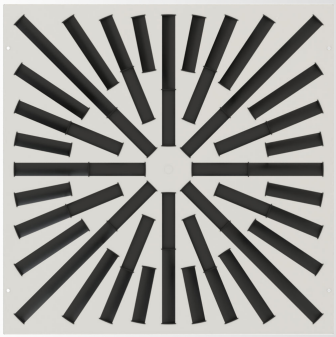
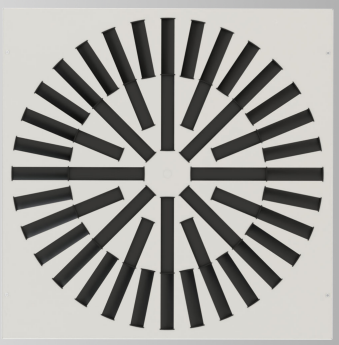




DQJ

Ceiling swirl diffuser

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DESCRIPTION

The ceiling swirl diffuser, type DQJ-Q/S-SR-... / DQJ-Q/S-SQ-... / DQJ-R-..., is particularly suitable for installation in **comfort rooms with high air change rates**. Unlike the conventional swirl diffusers, the **air deflection blades can also be adjusted at a later stage**. This can be necessary when obstacles on site obstruct the air flow.

The diagrams clearly show the influence the blade position has on the radial propagation of the jet. **The blades can be adjusted to achieve throw patterns from horizontal to vertical.** This can be important, for example, if the air jet is to be directed toward a specific point where high heat loads are present. In difficult cases, the position of the blades can be determined by carrying out flow tests at the SCHAKO laboratory. Various throw patterns can be set ex works. Unless stated otherwise, air throw pattern "B" will be delivered.

The air diffuser is particularly suitable **for installations with variable volumetric flow.** A **stable jet pattern** is guaranteed by the high exit velocities. Even at a low volumetric flow the jet does not sink abruptly from the ceiling.

If the "critical throw" x_{kr} (m) parameter is smaller than the "horizontal throw" x (m) parameter for your model, then the calculation for the maximum end velocity of jet V_{max} (m/s) is based on the "critical throw" x_{kr} (m) and not on the "horizontal throw" x (m) parameter.

A plenum box with fixing lugs can be fitted to the ceiling swirl diffuser (SK-Q-... for DQJ-Q/S-SR-... / DQJ-Q/S-SQ-..., SK-R-... for DQJ-R-SR-...). A perforated straightener is installed in the supply air version and for the return air version, the plenum box is painted on the inside to RAL 9005 (black, standard). In addition, the plenum box can be fitted (at an extra charge) with various components such as damper (-DK...), volumetric flow meter (-VME1), ROB version (-ROB1) (only possible for SK-Q-... plenum box) and rubber lip seal (-GD1). The damper (-DK1) at the connection spigot is for air volume regulation and adjustable from below (only DQJ-Q/S-SR-... / DQJ-Q/S-SQ-...). For plenum boxes SK-Q-..., the damper (-DK1) can be adjusted on the room-facing side with the diffuser installed. For plenum boxes SK-R-..., the ceiling diffuser must be removed, before the damper can be adjusted. Alternatively, cable-operated adjustment (-DK2) can be provided at an extra charge, allowing the damper to be adjusted on the room-facing side with the diffuser installed.

In the connection spigot of the plenum box, a volumetric flow meter (-VME1) can be integrated. The measurement error of the volumetric flow meter is ± 5% at a spigot velocity of 2–5 m/s and a straight flow pattern of at least 1 x D. The measurement is carried out with integrated diffuser. By adjusting the damper, the required air volume of each diffuser can be set quickly and correctly.

To allow duct cleaning robots to be inserted from the room side, the distribution sheet in the ROB version (-ROB1) can be removed as well as the damper and the volumetric flow meter (if integrated).

Construction subject to change. No return possible.

Other accessories (at an extra charge) are hit-and-miss damper (-SS, only DQJ-Q/S-SR-... / DQJ-Q/S-SQ-...) for air volume regulation, ball-impact guard (-BS1, only DQJ-Q/S-SR-... / DQJ-Q/S-SQ-...), motor adjustment (-M1 (for NW 500-625) / -M2 (for NW 800), only DQJ-Q/S-SR / DQJ-Q/S-SR-Z-...-PS-...), 1/4 cover (-AD, only supply air model) and adjustable damper (-DV, only DQJ-R/T-SR-...).

TÜV SÜD has successfully inspected the DQJ ceiling swirl diffuser according to the following rules:

- **VDI 6022, Sheet 1:** **Hygienic requirements of ventilation and air-conditioning systems**
- **VDI 6022, Sheet 2:** **Hygienic requirements of ventilation and air-conditioning systems - Measurement methods and investigations during hygienic controls and hygienic inspections**
- **DIN 1946, Sheet 2:** **Air-conditioning technology - Health requirements**

For mounting in the ceiling, inspection openings for the electrical connection must be provided on site in sufficient number and size.

Advantages

- Blades are adjustable when the diffusers have already been installed
- Noise level and pressure loss remain constant in all blade positions
- High induction ensures very good reduction of the velocity and the temperature difference
- Stable air jet even at reduced air volumes
- Volumetric flow meter

Blade setting options

Pages 5-8 in the catalogue clearly show the extreme adjustment flexibility of the DQJ-Q/S-SR/SQ type ceiling swirl diffusers. It may become necessary to adjust the blade position if it becomes apparent after installation that there are obstacles too close to the diffuser obstructing the air flow, for example columns or cabinets. The "two-way throw" version is ideal for corridors. This avoids any deflection from the wall down to the occupied zones.

The diffuser is preset by the manufacturer to air throw "B" as a standard feature unless specified otherwise when ordering. The air throw patterns can be easily changed at a later stage on site, even with the diffuser installed, without using any special tools. Pressure drops and noise levels remain constant in all blade settings.

Construction

- Faceplate
  - Galvanised sheet steel (not available for DQJ-S-... model)
  - sheet steel painted to RAL 9010 (white, standard)
  - Sheet steel painted to a different RAL colour
  - Stainless steel (V2A) painted in the colour sand silver (not available for DQJ-S... model)
  - Natural colour anodised aluminium (E6/EV1, possible only with concealed mounting) (not available for DQJ-R/S... model)
- Blades
  - plastic, similar to RAL colour 9010 (white) or RAL 9005 (black, standard)
  - Aluminium painted to the RAL colour of the faceplate (subsequent adjustment of blades not possible)
- Blade fixing
  - painted sheet steel, faceplate made of stainless steel
- Blade holder
  - Aluminium ducts
- pole brace fastening
  - plastic
- Pole brace holder
  - Galvanised sheet steel
- concealed mounting pole brace
  - Aluminium

Model

DQJ-Q-SR-...	-	with square face plate, radial pattern, standard screw mounting (-SM)
DQJ-Q-SR-Z-...-PS-...	-	same as DQJ-Q-SR, but with continuous blades (only for supply air), standard with central mounting (-MM)
DQJ-Q-SQ-...	-	with square faceplate, square pattern, standard screw mounting (-SM)
DQJ-R-SR-...	-	with round faceplate, radial pattern, standard concealed mounting (-VM)
DQJ-R-SR-Z-...-PS-...	-	same as DQJ-R-SR-..., but with continuous blades (only for supply air), standard with central mounting (-MM). If in addition to the supply air swirl diffusers DQJ-Q-SR-Z-...-PS-... also return air diffusers of the DQJ type are to be used in a building project, the concealed mounting (-VM) must be selected for the installation of the return air diffuser to ensure identical optical design
DQJ-S-SR-...	-	with square faceplate, circular blade pattern, double-folded edge, especially for use under the ceiling, standard with concealed mounting (-VM). Not possible for NW 800
DQJ-S-SR-Z-...-PS:	-	as DQJ-S-SR-..., but with continuous blades (for supply air only), standard with concealed mounting (-VM), double-folded edge, especially for use under the ceiling. Not possible for NW 800
DQJ-S-SQ-...	-	with square faceplate, square blade pattern, standard with concealed mounting (-VM), double-folded edge, especially for use under the ceiling. Not possible for NW 800
DQJ...-...-Z	-	for supply air, with air deflection blades
DQJ...-...-A	-	for return air, without air deflection blades

Accessories

- Plenum box (SK-Q-01-...)
  - for DQJ-Q/S-SR-... / DQJ-Q/S-SR-Z-...-PS-... / DQJ-Q/S-SQ-...
  - Housing made of galvanised sheet steel
  - concealed mounting pole brace made of aluminium
  - concealed mounting made of plastic
- Plenum box (SK-R-01-...)
  - for DQJ-R-SR-... / DQJ-R-SR-Z-...-PS-...
  - Housing made of galvanised sheet steel
  - concealed mounting pole brace made of aluminium
  - concealed mounting made of plastic
- Damper (-DK1)
  - in the plenum box SK-Q-... / SK-R-...
  - Throttle damper made of galvanised sheet steel
  - Damper fastening made of plastic
- Damper (-DK2)
  - same as DK1, but with cable-operated adjustment (at an extra charge)
- Volumetric flow meter (-VME1)
  - in the plenum box SK-Q-... /SK-R-... at the connection spigot
  - Holder made of galvanised sheet steel
  - Measuring sensor made of plastic
  - Aluminium connections
- ROB version (-ROB1)
  - only possible for SK-Q-... plenum box
  - Removable diffuser plate, damper and volumetric flow meter
- Rubber lip seal (-GD1)
  - in the plenum box SK-Q-... /SK-R-... at the connection spigot
- Hit-and-miss damper (-SS)
  - only possible for DQJ-Q/S-SR-... / DQJ-Q/S-SQ-...
  - galvanised sheet steel frame
  - galvanised sheet steel damper
  - Galvanised spring steel damper fixing
- Ball-impact guard (-BS)
  - only possible for DQJ-Q-SR-... / DQJ-Q-SQ-... with SM mounting and for NW 800 only with VS mounting
  - Steel painted to RAL 9010 (white), other RAL colours possible at an extra charge.
- Motor adjustment (-M1 / -M2)
  - only possible DQJ-Q-SR-Z-...-PS-... for NW 500-800 with SM mounting (-SM)
  - Galvanised sheet steel ring
  - Plastic blade adjuster
  - Brass adjustment
- 1/4 cover plate (-AD)
  - only supply air version possible
  - Galvanised sheet steel
- Damper (-DV)
  - only possible DQJ-R-SR-... with SM mounting (-SM)
  - Galvanised sheet steel damper plate
  - Aluminium damper fixing
  - Galvanised sheet steel setting screw
  - Galvanised sheet steel casing
- Internal insulation (-Ii)
  - thermal insulation at the inside of the plenum box
- External insulation (-Ia)
  - thermal insulation at the outside of the plenum box

Fastening

- Screw mounting (-SM)
  - with 4 raised countersunk head tapping screws (on site), standard for model DQJ-Q-... (not possible for NW 800, without motor adjustment), standard for DQJ-Q-SR-Z-800-...-PS-...-M2 (with motor adjustment, not possible for DQJ-S-...)
- Concealed mounting (-VM)
  - Pole brace fastening (at an extra charge) only possible in conjunction with SK-Q-.../SK-R-...; without SK-Q-.../SK-R-..., the counter pole brace must be provided on site (standard for DQJ-R-... , standard for NW 800 with DQJ-Q/S-...).
- Central mounting (-MM)
  - Central mounting only possible in connection with plenum box, standard for DQJ-Q-SR-Z-...-PS-... and DQJ-R-SR-Z-...-PS-... models up to NW 625 (not possible for exhaust air)
- Screw mounting with concealed mounting (-VS)
  - Screw mounting (-SM) in combination with concealed mounting (-VM)
  - only possible for NW 800 in conjunction with ball-impact guard (-BS)

Attention!

We would like to point out that for cleaning stainless steel models, only suitable cleaning materials may be used!

MODELS

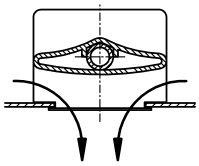
Air throw pattern

Air throw pattern "A" :	all blades in blade position 2
Air throw pattern "B" :	blades in positions 1+2, preset by manufacturer
Air throw pattern "C" :	without blades (only possible for return air)
Air throw pattern "V" :	all blades in blade position 1 (heating mode only)

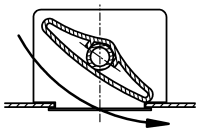
-The ceiling swirl diffuser with NW 310 is not available with air throw pattern "B".

Air throw pattern “B“

Blade position 1 (-L1)

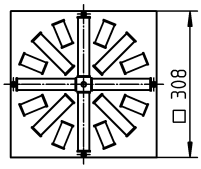


Blade position 2 (-L2)

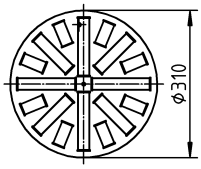


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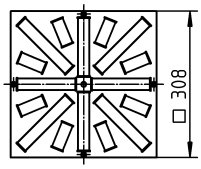
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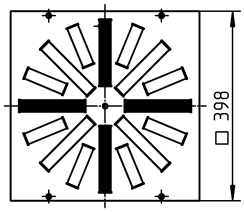


DQJ-Q/S-SQ-Z 310-...-310-PS-...

