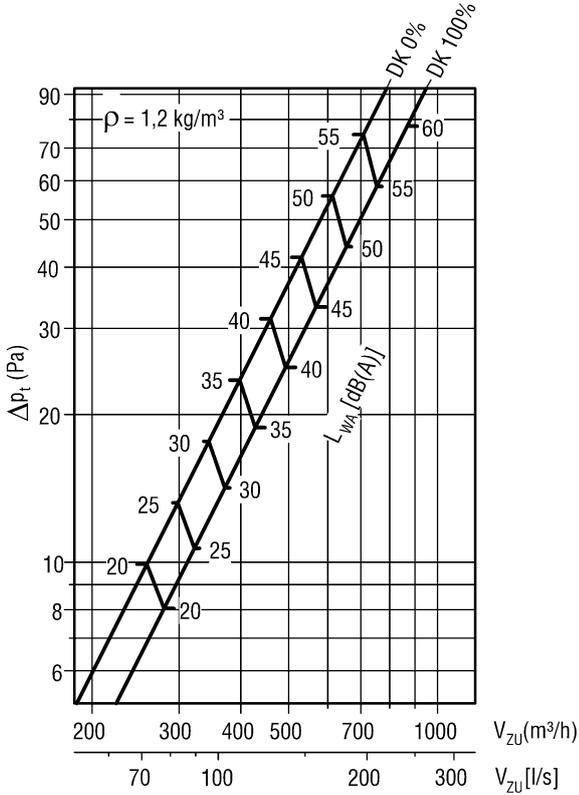
supply air



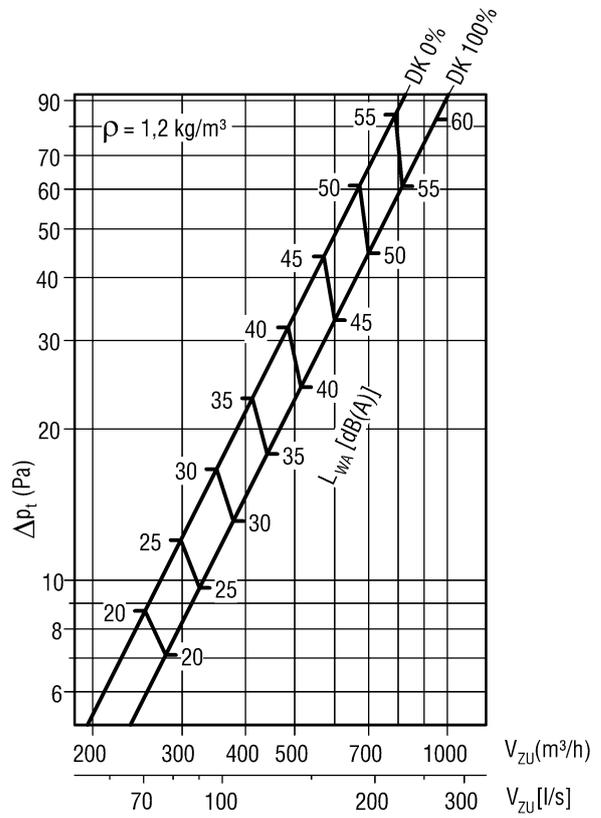
TECHNICAL DATA

Pressure loss and noise level

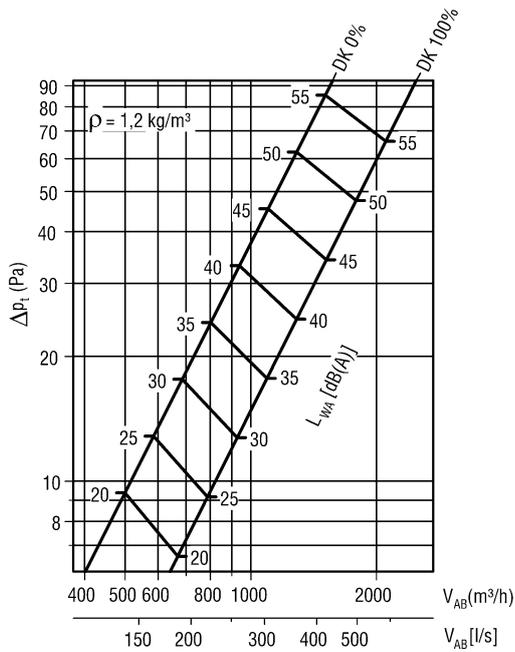
CDD-N-A-...-Z-...



