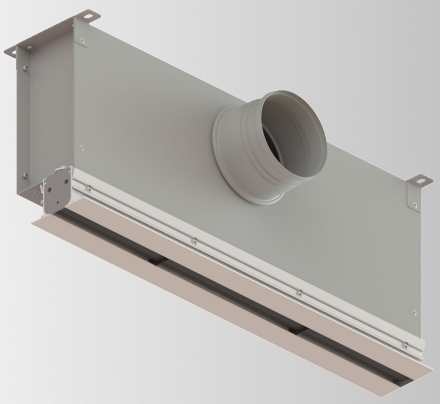


DSC

Slot diffuser

SCHAKO KG
Steigstraße 25-27
D-78600 Kolbingen

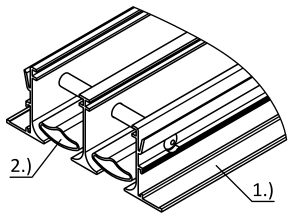
+49 (0) 7463-980-0
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Table of Contents

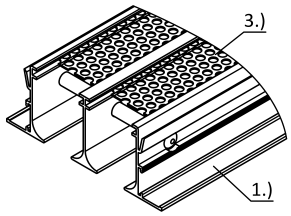
Overview of product versions 3
Function and use 3
Models 4
Mounting 4
Blade position for air jet 5
Quick selection 5
Processing 6
Accessories 6
Dimensions 9
Dimensions of frame profile 9
Available lengths for the slot diffuser 10
Slot diffuser connection in band design 11
Dimensions of accessories 12
End pieces (-E0 / -ES / -EB / -EL / -ER) 12
Additional profiles (-Z0 / -Z1 / -Z2 / -Z3) 14
Dummy piece (-BS0 / -BS1) 15
Hit-and-miss damper (-SN / -SS) 16
Suspension lugs (-AL) 16
Plenum box (-ASK-24) 17
Rubber lip seal (-GD0/-GD1), for ASK-24 30
Damper (-DK0/-DK1/-DK2), for ASK-24 30
Insulation (-I0 / -Ii / -Ia), for ASK-24 30
Corner angle 90° (-EW-24-...-090-...) 31
Fastening methods 32
With plenum box 32
Without plenum box 32
Assembly overview 34
Mounting with counter pole brace (-GT) 34
Mounting with clamp strap (-KB) 35
Screw mounting (-SM) 36
Installation 36
Technical data 37
Pressure loss and sound power level 37
Maximum end velocity of jet 37
Critical throw 41
Maximum penetration 41
Temperature ratios 42
Legend 43
Slot diffuser order code 44
Plenum box order code 46
Order code corner angle 48
Specification text 49

OVERVIEW OF PRODUCT VERSIONS

DSC-...-Z-... (supply air)



DSC-...-A-... (return air)



1.) Frame profile
2.) Blade
3.) Perforated plate

Function and use

The slot diffuser type DSC is suitable for use in rooms with a height between 2.6 and 4 m. The air deflection blades adjustable from below allow a versatile application. The outflow direction can be adjusted from a vertical throw in heating mode to a horizontal throw in cooling mode. In cooling mode, a one- or two-way air throw pattern or a multi-direction throw pattern can be set. The support profile section blades create such a stable jet that, for the two-way air throw or multi-direction air throw, just one blade has to be set alternately in one throw direction. This achieves high induction while the velocity and temperature difference of the supply air jet are effectively reduced. Due to the central housing of the support profile blades, the free cross-section is always the same size. Pressure loss and sound power level remain therefore constant even when the blades are adjusted. A subsequent change of the air throw direction on site is possible at any time, even when the diffuser has already been fitted. If the desired air throw is specified in the order, it will be set at the factory. Unless stated otherwise, the blade position -D (multi-direction throw) will be set. The large free cross-section allows a high volumetric flow compared with other slot diffusers. The stable air jet and high induction mean that the DSC slot diffuser can be used in cooling mode up to $\Delta T_O \leq -12$ K.

The resistance created by the blades ensures that the supply air is distributed equally across the whole length of the slot diffuser.

The slot diffuser can be manufactured as 1-, 2-, 3- or 4-slot model and is available either as single piece or in band design. Accessories such as end pieces and corner angles enable a versatile use of the slot diffuser. The slot diffuser can be integrated into different ceiling types and also into air-handling lights by using various additional profiles.

The return air model is fitted with a black perforated plate for easy cleaning from below through the slots instead of air deflection blades.

The connection to the ductwork is done via the plenum box. At an extra charge, a damper adjustable from below can be installed in the connection spigot for air volume regulation. The plenum box can also be insulated either internally or externally. If there is not enough space in the intermediate ceiling area, the slot diffuser, fitted with a hit-and-miss damper for volume regulation, can be installed directly in the ductwork.

Due to the stable air throw pattern, it can also be used in VAV systems from 100 to 40%.

Models

DSC-1-...	1-slot
DSC-2-...	2-slots
DSC-3-...	3-slots
DSC-4-...	4-slots
DSC-...-Z	supply air (with blades)
DSC-...-A	return air (without blades, with perforated plate)
DSC-...-R0	with frame profile STANDARD (frame with R0 standard profile)
DSC-...-S0	with narrow frame profile (frame with S0 profile)
DSC-...-P0	with special frame profile (frame with P0 profile)
DSC-...-V	blades vertical throw
DSC-...-L	blades with horizontal one-way throw to the left
DSC-...-R	Blades with one-way horizontal throw to the right
DSC-...-B	Blades with horizontal two-way throw
DSC-...-D	Blades with horizontal diverging throw (multi-direction throw) (standard)
DSC-...-0	without blades, with perforated plate (for return air)
DSC-...-N	single design (length max. 1500 mm)
DSC-...-B	Band design (available lengths according to SCHAKO standard for band design)

Mounting

Without connection (-00)

- Only possible without plenum box and without hit-and-miss damper

Permanent connection with plenum box (-FV, standard)

- Only possible with plenum box
- As standard for the models DSC-...-R0 / DSC-...-S0 and DSC-...-P0
- The slot diffuser is permanently connected to the plenum box.

Concealed mounting with plenum box (-VM)

- Only possible with plenum box
- Possible for the models DSC-...-R0 / DSC-...-P0 and DSC-...-S0-...-Z2 (with additional profile)
- Not possible for the models DSC-...-S0-...-Z0 / DSC-...-S0-...-Z1 / DSC-...-S0-...-Z3
- The slot diffuser is screwed to the pole brace in the plenum box housing with concealed screws.
- Frame with foam gasket
- Plenum box supplied loose from the factory

Mounting with counter pole brace (-GT)

- Only possible without plenum box
- Screws and counter pole brace are supplied loose (2 pieces)
- Pole brace traps consisting of folded galvanised sheet steel and pole brace made of extruded aluminium profile with DIN thread
- Possible for the models DSC-...-R0 / DSC-...-P0 and DSC-...-S0-...-Z2 (with additional profile)
- Not possible for the models DSC-...-S0-...-Z0 / DSC-...-S0-...-Z1 / DSC-...-S0-...-Z3
- The slot diffuser is screwed to the counter pole brace (pole brace strap) with concealed screws (included in delivery).
- **For mounting, access on the rear is required!**

Mounting with clamp strap (-KB)

- Only possible without plenum box
- Screws and clamp straps are supplied loose (2 pieces)
- Clamp strap made of galvanised sheet steel
- Possible for the models DSC-...-R0 / DSC-...-P0 and DSC-...-S0-...-Z2 (with additional profile)
- Not possible for the models DSC-...-S0-...-Z0 / DSC-...-S0-...-Z1 / DSC-...-S0-...-Z3
- The slot diffuser is screwed to the clamp strap with concealed screws (included in delivery).
- **For mounting, access on the rear is not required!**

Screw mounting (-SM)

- Only possible without plenum box
- Screws must be provided on site
- Possible for the models DSC-...-R0 and DSC-----P0
- Not possible for the model DSC-...-S0
- The slot diffuser is fixed with visible screws.

Mounting with suspension lugs (-AL)

- Only possible without plenum box
- 4 pieces, supplied loose
- Possible for the models DSC-...-R0 and DSC-----P0
- Not possible for the model DSC-...-S0
- The slot diffuser is fastened to 4 suspension brackets.
- Suspension lug made of galvanised sheet steel, with holes for hook mounting

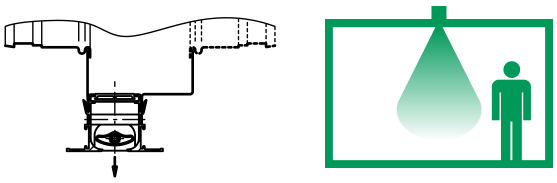
Fishplate (-VL)

- 4 pieces supplied loose
- made of aluminium sheet
- Only for connection of the corner angle to the slot diffuser in band design
- The corner angle is fixed with the help of the fishplates (2 on each side).

Blade position for air jet

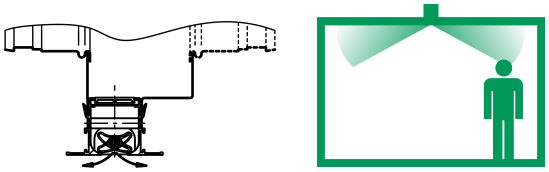
Blade position (-V) vertical throw

max. volumetric flow 1-slot: **30 m³/h m [8.3 l/s m]**
Minimum distance between two diffuser rows: **1.0 m**



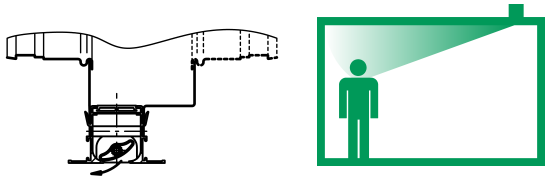
Blade position (-B) both-sided horizontal throw

max. volumetric flow 1-slot: **80 m³/h m [22.2 l/s m]**
Minimum distance between two diffuser rows: **2.5 m**



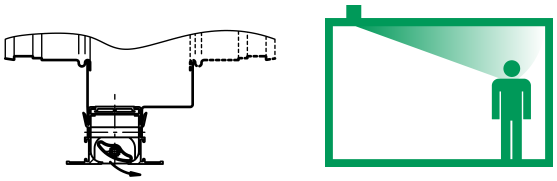
Blade position (-L) one-way horizontal left throw

max. volumetric flow 1-slot: **60 m³/h m [16.7 l/s m]**
Minimum distance between two diffuser rows: **3.5 m**



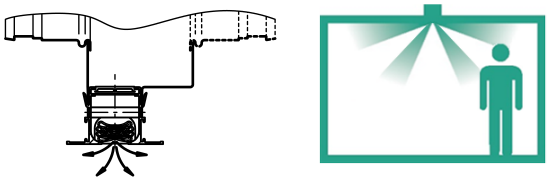
Blade position (-R) horizontal one-way throw to the right

max. volumetric flow 1-slot: **60 m³/h m [16.7 l/s m]**
Minimum distance between two diffuser rows: **3.5 m**



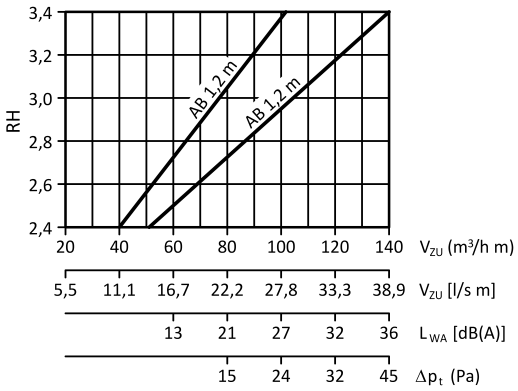
Blade position (-D) (standard) with horizontal diverging throw (multi-direction throw)

max. volumetric flow 1-slot: **100 m³/h m [27.8 l/s m]**
Minimum distance between two diffuser rows: **2.5 m**



Quick selection

blade position D



RH = room height

AB = distance between diffusers

Processing

Frame surface

- Natural colour anodised aluminium (-ELOX, standard)
- aluminium painted to:
  - RAL colour 9005 (black) (-9005)
  - RAL colour 9010 (white) (-9010)
  - painted to a different RAL colour (freely selectable, at an extra charge) (-xxxx) (always with 4 digits)

Blade colour

- Plastic (hard PVC):
  - colour similar to RAL 9005 (black, standard) (-L9005)
  - colour similar to RAL 9006 (white aluminium) (-L9006)
  - colour similar to RAL 9010 (white) (-L9010)
  - painted to a freely selectable RAL colour (-Lxxxx, always with five digits)
- for return air without blade (-00000), with perforated plate made of sheet steel painted to RAL 9005 (black), as cover screen

Blade holding device

- Aluminium ducts

Internal blade divider (standard)

- Plastic (PA type 6):
  - for supply air painted to blade colour

Internal blade divider (support for concealed mounting)

- Plastic (PA type 6):
  - for supply air painted to blade colour

External blade plates (end plates)

- Plastic (ABS):
  - for supply air painted to blade colour
  - for return air painted to RAL 9005 (black)

Connecting pin

Connection diffuser - diffuser

- made of plastic
- for band design only
- Supplied loose (2x for each connection)

Accessories

End pieces (-E0 / -ES / -EB / -EL / -ER)

- without end pieces (-E0) (standard)
- with end pieces, made of aluminium (same colour as frame):
  - supplied loose (-ES, pair) (standard)
  - mounted ex works on both sides (-EB)
  - mounted ex works on the left side (-EL)
  - mounted ex works on the right side (-ER)

Additional profile (-Z0 / -Z1 / -Z2 / -Z3)

- without additional profile (-Z0) (standard)
- with additional profile made of aluminium (same colour as frame, only possible for DSC-…-S0):
  - Z I (-Z1), connection of ceiling panels
  - Z II (-Z2), connection of panelled ceilings
  - Z III (-Z3), connection of ceiling panels

Dummy piece (-BS0 / -BS1)

- without dummy piece (-BS0) (standard)
- with dummy piece (-BS1):
  - made of sheet steel painted to RAL 9005 (black)
  - only possible without plenum box and hit-and-miss damper
  - with fastening clip for mounting on the slot diffuser
  - possible from length L ≥ 200 mm
  - Mounting only possible with suspension lugs (-AL, standard in connection with active diffuser DSC-…-FV-…), counter pole brace (-GT) or clamp strap (-KB)

Hit-and-miss damper (-SN / -SS)

- without hit-and-miss damper (-SN) (standard)
- with hit-and-miss damper (-SS)
  - made of electrolytically galvanised sheet steel
  - only possible without plenum box
  - Mounting:
    - DSC-…-R0 / DSC-…-P0:
      - With screw mounting (-SM, standard)
      - Mounting with counter pole brace (-GT)
    - DSC-…-S0:
      - Screw mounting not possible.
      - Mounting with counter pole brace (-GT)
      - Only possible for models with additional profile -Z2. Not possible for models without additional profile and models with additional profiles -Z1 and -Z3.

Plenum box (-ASK-24)

- Model (number of slots):
  - 1-slot (-1)
  - 2-slots (-2)
  - 3-slots (-3)
  - 4-slots (-4)
- Single / band design:
  - single design (-N, length of box KL max. 1500 mm)
  - Band design (-B, available lengths according to SCHAKO standard for band design)
- Length:
  - length L = 1000 mm (-01000) (KL = 997 mm)
  - length L = 1500 mm (-01500) (KL = 1497 mm)
  - length (L/BL) in mm, freely selectable (-xxxxx, always with 5 digits) (length of box KL = L-3/total length of box GKL = BL-3, can be fitted with a plenum box in case of single design lengths L = ≥ 400 mm to ≤ 1500 mm.)
- Mounting of box:
  - permanent connection (-FV) (standard)
  - Concealed mounting (-VM) (only possible for the models DSC-...-R0 / DSC-...-P0 and DSC-...-S0-...-Z2)
  - without fastening (only possible without diffuser) (-00)
- Material:
  - Galvanised sheet steel (-SV) (standard)
- Damper:
  - Without damper (-DK0) (standard)
  - With damper made of galvanised sheet steel, in the connection spigot (-DK1) for simple air volume regulation (only for spigot position [-S1/-S2]).
  - With damper made of galvanised sheet steel, in the connection spigot and with cable-operated adjustment (-DK2), for simple air volume regulation (only for spigot position from above [-S0]).
- Rubber lip seal:
  - without rubber lip seal (-GD0) (standard)
  - With rubber lip seal (-GD1) at the connection spigot
- 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 box:
  - Standard height of box (-KHS)
  - Height of box in mm, freely selectable (-xxx, always with 3 digits) (minimum height [GH] with spigot position S1+S2 and standard box neck = spigot diameter øD + 82 mm / with spigot position S0 = 180 mm)
- Box neck:
  - standard box neck (-KVS) (KVS = 45 mm)
  - Box neck extension in mm, freely selectable (-xxx, always with 3 digits), Box neck (not adjustable) from ≥45 mm to 200 mm possible.
    Can only be used with 1-slot models, 2-, 3- and 4-slot models don't have a box neck
- Spigot position:
  - Spigot from above (-S0)
  - Lateral spigot (-S1) (standard)
  - Lateral spigot located on the opposite side (-S2) (only possible for 1-slot models)
- Spigot diameter:
  - Standard spigot diameter (-SDS)
  - spigot diameter (øD) in mm, freely selectable (-xxx, always with 3 digits)
- Suspension:
  - without riveting nut (-E0) (standard)
  - with riveting nut (-EM), made of brass
- with air diffuser plate (FQ = 46 %), made of galvanised sheet steel, only for models with spigot from above

Corner angle (-EW-24)