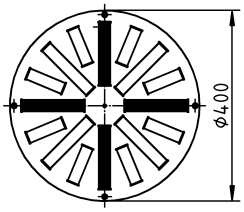


NW 400

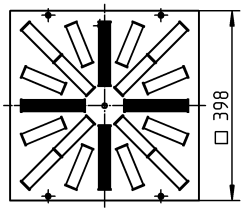
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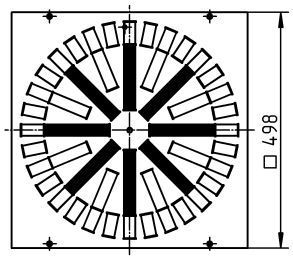


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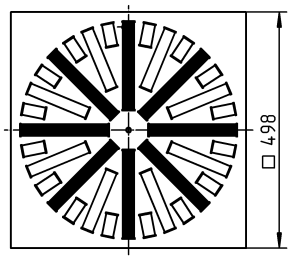


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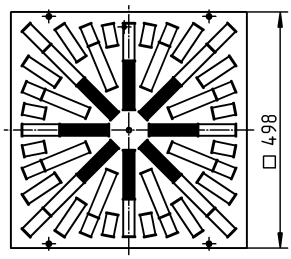
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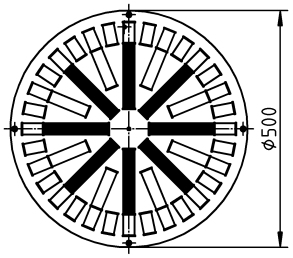
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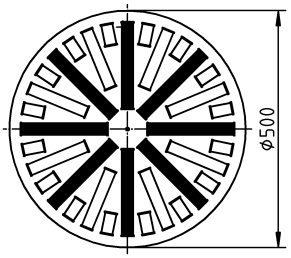
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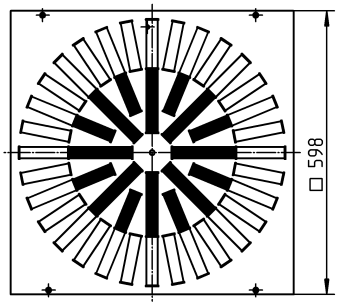


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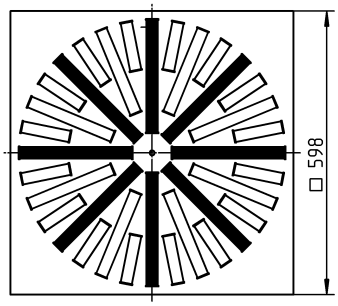


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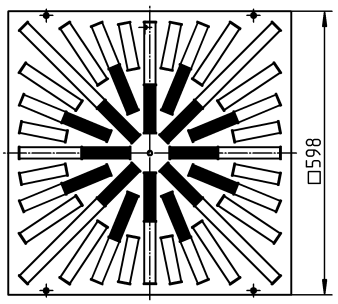
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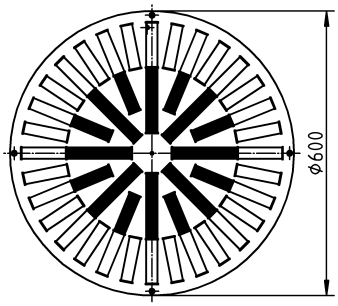
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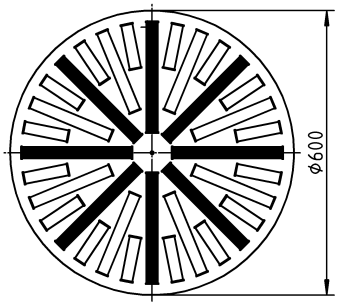
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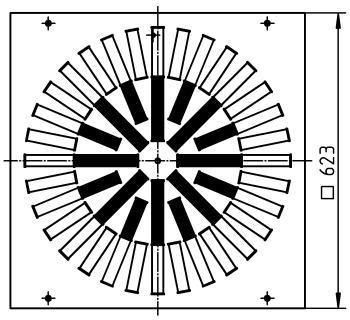


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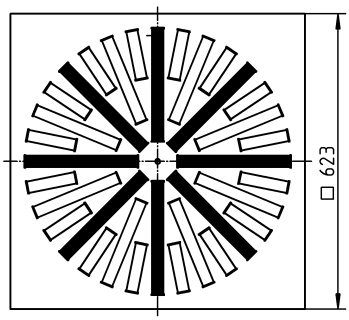


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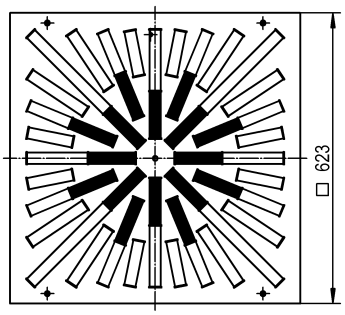
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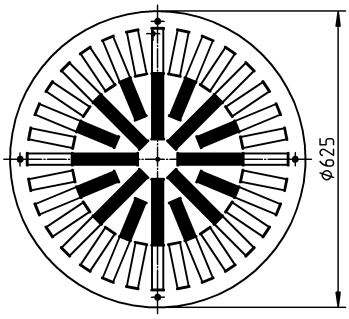
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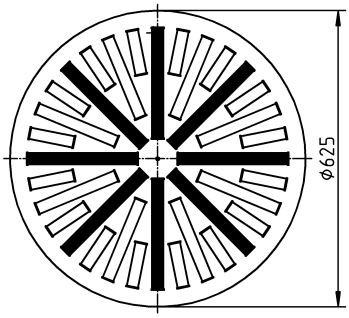
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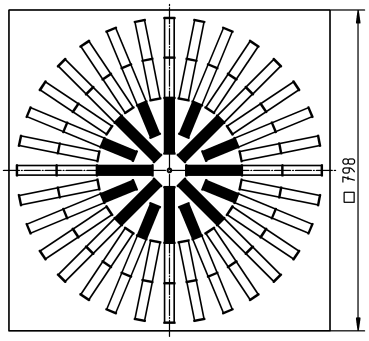
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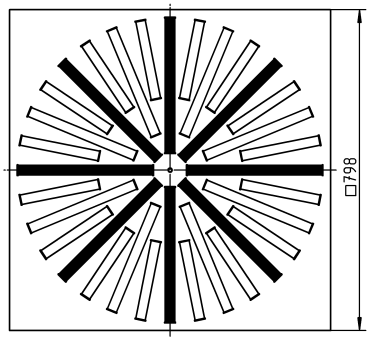
NW 800

(without motor adjustment only available with concealed mounting, DQJ-Q-SR-Z-800-...PS-...-M2-... (with motor adjustment) only possible with SM)

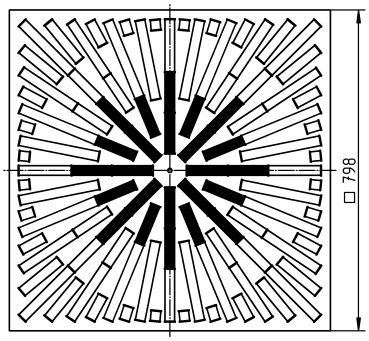
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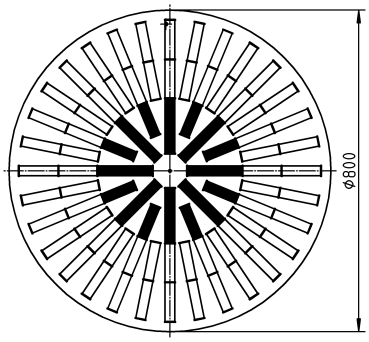
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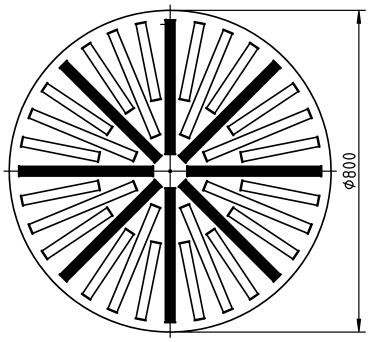
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DQJ-R-SR-Z-800-...-800-...

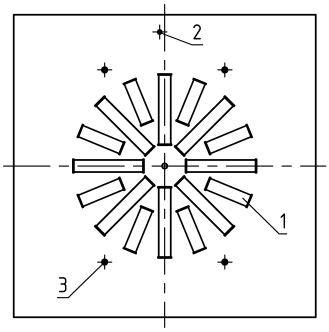


DQJ-R-SR-Z-800-...-800-PS-...



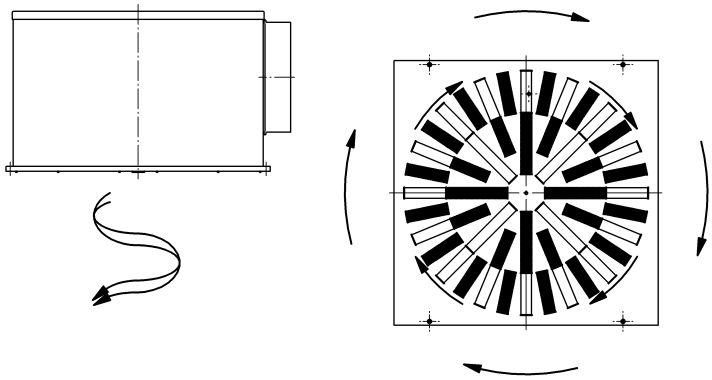
Special model

If, for constructional reasons (e.g. ceiling grid), a particular faceplate size has been defined, it is possible to punch a smaller swirl diffuser (1) into the faceplate. If a plenum box is required, it will be delivered, as a standard feature, in the same size as the punch and not in the size of the faceplate. However, if the plenum box is larger, on customer's special request, the standard hole (2) in the blade can be placed in the faceplate, to allow damper adjustment.
In case of a screw mounting, the screw holes (3) are adjusted to the plenum box.



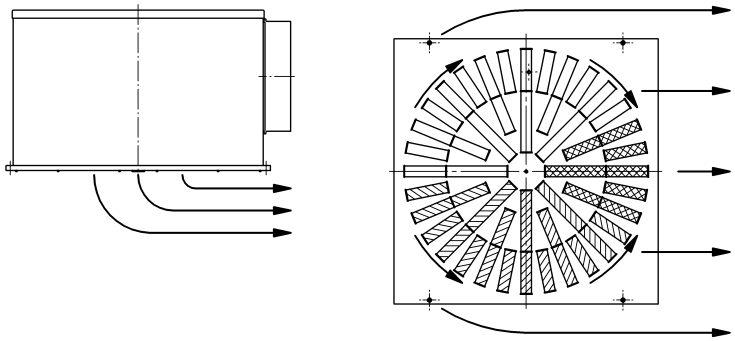
Special blade settings

Increased multi-directional throw



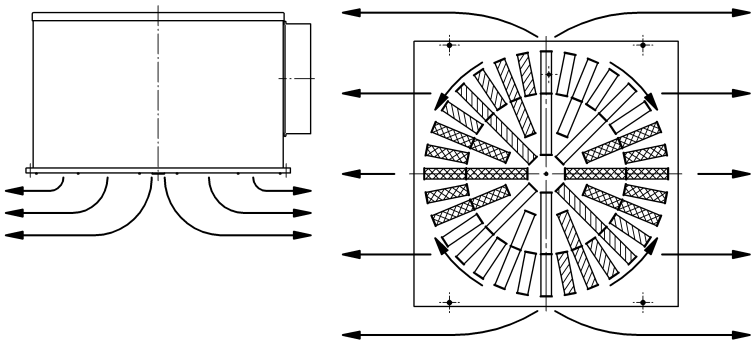
Blade position 1
Blade position 2

One-way throw



Blade position 2 left
Blade position 2 right
covered (with 1/4 cover, see p. 13)

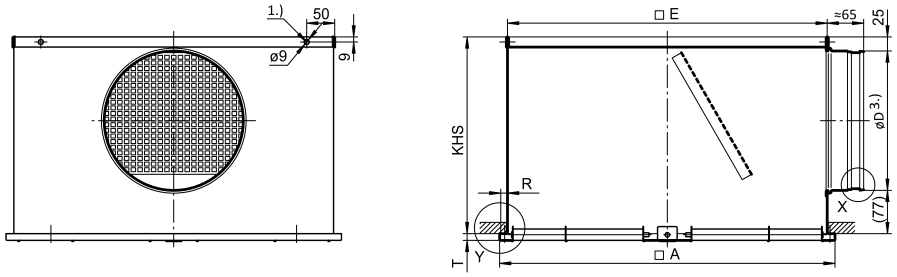
Two-way throw



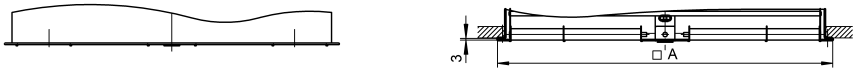
Blade position 2 left
Blade position 2 right
covered (with 1/4 cover, see p. 13)

DIMENSIONS

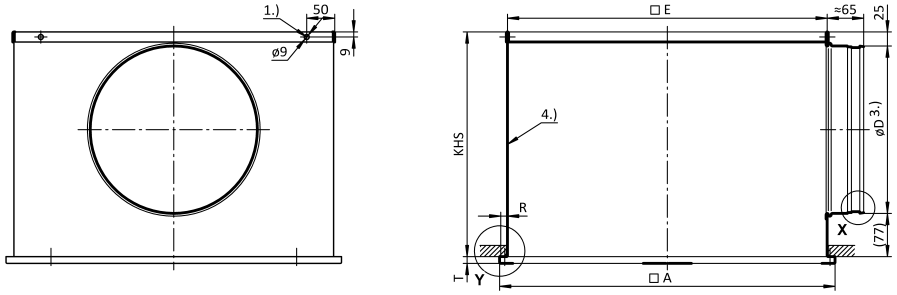
DQJ-Q-SR-Z-... / DQJ-Q-SR-Z-...-PS-... / DQJ-Q-SQ-Z-..., with SK-Q-01-Z-... (for supply air)



DQJ-S-SR-Z-... / DQJ-S-SR-Z-...-PS-... / DQJ-S-SQ-Z-..., with SK-Q-01-Z-... (for supply air) (not possible for NW 800)



DQJ-Q-SR-A-.. / DQJ-Q-SQ-A-..., with SK-Q-01-A-... (for return air)



DQJ-S-SR-A-.. / DQJ-S-SQ-A-..., with SK-Q-01-A-... (for return air) (not possible for NW 800)

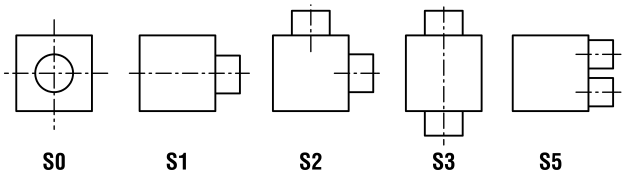


1.) Suspension on site
3.) external
4.) inside painted to RAL 9005 (black)

Available sizes

NW	□ A	□ E	R	T	SK-Q-01-Z-...		SK-Q-01-A-...		$øD_{max}$ for ...-S5
					KHS	øD	KHS	øD	
310	308	290	8	7	260	158	300	198	98
400	398	370	12	12	260	158	300	198	138
500	498	470			300	198	350	248	198
600	598	570			350	248	400	298	248
625	623	570	24		350	248	400	298	248
800	798	770	12		455	353	455	353	353

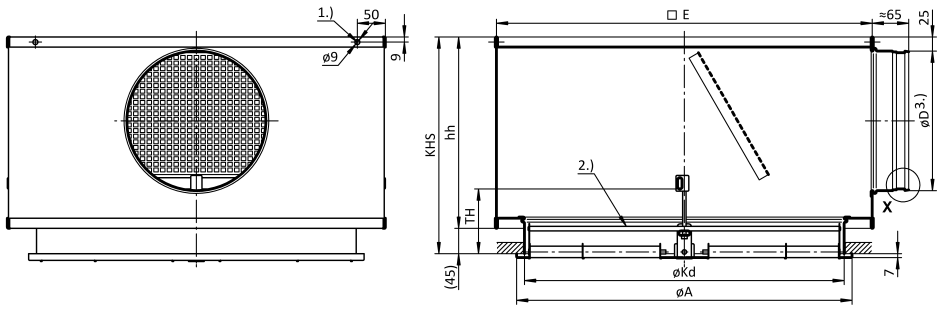
Spigot position



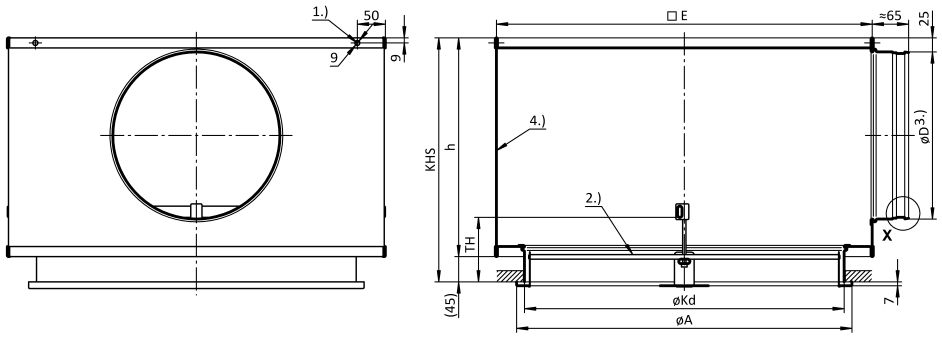
KHS = standard height of box, special height of box = øD + 102mm, but at least 200mm

Note: For SK-Q-01-Z-...-DK1 / -DK2-...-S0, the height of box changes to KHS=280 mm for NW 310 and NW 400 (see p. 12).