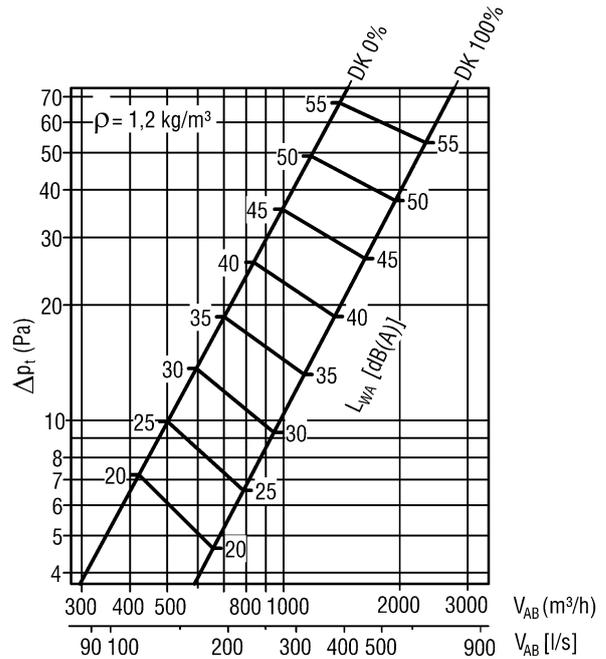
CDD-N-B-...-Z-...



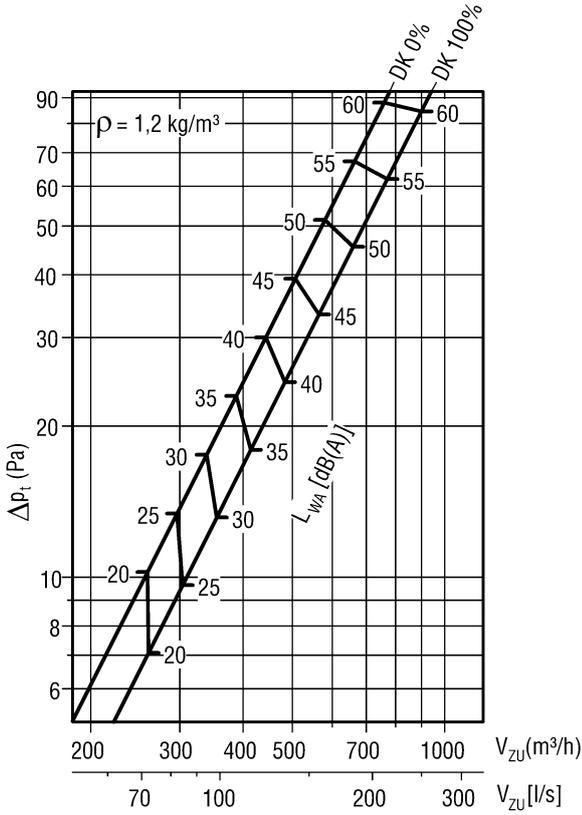
CDD-N-A-...-A-...



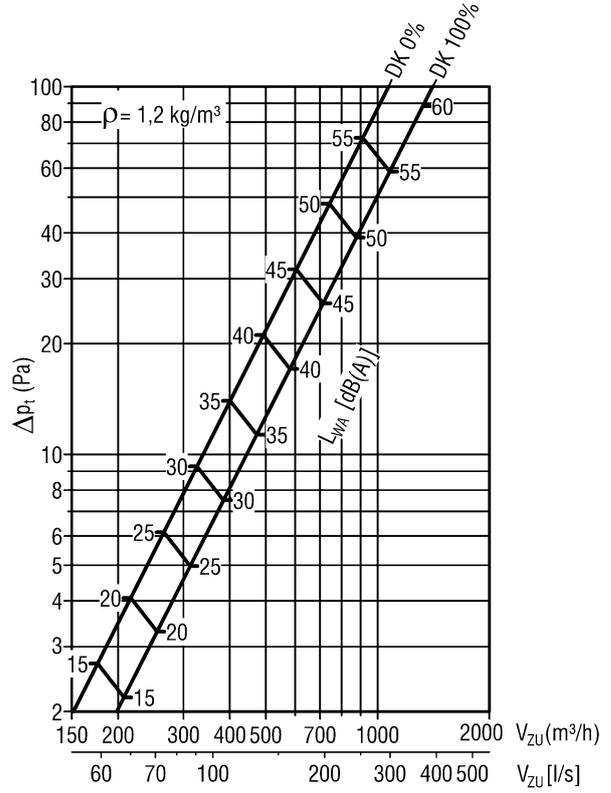
CDD-N-B-...-A-...