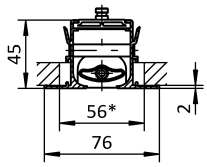
- Model (number of slots):
  - 1-slot (-1)
  - 2-slots (-2)
  - 3-slots (-3)
  - 4-slots (-4)
- Frame profile:
  - Standard frame profile (-R0)
  - Narrow frame profile (-S0)
  - Special frame profile (-P0)
- Frame surface:
  - Natural colour anodised aluminium (-ELOX, standard)
  - aluminium painted to:
    - RAL colour 9005 (black) (-9005)
    - RAL colour 9010 (white) (-9010)
    - a freely selectable RAL colour (-xxxx, always with 4 digits)
- Dummy profile colour:
  - Dummy profile made of painted aluminium:
    - colour similar to RAL 9005 (black) (-B9005, standard)
    - colour similar to RAL 9006 (white aluminium) (-B9006)
    - colour similar to RAL 9010 (white) (-B9010)
    - RAL colour freely selectable (-Bxxxx) (always with 5 digits)
- Angle between sides:
  - angle α = 90° (-090) (standard)
  - angle (α) as required (-xxx), values between α = 90° (-090, standard) and 170° (-170) are possible (always with 3 digits)
- Left side length (a):
  - standard length, 1-, 2-, 3-slot L = 250 mm / 4-slot L = 400 mm (-000)
  - length (L) in mm, freely selectable (-xxx) (minimum length = standard length) (always with 3 digits)
- Right side length (b):
  - standard length, 1-, 2-, 3-slot L = 250 mm / 4-slot L = 400 mm (-000)
  - length (L) in mm, freely selectable (-xxx) (minimum length = standard length) (always with 3 digits)
- with 4 fishplates (-VL, included in delivery) made of aluminium (same colour as frame), supplied loose
- Additional profile:
  - without additional profile (-Z0)
- Mounting with suspension lugs (-AL), supplied loose

DIMENSIONS

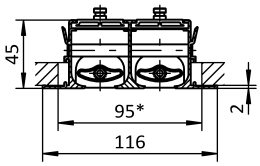
Dimensions of frame profile

Standard frame profile "R0"

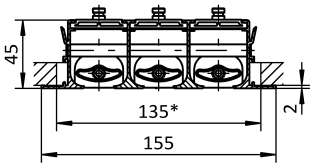
DSC-1-Z-R0



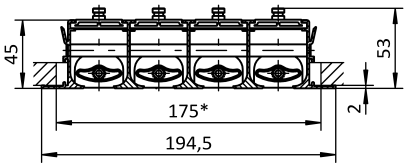
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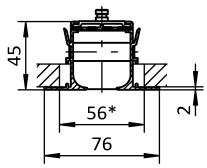
DSC-3-Z-R0



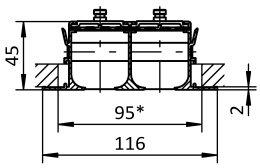
DSC-4-Z-R0



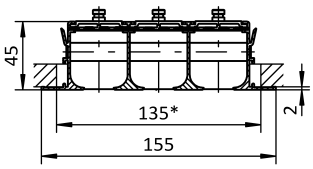
DSC-1-A-R0



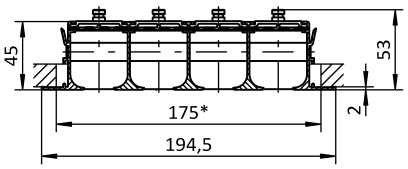
DSC-2-A-R0



DSC-3-A-R0

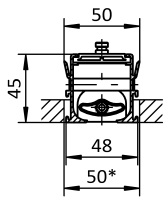


DSC-4-A-R0

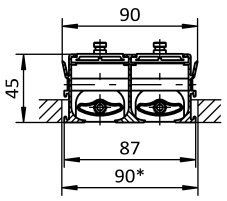


Narrow frame profile "S0"

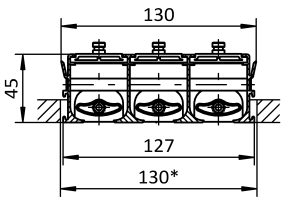
DSC-1-Z-S0



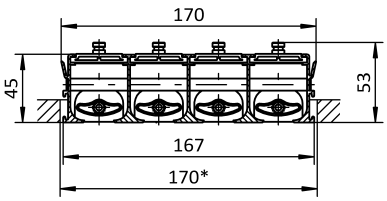
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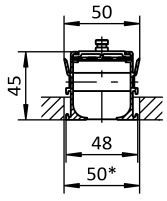
DSC-3-Z-S0



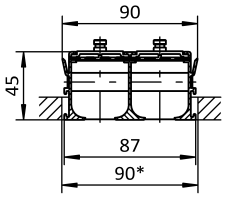
DSC-4-Z-S0



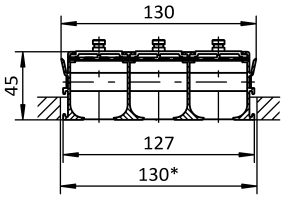
DSC-1-A-S0



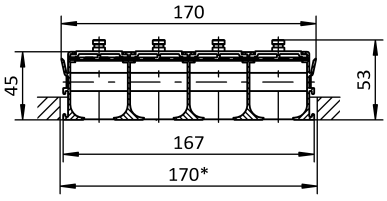
DSC-2-A-S0



DSC-3-A-S0

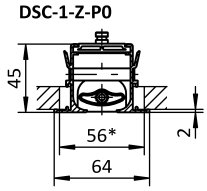


DSC-4-A-S0

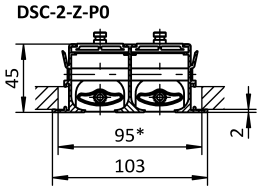


Special frame profile "P0"

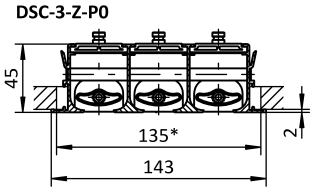
DSC-1-Z-P0



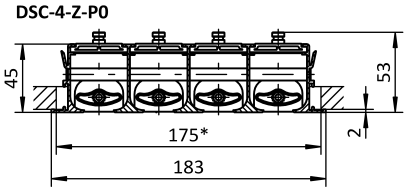
DSC-2-Z-P0



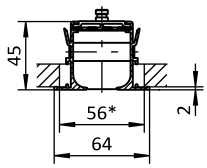
DSC-3-Z-P0



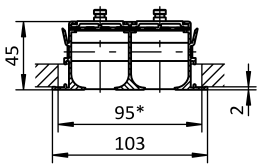
DSC-4-Z-P0



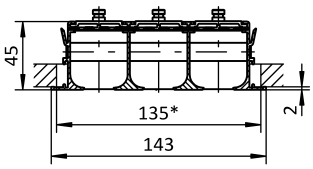
DSC-1-A-P0



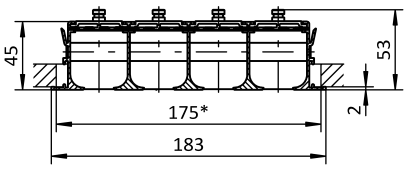
DSC-2-A-P0



DSC-3-A-P0



DSC-4-A-P0

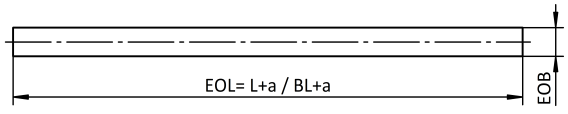


In the return air model, a perforated plate is mounted instead of the air deflection blades.

* EOB = Installation opening width

For available lengths of slot diffuser, see Page 10.

Installation opening



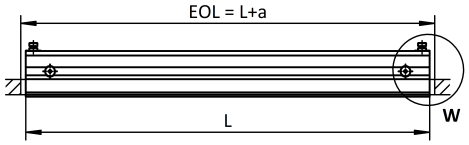
		n	EOB	a
Frame profile	-R0	-1	56	10
		-2	95	
		-3	135	
		-4	175	
	-S0	-1	50	15
		-2	90	
		-3	130	
		-4	170	
	-P0	-1	56	15
		-2	95	
		-3	135	
		-4	175	

n = number of slots

Available lengths for the slot diffuser

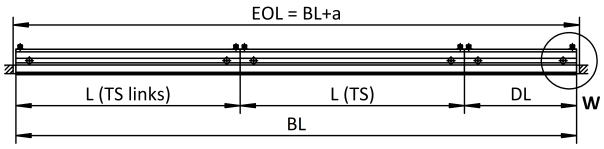
Single design (-N)

- length L = 1000 mm (-N-01000)
- length L = 1500 mm (-N-01500)
- length (L) in mm, freely selectable (-N-xxxxx) (always with 5 digits)
  (In case of single design length L = ≥ 400 mm to ≤ 1500 mm can be fitted with plenum box, dummy piece possible from length ≥ 200 mm.)



Band design (-B)

- Length (BL) in mm, freely selectable, as band (-B-xxxxx) (always with 5 digits).



Available lengths according to SCHAKO standard:

When the slot diffuser type DSC is designed as a band, the total length BL is assembled from lengths (sections) of **1000 mm or 1500 mm**. The difference pieces DL are supplied in lengths **≥ 400 mm to < 1500 mm**. The difference pieces from **≥ 200 mm to < 400 mm** are supplied as dummy pieces without plenum box.

TS	=	Section
TS left	=	Left section
L	=	Length
DL	=	Difference distance
BL	=	Length of band
EOB	=	Installation opening width
EOL	=	Installation opening length (EOL = L+a / BL+a)

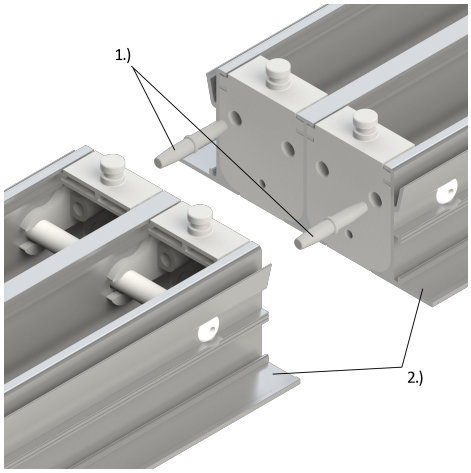
End pieces, for detail W see Page 12.

Slot diffuser connection in band design

Slot diffuser - slot diffuser

With connecting pin:

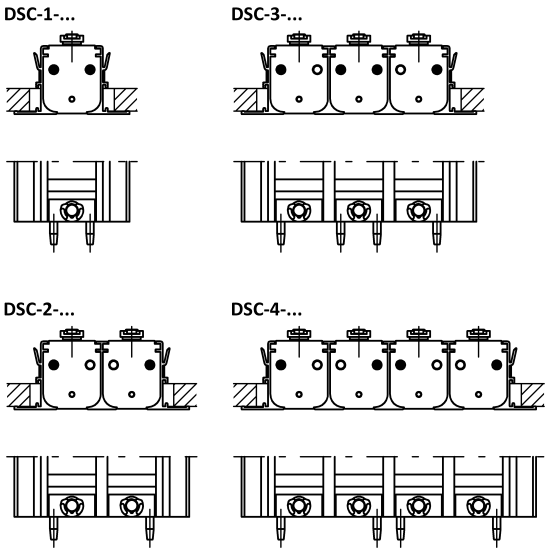
Supplied loose (2x for each connection)



1.) Connecting pin

2.) Slot diffuser

Arrangement of connecting pins



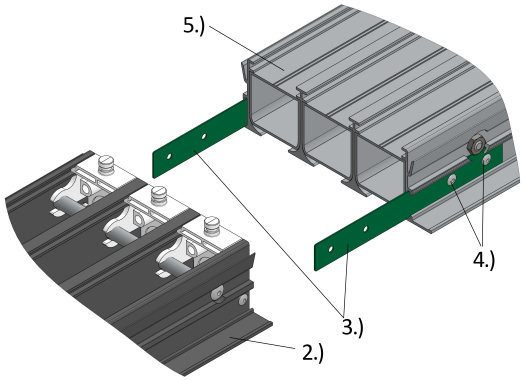
Attention:

The connecting pins are only suitable for positioning and not for force transmission.

Slot diffuser - corner angle

With fishplates:

Supplied loose (2x for each connection)



2.) Slot diffuser

3.) Fishplate

4.) Riveted on site

5.) Corner angle

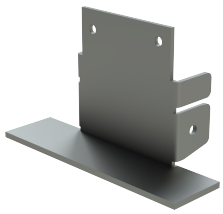
DIMENSIONS OF ACCESSORIES

End pieces (-E0 / -ES / -EB / -EL / -ER)

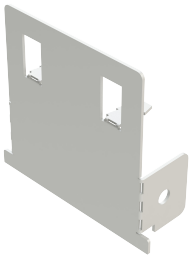
- without end piece (-E0) (standard)
- with end pieces, made of aluminium (same colour as frame):
  - supplied loose (-ES, pair) (standard)
  - mounted ex works on both sides (-EB)
  - mounted ex works on the left side (-EL)
  - mounted ex works on the right side (-ER)

To give the impression of a continuous frame, lateral front end pieces can be fitted.

for DSC-...-R0 / DSC-...-P0:



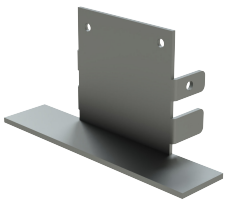
for DSC-...-S0-...-Z0:



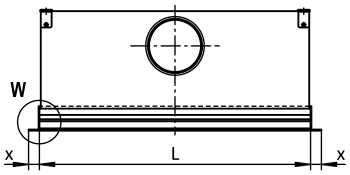
for DSC-...-S0-...-Z1:



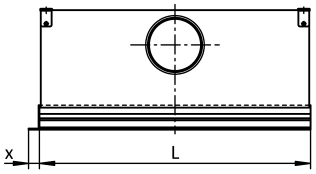
for DSC-...-S0-...-Z2 / DSC-...-S0-...-Z3:



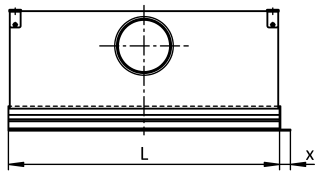
End piece on both sides



End piece on the left

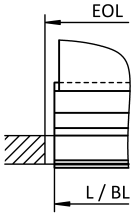


End piece on the right

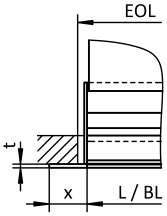


Detail W
DSC-...-R0 / DSC-...-P0 /
DSC-...-S0-...-Z2 / DSC-...-S0-...-Z3

without end pieces

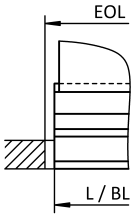


with end piece

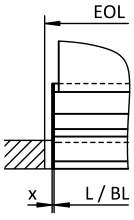


DSC-...-S0-...-Z0 / DSC-...-S0-...-Z1

without end pieces



with end piece



	x	t
DSC-...-R0	20	2
DSC-...-P0	16	2
DSC-...-S0-...-Z2 / DSC-...-S0-...-Z3	20	2
DSC-...-S0-...-Z0 / DSC-...-S0-...-Z1	1	-

Installation opening in the length section:

EOL = L+a or BL+a

	a
DSC-...-R0	10
DSC-...-P0	15
DSC-...-S0	15

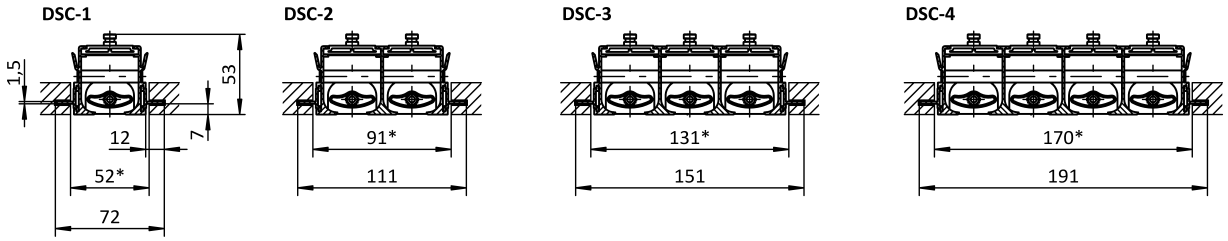
Additional profiles (-Z0 / -Z1 / -Z2 / -Z3)

- without additional profile (-Z0) (standard)
- with additional profile made of aluminium (same colour as frame, only possible for DSC-…-S0):
  - Z I (-Z1), connection of ceiling panels
  - Z II (-Z2), connection of panelled ceilings
  - Z III (-Z3), connection of ceiling panels

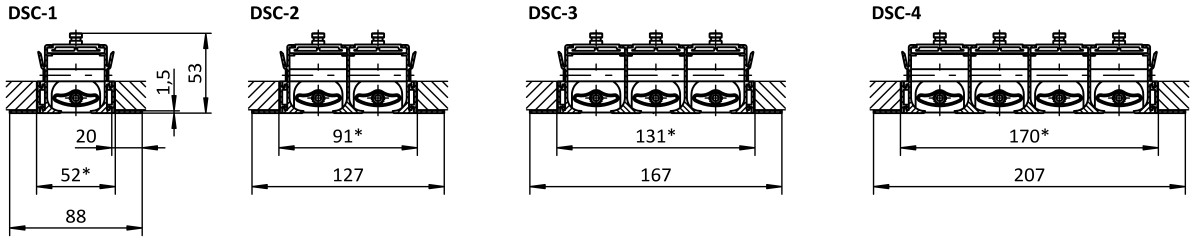
To be fitted to the supply and return air models.

In the return air model, a perforated plate is mounted instead of the air deflection blades.

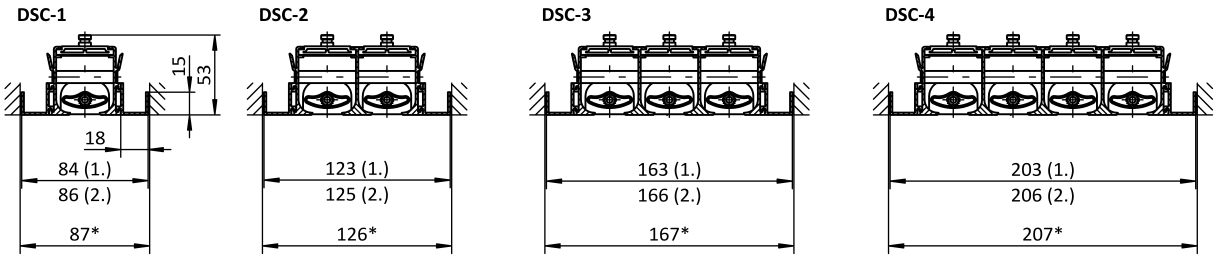
Additional profile ZI (-Z1)



Additional profile ZII (-Z2)



Additional profile ZIII (-Z3)



1.) = anodised model
2.) = painted model
*EOB = Installation opening width

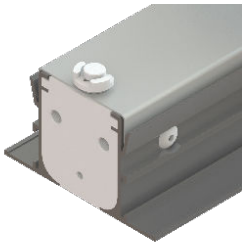
For available lengths of slot diffuser, see Page 10.