DQJ-R-SR-Z-... / DQJ-R-SR-Z-...-PS-..., with SK-R-01-Z-... (for supply air)



DQJ-R-SR-A-..., with SK-R-01-A-... (for return air)



1.) Suspension on site
2.) turned 45°
3.) external
4.) inside painted to RAL 9005 (black)

Available sizes

NW	øA	□E	øKd	TH	SK-R-01-Z-...			SK-R-01-A-...			$øD_{max}$ for ...-S5
					KHS	h	øD	KHS	h	øD	
310	310	405	298	115	295	250	158	335	290	198	158
400	400	445	370		295	250	158	335	290	198	178
500	500	545	470		335	290	198	385	340	248	198
600	600	670	570		385	340	248	435	390	298	298
625	625	670	570		385	340	248	435	390	298	298
800	800	845	770		490	445	353	490	445	353	353

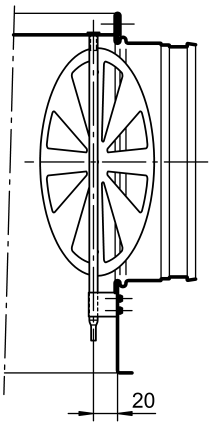
KHS = standard height of box, special height of box = øD + 137mm, but at least 235mm

Note: For SK-R-01-Z-...-DK1 / -DK2-...-S0, the height of box changes to h=280 mm for NW 310 and NW 400 and to h=300 mm for NW 500 (see p. 12). For the spigot position, see p. 10

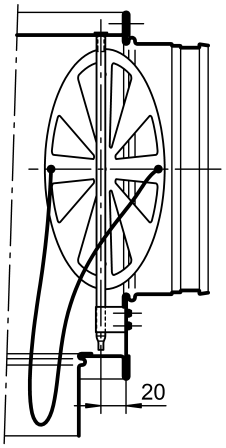
DIMENSIONS OF ACCESSORIES

Damper (-DK1/-DK2)

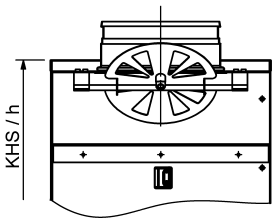
Damper (-DK1)



Damper (-DK2)
with cable-operated adjustment



Height of box with spigot from above (-S0)

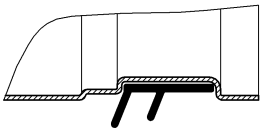


For the model with spigot from above (-S0) in combination with damper (-DK1 / -DK2), the height of box KHS (for SK-Q-01-Z-...) and height of plenum box h (for SK-R-01-Z-...) change for the following NW as follows.

NW	SK-Q-01-Z-...		SK-R-01-Z-...		
	KHS	øD	KHS	h	øD
310	280	158	325	280	158
400	280	158	325	280	158
500	-	-	345	300	198

Rubber lip seal (-GD1)

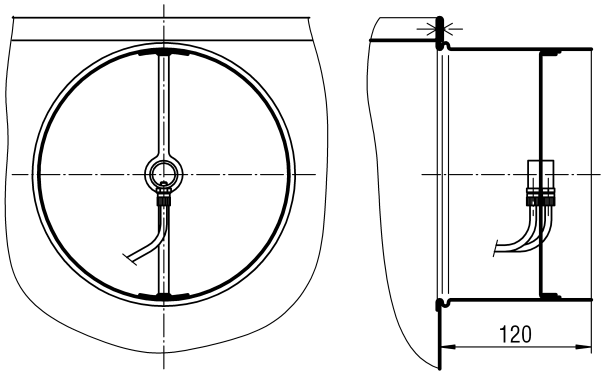
Detail X



ROB version (-ROB1) (only possible for SK-Q-01-... plenum box)

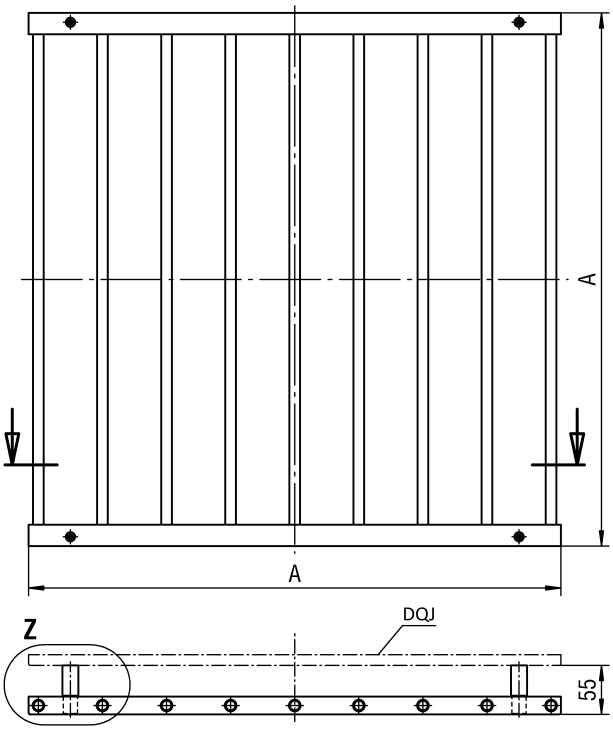
Removable diffuser plate, damper and volumetric flow meter.

Volumetric flow meter (-VME1)

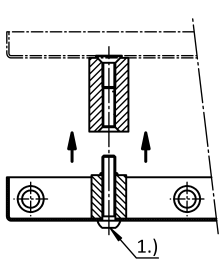


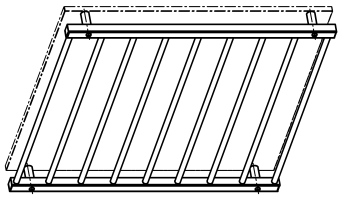
Ball-impact guard (-BS)

(only possible for DQJ-Q-SR-... / DQJ-Q-SQ-... with SM mounting and for NW 800 only with VS mounting)



Detail Z





1.) ULS standard DIN EN ISO 7380 M6x30

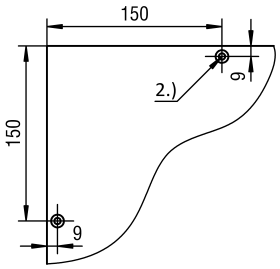
Available sizes

NW	□A
310	308
400	398
500	498
600	598
625	623
800*	798

*NW 800: with VS mounting

Dimensions VS mounting (for NW 800 only)

SM mounting for NW 310-625, see p. 6 ff

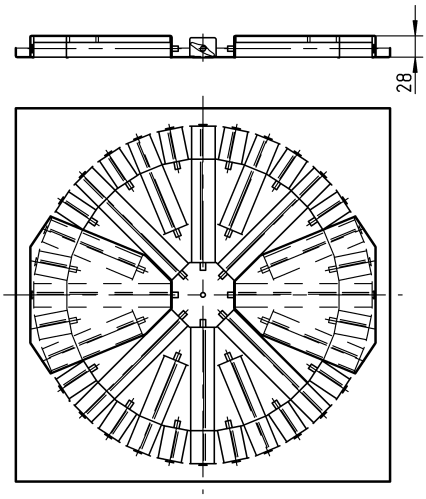


2.) Indentation for slotted shallow-raised countersunk-head tapping screw DIN ISO 7051 pitch 4.8 (on site)

1/4 cover plate (-AD)

(only supply air version possible)

for 1- or 2-sided shielding



Number of covered blades

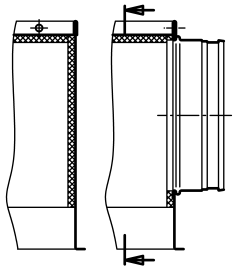
NW	DQJ-Q/S-SR-Z-... / DQJ-Q/S-SR-Z-...-PS-... / DQJ-R-SR-Z-... / DQJ-R-SR-Z-...-PS-...	DQJ-Q/S-SQ-Z-...
310	3	3
400	3	3
500	5	5
600	5	5
625	5	5
800	5	9

Number of covered blades (x2) for two-sided shielding.

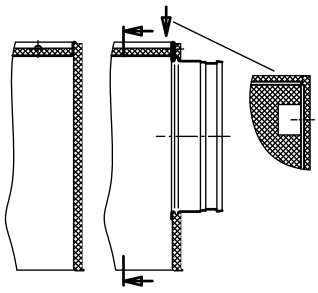
Insulation (-Ii / -Ia)

Insulation for SK-Q-01-...

internal (-Ii)

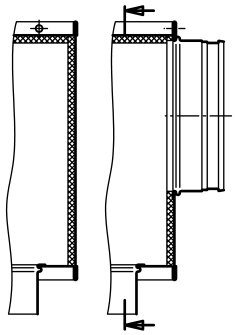


external (-Ia)

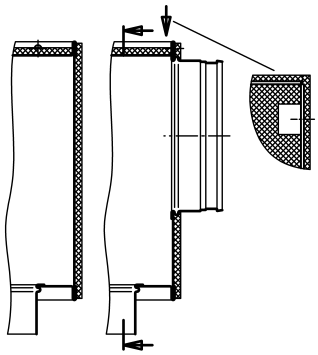


Insulation for SK-R-01-...

internal (-Ii)



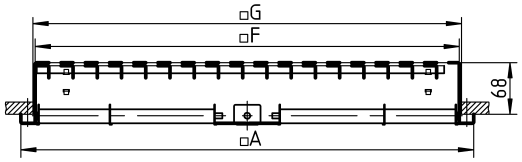
external (-Ia)



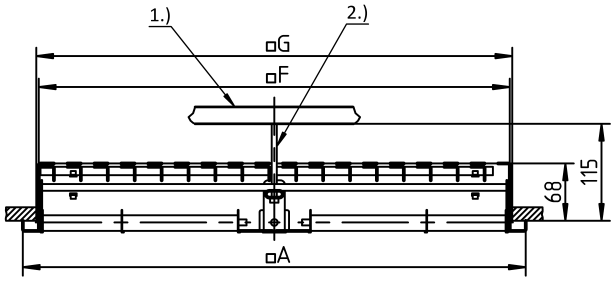
Hit-and-miss damper (-SS)

(only DQJ-Q-SR-... / DQJ-Q-SQ-...)

with screw mounting (-SM)



with concealed mounting (-VM)



1.)Duct pole brace on site

2.) Cylinder screw M6 x 100 DIN EN ISO 4762

Available sizes (-SS)

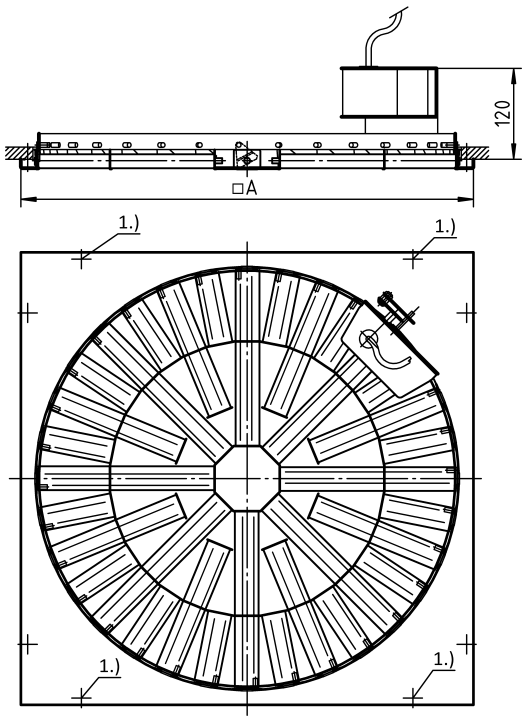
NW	□A	□F	□G
310	308	290	295
400	398	365	370
500	498	465	470
600	598	565	570
625	623	565	570
800	798	765	770

A hit-and-miss damper is only available for a stainless steel or aluminium faceplate together with SM mounting.

Motor adjustment (-M1 / -M2)

24 V AC, 2-point activation

(only possible for DQJ-Q-SR-Z-...-PS-... with screw mounting).



1.) for NW 800, 4 additional mounting holes for screw mounting (-SM).

The plenum box type SK-Q-01-Z-... is without a hole for the cable. Cable routing should be done on site. The motorised model increases the noise level by 3 dB(A).

If the plenum box has a damper, the installation of the damper is displaced by 90°, and for its adjustment the faceplate must be removed.

Available sizes (-M1 / -M2)

NW	□A	Controller
500	498	**E044** (Belimo LM24A-F)
600	598	**E044** (Belimo LM24A-F)
625	623	**E044** (Belimo LM24A-F)
800	798	**E047** (Belimo NM24A-F)

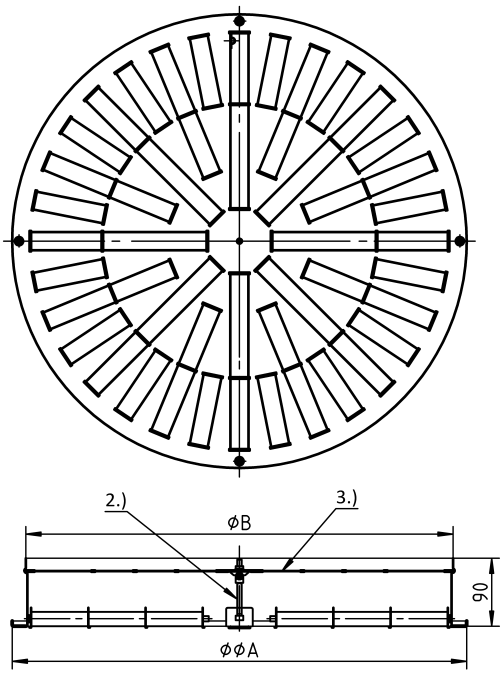
Technical data

	E044 (-M1)	**E047** (-M2)
Supply voltage	24 V AC ±10% 50...60 Hz	24 V AC ±10% 50...60 Hz
Power consumption	1 W @ rated torque	1.5 W @ rated torque
Dimensioning	1.5 VA	3.5 VA
Protection type	IP54	IP54
Protection class	III (safety extra low voltage)	III (safety extra low voltage)
Ambient temperature	-30°C ... +50°C	-30°C ... +50°C
Maintenance	Maintenance-free	Maintenance-free

Construction subject to change. No return possible.