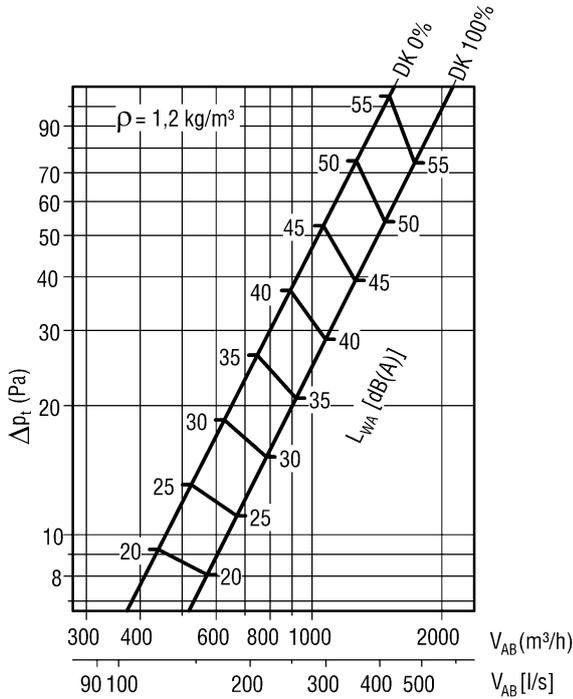
CDD-N-K/E-...-Z-...



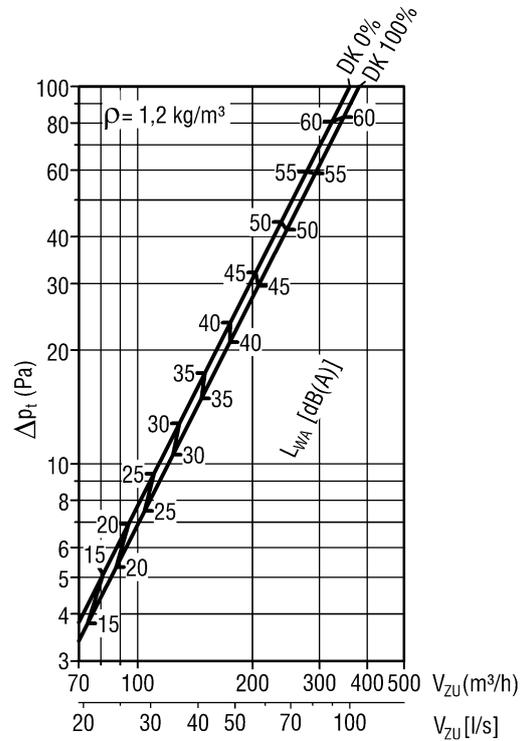
CDD-N-C-...-A-...



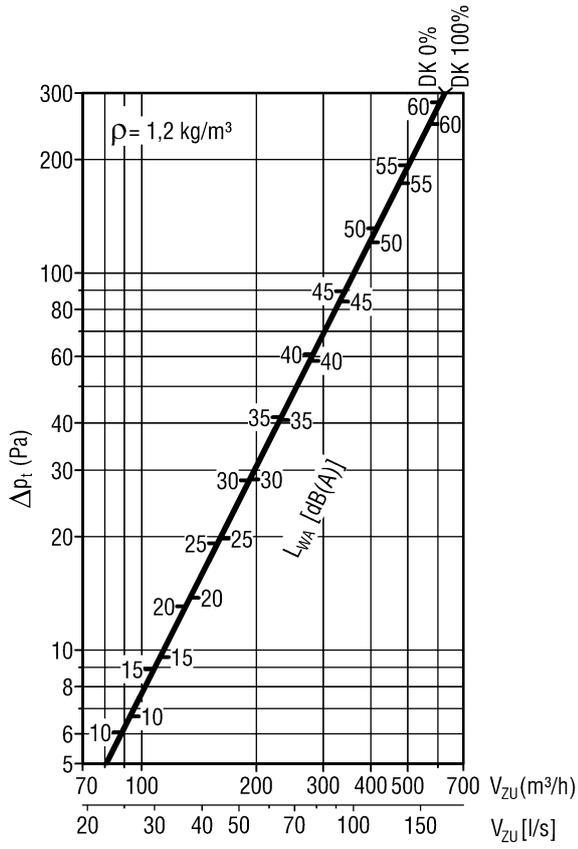
CDD-N-K/E-...-A-...



CDD-M-K/-E-...-Z-...

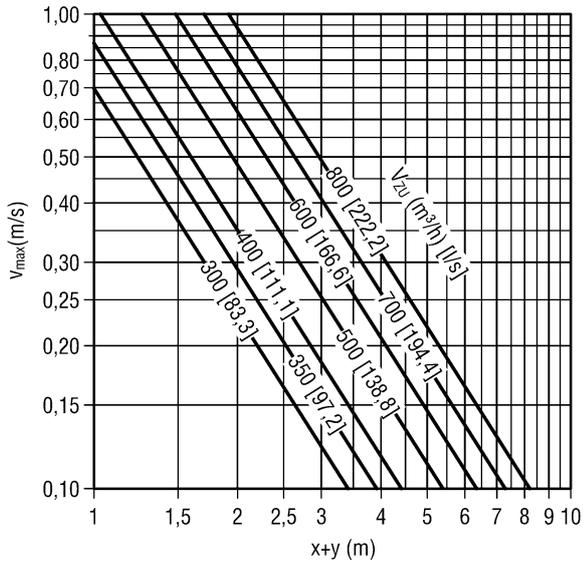


CDD-M-K/-E-...-A-...