Dummy piece (-BS0 / -BS1)

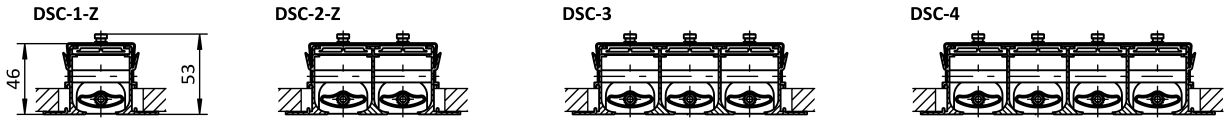
- without dummy piece (-BS0) (standard)
- with dummy piece (-BS1):
  - made of sheet steel painted to RAL 9005 (black)
  - only possible without plenum box and hit-and-miss damper
  - Suitable for all frame profiles (-R0 / -S0 / -P0)
  - with fastening clip for mounting on the slot diffuser
  - possible from length L ≥ 200 mm
  - Mounting only possible with suspension lugs (-AL, standard in connection with active diffuser DSC-…-FV-…), counter pole brace (-GT) or clamp strap (-KB)

with dummy piece (-BS1)

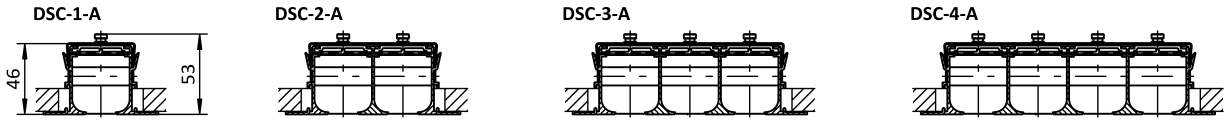
Dummy piece



For supply air:



For return air:



For available lengths of slot diffuser, see Page 10.

Hit-and-miss damper (-SN / -SS)

- without hit-and-miss damper (-SN) (standard)
- with hit-and-miss damper (-SS), only possible without plenum box

Mounting the hit-and-miss damper:

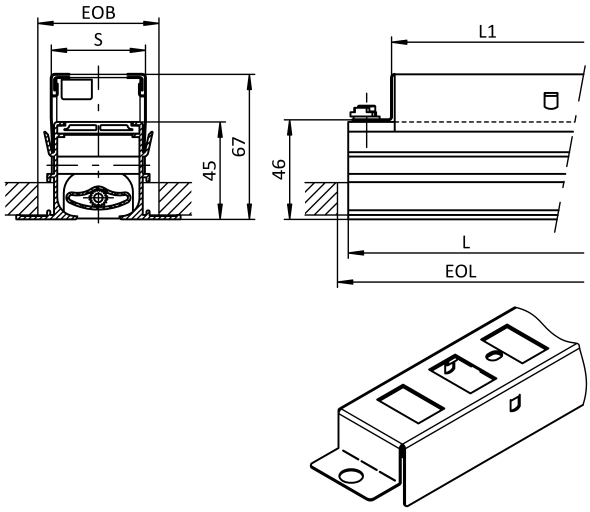
DSC-…-R0 / DSC-…-P0:

- With screw mounting (-SM, standard)
- Mounting with counter pole brace (-GT)

DSC-…-S0:

- Screw mounting not possible
- Mounting with counter pole brace (-GT)
- Only possible for models with additional profile -Z2. Not possible for models without additional profile -Z0 and with additional profiles -Z1 and -Z3

with hit-and-miss damper (-SS)



	S	EOB	
		standard	Min. *
DSC-1	43	56	51
DSC-2	82	95	91
DSC-3	122	135	131
DSC-4	162	175	171

* recommended ceiling cutout for screw mounting (-SM)

L	L1
1000	960
1500	1460

	a
DSC-…-R0	10
DSC-…-P0	15
DSC-…-S0	15

Installation opening in the length section:

EOL = L+a or BL+a

For fastening details regarding screw mounting, see Page 33.

For fastening details regarding the mounting to the counter pole brace, see Page 32.

Subject to design changes. No return possible!

Suspension lugs (-AL)

4 pieces, supplied loose.

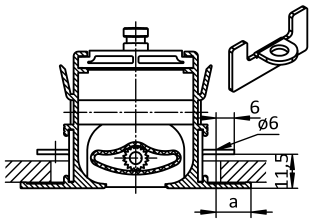
Only possible without plenum box.

Possible for the models DSC-…-R0 and DSC-…-P0.

Not possible for the model DSC-…-S0.

The slot diffuser is fastened to 4 suspension brackets.

(For the fastening details, see Page 32)



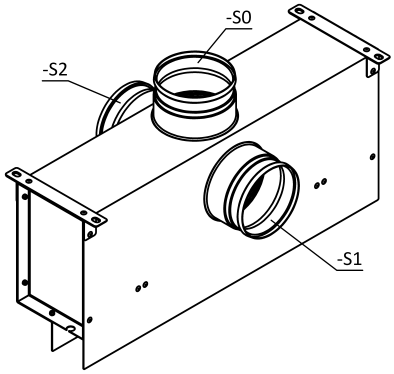
	a
DSC-…-R0	11,5
DSC-…-P0	5

Plenum box (-ASK-24)

Spigot position

Spigot position in the plenum box for single and band design:

S0=Spigot from above
S1=lateral spigot (standard)
S2=Lateral spigot located on the opposite side (only possible for 1-slot models)



For dimensions of the plenum box, see Page 17 onwards.

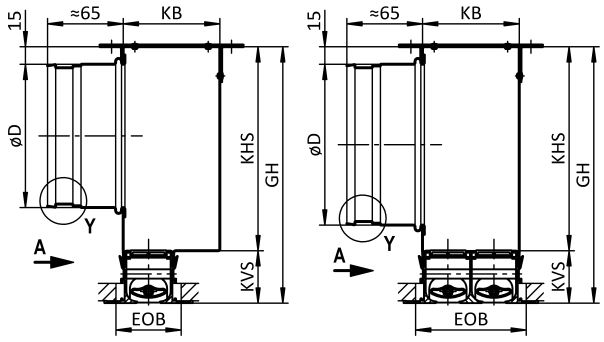
Plenum box – single design (-N)
Plenum box (-ASK-24-…-N-…-FV-…-S1/S2-…)

- with fixed connection
- with lateral spigot/lateral spigot located on the opposite side
- As standard for the models DSC-…-R0 / DSC-…-S0 and DSC-…-P0
- The slot diffuser is permanently connected to the plenum box.

With lateral spigot (-S1, standard)

DSC-1-…- DSC-2/3/4-…-

ASK-24-…-N-…-FV-…-S1-… ASK-24-…-N-…-FV-…-S1-…

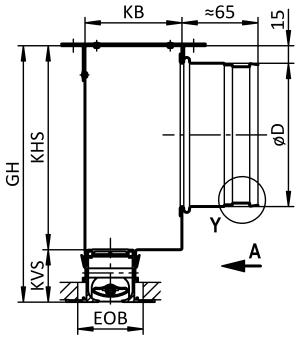


KVS = Box neck

With lateral spigot located on the opposite side (-S2)

(only possible for DSC-1-…)

DSC-1-…-ASK-24-1-N-…-FV-…-S2-…



KVS = Box neck

Available sizes for plenum box

(ASK-24-…-N-…-FV-…-S1/S2-…)

	KB	GH	KHS	KVS	EOB	
					…-R0 …-P0	**…-S0**
DSC-1	83	220	175	45	56	50
DSC-2	83	220	175	45	95	90
DSC-3	123	220	175	45	135	130
DSC-4	162	280	235	45	175	170

Number of connection spigots

	øD	
	L ≤ 1000	**L > 1000 to L ≤ 1500**
DSC-1	1 x ø98	1 x ø123
DSC-2	1 x ø138	1 x ø138
DSC-3	1 x ø138	2 x ø138
DSC-4	1 x ø158	2 x ø138

L	**KL**	**EOL**		**Weight, incl. plenum box (kg)**			
		…-R0	**…-P0 …-S0**	**DSC-1**	**DSC-2**	**DSC-3**	**DSC-4**
1000	997	1010	1015	5,5	6,0	7,0	9,0
1500	1497	1510	1515	8,0	8,5	10,0	12,5

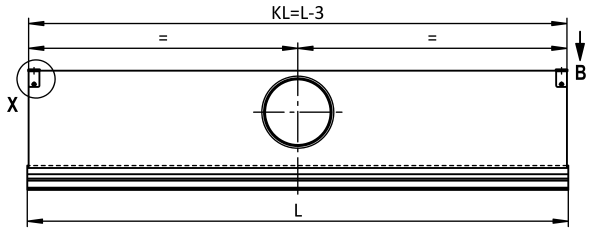
Available lengths plenum box (-ASK-24-...-N)

- Length L = 1000 mm (-N-01000) (length of box KL = 997 mm)
- Length L = 1500 mm (-N-01500) (length of box KL = 1497 mm)
- length (L) in mm, freely selectable (-N-xxxxx) (always with 5 digits)
  (Length of box KL = L-3, can be fitted with a plenum box in case of single design lengths L = ≥400 mm to ≤1500 mm.)

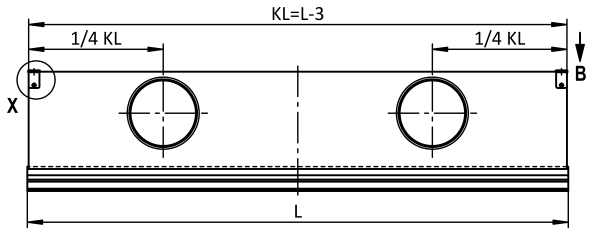
Spigot position:

lateral spigot (-S1) / lateral spigot located on the opposite side (-S2)

View A / with 1 spigot



View A / with 2 spigots



Plenum box height reduction (at an extra charge)

- for spigot position -S1/-S2 and standard box neck:
  Minimum height [GH] = spigot diameter øD + 82 mm

Box neck extension

- Standard box neck (KVS = 45 mm) (-KVS)
- Box neck extension in mm, freely selectable (-xxx, always with 3 digits). Box neck (not adjustable) from ≥45 mm to 200 mm possible

Spigot diameter:

- Standard spigot diameter (-SDS)
- spigot diameter (øD) in mm, freely selectable (-xxx, always with 3 digits)

Intermediate lengths and other spigot diameters on request.

For installation opening length, see Page 10.
Plenum box in band design, see Page 26.
For suspension position, view B, see Page 28.
For plenum box suspension, detail X, see Page 29.
For rubber lip seal, detail Y, see Page 30.
For fastening methods, see .For fastening methods, see Page 32.

EOB	=	Installation opening width
EOL	=	Installation opening length

Subject to design changes. No return possible!

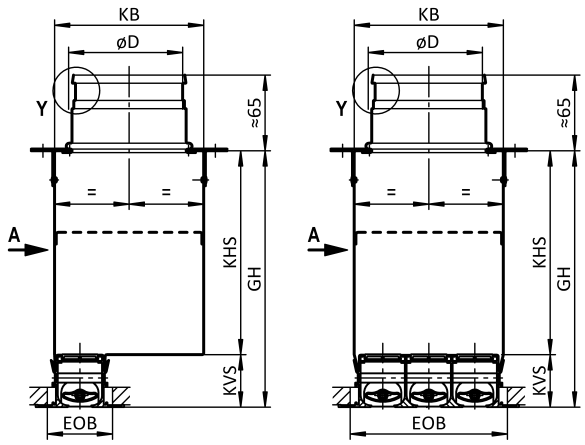
Plenum box (-ASK-24-…-N-…-FV-…-S0-…)

- with fixed connection
- with spigot from above
- As standard for the models DSC-…-R0 / DSC-…-S0 and DSC-…-P0
- The slot diffuser is permanently connected to the plenum box.

With spigot from above (-S0)

DSC-…-

ASK-24-…-N-…-FV-…-S0-…



KVS = Box neck

Available sizes for plenum box

(ASK-24-…-N-…-FV-…-S0-…)

	KB	GH	KHS	KVS	EOB	
					…-R0 …-P0	…-S0
DSC-1	128	220	175	45	56	50
DSC-2	128	220	175	45	95	90
DSC-3	143	220	175	45	135	130
DSC-4	182	280	235	45	175	170

Number of connection spigots

	øD	
	L ≤ 1000	**L > 1000 to L ≤ 1500**
DSC-1	1 x ø98	2 x ø98
DSC-2	2 x ø98	2 x ø98
DSC-3	2 x ø98	4 x ø98
DSC-4	2 x ø123	2 x ø138

L	KL	EOL		Weight, incl. plenum box (kg)			
		…-R0	…-P0 …-S0	DSC-1	DSC-2	DSC-3	DSC-4
1000	997	1010	1015	5,5	6,0	7,0	9,0
1500	1497	1510	1515	8,0	8,5	10,0	12,5

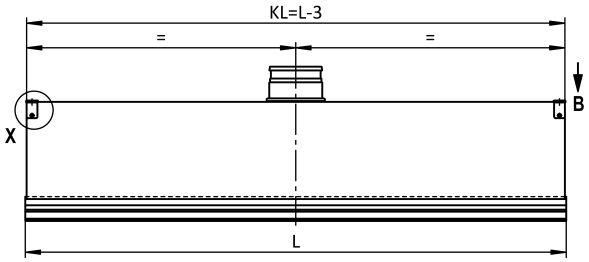
Available lengths plenum box (-ASK-24-…-N)

- length L = 1000 mm (-N-01000) (length of box KL = 997 mm)
- length L = 1500 mm (-N-01500) (length of box KL = 1497 mm)
- length (L) in mm, freely selectable (-N-xxxxx) (always with 5 digits)
  (Length of box KL = L-3, can be fitted with a plenum box in case of single design lengths L = ≥400 mm to ≤1500 mm.)

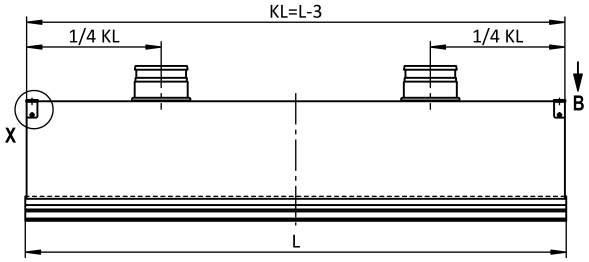
Spigot position:

Spigot from above (-S0)

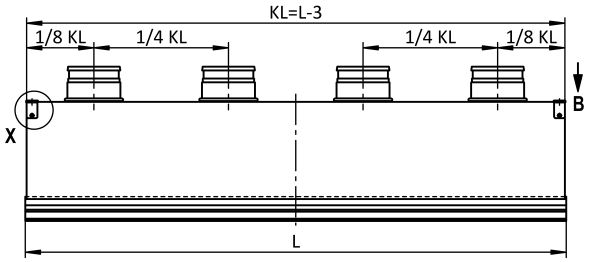
View A / with 1 spigot



View A / with 2 spigots



View A / with 4 spigots



Plenum box height reduction (at an extra charge)

- for spigot position -S0 and standard box neck:
  The height of box [GH] can be reduced to 180 mm.

Box neck extension

- Standard box neck (KVS = 45 mm) (-KVS)
- Box neck extension in mm, freely selectable (-xxx, always with 3 digits), Box neck (not adjustable) from ≥45 mm to 200 mm possible.

Spigot diameter:

- Standard spigot diameter (-SDS)
- Spigot diameter (øD) in mm, freely selectable (-xxx, always with 3 digits).

Intermediate lengths and other spigot diameters on request.

For installation opening length, see Page 10.
Plenum box in band design, see Page 26.
For suspension position, view B, see Page 28.
For plenum box suspension, detail X, see Page 29.
For rubber lip seal, detail Y, see Page 30.
For fastening methods, see .For fastening methods, see Page 32.

EOB = Installation opening width
EOL = Installation opening length

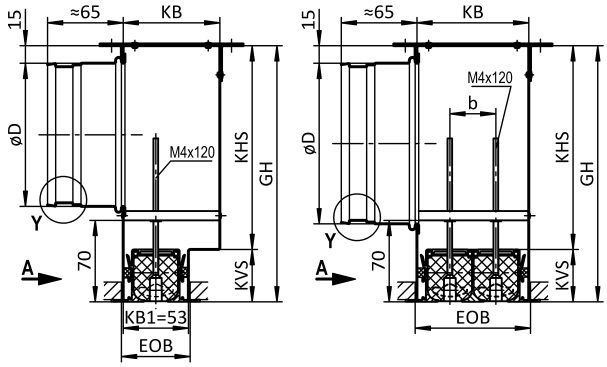
Plenum box (-ASK-24-…-N-…-VM-…-S1/S2-…)

- With concealed mounting
- with lateral spigot/lateral spigot located on the opposite side
- Possible for the models DSC-…-R0 / DSC-…-P0 and DSC-…-S0-…-Z2 (with additional profile)
- Not possible for the models DSC-…-S0-…-Z0 / DSC-…-S0-…-Z1 / DSC-…-S0-…-Z3
- The slot diffuser is screwed to the pole brace in the plenum box housing with concealed screws.
- Frame with foam gasket

With lateral spigot (-S1, standard)

DSC-1-…- DSC-2/3/4-…-

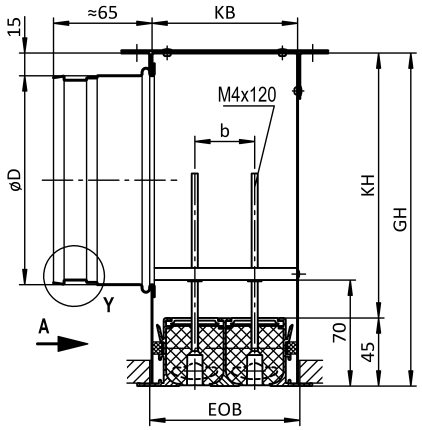
ASK-24-…-N-…-VM-…-S1-… ASK-24-…-N-…-VM-…-S1-…



With lateral spigot located on the opposite side (-S2)

(only possible for DSC-1-…)

DSC-1-…-ASK-24-…-N-…-VM-…-S2-…



KVS = Box neck

Available sizes for plenum box

(ASK-24-…-N-…-VM-…-S1/S2-…)

	KB	GH	KHS	KVS	EOB		b
					…-R0 …-P0	…-S0-…-Z2	
DSC-1	83	220	175	45	56	52	-
DSC-2	93	220	175	45	96	91	40
DSC-3	133	220	175	45	136	131	79
DSC-4	173	280	235	45	176	170	119

Number of connection spigots

	øD	
	L ≤ 1000	**L > 1000 to L ≤ 1500**
DSC-1	1 x ø98	1 x ø123
DSC-2	1 x ø138	1 x ø138
DSC-3	1 x ø138	2 x ø138
DSC-4	1 x ø158	2 x ø138

L	KL	EOL		Weight, incl. plenum box (kg)			
		…-R0	…-P0 …-S0	DSC-1	DSC-2	DSC-3	DSC-4
1000	997	1010	1015	5,5	6,0	7,0	9,0
1500	1497	1510	1515	8,0	8,5	10,0	12,5

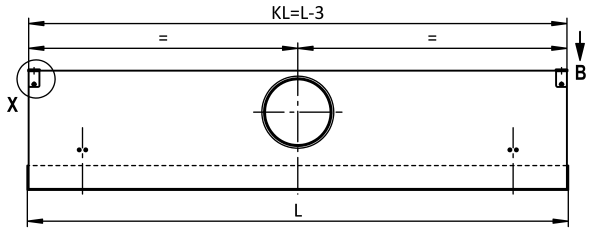
Available lengths plenum box (-ASK-24-...-N)

- length L = 1000 mm (-N-01000) (length of box KL = 997 mm)
- length L = 1500 mm (-N-01500) (length of box KL = 1497 mm)
- length (L) in mm, freely selectable (-N-xxxxx) (always with 5 digits)
  (Length of box KL = L-3, can be fitted with a plenum box in case of single design lengths L = ≥400 mm to ≤1500 mm.)