Adjustable damper (-DV)

only possible DQJ-R-SR-... with screw mounting (-SM)



2.) Adjusting spindle

3.) Damper

The noise level increases by 4 dB (A) with an adjustable damper (-DV) compared with the diagram values with a plenum box.

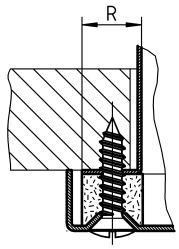
Available sizes (-DV)

NW	øA	øB
310	310	290
400	400	370
500	500	460
600	600	560
625	625	560
800	800	760

FASTENING METHODS

Screw mounting (-SM)

Detail Y



NW	R
310	8
400	12
500	12
600	12
625	24

DQJ-Q-SR-... / DQJ-Q-SQ-...:

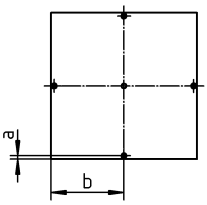
In case of screw mounting, the ceiling swirl diffuser is fastened to the plenum box with 4 on site countersunk screws (not available for NW 800).

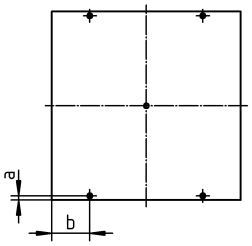
DQJ-R-SR-...:

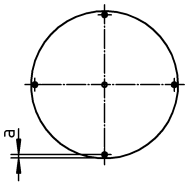
In case of screw mounting (SM), the ceiling swirl diffuser will be mounted to the ceiling with 4 on site countersunk screws, but this is only possible without a plenum box.

Indentation for slotted shallow-raised countersunk-head tapping screw

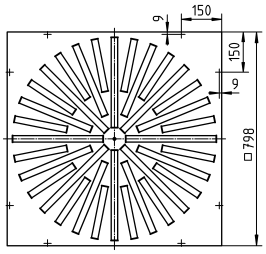
(shown without perforation)







DQJ-Q/S-SR-...-800-...-PS-...-M2-...



DQJ-Q-SR-... / DQJ-Q-SQ-... / DQJ-R-SR-...

NW	a	b
310	7	154
400	9	80
500		
600		
625	21,5	

-**DQJ-R-SR-...** with screw mounting (-SM) only available without plenum box, as a standard feature, this model is with concealed mounting (-VM).

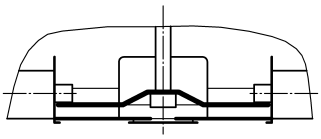
-**NW 310 with indentation for slotted shallow-raised countersunk-head tapping screw DIN ISO 7051 pitch 3.9 (on site)**

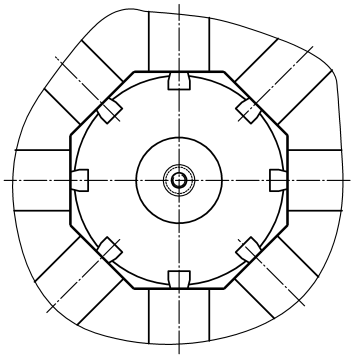
-**NW 400-625 with indentation for slotted shallow-raised countersunk-head tapping screw DIN ISO 7051 pitch 4.8 (on site)**

-**NW 800 is only available in concealed mounting (exception: DQJ-Q-SR-Z-800-...-PS-...-M2-...)!**

Central mounting (-MM)

DQJ-Q-SR-Z-...-PS-... / DQJ-R-SR-Z-...-PS-... / DQJ-S-SR-Z-...-PS-... up to NW 625 (not possible for exhaust air)

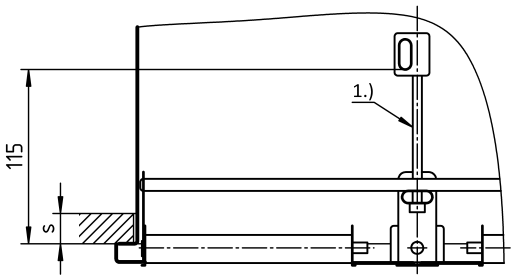




For central mounting, the swirl diffuser is attached to the plenum box using a retaining plate and a DIN EN ISO 4762 M6 Allen screw.

Installation

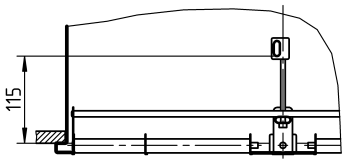
Plenum box below the ceiling (standard)



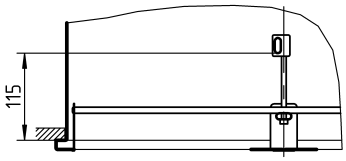
1.) Fastening screw

Concealed mounting (-VM)

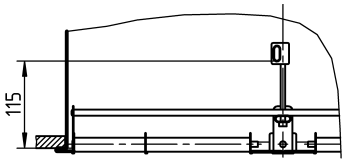
DQJ-Q-SR-Z-... / DQJ-Q-SQ-Z-... / DQJ-R-SR-Z-...



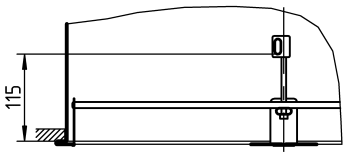
DQJ-Q-SR-A-... / DQJ-Q-SQ-A-... / DQJ-R-SR-A-...



DQJ-S-SR-Z-... / DQJ-S-SQ-Z-...



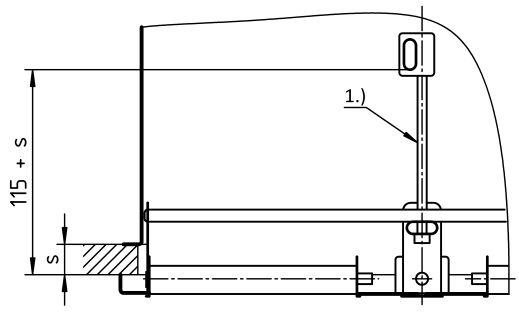
DQJ-S-SR-A-... / DQJ-S-SQ-A-...



In concealed mounting, the swirl diffuser is fastened to the plenum box using a crossbar and an Allen screw DIN EN ISO 4762 M6 (standard for NW 800 with DQJ-Q-...).

Attention: The max. torque of the fastening screw is 0.4 Nm

Plenum box above the ceiling



1.) Fastening screw

Attention:

In case of an installation above the ceiling you have to specify the thickness of the ceiling "s".

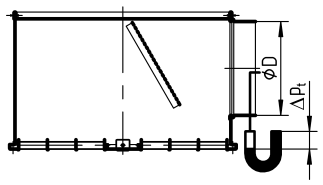
Screw length = 120 + s

TECHNICAL DATA

Pressure loss and sound power level

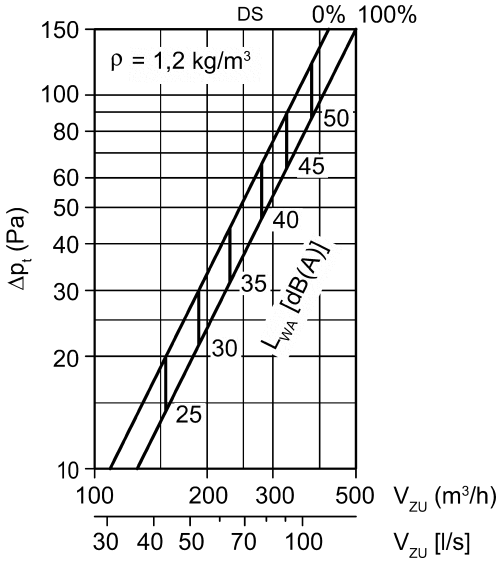
DQJ-...-SR-Z-... / DQJ-...-SR-Z-...-PS-....

for supply air, with plenum box

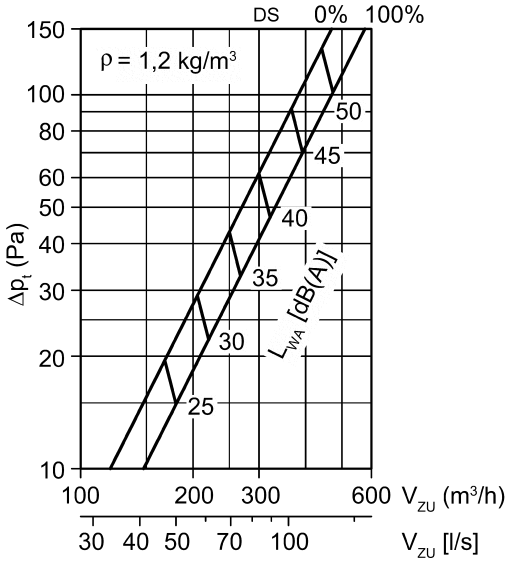


Damper position (DS):
0% = CLOSED / 100% = OPEN

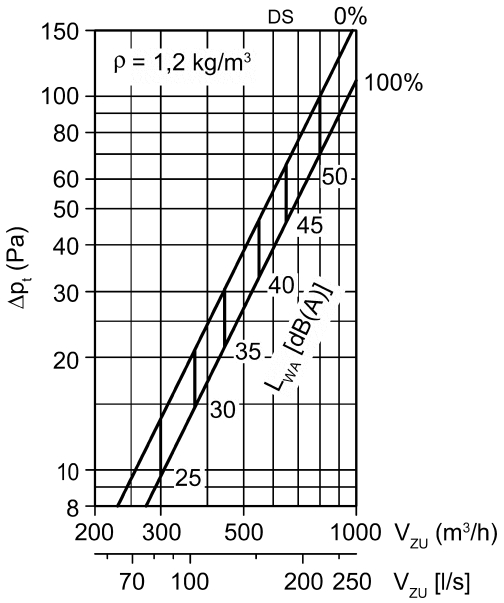
DQJ-...-SR-Z-...-310-...-PS-...



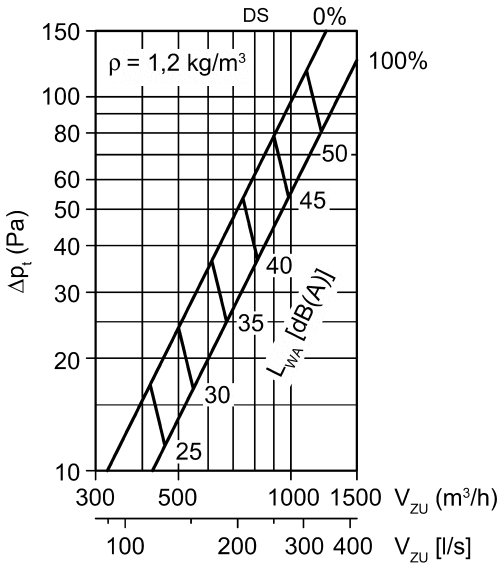
DQJ-...-SR-Z-...-400-...-PS-...



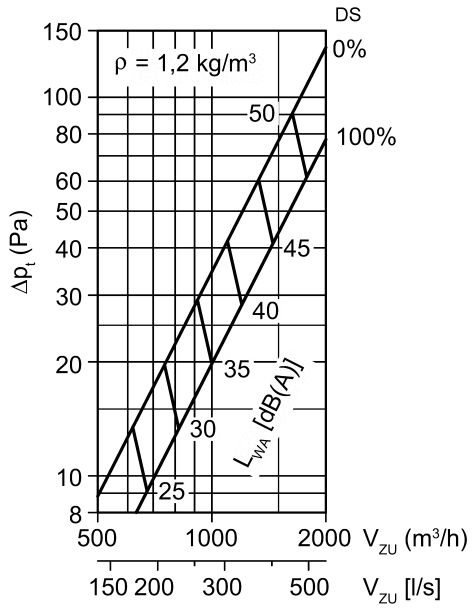
DQJ-...-SR-Z-...-500-... / DQJ-...-SR-Z-...-500-...-PS-...



DQJ-...-SR-Z-...-600-... / DQJ-...-SR-Z-...-600-...-PS-...

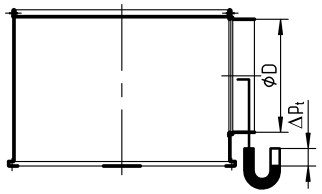


DQJ-Q/R-SR-Z-...-800-... / DQJ-Q/R-SR-Z-...-800-...-PS-...



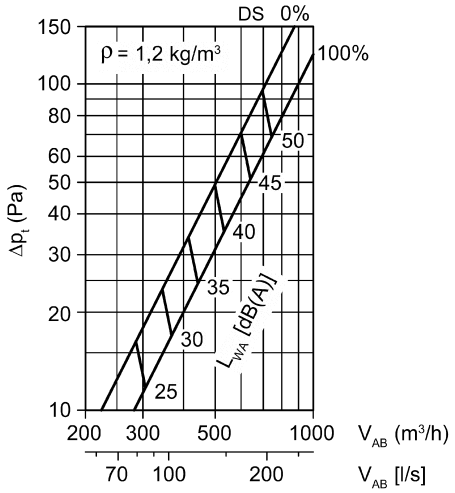
DQJ-...-SR-A

for return air, with plenum box

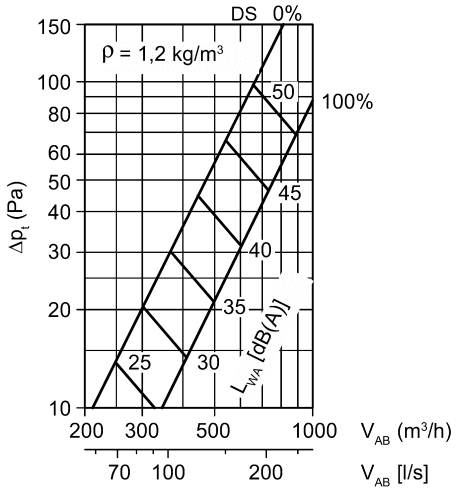


Damper position (DS):
0% = CLOSED / 100% = OPEN

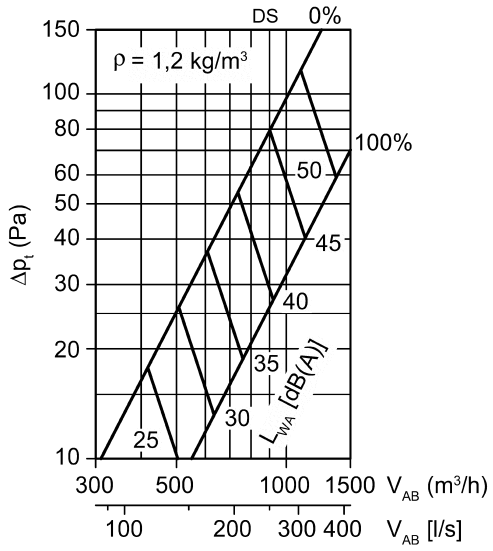
DQJ-...-SR-A-...-310-...