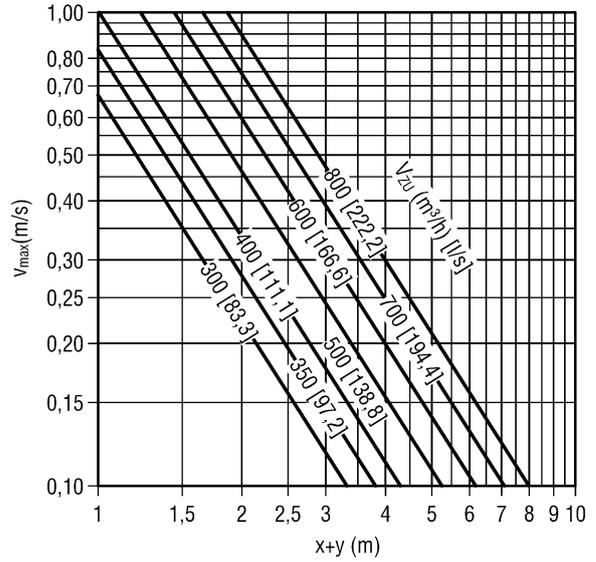


Maximum end velocity of jet

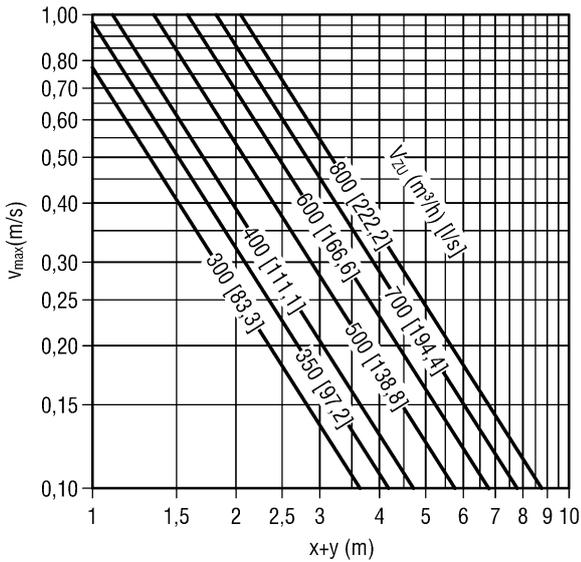
CDD-N-A-...



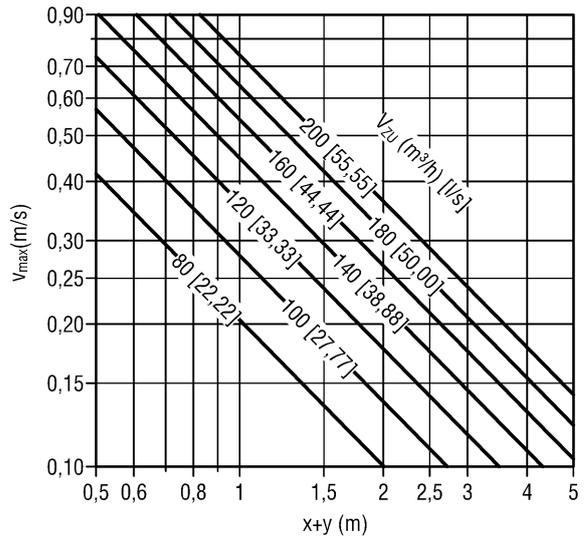
CDD-N-K/E-...



CDD-N-B-...

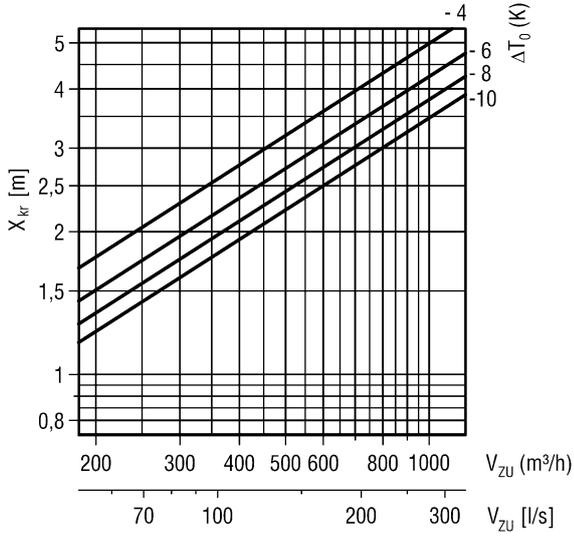


CDD-M-K/E-...