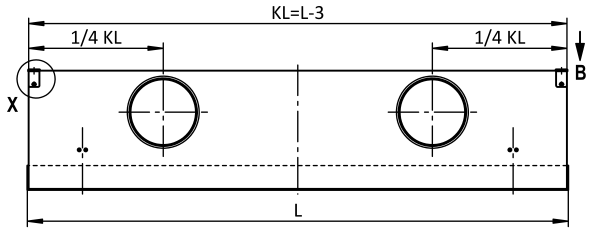
Spigot position:

lateral spigot (-S1) / lateral spigot located on the opposite side (-S2)

View A / with 1 spigot



View A / with 2 spigots



Plenum box height reduction (at an extra charge)

- for spigot position -S1/-S2 and standard box neck:
  Minimum height [GH] = spigot diameter øD + 82 mm

Box neck extension

- Standard box neck (KVS = 45 mm) (-KVS)
- Box neck extension in mm, freely selectable (-xxx, always with 3 digits), Box neck (not adjustable) from ≥45 mm to 200 mm possible.

Spigot diameter:

- Standard spigot diameter (-SDS)
- Spigot diameter (øD) in mm, freely selectable (-xxx, always with 3 digits).

Intermediate lengths and other spigot diameters on request.

Attention: The maximum torque of the fastening screw is 0.5 Nm.

For installation opening length, see Page 10.
Plenum box in band design, see Page 26.
For suspension position, view B, see Page 28.
For plenum box suspension, detail X, see Page 29.
For rubber lip seal, detail Y, see Page 30.

For fastening methods, see .For fastening methods, see Page 32.

EOB	=	Installation opening width
EOL	=	Installation opening length

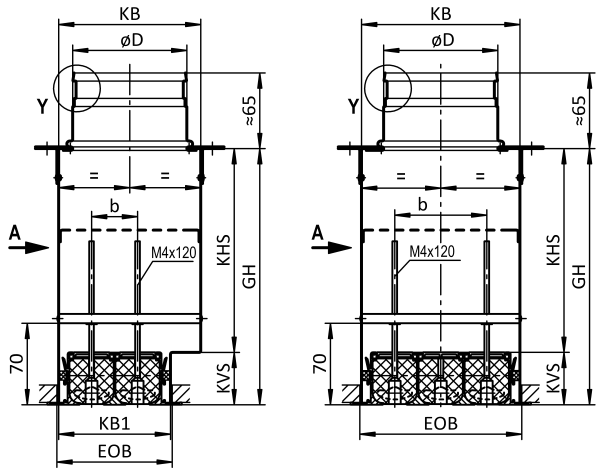
Plenum box (-ASK-24-…-N-…-VM-…-S0-…)

- With concealed mounting
- with spigot from above
- Possible for the models DSC-…-R0 / DSC-…-P0 and DSC-…-S0-…-Z2 (with additional profile)
- Not possible for the models DSC-…-S0-…-Z0 / DSC-…-S0-…-Z1 / DSC-…-S0-…-Z3
- The slot diffuser is screwed to the pole brace in the plenum box housing with concealed screws.
- Frame with foam gasket

With spigot from above (-S0)

DSC-1/2-…- DSC-3/4-…-

ASK-24-…-N-…-VM-…-S0-… ASK-24-…-N-…-VM-…-S0-…



KVS = Box neck

Available sizes for plenum box

(ASK-24-…-N-…VM-…-S0-…)

	KB	KB1	GH	KHS	KVS	EOB		b
						…-R0 …-P0	…-S0-…-Z2	
DSC-1	128	53	220	175	45	56	52	-
DSC-2	128	93	220	175	45	96	91	40
DSC-3	133	-	220	175	45	136	131	79
DSC-4	173	-	280	235	45	176	170	119

Number of connection spigots

	øD	
	L ≤ 1000	**L > 1000 to L ≤ 1500**
DSC-1	1 x ø98	2 x ø98
DSC-2	2 x ø98	2 x ø98
DSC-3	2 x ø98	4 x ø98
DSC-4	2 x ø123	2 x ø138

L	KL	EOL		Weight, incl. plenum box (kg)			
		…-R0	…-P0	DSC-1	DSC-2	DSC-3	DSC-4
1000	997	1010	1015	5,5	6,0	7,0	9,0
1500	1497	1510	1515	8,0	8,5	10,0	12,5

Subject to design changes. No return possible!

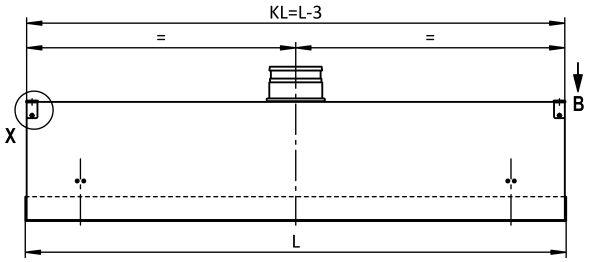
Available lengths plenum box (-ASK-24-…-N)

- length L = 1000 mm (-N-01000) (length of box KL = 997 mm)
- length L = 1500 mm (-N-01500) (length of box KL = 1497 mm)
- length (L) in mm, freely selectable (-N-xxxxx) (always with 5 digits)
  (Length of box KL = L-3, can be fitted with a plenum box in case of single design lengths L = ≥400 mm to ≤1500 mm.)

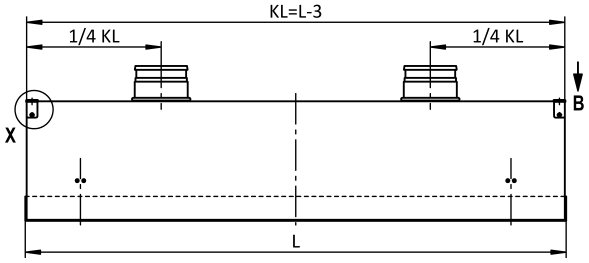
Spigot position:

Spigot from above (-S0)

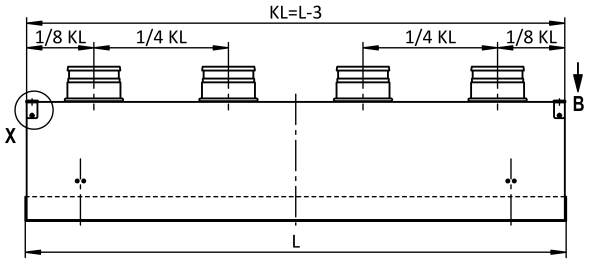
View A / with 1 spigot



View A / with 2 spigots



View A / with 4 spigots



Plenum box height reduction (at an extra charge)

- for spigot position -S0 and standard box neck:
  The height of box [GH] can be reduced to 180 mm.

Box neck extension

- Standard box neck (KVS = 45 mm) (-KVS)
- Box neck extension in mm, freely selectable (-xxx, always with 3 digits), Box neck (not adjustable) from ≥45 mm to 200 mm possible.

Spigot diameter:

- Standard spigot diameter (-SDS)
- Spigot diameter (øD) in mm, freely selectable (-xxx, always with 3 digits).

Intermediate lengths and other spigot diameters on request.

Attention: The maximum torque of the fastening screw is 0.5 Nm.

For installation opening length, see Page 10.
Plenum box in band design, see Page 26.
For suspension position, view B, see Page 28.
For plenum box suspension, detail X, see Page 29.
For rubber lip seal, detail Y, see Page 30.
For fastening methods, see .For fastening methods, see Page 32.

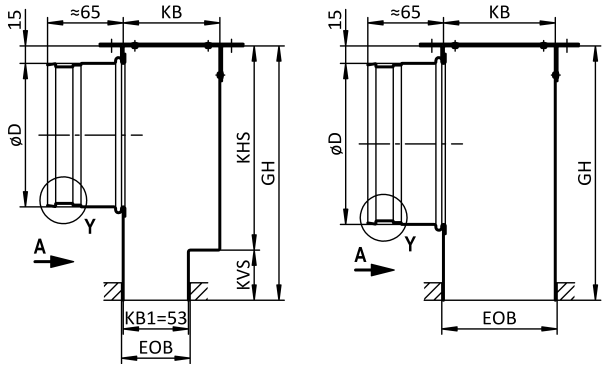
EOB = Installation opening width
EOL = Installation opening length

Plenum box (ASK-24-…-N…-00-…-S1/S2-…)

- without fastening, only possible without diffuser
- with lateral spigot

With lateral spigot (-S1, standard)

ASK-24-1-…-N-…-00-…-S1-… ASK-24-2/3/4-…-N-…-00-…-S1-…

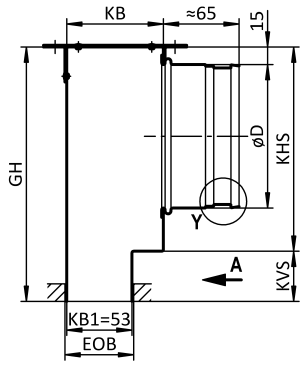


KVS = Box neck

With lateral spigot located on the opposite side (-S2)

(only possible for ASK-24-1-…)

ASK-24-1-…-N-…-00-…-S2-…



Available sizes for plenum box

(ASK-24-…-N-…-00-…-S1/S2-…)

	KB	KB1	GH	KHS	KVS	EOB …-R0 …-P0
DSC-1	83	53	218	175	43	56
DSC-2	93	-	218	175	43	96
DSC-3	133	-	218	175	43	136
DSC-4	173	-	278	235	43	176

Number of connection spigots

	øD	
	L ≤ 1000 (KL ≤ 997)	**L > 1000 to L ≤ 1500 (KL > 997 to KL ≤ 1497)**
DSC-1	1 x ø98	1 x ø123
DSC-2	1 x ø138	1 x ø138
DSC-3	1 x ø138	2 x ø138
DSC-4	1 x ø158	2 x ø138

L	KL	EOL	
		…-R0	…-P0 …-S0
1000	997	1010	1015
1500	1497	1510	1515

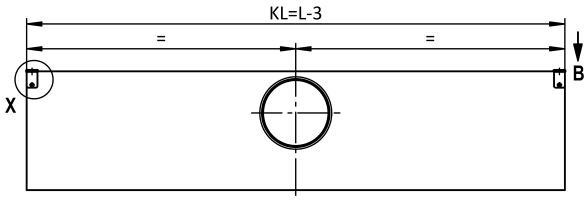
Available lengths plenum box (-ASK-24-…-N)

- length L = 1000 mm (-N-01000) (length of box KL = 997 mm)
- length L = 1500 mm (-N-01500) (length of box KL = 1497 mm)
- length (L) in mm, freely selectable (-N-xxxxx) (always with 5 digits)
  (Length of box KL = L-3, can be fitted with a plenum box in case of single design lengths L = ≥400 mm to ≤1500 mm.)

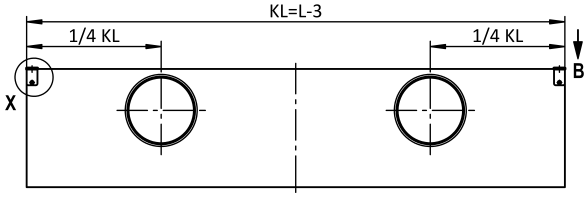
Spigot position:

lateral spigot (-S1) / lateral spigot located on the opposite side (-S2)

View A / with 1 spigot



View A / with 2 spigots



Plenum box height reduction (at an extra charge)

- for spigot position -S1/-S2 and standard box neck:
  Minimum height [GH] = spigot diameter øD + 80 mm

Box neck extension

- Standard box neck (KVS = 43 mm) (-KVS)
- Box neck extension in mm, freely selectable (-xxx, always with 3 digits), Box neck (not adjustable) from ≥43 mm to 200 mm possible.

Spigot diameter:

- Standard spigot diameter (-SDS)
- Spigot diameter (øD) in mm, freely selectable (-xxx, always with 3 digits).

Intermediate lengths and other spigot diameters on request.

For suspension position, view B, see Page 28.
For plenum box suspension, detail X, see Page 29.
For rubber lip seal, detail Y, see Page 30.
For fastening methods, see .For fastening methods, see Page 32.

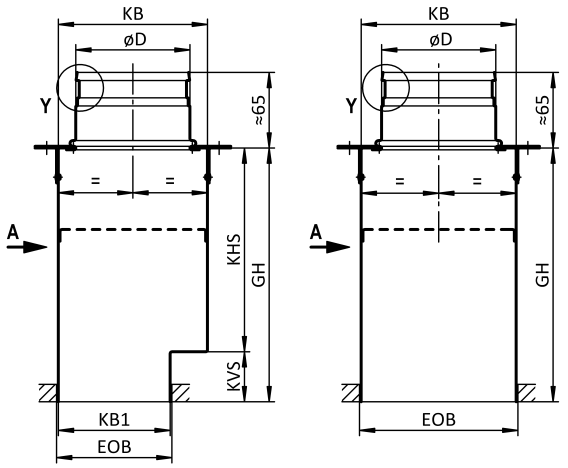
EOB	=	Installation opening width
EOL	=	Installation opening length

Plenum box (-ASK-24-...-N-...-00-...-S0-...)

- without fastening, only possible without diffuser
- with spigot from above

With spigot from above (-S0)

ASK-24-1/2-...-N-...-00-...-S0-... ASK-24-3/4-...-N-...-00-...-S0-...



KVS = Box neck

Available sizes for plenum box

(ASK-24-...-N-...-00-...-S0-...)

	KB	KB1	GH	KHS	KVS	EOB ...-R0 ...-P0
DSC-1	128	53	218	175	43	56
DSC-2	128	93	218	175	43	96
DSC-3	133	-	218	175	43	136
DSC-4	173	-	278	235	43	176

Number of connection spigots

	øD	
	L ≤ 1000 (KL ≤ 997)	**L > 1000 to L ≤ 1500 (KL > 997 to KL ≤ 1497)**
DSC-1	1 x ø98	2 x ø98
DSC-2	2 x ø98	2 x ø98
DSC-3	2 x ø98	4 x ø98
DSC-4	2 x ø123	2 x ø138

L	KL	EOL	
		...-R0	...-P0
1000	997	1010	1015
1500	1497	1510	1515

Available lengths plenum box (-ASK-24-...-N)

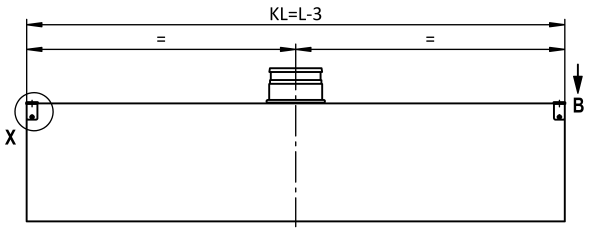
- length L = 1000 mm (-N-01000) (length of box KL = 997 mm)
- length L = 1500 mm (-N-01500) (length of box KL = 1497 mm)
- length (L) in mm, freely selectable (-N-xxxxx) (always with 5 digits)
  (Length of box KL = L-3, can be fitted with a plenum box in case of single design lengths L = ≥400 mm to ≤1500 mm.)

Subject to design changes. No return possible!

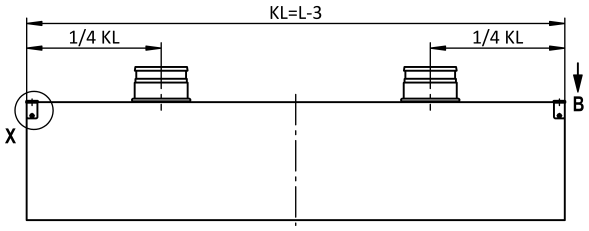
Spigot position:

Spigot from above (-S0)

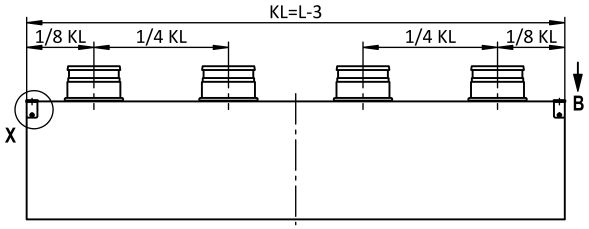
View A / with 1 spigot



View A / with 2 spigots



View A / with 4 spigots



Plenum box height reduction (at an extra charge)

- for spigot position -S0 and standard box neck:
  The height of box [GH] can be reduced to 180 mm.

Box neck extension

- Standard box neck (KVS = 43 mm) (-KVS)
- Box neck extension in mm, freely selectable (-xxx, always with 3 digits), Box neck (not adjustable) from ≥43 mm to 200 mm possible.

Spigot diameter:

- Standard spigot diameter (-SDS)
- Spigot diameter (øD) in mm, freely selectable (-xxx, always with 3 digits).

Intermediate lengths and other spigot diameters on request.

For suspension position, view B, see Page 28.
For plenum box suspension, detail X, see Page 29.
For rubber lip seal, detail Y, see Page 30.
For fastening methods, see .For fastening methods, see Page 32.

EOB = Installation opening width
EOL = Installation opening length

Plenum box – band design (-B)
Plenum box (-ASK-24-…-B-…-FV/VM-…)

With permanent connection (-FV, standard) / with concealed mounting (-VM).