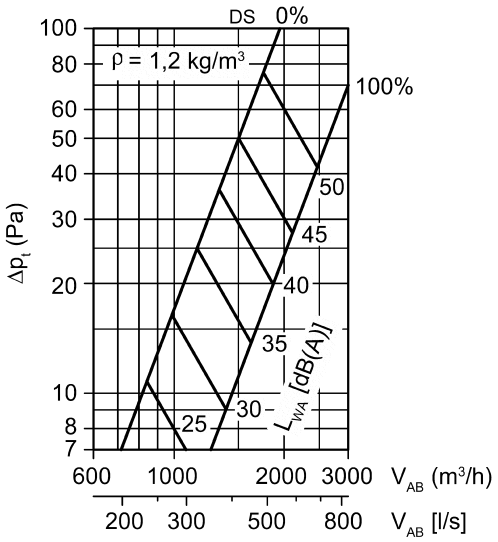
DQJ-...-SR-A-...-400-...



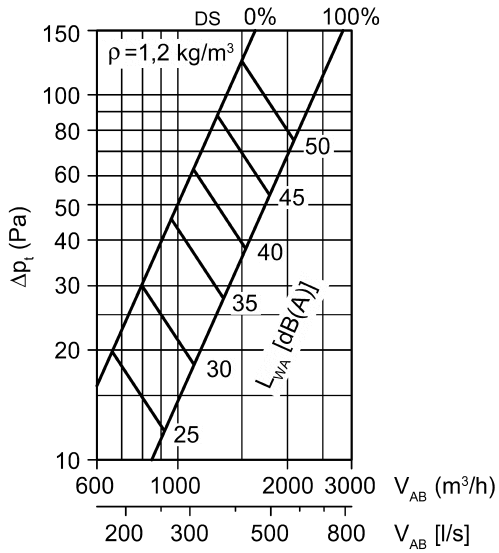
DQJ-...-SR-A-...-500-...



DQJ-Q/R-SR-A-...-800-...

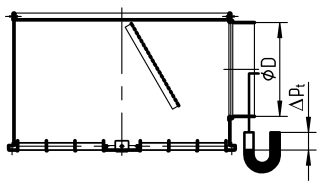


DQJ-...-SR-A-...-600-...



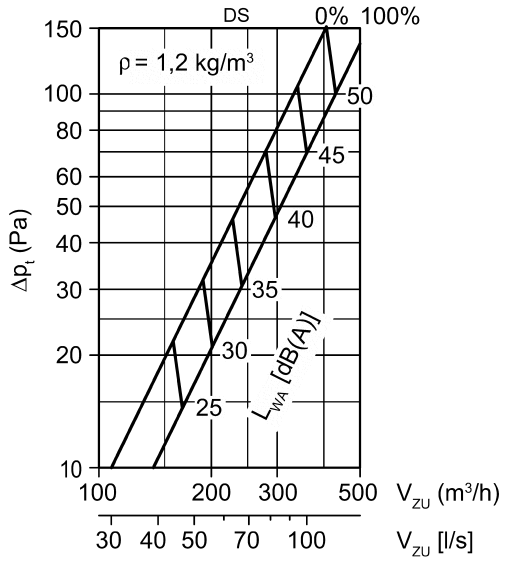
DQJ-...-SQ-Z-...

for supply air, with plenum box

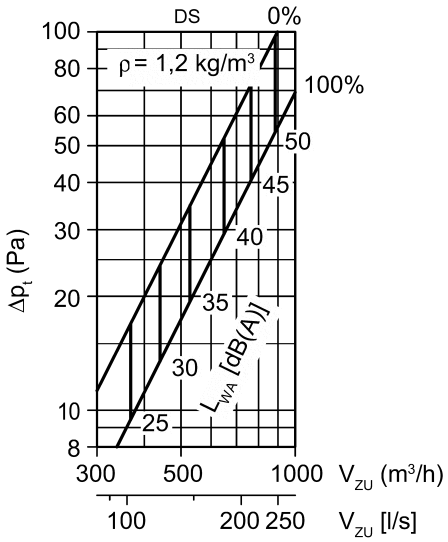


Damper position (DS):
0% = CLOSED / 100% = OPEN

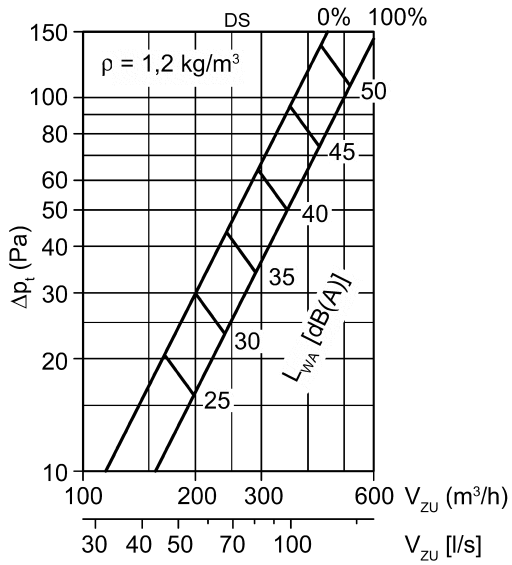
DQJ-...-SQ-Z-...-310-...-PS-...



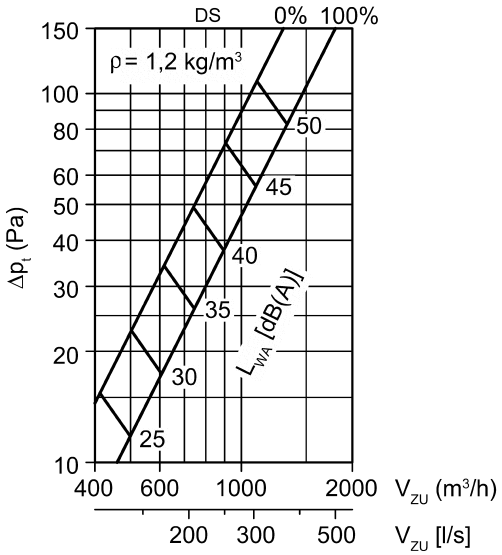
DQJ-...-SQ-Z-...-500-...



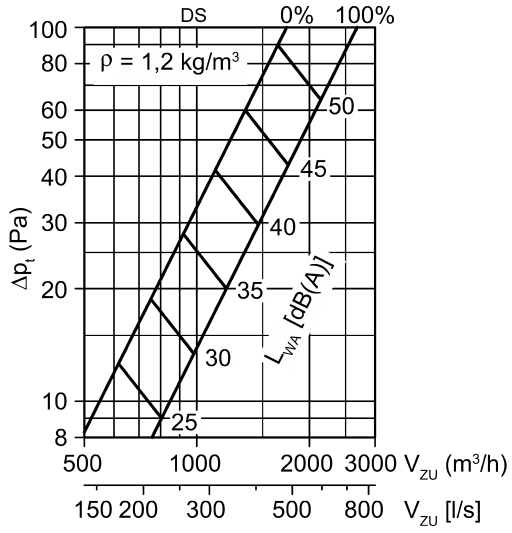
DQJ-...-SQ-Z-...-400-...



DQJ-...-SQ-Z-...-600-...

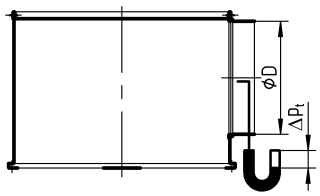


DQJ-Q-SQ-Z-...-800-...



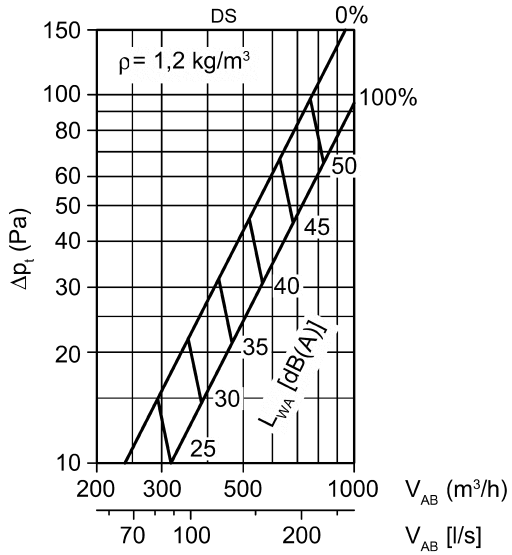
DQJ-...-SQ-A-...

for return air, with plenum box

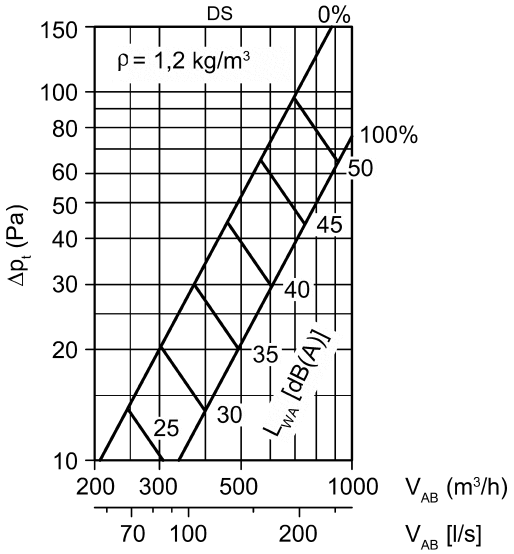


Damper position (DS):
0% = CLOSED / 100% = OPEN

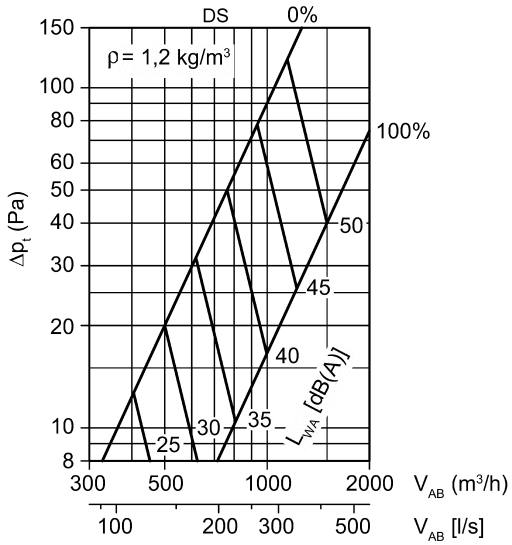
DQJ-...-SQ-A-...-310-...



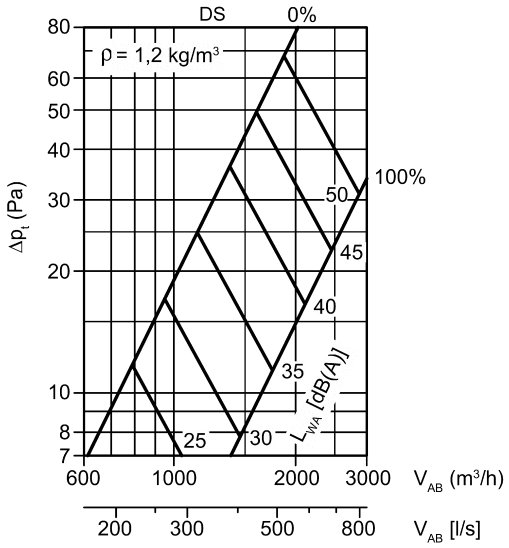
DQJ-...-SQ-A-...-400-...



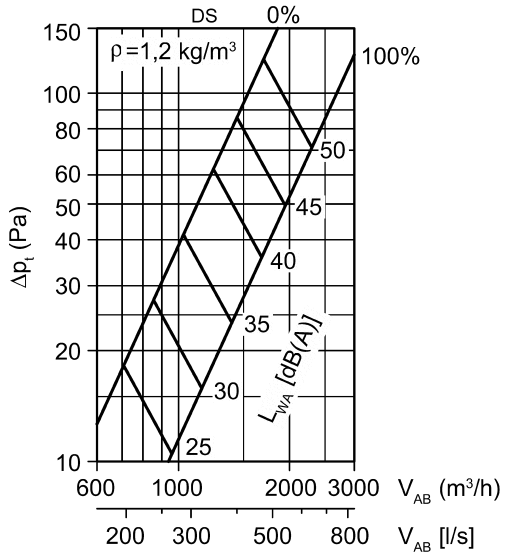
DQJ-...-SQ-A-...-500-...



DQJ-Q-SQ-A-...-800-...



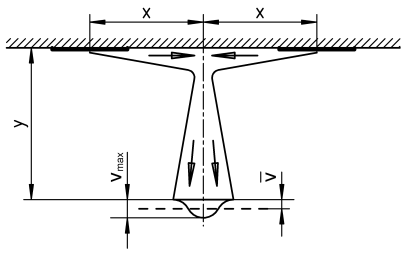
DQJ-...-SQ-A-...-600-...



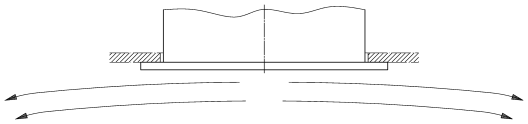
Maximum end velocity of jet

for supply air, with coanda effect

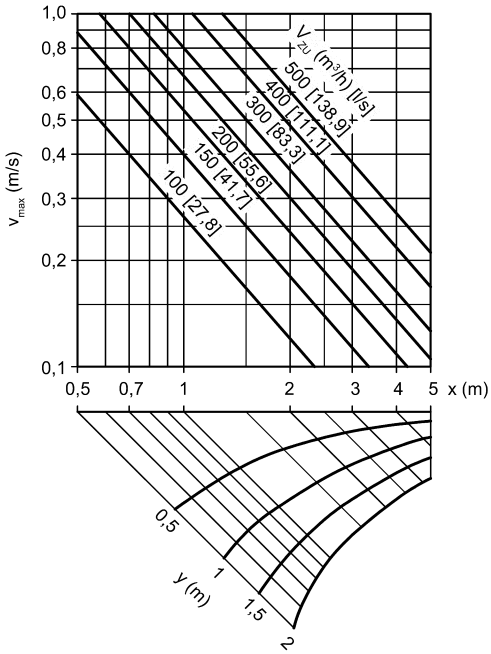
DQJ-...-SR-Z-... / DQJ-...-SR-Z-...-PS-...