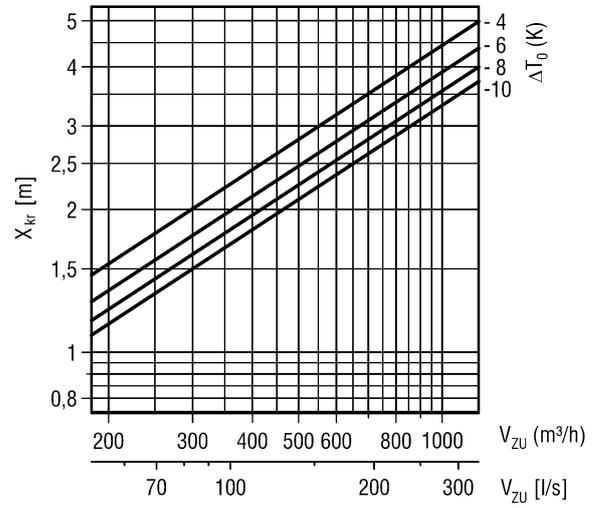


Critical throw

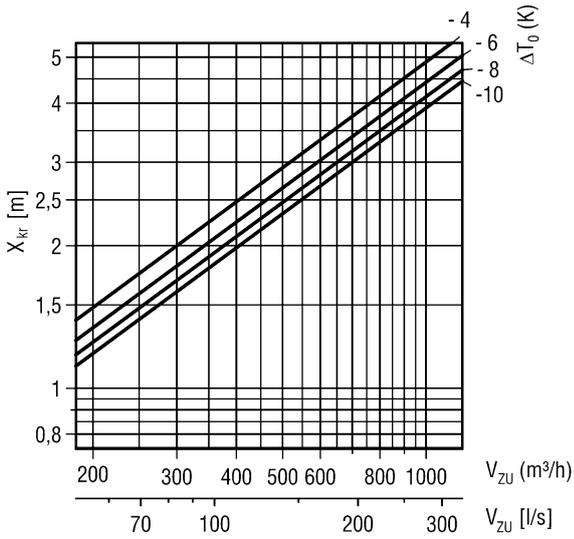
CDD-N-A-...



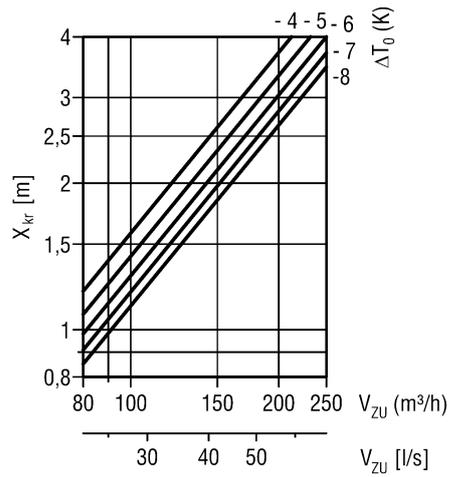
CDD-N-K/E-...



CDD-N-B-...

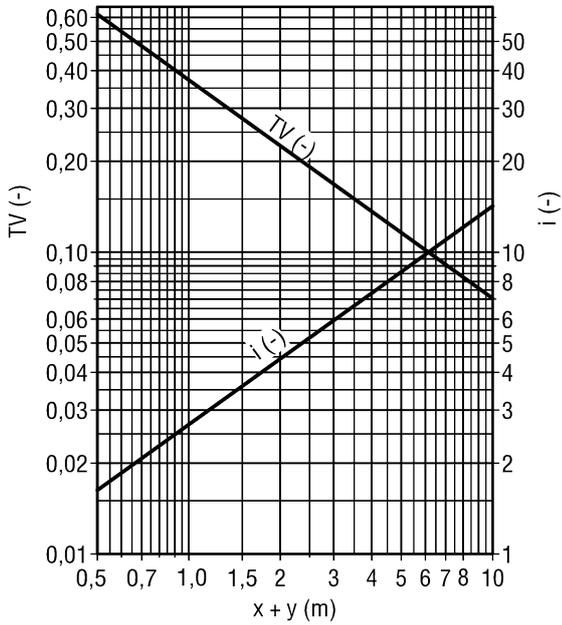


CDD-M-K/E-...