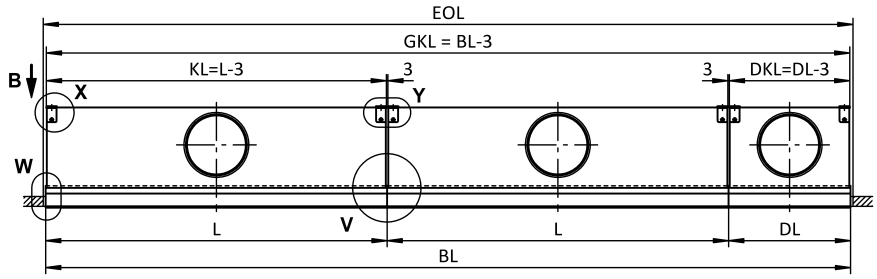
For concealed mounting, the slot diffuser is screwed to the plenum box housing (face part) with concealed screws.

Available lengths of plenum box (-ASK-24-…-B)

- Length (BL) in mm, freely selectable (-B-xxxxx) (always with 5 digits)
  (Total length of box GKL = BL-3)

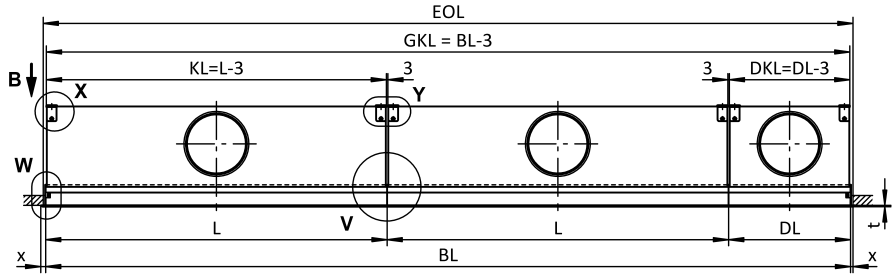
DSC-…-ASK-24-…-B-…-FV/VM-…-S1/-S2-…-E0

(with lateral spigot or lateral spigot located on the opposite side, without end piece)



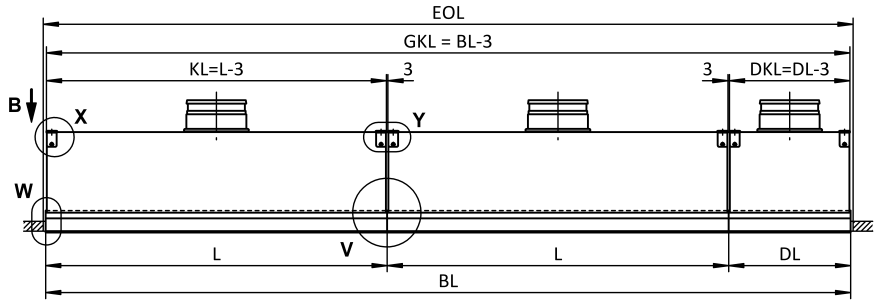
DSC-…-ASK-24-…-B-…-FV/VM-…-S1/-S2-…-ES/-EB/-EL/-ER

(with lateral spigot or lateral spigot located on the opposite side, with end piece)



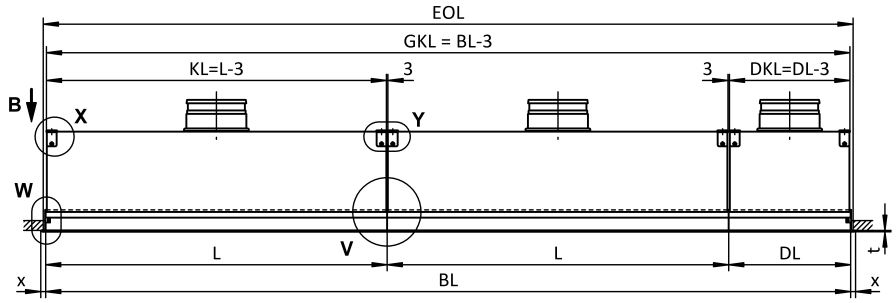
DSC-…-ASK-24-…-B-…-FV/VM-…-S0-…-E0

(with spigot from above, without end piece)



DSC-...-ASK-24-...-B-...-FV/VM-...-S0-...-ES/-EB/-EL/-ER

(with spigot from above, with end piece)



Available lengths according to SCHAKO standard

BL >1500 to <2000:

For models designed as a band (BL > 1500 mm to <2000 mm), the total length BL is divided individually (division upon request).

BL ≥2000:

For models designed as a band BL **≥** 2000 mm, the total length BL is assembled from standard lengths of **1500 mm**.

The difference pieces DL with length <1500 mm to ≥ 400 mm can be fitted with a plenum box.

A plenum box (KL/KDL) with a length of <400 mm is not possible.

The difference pieces from ≥ 200 mm to < 400 mm are supplied as dummy pieces without plenum box. A different band division is possible after consultation and when required by the customer.

	x	t	a
DSC-...-R0-...	20	2	10
DSC-...-P0-...	16	2	15
DSC-...-S0-...-Z0-...	1	-	
DSC-...-S0-...-Z1-...	1	-	
DSC-...-S0-...-Z2-...	20	2	
DSC-...-S0-...-Z3-...	1	-	

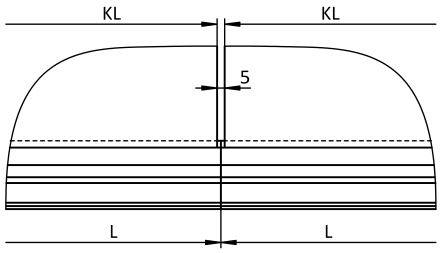
Installation opening in the length section:

EOL = BL + a

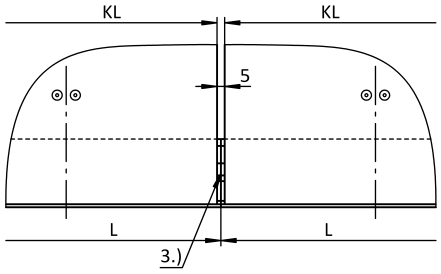
L = Length
DL = Difference distance
BL = Length of band
KL = Length of plenum box (KL = L-3)
DKL = Difference in length, plenum box (DKL = DL-3)
GKL = Total length of box (GKL = BL-3)
EÖL = Installation opening length

Butt joint of concealed mounting detail V, see Page 28.
For plenum box mounting, detail X/detail Y, see Page 29.
End pieces, for detail W see Page 12.
For the position of suspension holes view B, see Page 28.
Available sizes for plenum box, see Page 17 to Page 26.

Butt joint of permanent connection (-FV)
Detail V



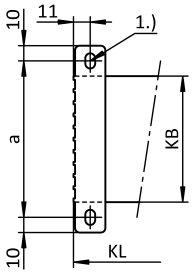
Butt joint of concealed mounting (-VM)
Detail V



3.) Seal butt joint on site (sealing tape)

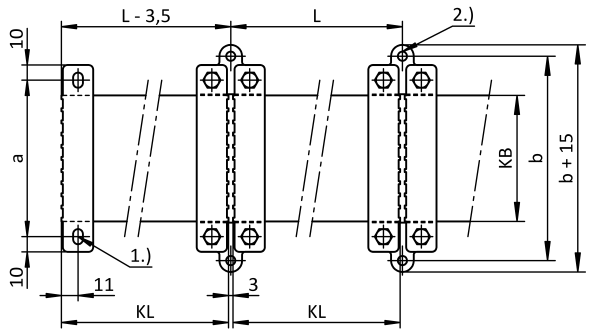
Position of the suspension holes
Single design

View B



Band design

View B



1.) Long hole Ø6.5x10

2.) Connection plate

Connection plate



Available sizes

Lateral connection (-S1/-S2)

	Mounting of box					
	-FV			-VM / -00		
	KB	a	b	KB	a	b
DSC-1	83	103	135	83	103	135
DSC-2	83	103	135	93	113	145
DSC-3	122	142	174	133	153	185
DSC-4	162	182	214	173	193	225

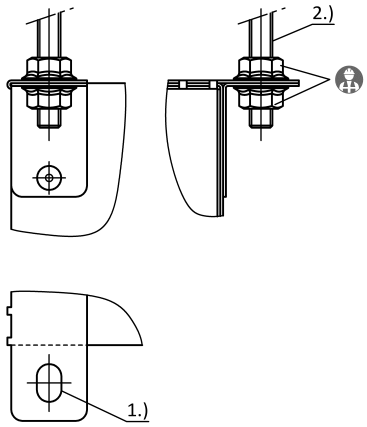
Available sizes

Connection from above (-S0)

	Mounting of box					
	-FV			-VM / -00		
	KB	a	b	KB	a	b
DSC-1	128	148	180	128	148	180
DSC-2	128	148	180	128	148	180
DSC-3	128	148	180	133	153	185
DSC-4	168	188	220	173	193	225

Plenum box suspension
Single design / band design
Detail X

with long hole ø6.5x10 (-E0, standard):

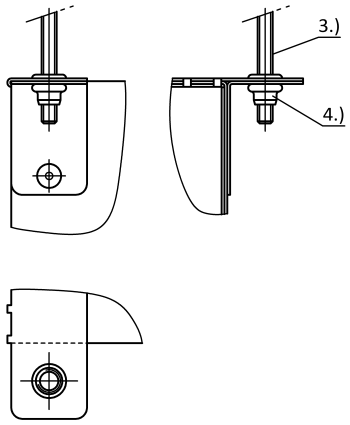


1.) Long hole ø6.5x10

2.) M6 / on site

with riveting nut M4 (-EM, at an extra charge):

At an extra charge, the plenum boxes can be fitted with M4 riveting nuts to facilitate ceiling mounting.



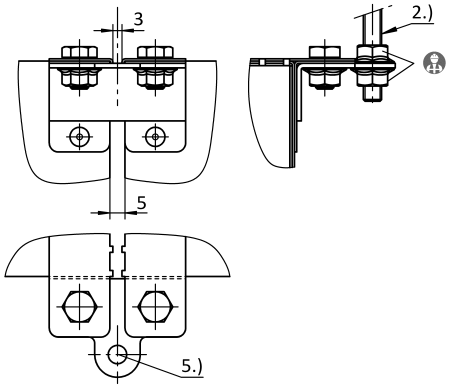
3.) M4 / on site

4.) Riveting nut M4

Band design
Detail Y

with pin hole ø6.1 (-E0, standard):

M6 / on site



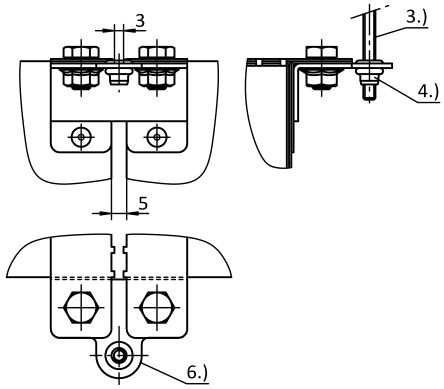
2.) M6 / on site

= on site

5.) Connection plate with pin hole ø6.1

with riveting nut M4 (-EM, at an extra charge):

At an extra charge, the connection plates can be provided with M4 riveting nuts to facilitate ceiling mounting.



3.) M4 / on site

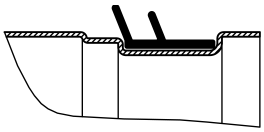
4.) Riveting nut M4

6.) Connection plate

Rubber lip seal (-GD0/-GD1), for ASK-24

- without rubber lip seal (-GD0) (standard)
- With rubber lip seal (-GD1) at the connection spigot

Detail Y

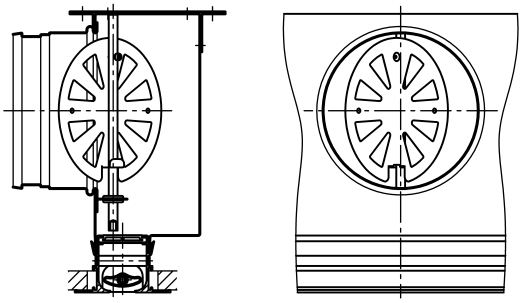


Damper (-DK0/-DK1/-DK2), for ASK-24

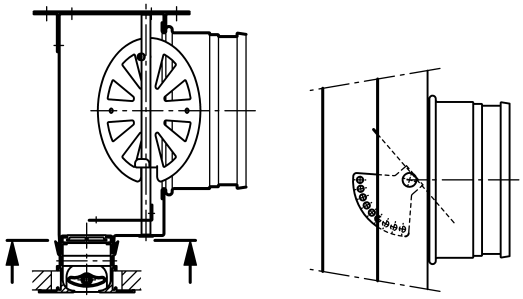
- Without damper (-DK0) (standard)
- with damper in plenum box (-DK1)
- with damper in the plenum box and cable-operated adjustment (-DK2)

- DK1

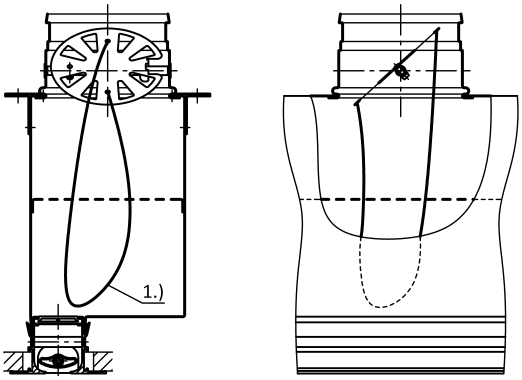
for lateral spigot (-S1)



for lateral spigot located on the opposite side (-S2)



-DK2, spigot from above (-S0, with cable-operated adjustment)

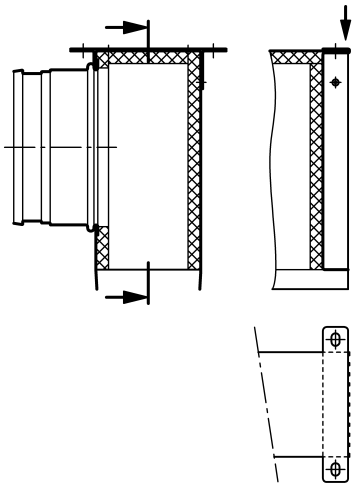


1.) Cable-operated adjustment (-SZV)

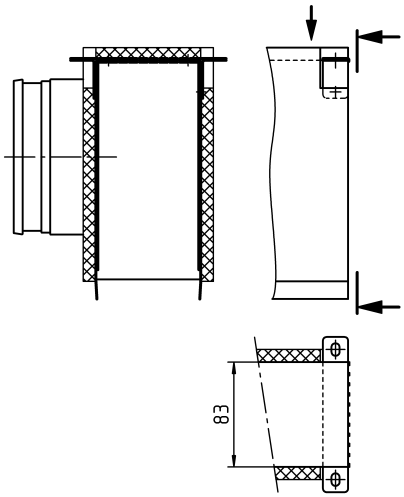
Insulation (-I0 / -Ii / -Ia), for ASK-24

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

with internal insulation (-Ii)



with external insulation (-Ia)



Corner angle 90° (-EW-24-...-090-...)

Corner angles can only be produced as dummy pieces, i.e., without a plenum box.

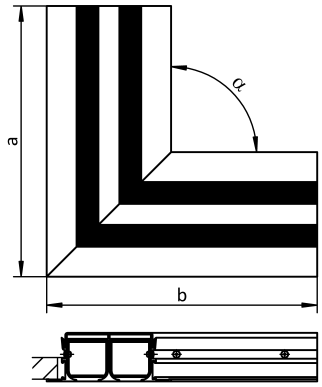
The corner angles are installed in the ceiling by means of suspension lugs (-AL, supplied loose).

The connection between the diffuser and corner angle is performed by means of fishplates. 4 fishplates are included in delivery (2 for each connection). They are supplied loose.

The corner angle is supplied loose as standard.

The standard side length on the left (a) or right (b) is 250 mm for DSC-1-... to DSC-3-... and 400 mm for DSC-4-... Other side lengths (a/b) are available upon request (minimum length = standard length).

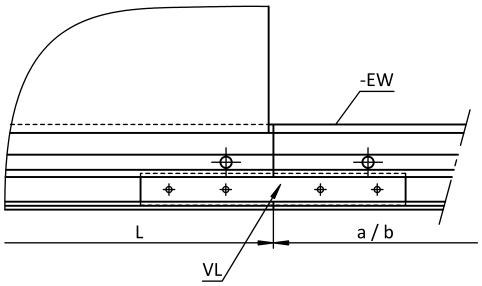
Values between α = 90° (-090, standard) and 170° (-170) are possible.



	a / b
DSC-1	250
DSC-2	250
DSC-3	250
DSC-4	400

a = left side length
b = right side length

Fishplate (-VL), for band design



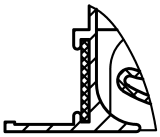
VL = Fishplate

EW = Corner angle

Detail fishplate corner angle

Frame profile:

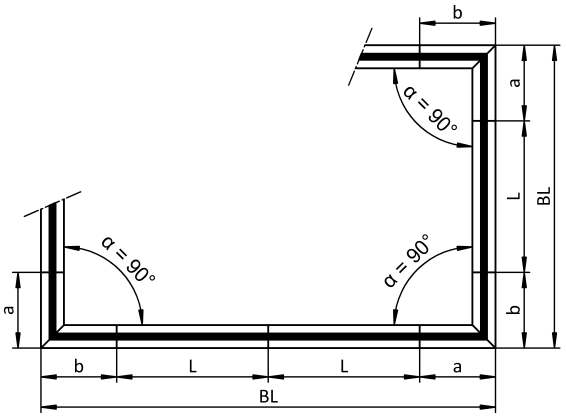
DSC-...-R0 / DSC-...-P0: DSC-...-S0-...-Z0:





Installation detail, corner angle

in band design



FASTENING METHODS

With plenum box

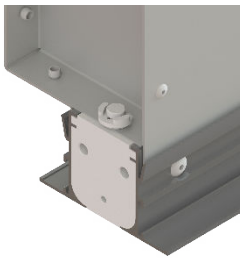
Permanent connection (-FV)

As standard for the models DSC-...-R0, DSC-...-S0 and DSC-...-P0.

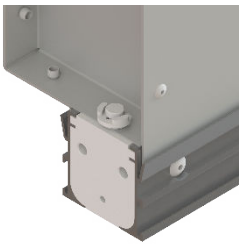
The slot diffuser is permanently connected to the plenum box.

(see Page 17 onwards)

DSC-...-R0 / DSC-...-P0



DSC-...-S0



Concealed mounting (-VM)

Possible for the models DSC-...-R0 / DSC-...-P0 and DSC-...-S0-...-Z2 (with additional profile).