Air throw pattern "A"



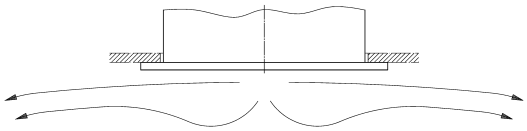
DQJ-...-SR-Z-...-310-...-PS-...



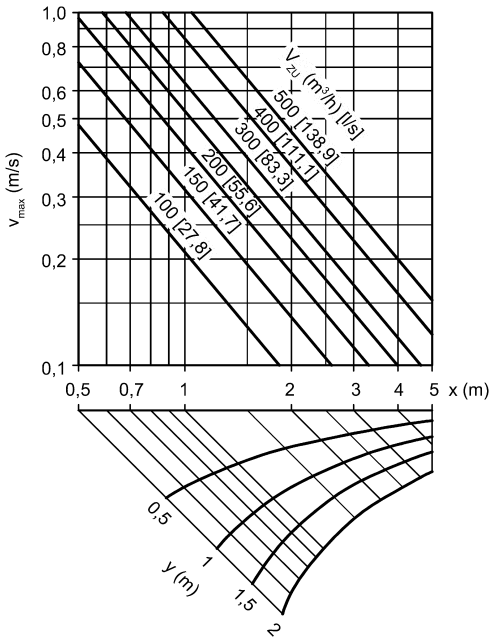
Type DQJ-...-SR-Z-...-310 only available with air throw pattern "A".

Free jet = diagram value x 0.7

Air throw pattern "B"



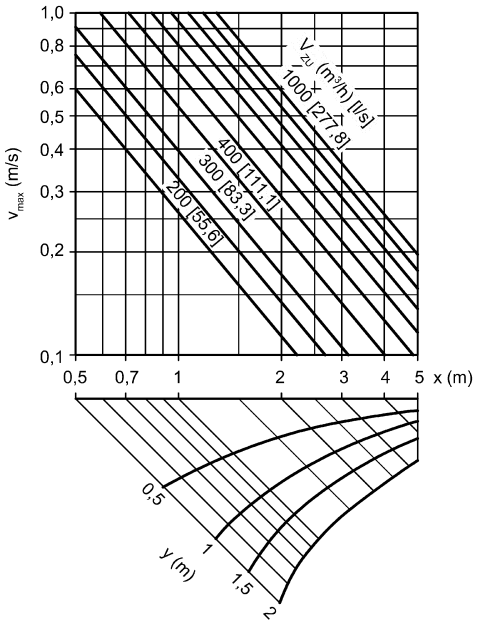
DQJ-...-SR-Z-...-400-...-PS-...



Air throw pattern "A" = diagram value x 1.31

Free jet = diagram value x 0.7

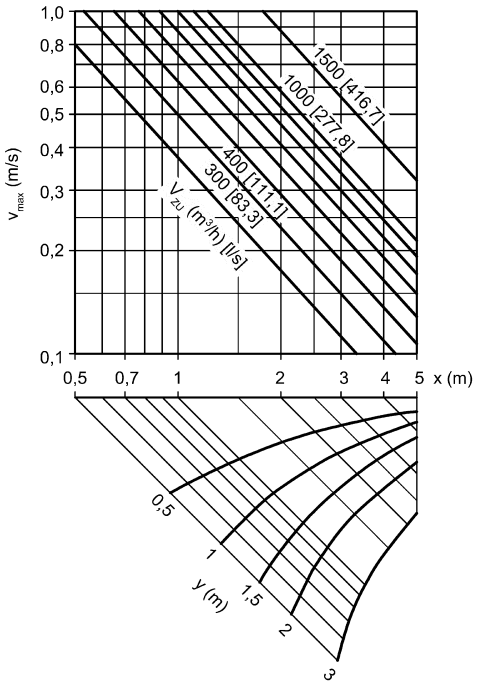
DQJ-...-SR-Z-...-500-... / DQJ-...-SR-Z-...-500-...-PS-...



Air throw pattern "A" = diagram value x 1.25

Free jet = diagram value x 0.7

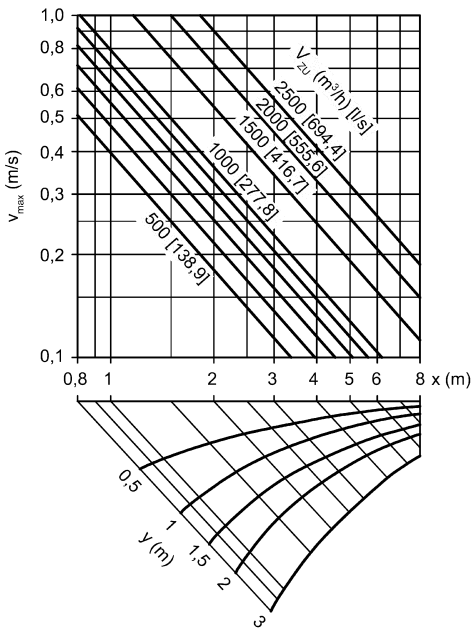
DQJ-...-SR-Z-...-600-... / DQJ-...-SR-Z-...-600-...-PS-...



Air throw pattern "A" = diagram value x 1.4

Free jet = diagram value x 0.7

DQJ-Q/R-SR-Z-...-800-... / DQJ-Q/R-SR-Z-...-800-...-PS-...



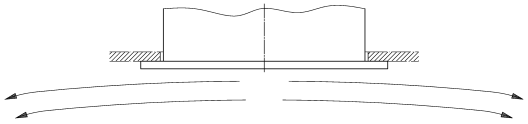
Air throw pattern "A" = diagram value x 1.4

Free jet = diagram value x 0.7

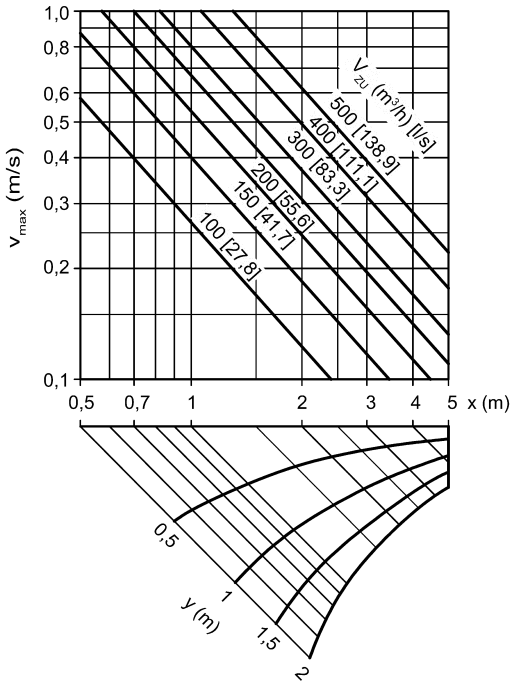
DQJ-...-SQ-Z-...

for supply air, with coanda effect

Air throw pattern "A"

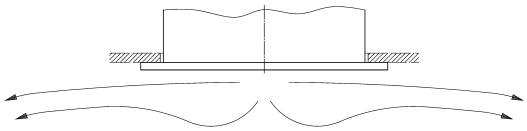


DQJ-...-SQ-Z-...-310-...-PS-...

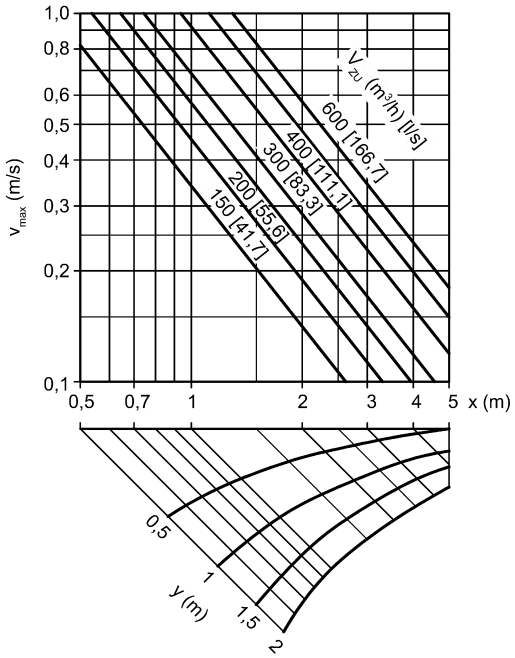


Type DQJ-...-SQ-Z-...-310-... only available with air throw pattern "A".

Air throw pattern "B"

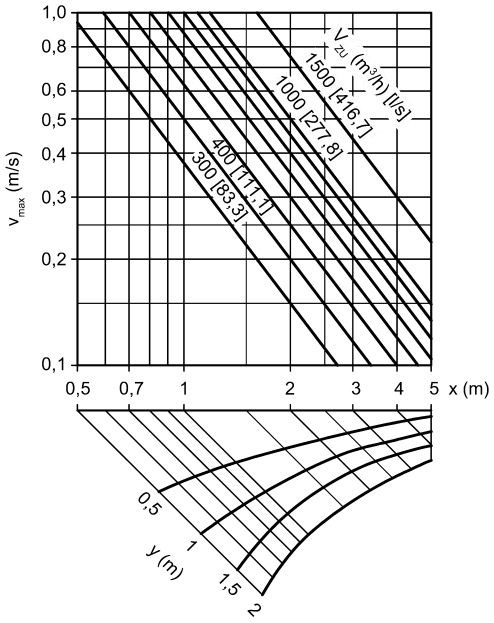


DQJ-...-SQ-Z-...-400-...



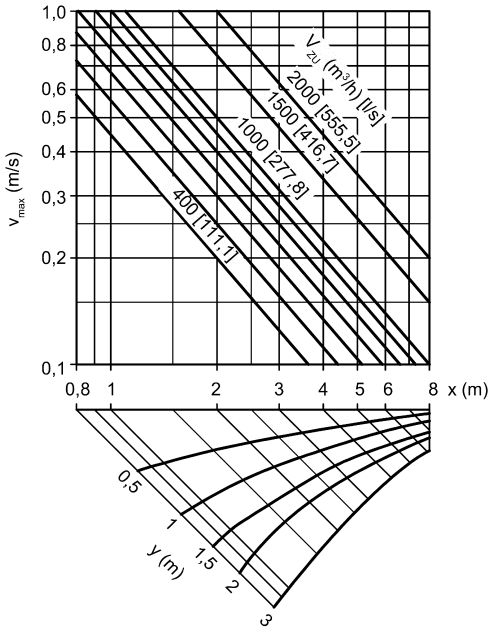
Air throw pattern "A" = diagram value x 1.18

DQJ-...-SQ-Z-...-500-...



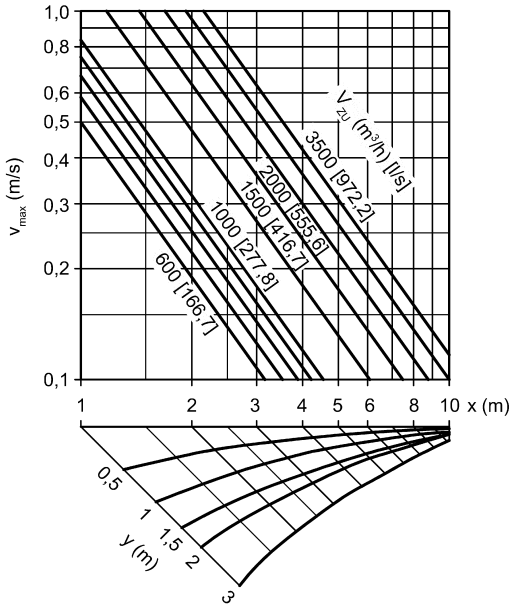
Air throw pattern "A" = diagram value x 1.22

DQJ-...-SQ-Z-...-600-...



Air throw pattern "A" = diagram value x 1.4

DQJ-Q-SQ-Z-...-800-...

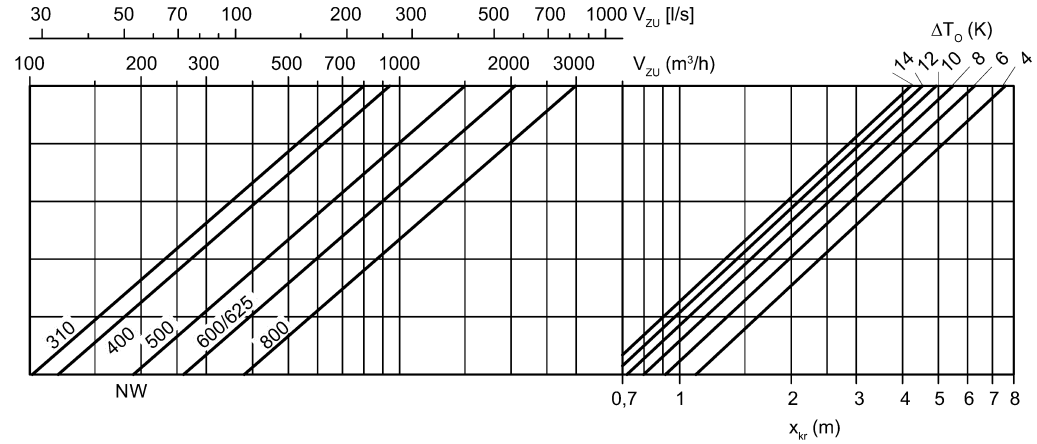


Air throw pattern "A" = diagram value x 1.4

critical throw

DQJ-...-SR-Z-... / DQJ-...-SR-Z-...-PS-...

for supply air, with coanda effect

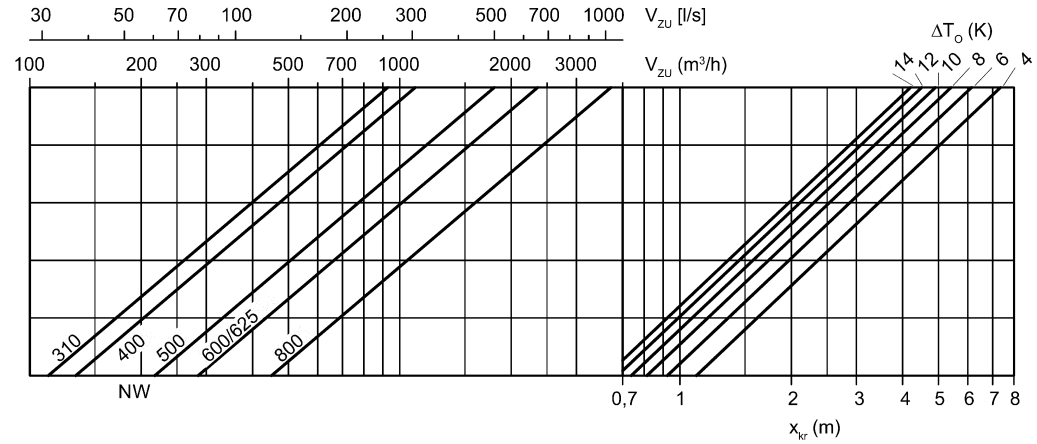


Air throw pattern "B"