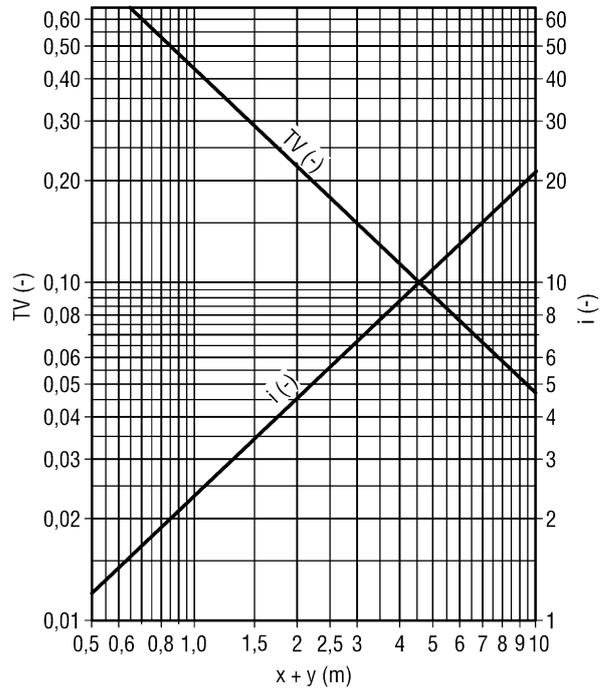


Temperature and induction ratios

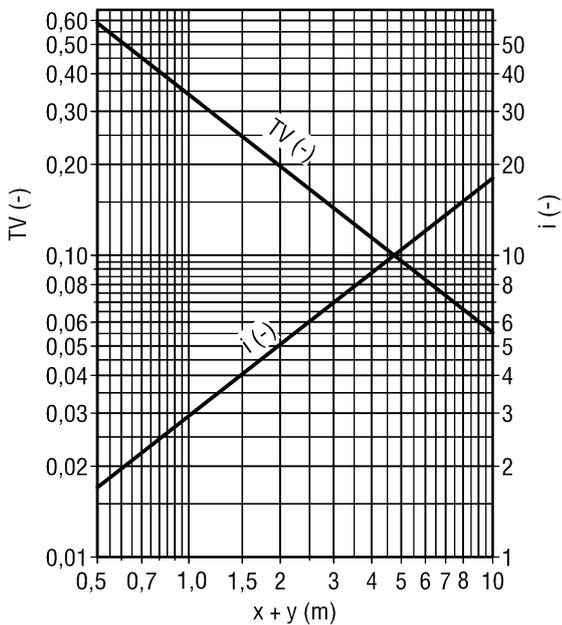
CDD-N-A-...



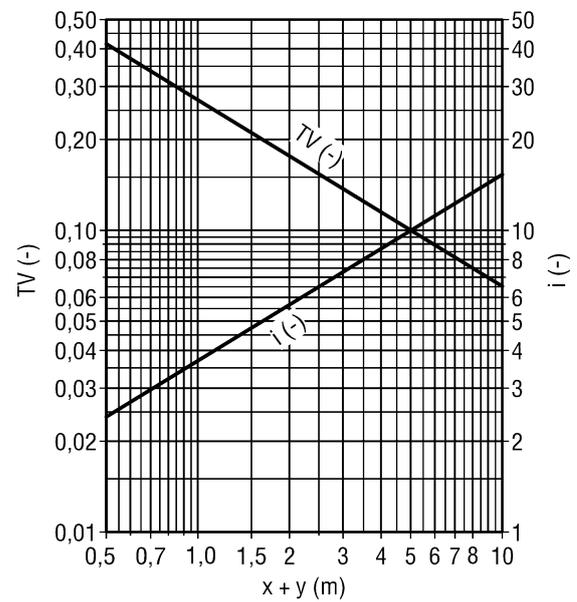
CDD-N-K/E-...



CDD-N-B-...



CDD-M-K/E-...



LEGEND

V_{ZU}	(m ³ /h) [l/s]	= Supply air volume
V_{AB}	(m ³ /h) [l/s]	= Return air volume
V_x	(m ³ /h) [l/s]	= total air jet volume at point x
ρ	(kg/m ³)	= Density
Δp_t	(Pa)	= pressure loss
L_{WA}	[dB(A)]	= A-weighted sound power level ($L_{WA} = L_{WA1} + KF$)
Z		= supply air
A		= Return air
x	(m)	= horizontal throw
y	(m)	= vertical throw
x+y	(m)	= horizontal + vertical throw
V_{max}	(m/s)	= max. End velocity of jet
V_{mittel}	(m)	= average end velocity of jet ($V_{mittel} = V_{max} \times 0.43$)
x_{kr}	(m)	= critical throw
ΔT_O	(K)	= Temperature difference between supply air and room temperature ($\Delta T_O = t_{ZU} - t_R$)
ΔT_x	(K)	= Temperature difference at point x
t_{ZU}	(°C)	= supply air temperature
t_R	(°C)	= room temperature
TV	(-)	= Temperature ratio ($TV = \Delta T_x / \Delta T_O$)
i	(-)	= induction ratio ($i = V_x / V_{ZU}$)
NW		= Nominal width

ORDER CODE CDD

01	02	03	04	05	06
Type	Air volume	Drill pattern	Model	Air throw	Nominal size
Example					
CDD	-N	-A	-Q	-Z	-600

07	08	09
Material	Paint	Mounting
-SB	-9010	-MB

All fields must be filled when ordering.