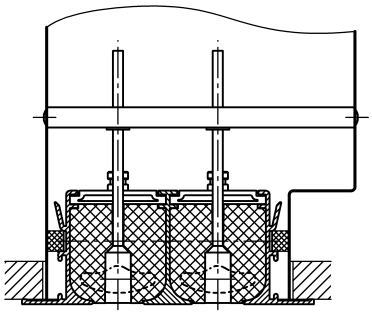
Not possible for the models DSC-...-S0-...-Z0 / DSC-...-S0-...-Z1 / DSC-...-S0-...-Z3.

The slot diffuser is screwed to the pole brace in the plenum box housing with concealed screws.

Frame with foam gasket.

Plenum box supplied loose from the factory.

(see Page 20 onwards)



Without plenum box

Mounting with counter pole brace (-GT)

Screws and counter pole brace are supplied loose (2 pieces).

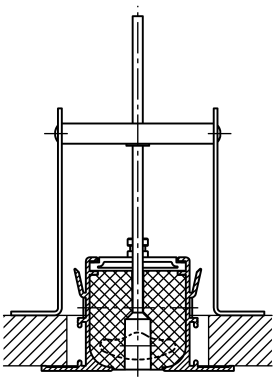
Possible for the models DSC-...-R0 / DSC-...-P0 and DSC-...-S0-...-Z2 (with additional profile).

Not possible for the models DSC-...-S0-...-Z0 / DSC-...-S0-...-Z1 / DSC-...-S0-...-Z3.

The slot diffuser is screwed to the counter pole brace (pole brace strap) with concealed screws (included in delivery).

For mounting, access on the rear is required!

(see Page 34)



Mounting with clamp strap (-KB)

Screws and clamp straps are supplied loose (2 pieces).

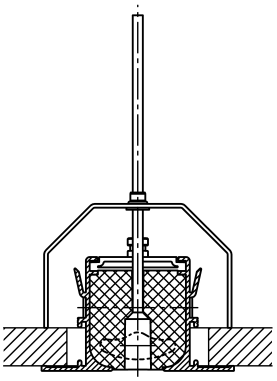
Possible for the models DSC-...-R0 / DSC-...-P0 and DSC-...-S0-...-Z2 (with additional profile).

Not possible for the models DSC-...-S0-...-Z0 / DSC-...-S0-...-Z1 / DSC-...-S0-...-Z3.

The slot diffuser is screwed to the clamp strap with concealed screws (included in delivery).

For mounting, access on the rear is not required!

(see Page 35)



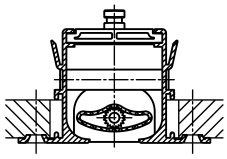
Screw mounting (-SM)
Screws must be provided on site.

Possible for the models DSC-...-R0 and DSC-...-P0.

Not possible for the model DSC-...-S0.

The slot diffuser is fixed with visible screws.

(see Page 36)



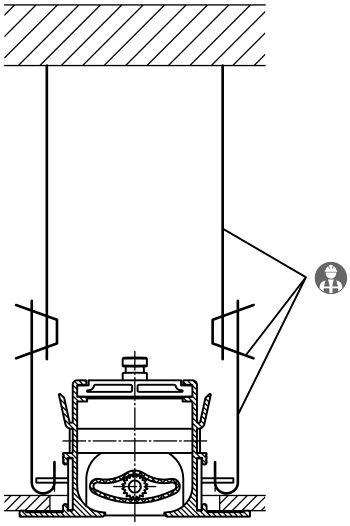
Mounting with suspension lugs (-AL)
4 pieces, supplied loose.

Possible for the models DSC-...-R0 and DSC-...-P0.

Not possible for the model DSC-...-S0.

The slot diffuser is fastened to 4 suspension brackets.

(see Page 16)

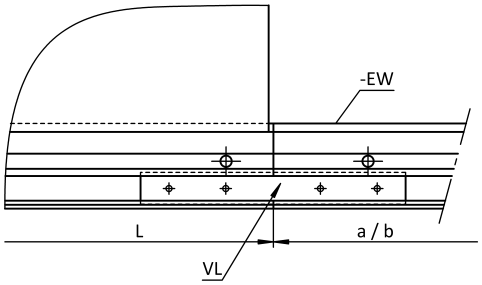


Fishplate (-VL)
4 pieces, supplied loose.

Only for connection of the corner angle to the slot diffuser in band design.

The corner angle is fixed with the help of the fishplates (2 on each side).

(see Page 31)



VL = Fishplate

EW = Corner angle

ASSEMBLY OVERVIEW

Mounting with counter pole brace (-GT)

Only possible without plenum box.

Screws and counter pole brace are supplied loose (2 pieces).

Possible for the models DSC-…-R0 / DSC-…-P0 and DSC-…-S0-…-Z2 (with additional profile).

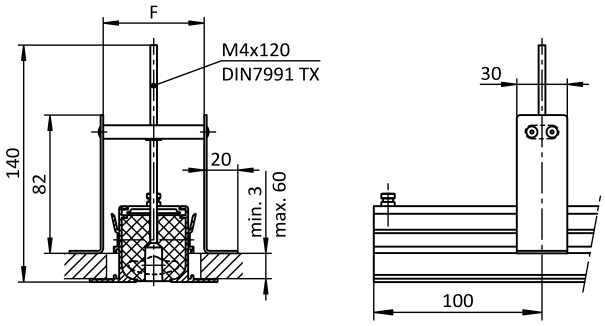
Not possible for the models DSC-…-S0-…-Z0 / DSC-…-S0-…-Z1 / DSC-…-S0-…-Z3.

The slot diffuser is screwed to the counter pole brace (pole brace strap) with concealed screws (included in delivery).

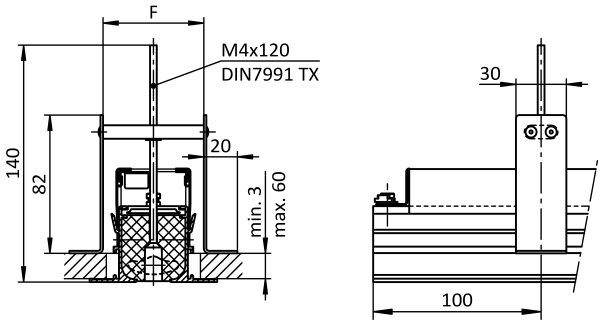
For mounting, access on the rear is required!

	F	c
DSC-1	60	-
DSC-2	100	40
DSC-3	140	79
DSC-4	180	119

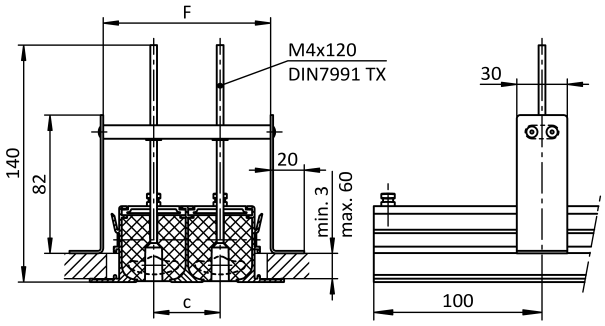
without hit-and-miss damper
DSC-1-…-SN



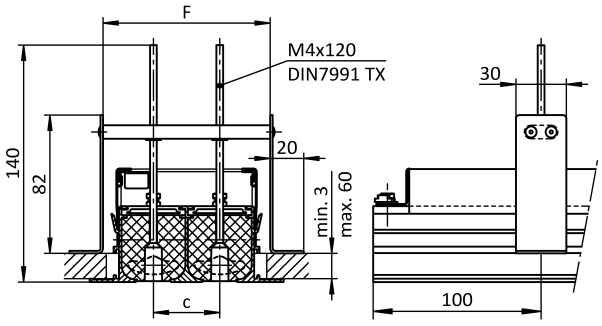
With hit-and-miss damper
DSC-1-…-SS



DSC-2 to 4-…-SN



DSC-2 to 4-…-SS



EOB = Installation opening width, see Page 9.

Attention: The maximum torque of the fastening screw is 0.5 Nm.

Mounting with clamp strap (-KB)

Only possible without plenum box.

Screws and clamp straps are supplied loose (2 pieces).

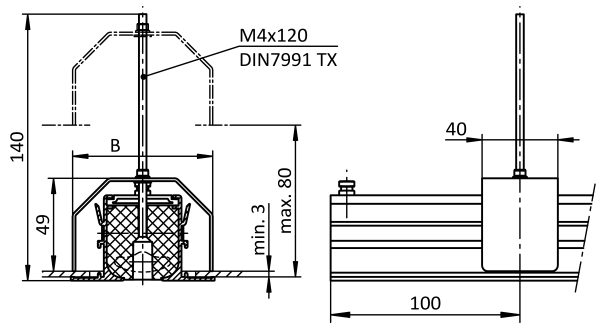
Possible for the models DSC-…-R0 / DSC-…-P0 and DSC-…-S0-…-Z2 (with additional profile).

Not possible for the models DSC-…-S0-…-Z0 / DSC-…-S0-…-Z1 / DSC-…-S0-…-Z3.

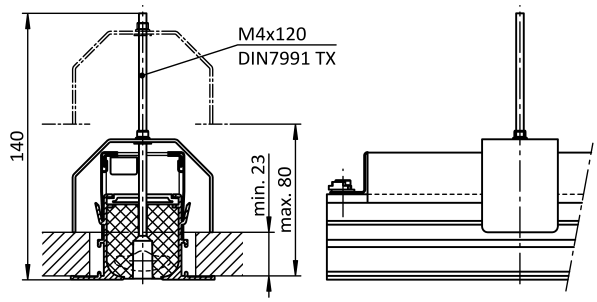
The slot diffuser is screwed to the clamp strap with concealed screws (included in delivery).

For mounting, access on the rear is not required!

DSC-…-SN (without hit-and-miss damper)



DSC-…-SS (with hit-and-miss damper)



	B
DSC-1	74
DSC-2	114
DSC-3	154
DSC-4	194

Mounting instructions for clamp strap

Introduce the screw through the plastic support for concealed mounting of the slot diffuser and screw it on the clamp strap.

Position the clamp straps in longitudinal direction and introduce them, together with the slot diffuser, into the ceiling.

Then pivot the clamp strap by about 90° by rotating the screw and lower it over the slot diffuser profile. Tighten the screw until the slot diffuser is firmly locked at the ceiling.

Attention: The maximum torque of the fastening screw is 0.5 Nm.

Screw mounting (-SM)

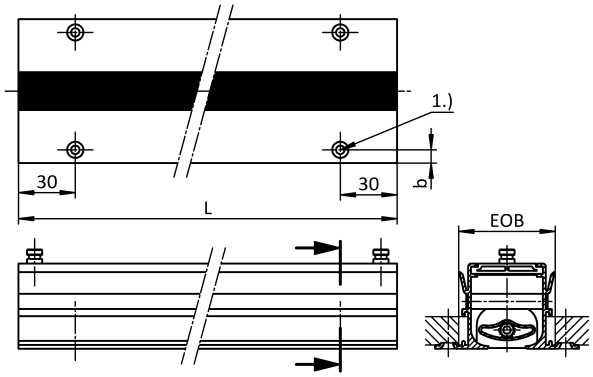
Only possible without plenum box.

During screw mounting, the slot diffuser is fixed with visible screws (provided on site).

Possible for the models DSC-...-R0 and DSC-...-P0.

Not possible for the model DSC-...-S0.

Arrangement, number and size of the bores is the same for the models with 2, 3, and 4 slots.



1.) Indentation for slotted shallow-raised countersunk-head tapping screw DIN ISO 7051 pitch 3.9

	EOB	
	standard	**Min. ***
DSC-1	56	51
DSC-2	95	91
DSC-3	135	131
DSC-4	175	171

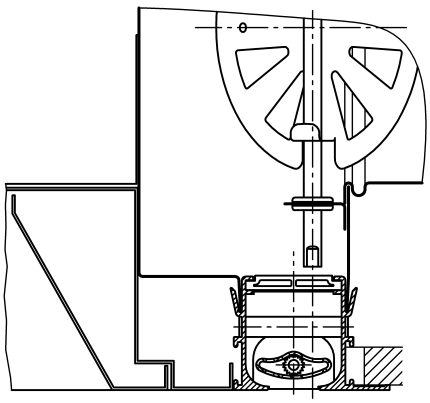
	b
DSC-...-R0	7
DSC-...-P0	5

* recommended ceiling cutout for screw mounting (-SM)

Installation

Fitting to air-handling lights

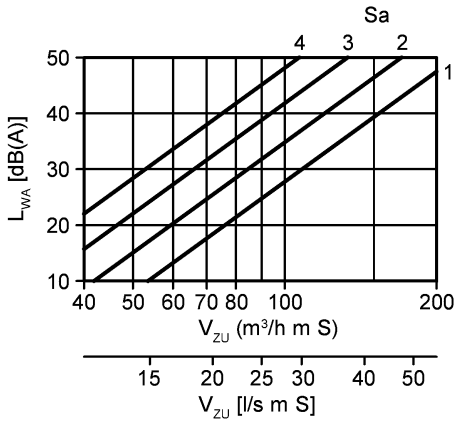
To obtain a perfectly flush fit, when attaching slot diffusers to air-handling lights, the external profile can be attached on one side and the special profile "S" on the other side.



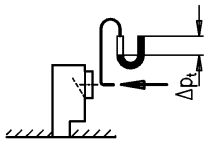
TECHNICAL DATA

Pressure loss and sound power level

Sound level, with damper (supply air), L=1000

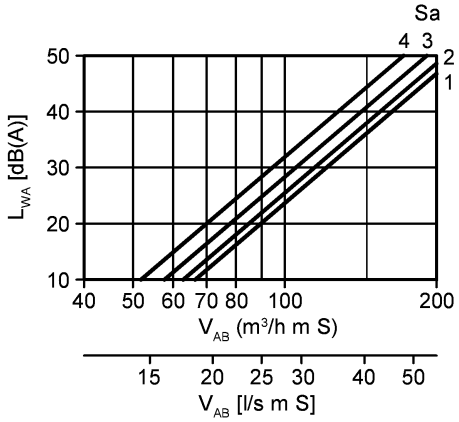


Damper position "OPEN"

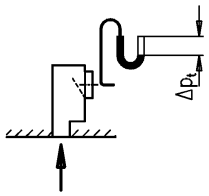


Correction for damper "CLOSED" + 4 dB(A)

Sound level, with damper (return air), L=1000



Damper position "OPEN"

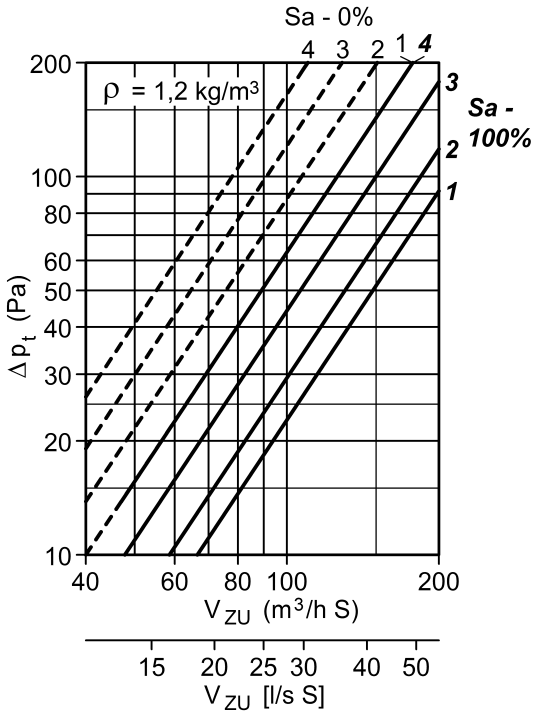


Correction for damper "CLOSED" + 16 dB(A)

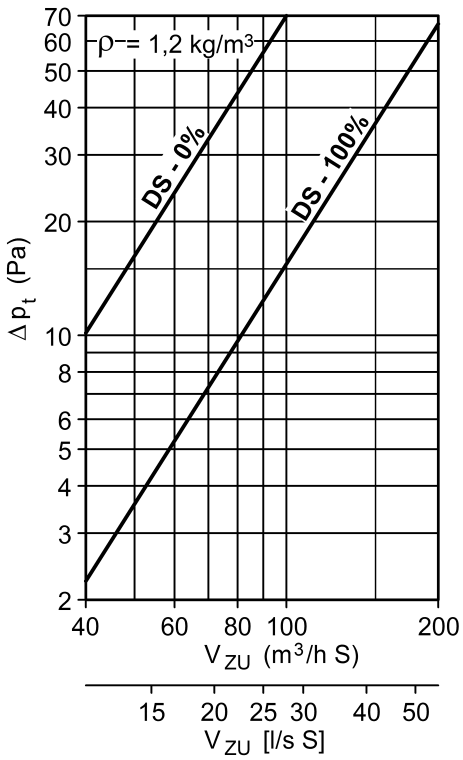
Correction of length (supply and exhaust air)

L	(m)	1	1,5	2	2,5	3	4	5
KF	[dB(A)]	0	1,8	3	4	4,7	6	7

Total pressure loss (supply air), L = 1000



Total pressure loss (return air), L = 1000



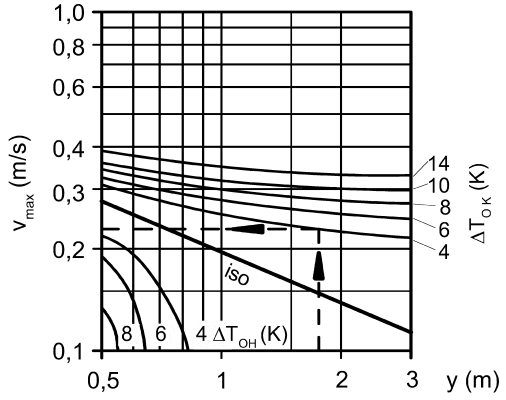
Damper position (DS):
OPEN = 100%
CLOSED = 0%

Maximum end velocity of jet

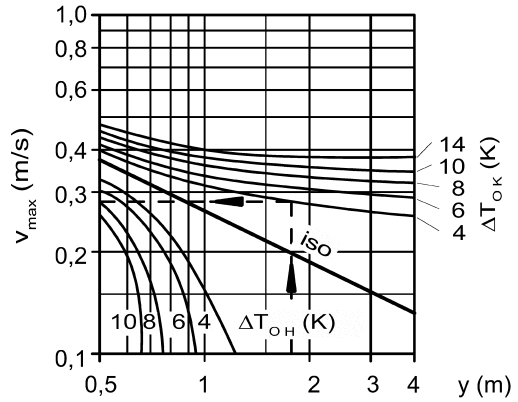
Blade position -V

V_{ZU} = 30 m³/h m S [8.3 l/s m S]

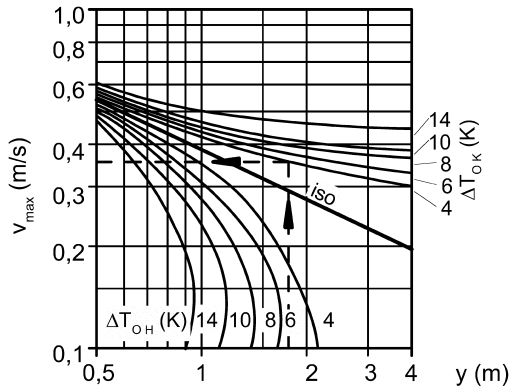
Subject to design changes. No return possible!