Air throw pattern "A" = x_{kr} x 1.12

DQJ-...-SQ-Z-...

for supply air, with coanda effect

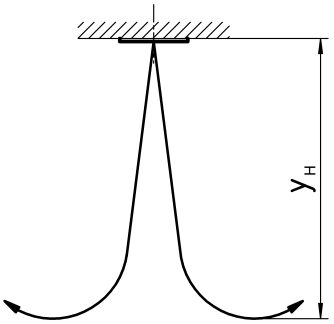


Air throw pattern "B"

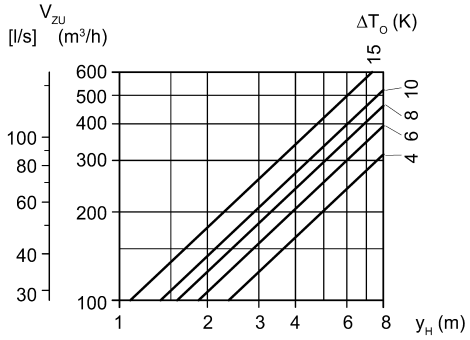
Air throw pattern "A" = x_{kr} x 1.12

Maximum penetration

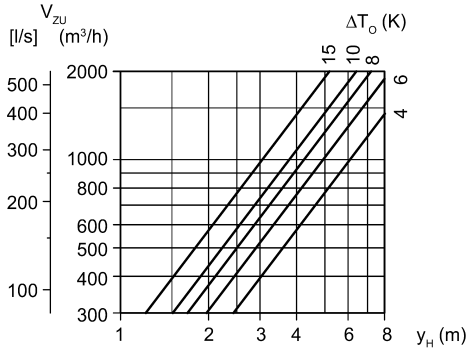
DQJ-...-SR-... / DQJ-...-SR-Z-...-PS-...
in heating mode, blade position 1



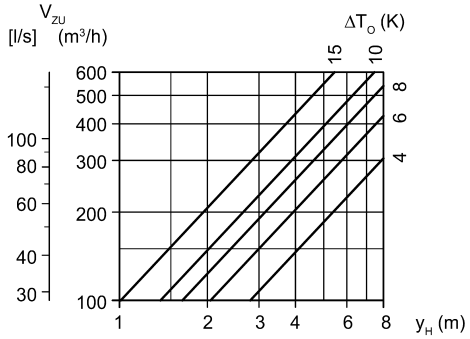
DQJ-...-SR-Z-310-...-PS-...



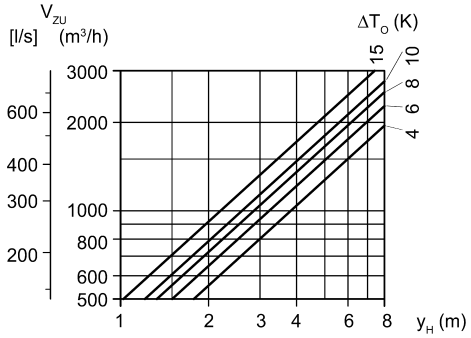
DQJ-...-SR-...-600-... / DQJ-...-SR-Z-600-...-PS-...



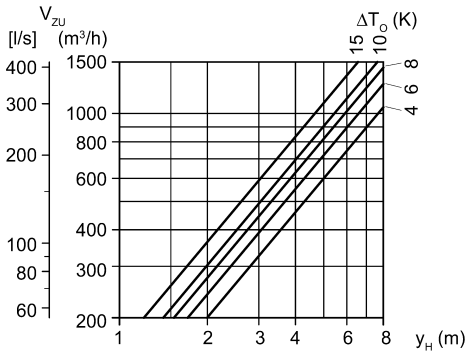
DQJ-...-SR-Z-400-...-PS-...



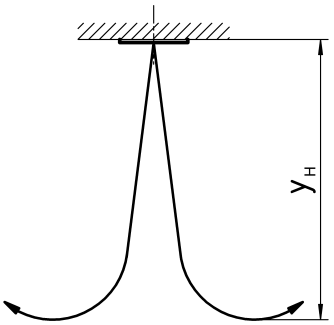
DQJ-Q/R-SR-...-800-... / DQJ-Q/R-SR-Z-800-...-PS-...



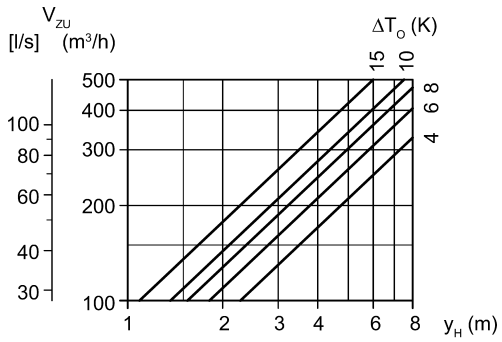
DQJ-...-SR-...-500-... / DQJ-...-SR-Z-500-...-PS-...



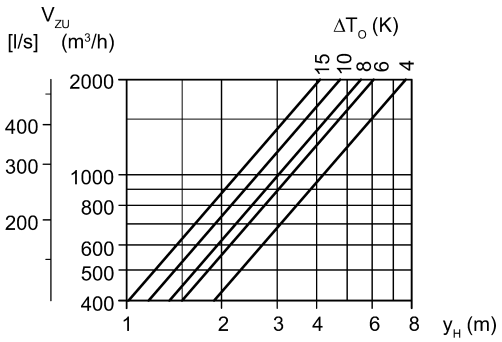
DQJ-...-SQ-...
in heating mode, blade position 1



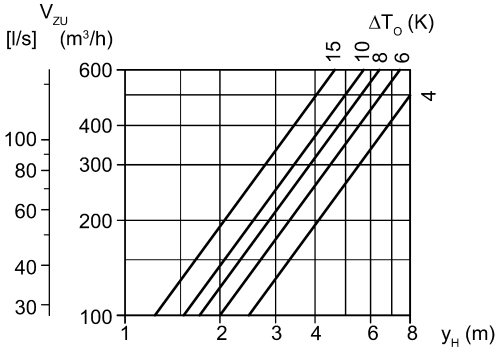
DQJ-...-SQ-310-...-PS-...



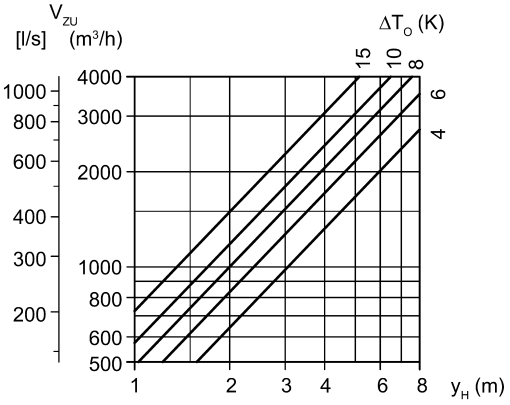
DQJ-...-SQ-600-...



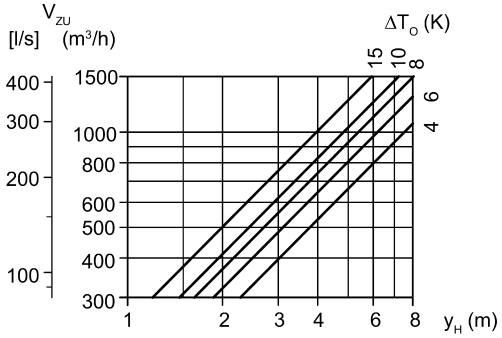
DQJ-...-SQ-400-...



DQJ-Q-SQ-800-...

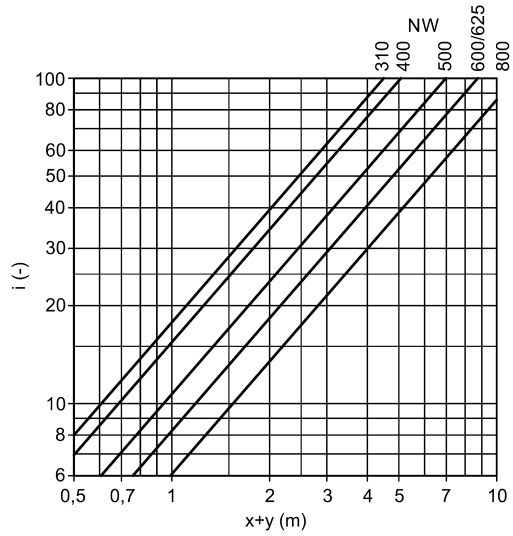


DQJ-...-SQ-500-...



Induction ratio

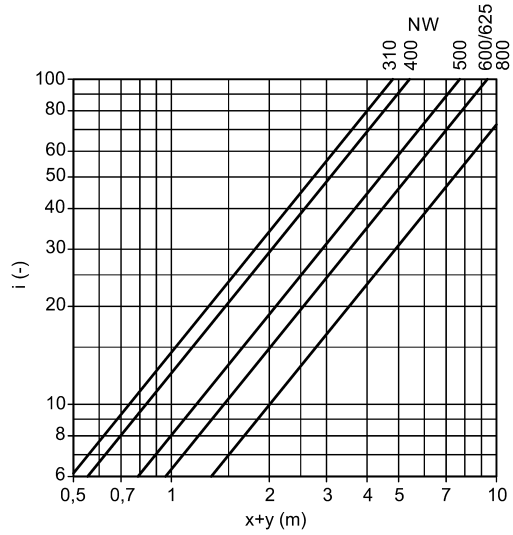
DQJ-...-SR-Z-... / DQJ-...-SR-Z-...-PS-..., with coanda effect



Air throw pattern "A" = diagram value x 0.8

Free jet = diagram value x 1.4

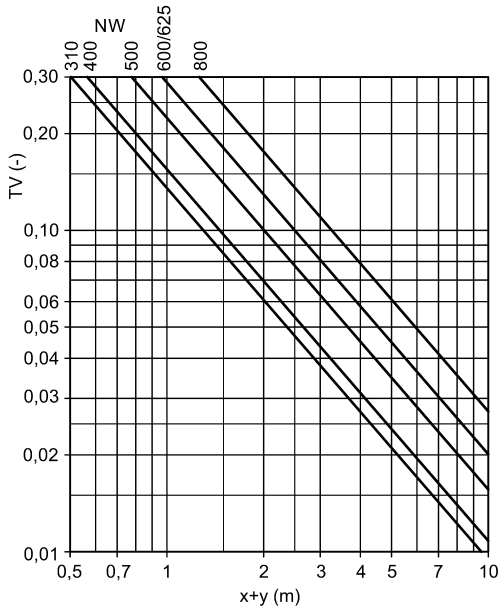
DQJ-...-SQ-Z-..., with coanda effect



Air throw pattern "A" = diagram value x 0.84

Temperature ratio

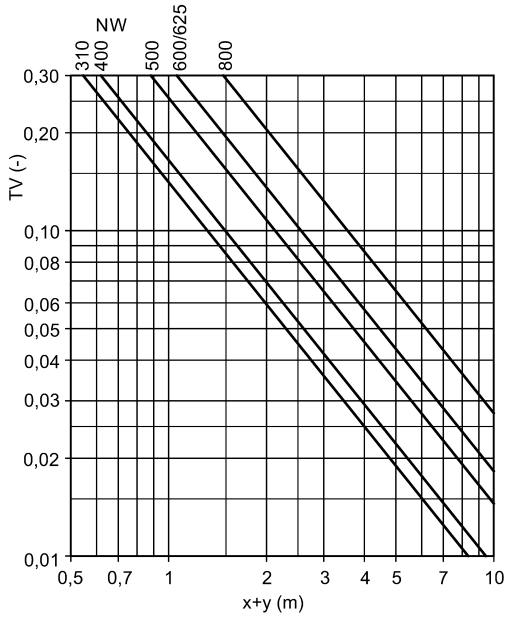
DQJ-...-SR-Z-... / DQJ-...-SR-Z-...-PS-..., with coanda effect



Air throw pattern "A" = diagram value x 1.3

Free jet = diagram value x 0.7

DQJ-...-SQ-Z-..., with coanda effect



Air throw pattern "A" = diagram value x 1.18

LEGEND

V_{ZU}	(m³/h) [l/s]	=	Supply air volume
V_{AB}	(m³/h) [l/s]	=	Return air volume
V_X	(m³/h) [l/s]	=	Total air jet volume at point x
v_{max}	(m/s)	=	Maximum end velocity of jet
v_{mit}	(m/s)	=	Average end velocity of jet ($v_{mit} = v_{max} \times 0,5$)
x	(m)	=	horizontal jet path
y	(m)	=	vertical throw
x+y	(m)	=	Horizontal + vertical throw
x_{kr}	(m)	=	critical throw
y_H	(m)	=	Maximum penetration depth in heating mode
ΔT_O	(K)	=	Temperature difference between supply air temperature and room temperature ($\Delta T_O = t_{ZU} - t_R$)
ΔT_X	(K)	=	Temperature difference at point x
t_{ZU}	(°C)	=	Supply air temperature
t_R	(°C)	=	Room temperature
Δp_t	(Pa)	=	Pressure loss
L_{WA}	[dB(A)]	=	A-weighted sound power level
ρ	(kg/m³)	=	Density
i	(-)	=	Induction ratio ($i = V_X / V_{ZU}$)
TV	(-)	=	Temperature ratio ($TV = \Delta T_X / \Delta T_O$)
NW	(mm)	=	Nominal width
DS	(%)	=	Damper position (0% = CLOSED / 100% = OPEN)

ORDER CODE DQJ

01	02	03	04	05	06	07	08	09
Type	Model	Blade pattern	Air throw	Faceplate size	Material	Paint	Perforation	Blades
Example								
DQJ	-Q	-SR	-Z	-500	-SB	-9010	-500	-PT

10	11	12	13	14	15	16	17
Blade colour	Air throw pattern	Mounting	Motor adjustment	Hit-and-miss damper	Damper	Cover	Ball-impact guard
-L9005	-B	-VM	-M0	-SN	-D0	-A0	-B0

Sample

DQJ-Q-SR-Z-500-SB-9010-500-PT-L9005-B-VM-M0-SN-D0-A0-B0

Ceiling swirl diffuser type DQJ I square faceplate I circular blade pattern I supply air I NW 500 I faceplate made of sheet steel I faceplate painted to RAL 9010 I NW 500 I blades divided I blade colour similar to RAL 9005 black I air throw pattern B I concealed mounting I without motor adjustment I without hit-and-miss damper I without damper I without cover I without ball-impact guard

Order details

01 - Type

DQJ = Ceiling swirl diffuser

02 - Model

Q = Square faceplate
R = round faceplate (only concealed mounting VM possible)
S = square faceplate, double-folded edge (not possible for NW 800)

03 - Blade pattern

SR = circular
SQ = square (not possible for round faceplate)