Sample

CDD-N-A-Q-Z-600-SB-9010-MB

Design ceiling air diffuser type CDD | For standard air volumes | Design image A | Square faceplate with surrounding edge | Supply air | Nominal size 600 mm | Painted sheet steel | Painted to RAL colour 9010 | With magnetic fastening

ORDER DETAILS

01 - Type

CDD = Design ceiling air diffuser, CDD type

02 - Air volume

N = for standard air volumes

M = for small air volumes (only possible with drill pattern -E and -K)

03 - Drill pattern

A = Design image A, with round hole design, with different hole diameters

B = Design image B, with rectangular hole design, with different sizes of rectangles

C = Design image C, with slot design, with slots of different lengths (only possible for return air)

E = Design image E, with round hole design, the holes arranged in a helical manner including the corner areas

K = Design image K, with round hole design, the holes are arranged in a helical manner in a circle

04 - Model

Q = square faceplate with surrounding edge

S = square faceplate, double-folded edge

R = round faceplate with surrounding edge (not possible for model CDD-...-B-... and CDD-...-E-...).

05 - Air throw

Z = supply air

A = Return air

06 - Nominal size

600 = Nominal size 600

625 = Nominal size 625

07 - Material

SB = Painted sheet steel

08 - Paint

9010 = Painted to RAL colour 9010 (standard)

xxxx = painted to RAL of your choice (always with 4 digits)

09 - Mounting

MB = magnetic fastening (standard)

VM = concealed mounting, only in connection with plenum box (on-site plenum box or counter pole brace are also possible) (not possible for CDD-...-C/-E/-K-...)

Only possible for ceiling installation!

ORDER CODE SK

01	02	03	04	05	06	07	08
Type	Model	Air diffuser	Type of air	Nominal size	Mounting	Material	Damper
Example							
SK	-Q	-56	-Z	-600	-MB	-SV	-DK2

09	10	11	12	13	14	15
Rubber lip seal	Volumetric flow meter	ROB version	Insulation	Height of plenum box	Connecting piece diameter	Spigot position
-GD1	-VME0	-ROB0	-I0	-KHS	-SDS	-S1

All fields must be filled when ordering.

Sample

SK-Q-56-Z-600-MB-SV-DK2-GD1-VME0-ROB0-I0-KHS-SDS-S1

Plenum box, square design | for square air diffusers | suitable for CDD air diffuser | supply air | NW600 | with magnetic fastening | galvanised sheet steel | with damper and cable | with rubber lip seal | without volumetric flow meter | without ROB version | without box insulation | standard height of plenum box | standard spigot diameter | 1 lateral spigot

ORDER DETAILS

01 - Type

SK = plenum box, square design

02 - Model

Q = for square air diffusers (CDD-...-Q/-S-...)

R = with round diffuser mounting support for round air diffusers

03 - Air diffuser (must be ordered separately)

56 = suitable for CDD-N

75 = suitable for CDD-M

04 - Type of air

Z = supply air

A = Return air

05 - Nominal size

600 = Nominal size 600

625 = Nominal size 625

06 - Mounting

MB = magnetic fastening (standard)

VM = concealed mounting (not possible for CDD-C/-E/-K-...)

Only possible for ceiling installation!

07 - Material

SV = galvanised sheet steel (standard)

08 - Damper

DK0 = without damper (standard)

DK1 = with damper

DK2 = with damper and cable-operated adjustment

09 - Rubber lip seal

GD0 = without rubber lip seal (standard)

GD1 = with rubber lip seal

10 - Volumetric flow meter

VME0 = without volumetric flow meter (standard)

VME1 = with volumetric flow meter in the connection spigot

11 - ROB version

ROB0 = without ROB version (standard)

12 - Insulation

I0 = without insulation (standard)

Ii = with box insulation inside

Ia = with box insulation outside

13 - Height of plenum box

KHS = standard height of plenum box

xxx = height of plenum box in mm, freely selectable (always with 3 digits).

(SK-Q-... model: minimum height [KHS] with spigot position S1+S2+S3+S5 = spigot diameter $\varnothing D + 102$ mm and with spigot position S0 = 200 mm. SK-R-... model: minimum height [KHS] with spigot position S1+S2+S3+S5 = spigot diameter $\varnothing D + 137$ mm and with spigot position S0 = 235 mm)

14 - Spigot diameter

SDS = standard spigot diameter

xxx = spigot diameter in mm, freely selectable (always with 3 digits)

15 - Spigot position

S0 = spigot from above

S1 = 1 lateral spigot at the box (standard)

S2 = 2 lateral spigots, offset by 90°

S3 = 2 lateral spigots, offset by 180°

S5 = 2 lateral spigots arranged next to each other

SPECIFICATION TEXT

SCHAKO design ceiling air diffuser for use in supply air and return air installations.