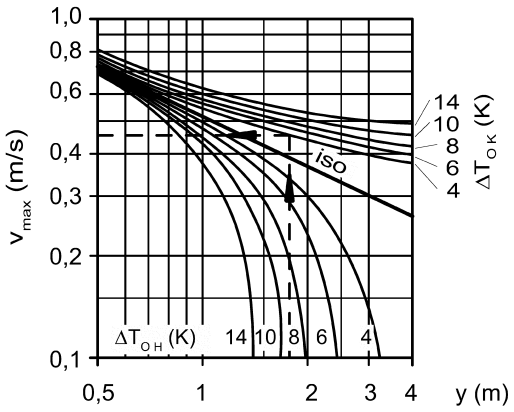
V_{ZU} = 40 m³/h m S [11.1 l/s m S]



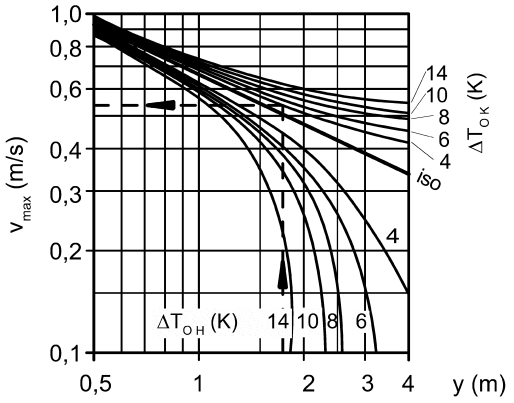
V_{ZU} = 60 m³/h m S [16.7 l/s m S]

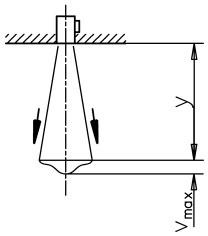


V_{ZU} = 80 m³/h m S [22.2 l/s m S]



V_{ZU} = 100 m³/h m S [27.8 l/s m S]





DSC-1: v_{max} x 1

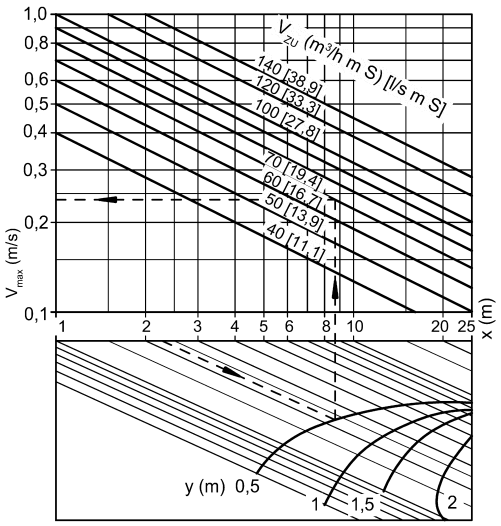
DSC-2: v_{max} x 1.3

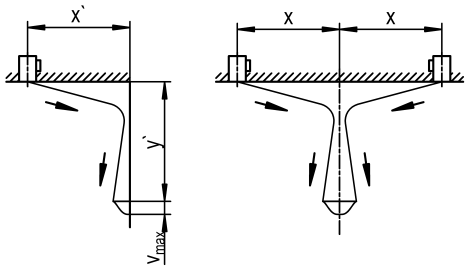
DSC-3: v_{max} x 1.6

DSC-4: v_{max} x 1.9

Slot diffuser DSC-...-Z (supply air)

Blade position -L/-R, one-way throw





x = x` + y`

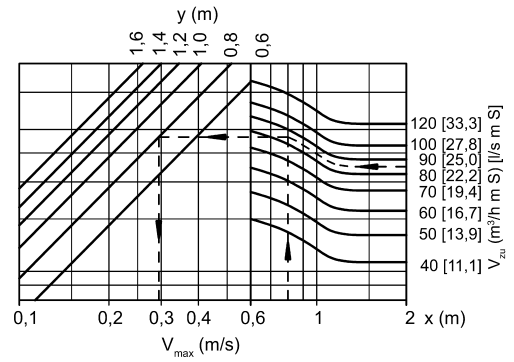
DSC-1: v_{max} x 1.0

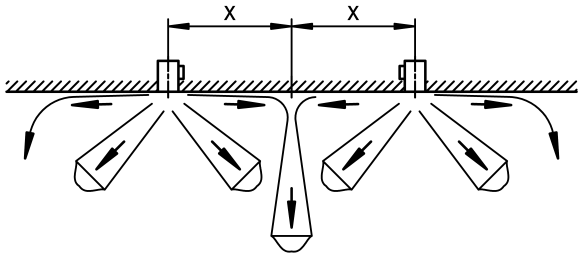
DSC-2: v_{max} x 1.4

DSC-3: v_{max} x 1.7

DSC-4: v_{max} x 2.0

Blade position -D, multi-directional throw





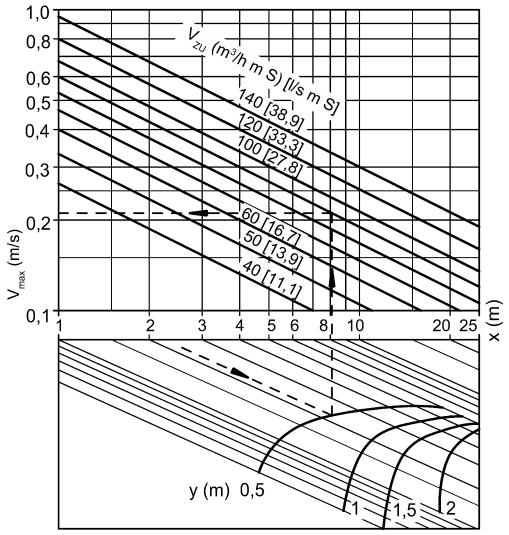
DSC-1: v_{max} x 1.0

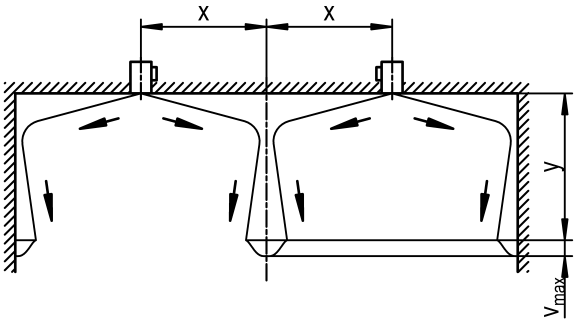
DSC-2: v_{max} x 1.4

DSC-3: v_{max} x 1.45

DSC-4: v_{max} x 2.0

Blade position -B, two-way throw





DSC-1: v_{max} x 1.0

DSC-2: v_{max} x 1.4

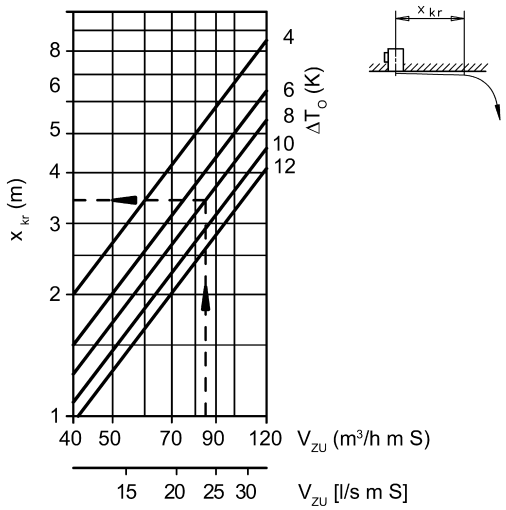
DSC-3: v_{max} x 1.86

DSC-4: v_{max} x 2.0

Critical throw

Slot diffuser DSC-...-Z (supply air)

Blade position -L / -R / -B / -D



DSC-1: x_{kr} x 1.00

DSC-2: x_{kr} x 1.26

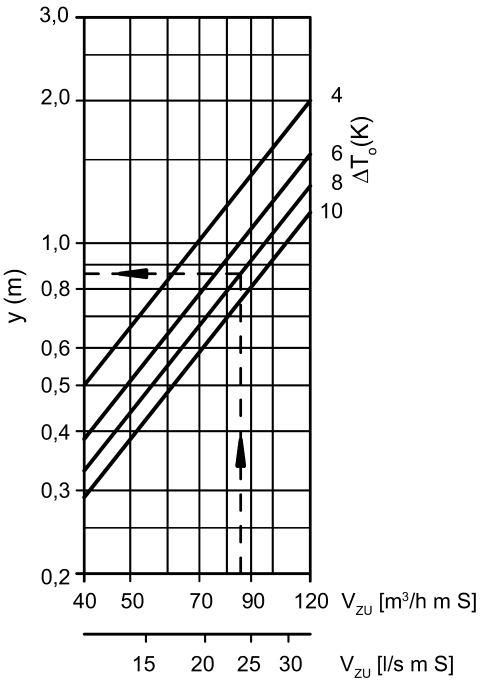
DSC-3: x_{kr} x 1.44

DSC-4: x_{kr} x 1.64

Maximum penetration

Slot diffuser DSC-...-Z (supply air)

Blade position -D, multi-directional throw



DSC-1: y x 1

DSC-2: y x 1.1

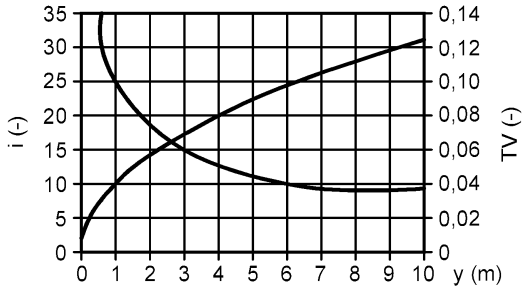
DSC-3: y x 1.2

DSC-4: y x 1.3

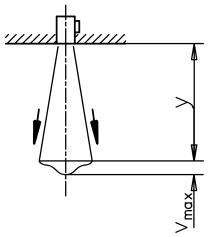
Temperature ratios

Slot diffuser DSC-...-Z (supply air)

Blade position -V (vertical throw)



(temperature and induction ratio)



DSC-1: TV x 1.0

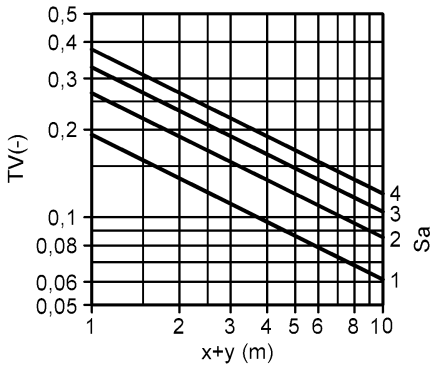
DSC-2: TV x 1.3

DSC-3: TV x 1.6

DSC-4: TV x 1.9

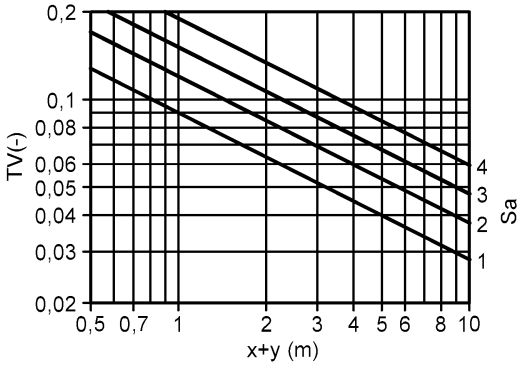
Slot diffuser DSC-...-Z (supply air)

Blade position -L / -R (one-way throw)



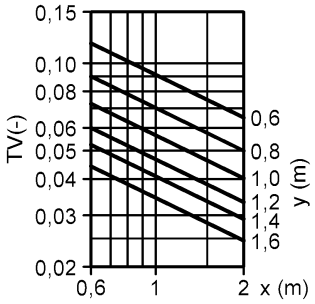
Slot diffuser DSC-...-Z (supply air)

Blade position -B (two-way throw)



Slot diffuser DSC-...-Z (supply air)

Blade position -D (multi-directional throw)



DSC-1: TV × 1

DSC-2: TV × 1.4

DSC-3: TV × 1.7

DSC-4: TV × 2.0

LEGEND

v_{max}	(m/s)	=	Maximum end velocity of jet
v_{mittel}	(m/s)	=	average end velocity of jet ($v_{average}$ = v_{max} x 0.5)
ΔT_{OK}	(K)	=	Temperature difference between supply air temperature and room temperature in cooling mode
ΔT_{OH}	(K)	=	Temperature difference between air supply and room temperature in heating mode
y	(m)	=	vertical throw
i	(-)	=	Induction ratio ($i = V_X / V_{ZU}$)
V_X	(m³/h) [l/s]	=	Total air jet volume at point x
V_{ZU}	(m³/h) [l/s]	=	Supply air volume
V_{ZU}	(m³/h m S)	=	Total volumetric flow per metre per slot
V_{ZU}	[l/s m S]	=	Total volumetric flow per metre per slot
V_{AB}	(m³/h m S)	=	Total volumetric flow per metre per slot
V_{AB}	[l/s m S]	=	Total volumetric flow per metre per slot
TV	(-)	=	Temperature ratio ($TV = \Delta T_X / \Delta T_O$)
ΔT_X	(K)	=	Temperature difference at point x
ΔT_O	(K)	=	Temperature difference between supply air temperature and room temperature ($\Delta T_O = t_{ZU} - t_R$)
iso	(-)	=	isothermal
Sa	(-)	=	Number of slots
x_{kr}	(m)	=	Critical throw
x	(m)	=	horizontal jet path
x+y	(m)	=	Horizontal + vertical throw
P_{dyn}	(Pa)	=	dynamic pressure
P_{stat}	(Pa)	=	Static pressure
Δp_t	(Pa)	=	Total pressure loss
ρ	(kg/m³)	=	Density
AL	(-)	=	Diffuser length
KF	(-)	=	Correction factor
L	(mm)	=	Length
BL	(mm)	=	Length of band
DL	(mm)	=	Difference distance
KHS	(mm)	=	Height of box
GH	(mm)	=	Total height
KB	(mm)	=	Width of plenum box
KL	(mm)	=	Length of box
D	(mm)	=	Diameter
t_{zu}	(°C)	=	Supply air temperature
t_R	(°C)	=	Room temperature
EOB	(mm)	=	Installation opening width
EOL	(mm)	=	Installation opening length
DS	(%)	=	Damper position
	(-)	=	on site

SLOT DIFFUSER ORDER CODE

01	02	03	04	05	06	07
Type	Model	Air throw	Frame profile	Frame surface	Blade colour	Blade position for air jet
Example						
DSC	-2	-Z	-R0	-9010	-L9005	-V

08	09	10	11	12	13	14
Single / band design	Length	Mounting	End piece	Additional profile	Dummy piece	Hit-and-miss damper
Example						
-N	-01000	-FV	-ES	-Z0	-BS0	-SN

Sample

DSC-2-Z-R0-9010-L9005-V-N-01000-FV-ES-Z0-BS0-SN

DSC slot diffuser | 2-slot | supply air | STANDARD frame profile | aluminium painted to RAL colour 9010 (white) | blades made of plastic material (hard PVC), colour similar to RAL 9005 (black) | blades with vertical throw | single design | length L = 1000 mm | permanent connection to plenum box | with end piece | without additional profile | without dummy piece | without hit-and-miss damper

Order details

01 - Type

DSC = Slot diffuser DSC

02 - Model

1 = 1-slot
2 = 2-slots
3 = 3-slots
4 = 4-slots

03 - Air throw

Z = supply air (with blades)
A = return air (without blades, with perforated plate)

04 - Frame profile

R0 = Frame profile STANDARD
S0 = narrow frame profile
P0 = special frame profile

05 - Frame surface

ELOX = Natural colour anodised aluminium (standard)
9005 = aluminium painted to RAL colour 9005 (black)
9010 = Aluminium painted to RAL colour 9010 (white)
xxxx = aluminium painted in an RAL colour, freely selectable (at an extra charge, always with 4 digits)

06 - Blade colour

00000 = without blades (only for return air).
L9005 = blades made of plastic material (hard PVC), colour similar to RAL 9005 (black) (standard)
L9006 = blades made of plastic material (hard PVC), colour similar to RAL 9006 (white aluminium)
L9010 = blades made of plastic material (hard PVC), colour similar to RAL 9010 (white)
Lxxxx = blades made of plastic material (hard PVC), painted to a freely selectable RAL colour (always with five digits)

07 - Blade position for air jet

0 = without blades, for return air with perforated plate
V = blades vertical throw
L = blades with horizontal one-way throw to the left
R = Blades with one-way horizontal throw to the right
B = Blades with horizontal two-way throw
D = Blades with horizontal diverging throw (multi-direction throw) (standard)

08 - Single / band design

N = single design (length max. 1500 mm)
B = Band design (available lengths according to SCHAKO standard for band design)

09 - Length

01000 = Length L = 1000 mm
01500 = Length L = 1500 mm
xxxxx = length (L/BL) in mm, freely selectable (always with 5 digits)
(can be fitted with a plenum box in case of single design lengths L = ≥400 mm to ≤1500 mm.)