04 - Air throw

Z = Supply air
A = Return air

05 - Faceplate size

310 = NW 310
400 = NW 400
500 = NW 500
600 = NW 600
625 = NW 625
800 = NW 800

Note: If the faceplate is larger than the perforation, only concealed mounting is possible.
The faceplate can never be smaller than the perforation

06 - Material

SB = Sheet steel (standard)
V2 = Stainless steel (V2A) (not available for DQJ-S... model)
AL = Aluminium (only possible with VM) (not available for DQJ-S... model)
SV = Galvanised sheet steel (not available for DQJ-S... model)

07 - Paint

0000 = without paint (galvanised sheet steel)
9010 = RAL colour white (standard)
xxxx = RAL colour can be freely selected
ELOX = Natural colour anodised (only for AL)
SAND = Sand silver (only for V2A)

08 - Perforation

310 = NW 310 (standard for faceplate size NW310)
400 = NW 400 (standard for faceplate size NW400)
500 = NW 500 (standard for faceplate size NW500)
600 = NW 600 (standard for faceplate size NW600 and NW 625)
800 = NW 800 (standard for faceplate size NW800)

09 – Blades

PT = Divided blades (starting from NW 500, for model -SQ, starting from NW 400) - (for supply air only)
PS = Continuous blades (only for supply air)
P0 = without blades (only possible for return air)

10 - Blade colour

L9005 = Blades made of plastic material similar to RAL 9005 (black)
L9006 = blades made of plastic material similar to RAL9006 (grey)
L9010 = Blades made of plastic material similar to RAL9010 (white)
Axxxx = Blades made of aluminium, RAL colour can be freely selected
00000 = without blades (only possible for return air)

11 - Air throw pattern

A = All blades in position 2 (standard for NW310)
B = Blades in positions 1+2, set ex works (only available from NW 400)
C = without blades (only possible for return air)
V = all blades in blade position 1 (heating mode only)

12 - Mounting

VM = concealed mounting (standard for DQJ-R-... , DQJ-S-... and DQJ-Q/S-...-800-..., only possible in conjunction with SK-Q-.../SK-R-...); without SK-Q-.../ SK-R-.., the counter pole brace must be provided on site
SM = screw mounting (standard for DQJ-Q-... and DQJ-Q-SR-Z-800-...-PS-...-M2 (with motor adjustment), not possible for DQJ-S-... and NW 800)
MM = central mounting (available only with SK-Q-.../SK-R-..., standard for DQJ-...-SR-Z-...-PS-... up to NW 625, not possible for exhaust air)
VS = Screw mounting with concealed mounting (available only for NW800 in conjunction with ball-impact guard)

13 - Motor adjustment

M0 = Without motor adjustment (standard)
M1 = With actuator (only DQJ-Q-SR-Z-...-PS-..., NW 500-625, possible only with screw mounting)
M2 = With actuator (only DQJ-Q-SR-Z-...-PS-..., NW 800, possible only with screw mounting)

14 - Hit-and-miss damper

SN = Without hit-and-miss damper (standard)
SS = With hit-and-miss damper (only DQJ-Q/S-SR-... DQJ-Q/S-SQ-..., without plenum box)

15 - Damper

D0 = Without damper (standard)
DV = With damper (only DQJ-R-SR-... with SM mounting possible)

16 - Cover

A0 = without cover (standard)
AD = with 1/4 cover (only possible for supply air model)

17 – Ball-impact guard

B0 = without ball-impact guard (standard)
BS = With ball-impact guard, painted same as faceplate

ORDER CODE SK

01	02	03	04	05	06	07
Plenum box	Model	Air diffuser	Type of air	Nominal width	Fastening	Material
Example						
SK	-Q	-01	-Z	-500	-VM	-SV

08	09	10	11	12	13	14	15
Damper	Rubber lip seal	Volumetric flow meter	ROB version	Insulation	Height of box	Spigot diameter	Spigot position
-DK1	-GD1	-VME1	-ROB0	-I0	-KHS	-SDS	-S1

Sample

SK-Q-01-Z-500-VM-SV-DK1-GD1-VME1-ROB0-I0-KHS-SDS-S1

Plenum box, square design I for square air diffusers I air diffuser DQJ I supply air I NW 500 I with concealed mounting I galvanised sheet steel I with damper I with rubber lip seal I with volumetric flow meter I without ROB model I without box insulation I standard height of plenum box I standard spigot diameter I 1 lateral spigot

Order details

01 - Plenum box

SK = Plenum box, square design

02 - Model

Q = for square air diffusers
R = for round air diffusers with round diffuser support

03 - Air diffuser (must be ordered separately)

01 = suitable for DQJ-...

04 - Type of air

Z = Supply air
A = Return air

05 - Nominal width

310 = NW 310
400 = NW 400
500 = NW 500
600 = NW 600
625 = NW 625
800 = NW 800

06 - Fastening

VM = concealed mounting (standard for DQJ-R-... , DQJ-S-... and DQJ-Q/S-...-800-...)
SM = screw mounting (standard for DQJ-Q-... and DQJ-Q-SR-Z-800-...-PS-...-M2 (with motor adjustment), not possible for DQJ-S-... and NW800)
MM = Central mounting (not possible for exhaust air)
VS = Screw mounting with concealed mounting (only for NW800 for the version with ball-impact guard)

07 - Material

SV = Galvanised sheet steel (standard)
V2 = stainless steel (V2A)

08 - Damper

DK0 = Without damper (standard)
DK1 = With damper
DK2 = with damper + cable

09 - Rubber lip seal

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

10 – Volumetric flow meter

VME0 = Without volumetric flow meter (standard)
VME1 = With volumetric flow meter

11 – ROB version

ROB0 = Without ROB version (standard)
ROB1 = With ROB version (not possible for SK-R-...)

12 - Insulation

I0 = Without insulation (standard)
Ii = With box insulation inside
Ia = With box insulation outside

13 – Height of box

KHS = Height of plenum box standard

xxx = Height of box in mm (minimum height = spigot diameter + 102 mm for SK-Q..., but at least 200 mm/ spigot diameter + 137 mm for SK-R-..., but at least 235 mm) (for models SK-Q-01-Z-310 / -400-...-DK1 / -DK2-...-S0 and SK-R-01-Z-310 / -400 / -500-...-DK1 / -DK2-...-S0, observe special height of plenum box (see p.12))

14 – Spigot diameter

SDS = Spigot diameter standard

xxx = Spigot diameter in mm

15 – Spigot position

S0 = Spigot from above

S1 = 1 lateral spigot on the box (standard)

S2 = 2 spigots offset by 90°

S3 = 2 spigots offset by 180°

S5 = 2 spigots arranged next to each other

SPECIFICATION TEXTS

Ceiling swirl diffuser type **DQJ-Q-SR-Z-...**, with square faceplate, circular blade pattern. Particularly suitable for installation in comfort rooms with high number of air changes, for clean rooms (in connection with particle filter boxes) and for VAV installations with variable volumetric flows (between 40-100%). Cooling and heating modes are possible. With faceplate made of sheet steel with high-quality powder coating, painted sheet steel RAL 9010 (white). With central pivoting, aerodynamic radially arranged air deflection blades in support blade profile sections made of plastic in a colour similar to RAL 9010 (white), RAL 9005 (black, standard) or aluminium painted to the RAL colour of the faceplate (subsequent adjustment of blades not possible). Each blade is adjustable from the diffuser faceplate without using any special tools or dismounting the diffuser. The blades are divided lengthwise, allowing an air throw with an even higher induction to be set (air throw "B"). Free cross-section, resistance and sound power level constant in all blade positions. With visible screw mounting (-SM). For NW 800 with concealed mounting (-VM), with motor adjustment only possible with SM mounting. TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**

Volumetric flows in m³/h at:	**35 dB(A)**	**40 dB(A)**
- **NW 310**	229	278
- **NW 400**	275	335
- **NW 500**	450	575
- **NW 600/625**	680	820
- **NW 800**	1000	1220

Product: SCHAKO **type DQJ-Q-SR-Z-...**

- for supply air, with continuous air deflection blades, square faceplate and circular blade pattern. Standard with central mounting (-MM), only possible in connection with plenum box. For NW 800 with concealed mounting (-VM). TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**
  Product: SCHAKO **type DQJ-Q-SR-Z-...-PS-...**

- for return air, without air deflection blades, with square faceplate, circular perforation. TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**

Volumetric flows in m³/h at:	**35 dB(A)**	**40 dB(A)**
- **NW 310**	443	533
- **NW 400**	498	604
- **NW 500**	760	921
- **NW 600/625**	1336	1536
- **NW 800**	1625	1868

  Product: SCHAKO **type DQJ-Q-SR-A-...**

- for supply air, with air deflection blades, with square faceplate, square blade pattern, less noise and pressure loss at the same volumetric flow. TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**

Volumetric flows in m³/h at:	**35 dB(A)**	**40 dB(A)**
- **NW 310**	250	300
- **NW 400**	295	350
- **NW 500**	550	660
- **NW 600/625**	740	900
- **NW 800**	1260	1500

  Product: SCHAKO **type DQJ-Q-SQ-Z-...**

- for return air, without air deflection blades, with square faceplate, square perforation, less noise and pressure loss at the same volumetric flow. TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**

Volumetric flows in m³/h at:	**35 dB(A)**	**40 dB(A)**
- **NW 310**	475	570
- **NW 400**	495	605
- **NW 500**	810	1000
- **NW 600/625**	1380	1700
- **NW 800**	1770	2130

  Product: SCHAKO **type DQJ-Q-SQ-A-...**

- for supply air, with air deflection blades, with radial faceplate, circular blade pattern. Standard with concealed mounting (-VM). TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**
  Product: SCHAKO **type DQJ-R-SR-Z-...**
- for supply air, with continuous air deflection blades, with round faceplate, circular blade pattern. Standard with central mounting (-MM), only possible in connection with plenum box. For NW 800 with concealed mounting (-VM). TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**
  Product: SCHAKO **type DQJ-R-SR-Z-...-PS-...**
- for return air, without air deflection blades, with round faceplate, circular perforation. Standard with concealed mounting (-VM). TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**
  Product: SCHAKO **type DQJ-R-SR-A-...**
- for supply air, with air deflection blades, with square faceplate and circular blade pattern. With concealed mounting (-VM, screw mounting -SM not possible), double-folded edge, especially for use under the ceiling. TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**
  Product: SCHAKO **type DQJ-S-SR-Z-...**

- for return air, with square faceplate, radial blade pattern. With concealed mounting (-VM, screw mounting -SM not possible), double-folded edge, especially for use under the ceiling. TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**
  Product: SCHAKO **type DQJ-S-SR-A-...**
- for supply air, with continuous air deflection blades, square faceplate and circular blade pattern. With concealed mounting (-VM, screw mounting -SM not possible), double-folded edge, especially for use under the ceiling. TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**
  Product: SCHAKO **type DQJ-S-SR-Z-...-PS-...**
- for supply air, with air deflection blades, with square faceplate and circular blade pattern. With concealed mounting (-VM, screw mounting -SM not possible), double-folded edge, especially for use under the ceiling. TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**
  Product: SCHAKO **type DQJ-S-SQ-Z-...**
- for return air, without air deflection blades, with square faceplate and square blade pattern. With concealed mounting (-VM, screw mounting -SM not possible), double-folded edge, especially for use under the ceiling. TÜV inspected according to **VDI 6022 Sheets 1+2**, as well as **DIN 1946 Sheet 2.**
  Product: SCHAKO **type DQJ-S-SQ-A-...**
- with air throw pattern "A" for longer horizontal throw distance
- with air throw pattern "B": blades in blade positions 1+2
- with air throw pattern "C": without blades (only possible for return air)
- with air throw pattern "V": all blades in blade position 1 (heating mode only)
- Faceplate made of:
  - Sheet steel painted to a different RAL colour
  - Natural colour anodised aluminium (E6/EV1) (not available for DQJ-R-... and DQJ-S-... models).
  - Stainless steel painted in the colour sand silver (not available for DQJ-S-... model)
  - Galvanised sheet steel (not available for DQJ-S-...)
- with concealed mounting (-VM), made of aerodynamic aluminium profile with 2-point (NW 310), 4-point (up to NW 500) or 6-point suspension (from NW 600), only possible in conjunction with SK-Q-.../SK-R-..., without SK-Q-.../ SK-R-...; the counter pole brace must be provided on site)
- with screw mounting with concealed mounting (-VS), for mounting with ball-impact guard (-BS) (only for NW 800, not possible for DQJ-S-...).

Accessories:

- Plenum box (SK-Q-01-... and SK-R-01-...) made of galvanised sheet steel, with fixing lugs.
  - Supply air model with integrated perforated straightener.
  - Return air model inside painted to RAL 9005 (black)
  - with damper (-DK1) in plenum box, adjustable from below, for simple air volume regulation without dismounting the faceplate.
    - adjustable from below with cable (-DK2)
  - with volumetric flow meter (-VME1).
  - with ROB model (-ROB1), removable diffuser plate, damper and volumetric flow meter (only SK-Q-01-...)
  - with rubber lip seal (-GD1) on the connection spigot.
  - with thermal insulation
    - internal (-Ii)
    - external (-Ia)
  - Height of box freely selectable, xxx in mm, (minimum height = spigot diameter + 102 mm for SK-Q-01-... and spigot diameter +137 mm for SK-R-01-...), but at least 235 mm (for models SK-Q-01-Z-310 / -400-...-DK1 / -DK2-...-S0 and SK-R-01-Z-310 / -400 / -500-...-DK1 / -DK2-...-S0, observe special height of plenum box (see p.12))
  - Spigot diameter can be freely selected, xxx in mm
  - Spigot position:
    - S0= spigot from above
    - S1= 1 lateral spigot on the box (standard)
    - S2= 2 spigots offset by 90°
    - S3= 2 spigots offset by 180°
    - S5= 2 spigots arranged next to each other
- Motor adjustment (-M1 / -M2), with electric actuators (only DQJ-Q-SR-Z-...-PS-... NW 500-800 only with screw mounting) for optimum and simple change of the air throw pattern when requirements change. A damper that may have been built in has been built in offset by 90° and must be adjusted by dismounting the faceplate.
- Galvanised sheet steel hit-and-miss damper (-SS) for air volume regulation (only for DQJ-Q/S-SR-... / DQJ-Q/S-SQ-...), particularly suitable in low-lying ducts for optimum flow pattern.
- Adjustable damper (-DV) made of galvanised sheet steel (only possible for DQJ-R-SR-... with screw mounting (-SM)).
- 1/4 cover plate (-AD), made of galvanised sheet steel for individual adaptation of the air flow to room conditions (only possible for supply air version)
- Ball-impact guard (-BS), made of steel with high-quality powder coating in RAL 9010 (white), other RAL colours possible at an extra charge (possible only for DQJ-Q/R-SR-... / DQJ-Q-SQ-... with SM mounting and for NW 800 only with VS mounting)