The design ceiling air diffuser consists of various perforated faceplates with plenum box for introducing supply air into the room or extracting return air from the room. The design ceiling air diffuser is suitable for VAV systems with variable volumetric flows of 40-100%.

Air volume:

- for standard air volumes (-**CDD-N**).
- for small air volumes (only possible with drill pattern -E and -K) (-**CDD-M**).

Model:

- Design ceiling diffuser, with round hole design, with different hole diameters (-**CDD-N-A**).
- Design ceiling diffuser, with rectangular hole design, with different sizes of rectangles (-**CDD-N-B**).
- Design ceiling diffuser, with slot design, with slots of different lengths (only possible for return air) (-**CDD-N-C**).
- Design ceiling diffuser, with round hole design, the holes arranged in a helical manner including the corner areas (-**CDD-...-E**).
- Design ceiling diffuser, with round hole design, the holes arranged in a helical manner in a circle (-**CDD-...-K**).
- Design ceiling diffuser, square design with surrounding edge (-**CDD-...-Q**).
- Design ceiling diffuser, square design with double folded edge (-**CDD-...-S**).
- Design ceiling diffuser, round design with surrounding edge (not possible for CDD-B/-E) (-**CDD-...-R**).
- Supply air (with intake funnel) (-**CDD-...-Z**).
- Return air (with intake funnel) (-**CDD-...-A**).

Nominal size:

- NW 600 (-**600**)
- NW 625 (-**625**)

Material / paint (faceplate):

- Painted sheet steel (-**SB**).
- Painted to RAL colour 9010 (white) (-**SB-9010**).
- Painted to a RAL colour of your choice (**SB-xxxx**, at an extra charge).

Mounting:

- Magnetic fastening (-**MB**, standard).
- Concealed mounting (-**VM**, only possible with SK or on-site plenum box or on-site counter pole brace) (not possible for CDD-...-C/-E/-K-...).

Only possible for ceiling installation!

Accessories:

- Plenum box (-SK-...-56/-75), in square design, made of galvanised sheet steel (-SV, standard), housing with round connection spigot and mounting brackets.
 - Air volume
 - standard air volumes (-56)
 - small air volumes (-75)
 - Air diffuser:
 - suitable for CDD-...-Q/-S-... (-Q).
 - suitable for CDD-...-R-... (-R).
 - Nominal width:
 - suitable for NW 600 (-600).
 - suitable for NW 625 (-625).
 - Mounting:
 - Magnetic fastening (standard) (-MB).
 - concealed mounting (-VM, not possible for CDD-...-C/-E/-K-...).
- Only possible for ceiling installation!
- Damper:
 - without damper (-DK0) (standard).
 - with damper (-DK1), made of galvanised sheet steel, in the plenum box housing, for simple air volume regulation.
 - with damper (-DK2), made of galvanised sheet steel, in the plenum box housing, adjustable with cable-operated adjustment, for simple air volume regulation.
- Rubber lip seal:
 - without rubber lip seal (-GD0) (standard).
 - with rubber lip seal (-GD1) made of special rubber, at the connection spigot.
- Volumetric flow meter
 - without volumetric flow meter (-VME0) (standard).
 - with volumetric flow meter, holder made of galvanised sheet steel, measuring sensor made of plastic material, connections made of aluminium (-VME1).

- ROB version
 - without ROB version (-ROB0) (standard).
- Insulation:
 - without insulation (-I0) (standard).
 - with internal insulation (-Ii), thermal insulation inside the plenum box.
 - with external insulation (-Ia), thermal insulation at the outside of the plenum box.
- Height of plenum box:
 - Standard height of plenum box (-KHS).
 - Height of plenum box in mm, freely selectable (always with 3 digits).
(SK-Q-... model: minimum height [KHS] with spigot position S1+S2+S3+S5 = spigot diameter $\varnothing D + 102$ mm and with spigot position S0 = 200 mm. SK-R-... model: minimum height [KHS] with spigot position S1+S2+S3+S5 = spigot diameter $\varnothing D + 137$ mm and with spigot position S0 = 235 mm)
- Spigot diameter:
 - Standard spigot diameter (-SDS).
 - Spigot diameter in mm, can be freely selected (-xxx, always with 3 digits).
- Spigot position:
 - Spigot from above (-S0).
 - 1 lateral spigot on the plenum box (-S1) (standard).
 - 2 lateral spigots, offset by 90° (-S2).
 - 2 lateral spigots, offset by 180° (-S3).
 - 2 lateral spigots arranged next to each other (-S5).