10 - Mounting

00 = without connection (only possible without plenum box)
FV = permanent connection to plenum box or hit-and-miss damper (standard)
VM = concealed mounting with box (only with plenum box, possible for the models DSC-…-R0 / DSC-…-P0 and DSC-…-S0-…-Z2 [with additional profile])
GT = GT = mounting with counter pole brace (only possible without plenum box) (possible for the models DSC-…-R0 / DSC-…-P0 and DSC-…-S0-…-Z2 [with additional profile])
KB = mounting with clamp strap (not for use with plenum box), screws and clamp strap supplied loose (pair) (possible for the models DSC-…-R0 / DSC-…-P0 and DSC-…-S0-…-Z2 [with additional profile])
SM = screw mounting (only possible without plenum box)
AL = suspension lugs (only possible without plenum box)

11 - End piece

E0 = without end piece (standard)
ES = with end piece (pair, supplied loose)
EB = with end piece (mounted ex-works on both sides)
EL = with end piece mounted ex works on the left
ER = with end piece mounted ex works on the right

12 - Additional profile

Z0 = without additional profile (standard)
Z1 = with additional profile Z I
Z2 = with additional profile Z II
Z3 = with additional profile Z III
Additional profiles only possible with frame profile DSC-…-S0.

13 - Dummy piece

BS0 = without dummy piece (standard)
BS1 = with dummy piece made of sheet steel painted to RAL 9005 (black).
Dummy piece only possible without plenum box and hit-and-miss damper. Possible from length L ≥ 200 mm. Mounting only possible with suspension lugs (-AL, standard in connection with active diffuser DSC-…-FV-…), counter pole brace (-GT) or clamp strap (-KB).

14 - Hit-and-miss damper

SN = Without hit-and-miss damper (standard)
SS = With hit-and-miss damper (only possible without a plenum box)
(Mounting for DSC-…-R0 and DSC-…-P0: with screw mounting [-SM, standard] and with counter pole brace [-GT] / mounting for DSC-…-S0: screw mounting not possible, with counter pole brace [-GT] and only with additional profile -Z2)

PLENUM BOX ORDER CODE

01	02	03	04	05	06	07	08
Type	Diffuser	Model	Single / band design	Length	Mounting of box	Material	Damper
Example							
ASK	-24	-2	-N	-01000	-FV	-SV	-DK1

09	10	11	12	13	14	15
Rubber lip seal	Insulation	Height of box	Box neck	Spigot position	Spigot diameter	Suspension
-GD1	-I0	-KHS	-KVS	-S1	-SDS	-E0

Sample

ASK-24-2-N-01000-FV-SV-DK1-GD1-I0-KHS-KVS-S1-SDS-E0

Plenum box for slot diffuser | for DSC | 2-slot | single design | length L = 1000 mm | permanent connection | galvanised sheet steel | with damper | with rubber lip seal | without insulation | standard height of box | standard box neck | lateral spigot | standard spigot diameter | without riveting nut

Order details

01 - Type

ASK = plenum box for slot diffuser

02 - Diffuser

24 = for DSC

03 - Model

1 = 1-slot
2 = 2-slots
3 = 3-slots
4 = 4-slots

04 - Single / band design

N = single design (length of box KL max. 1,500 mm)
B = Band design (available lengths according to SCHAKO standard for band design)

05 - Length

01000 = Length L = 1000 mm
01500 = Length L = 1500 mm
xxxxx = length (L/BL) in mm, freely selectable (always with 5 digits) (length of box KL = L-3 / total length of box GKL = BL-3, length min. 400 mm / max. 1500 mm)

06 - Mounting of box

FV = permanent connection (standard)
VM = concealed mounting (only possible for the models DSC-...-R0 / DSC-...-P0 and DSC-...-S0-...-Z2)
00 = without fastening (only possible without diffuser)

07 - Material

SV = Galvanised sheet steel (standard)

08 - Damper

DK0 = Without damper (standard)
DK1 = with damper (only with lateral spigot position [-S1/-S2], in the plenum box housing)
DK2 = with damper and cable-operated adjustment (SZV) (only with connection from above [-S0], in the connection spigot)

09 - Rubber lip seal

GD0 = Without rubber lip seal (standard)
GD1 = With rubber lip seal

10 - Insulation

I0 = Without insulation (standard)
Ii = with internal insulation
Ia = With external insulation

11 - Height of box

KHS = Height of plenum box standard
xxx = height of box in mm, freely selectable (always with 3 digits) (minimum height [GH] with spigot position S1+S2 and standard box neck = spigot diameter øD + 82 mm/with spigot position S0 = 180 mm)

12 - Box neck

KVS = Standard box neck
xxx = Box neck extension in mm, freely selectable (always with 3 digits). Box neck (not adjustable) from ≥ 45 mm to 200 mm possible.
Can only be used with 1-slot models, 2-, 3- and 4-slot models don't have a box neck.

13 – Spigot position

S0 = Spigot from above
S1 = lateral spigot (standard)
S2 = Lateral spigot located on the opposite side (only possible for 1-slot models)

14 – Spigot diameter

SDS = Spigot diameter standard
xxx = Spigot diameter (øD) in mm, freely selectable (always with 3 digits).

15 - Suspension

E0 = without riveting nut (standard)
EM = with riveting nut

ORDER CODE CORNER ANGLE

01	02	03	04	05
Type	Diffuser	Model	Frame profile	Frame surface
Example				
EW	-24	-2	-R0	-ELOX

06	07	08	09	10
Dummy profile colour	Angle between sides	Left-side length (a)	Right-side length (b)	Additional profile
-B9005	-090	-000	-000	-Z0

Sample

EW-24-2-R0-ELOX-B9005-090-000-000-Z0

Corner angle for slot diffuser | for DSC | 2-slot | STANDARD frame profile | natural colour anodised aluminium | aluminium painted similar to RAL colour 9005 (black) | angle α = 90° | standard length (L=250 mm) | standard length (L=250 mm) | without additional profile

Order details

01 - Type

EW = corner angle for slot diffuser

02 - Diffuser

24 = for DSC

03 - Model

1 = 1-slot
2 = 2-slots
3 = 3-slots
4 = 4-slots

04 - Frame profile

R0 = Frame profile STANDARD
S0 = narrow frame profile
P0 = special frame profile

05 - Frame surface

ELOX = Natural colour anodised aluminium (standard)
9005 = aluminium painted to RAL colour 9005 (black)
9010 = Aluminium painted to RAL colour 9010 (white)
xxxx = aluminium painted in an RAL colour, freely selectable (at an extra charge, always with 4 digits)

06 - Dummy profile colour

B9005 = aluminium painted similar to RAL colour 9005 (black) (standard)
B9006 = aluminium painted similar to RAL colour 9006 (white aluminium)
B9010 = aluminium painted similar to RAL colour 9010 (white)
Bxxxx = aluminium painted to a freely selectable RAL colour (always with 5 digits)

07 - Angle between sides

090 = Angle α = 90° (standard)
xxx = angle α as required (value between 90° [090] and 170° [170] possible) (always with 3 digits)

08 - Left-side length (a)

000 = standard length (1-, 2-, 3-slot L = 250 mm / 4-slot L = 400 mm)
xxx = length (L) in mm, freely selectable (minimum length = standard length) (always with 3 digits).

09 - Right-side length (b)

000 = standard length (1-, 2-, 3-slot L = 250 mm / 4-slot L = 400 mm)
xxx = length (L) in mm, freely selectable (minimum length = standard length) (always with 3 digits).

10 - Additional profile

Z0 = without additional profile (standard)

SPECIFICATION TEXT

Highly inductive slot diffuser, free cross-section, resistance and sound power level constant in all blade positions, suitable for use in rooms with a height between 2.6 m and 4 m.

Volumetric flows in m³/h per m at	35 dB(A)	40 dB(A)
DSC-1	131	156
DSC-2	203	242
DSC-3	234	279
DSC-4	253	302

Supply air model with pivoting air deflection blades in support blade profile shape made of plastic (hard PVC):

- colour similar to RAL 9005 (black, standard) (**-L9005**)
- colour similar to RAL 9006 (white aluminium) (**-L9006**)
- colour similar to RAL 9010 (white) (**-L9010**)
- painted to a freely selectable RAL colour (**-Lxxxx,** always with 5 digits)

Model: SCHAKO type **DSC-…-Z-…**

Return air model without air deflection blades (**-00000**), with perforated plate made of sheet steel painted to RAL 9005 (black), as cover screen

Model: SCHAKO type **DSC-…-A-…**

Model (number of slots):

- 1-slot (**-1**)
- 2-slots (**-2**)
- 3-slots (**-3**)
- 4-slots (**-4**)

Frame profile:

- Frame profile STANDARD (**-R0**)
- Narrow frame profile (**-S0**)
- Special frame profile (**-P0**)

Frame surface:

- Natural colour anodised aluminium (standard, **-ELOX**)
- aluminium painted to:
  - RAL colour 9005 (black) (**-9005**)
  - RAL colour 9010 (white) (**-9010**)
  - a different RAL colour, freely selectable (**-xxxx**) (always with 4 digits)

Blade position for air jet:

- without blades, for return air with perforated plate (**-0**)
- blades with vertical throw (**-V**)
- blades with horizontal one-way throw to the left (**-L**)
- blades with horizontal one-way throw to the right (**-R**)
- blades with horizontal two-way throw (**-B**)
- blades with horizontal diverging throw (multi-direction throw) (standard) (**-D**)

Length / Model:

Single design (**-N**)

- Length L = 1000 mm (**-N-01000**)
- Length L = 1500 mm (**-N-01500**)
- Length (L) in mm, freely selectable (**-N-xxxxx**, always with 5 digits).
  (can be fitted with a plenum box in case of single design lengths L = ≥400 mm to ≤1500 mm)

Band design (**-B**)

- Length (BL) in mm, as band (**-B-xxxxx**)
  (Available lengths according to SCHAKO standard). With connecting pins, supplied loose (2 for each connection).

Mounting:

- without connection (**-00**)
  - Only possible without plenum box and without hit-and-miss damper
- Permanent connection with plenum box (**-FV**)
  - Only possible with plenum box
  - As standard for the models DSC-…-R0 / DSC-…-S0 and DSC-…-P0
  - The slot diffuser is permanently connected to the plenum box.
- Concealed mounting with plenum box (**-VM**)
  - Only possible with plenum box
  - Possible for the models DSC-…-R0 / DSC-…-P0 and DSC-…-S0-…-Z2 (with additional profile)
  - Not possible for the models DSC-…-S0-…-Z0 / DSC-…-S0-…-Z1 / DSC-…-S0-…-Z3
  - The slot diffuser is screwed to the pole brace in the plenum box housing with concealed screws.
  - Frame with foam gasket
  - Plenum box supplied loose from the factory
- Mounting with counter pole brace (**-GT**)
  - Only possible without plenum box
  - Screws and clamp straps are supplied loose (2 pieces)
  - Pole brace traps consisting of folded galvanised sheet steel and pole brace made of extruded aluminium profile with DIN thread.
  - Possible for the models DSC-…-R0 / DSC-…-P0 and DSC-…-S0-…-Z2 (with additional profile)
  - Not possible for the models DSC-...-S0-...-Z0 / DSC-...-S0-...-Z1 / DSC-…-S0-...-Z3
  - The slot diffuser is screwed to the counter pole brace (pole brace strap) with concealed screws (included in delivery).
  - For mounting, access on the rear is required!
- Mounting with clamp strap (**-KB**)
  - Only possible without plenum box
  - Screws and clamp straps are supplied loose (2 pieces).
  - Clamp strap made of galvanised sheet steel
  - Possible for the models DSC-…-R0 / DSC-…-P0 and DSC-…-S0-…-Z2 (with additional profile)
  - Not possible for the models DSC-...-S0-...-Z0 / DSC-...-S0-...-Z1 / DSC-…-S0-...-Z3

Subject to design changes. No return possible!

- The slot diffuser is screwed to the clamp strap with concealed screws (included in delivery).
- For mounting, access on the rear is not required!

- Screw mounting (**-SM**)
  - Only possible without plenum box
  - Screws must be provided on site
  - Possible for the models DSC-...-R0 and DSC-----P0
  - Not possible for the model DSC-...-S0
  - The slot diffuser is fixed with visible screws.
- Mounting with suspension lugs (**-AL**)
  - Only possible without plenum box
  - 4 pieces, supplied loose
  - Possible for the models DSC-…-R0 and DSC-…-P0
  - Not possible for the model DSC-...-S0
  - The slot diffuser is fastened to 4 suspension brackets.
  - Suspension lug made of galvanised sheet steel, with holes for hook mounting

Accessories:

- End pieces (-E0 / -ES / -EB / -EL / -ER)
  - without end piece (-E0) (standard)
  - with end pieces, made of aluminium (same colour as frame):
    - supplied loose (-ES, pair) (standard)
    - mounted ex works on both sides (-EB)
    - mounted ex works on the left side (-EL)
    - mounted ex works on the right side (-ER)
- Additional profile (-Z0 / -Z1 / -Z2 / -Z3)
  - without additional profile (-Z0) (standard)
  - with additional profile made of aluminium (same colour as frame, only possible for DSC-…-S0):
    - Z I (-Z1), connection of ceiling panels
    - Z II (-Z2), connection of panelled ceilings
    - Z III (-Z3), connection of ceiling panels
- Dummy piece (-BS0 / -BS1)
  - without dummy piece (-BS0) (standard).
  - with dummy piece (-BS1):
    - made of sheet steel painted to RAL 9005 (black)
    - only possible without plenum box and hit-and-miss damper
    - with fastening clips for mounting on the slot diffuser
    - possible from length L ≥ 200 mm
    - Mounting only possible with suspension lugs (-AL, standard in connection with active diffuser DSC-…-FV-…), counter pole brace (-GT) or clamp strap (-KB)
- Hit-and-miss damper (-SN / -SS)
  - without hit-and-miss damper (-SN) (standard)
  - with hit-and-miss damper (-SS).
    - made of electrolytically galvanised sheet steel
    - only possible without plenum box
    - Mounting:
      - DSC-…-R0 / DSC-…-P0:
        - With screw mounting (-SM, standard)
        - Mounting with counter pole brace (-GT)
      - DSC-…-S0:
        - Screw mounting not possible.
        - Mounting with counter pole brace (-GT)
        - Only possible for models with additional profile -Z2. Not possible for models without additional profile and models with additional profiles -Z1 and -Z3.
- Plenum box (-ASK-24), with mounting brackets.
  - Model (number of slots):
    - 1-slot (-1)
    - 2-slots (-2)
    - 3-slots (-3)
    - 4-slots (-4)
  - Single / band design:
    - Single design (-N, length of box KL max. 1500 mm)
    - Band design (-B, available lengths according to SCHAKO standard for band design)
  - Length:
    - length L = 1000 mm (-01000) (KL = 997 mm)
    - length L = 1500 mm (-01500) (KL = 1497 mm)
    - length (L/BL) in mm, freely selectable (-xxxxx, always with 5 digits)

      (length of box KL = L-3 / total length of box GKL = BL-3, can be fitted with a plenum box in case of single design lengths L = ≥ 400 mm to ≤ 1500 mm)
  - Mounting of box:
    - permanent connection (-FV) (standard)
    - Concealed mounting (-VM) (only possible for the models DSC-...-R0 / DSC-...-P0 and DSC-...-S0-...-Z2)
    - without fastening (only possible without diffuser) (-00)
  - Material:
    - Galvanised sheet steel (-SV) (standard)
  - Damper:
    - Without damper (-DK0) (standard)
    - with damper made of galvanised sheet steel, in the connection spigot (-DK1) for simple air volume regulation (only for spigot position [-S1/-S2])
    - with damper made of galvanised sheet steel, in the connection spigot and with cable-operated adjustment (-DK2), for simple air volume regulation (only for spigot position from above [-S0])
  - Rubber lip seal:
    - without rubber lip seal (-GD0) (standard)
    - With rubber lip seal (-GD1) at the connection spigot
  - 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 box:

- Standard height of box (-KHS)
- height of box in mm, freely selectable (-xxx, always with 3 digits)
  (minimum height [GH] with spigot position S1+S2 and standard box neck = spigot diameter øD + 82 mm / with spigot position S0 = 180 mm)
- Box neck:
  - standard box neck (-KVS) (KVS = 45 mm)
  - Box neck extension in mm, freely selectable (-xxx, always with 3 digits), Box neck (not adjustable) from ≥45 mm to 200 mm possible.
    Can only be used with 1-slot models, 2-, 3- and 4-slot models don't have a box neck.
- Spigot position:
  - Spigot from above (-S0)
  - Lateral spigot (-S1) (standard)
  - Lateral spigot located on the opposite side (-S2) (only possible for 1-slot models)
- Spigot diameter:
  - Standard spigot diameter (-SDS)
  - spigot diameter (øD) in mm, freely selectable (-xxx, always with 3 digits)
- Suspension:
  - without riveting nut (-E0) (standard)
  - with riveting nut (-EM), made of brass
- with air diffuser plate (FQ = 46 %), made of galvanised sheet steel, (only for models with spigot from above)

- corner angles (-EW-24), frame and dummy profile made of extruded aluminium profile. Mounting with suspension lugs (-AL), supplied loose
  - Model (number of slots):
    - 1-slot (-1)
    - 2-slots (-2)
    - 3-slots (-3)
    - 4-slots (-4)
  - Frame profile:
    - Frame profile STANDARD (-R0)
    - Narrow frame profile (-S0)
    - Special frame profile (-P0)
  - Frame surface:
    - Natural colour anodised aluminium (standard, -ELOX)
    - aluminium painted to:
      - RAL colour 9005 (black) (-9005)
      - RAL colour 9010 (white) (-9010)
      - a freely selectable RAL colour (-xxxx, always with 4 digits)
  - Dummy profile colour:
    - Dummy profile made of painted aluminium:
      - colour similar to RAL 9005 (black) (-B9005, standard)
      - colour similar to RAL 9006 (white aluminium) (-B9006)
      - colour similar to RAL 9010 (white) (-B9010)
      - RAL colour freely selectable (-Bxxxx) (always with 5 digits)
  - Angle between sides:
    - angle α = 90° (-090) (standard)
    - angle (α) as required (-xxx), values between α = 90° (-090, standard) and 170° (-170) are possible (always with 3 digits).
  - Left side length (a):
    - standard length, 1-, 2-, 3-slot L = 250 mm / 4-slot L = 400 mm (-000).
    - length (L) in mm, freely selectable (-xxx) (minimum length = standard length) (always with 3 digits).
  - Right side length (b):
    - standard length, 1-, 2-, 3-slot L = 250 mm / 4-slot L = 400 mm (-000).
    - length (L) in mm, freely selectable (-xxx) (minimum length = standard length) (always with 3 digits).
  - with 4 fishplates (-VL, included in delivery) made of aluminium (same colour as frame), supplied loose.
  - Additional profile:
    - without additional profile (-Z0) (standard)