

LFQ Linear Air Diffuser

Blade profiling advantageous to air flow pattern
Minimal installation heights due to special plenum boxes

LFQ Linear Air Diffuser

Description, summary of types

LFQ air diffuser for supply air and exhaust air. Slot type, fixed air deflection blades with an engaged profile in a progressive gradient towards the centre without disturbances of air jet by bended edges. This results in high volume flow rates at low sound power levels and an application for room cooling with a temperature difference of up to -12 K between room air and supply air is possible. Made of galvanised sheet steel, powder coating in colour RAL 9010 (white) smooth gloss with a gloss level of 80 to 90% or in another RAL colour or with galvanised surface.

The **plenum boxes**, made of galvanised sheet steel, are optimized for these air diffusers and for low installation heights, also available with powder coating. One or two lateral connecting pieces or one for connection from above as standard. In addition, with dampers and special air deflector plates for optimum air distribution with low flow noises, particularly for supply air. Setting volume flow rate is possible without dismounting of the air diffuser. With suspension holes and concealed central fastening.

For closed ceiling systems, grid ceilings and for freely suspended.



Air diffuser and plenum box with	LFQ with central fastening			LFQW with countersunk hole fastening
	lateral	two lateral	top	
	connecting piece(s)			Installation in walls of ventilation ducts - without plenum box -
• without damper, without air deflector plate	K1	K2	K3	
• with damper	K1-D	K2-D	K3-D	
• with air deflector plate	K1-L	K2-L	K3-L	
• with damper, with air deflector plate	K1-DL	K2-DL	K3-DL	

A: Front plate dimension
F: Clear ceiling cut-out dimension

Nominal sizes

Nominal size	Hole pattern Plenum box size	$\varnothing A$ [mm]	$\varnothing F$ [mm]	A_{free} [m ²]	Application ⇒ see page 12
325	325	323	260	0.0207	from 45 [m ³ /h]
400	400	398	337	0.0382	from 60 [m ³ /h]
500	500	498	437	0.0661	from 150 [m ³ /h]
600	600	595	537	0.1063	from 265 [m ³ /h]
625	600	623	537	0.1063	from 265 [m ³ /h]

- Nominal sizes correspond to the front plates.
- Hole patterns correspond to the plenum box sizes. They define the free cross-sections A_{free} of the air diffusers.
- Front plates for supply air and exhaust air are identical.

Piece list

1 Plenum box	4 Air deflector plate	7 Adjustment device
2 Connecting piece	(optional)	for damper
3 Damper	5 Air diffuser	8 Lip seal (optional)
(optional)	6 Central fastening	9 Seal

Central fastening for LFQ

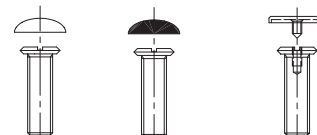
with concealed screws M8x25

Colour of air diffuser

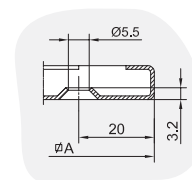
RAL 9010	special colour RAL	galvanised
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Colour of cap

white RAL 9010	black RAL 9017	special colour RAL
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Countersunk hole fastening for LFQW



Duct cutout $\varnothing Q$

⇒ see page 3

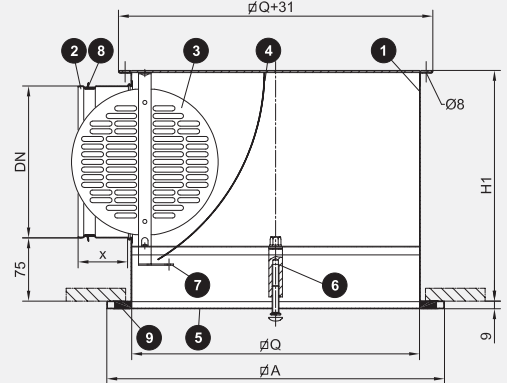
Fastening screws on-site

All dimensions in mm
⇒ colours see page 14

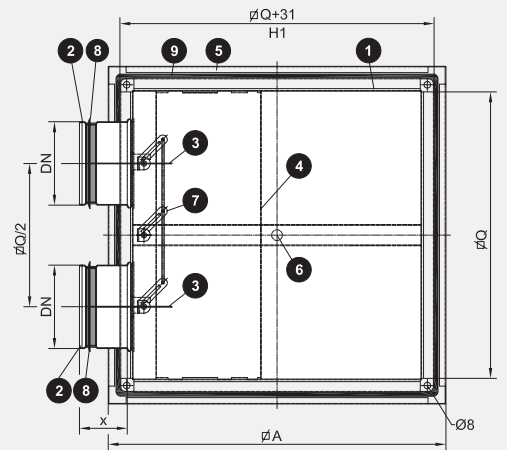
LFQ Linear Air Diffuser

Plenum boxes for closed ceiling systems, grid ceilings and for freely suspended

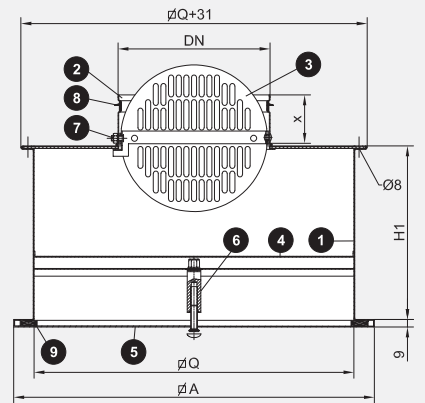
K1 - with lateral connecting piece



K2 - with two lateral connecting pieces for high volume flow rates at lowest possible box height H1



K3 - with top connecting piece



Plenum box heights H1 [mm]

Standard connecting pieces and heights of the plenum boxes K1 are in bold type

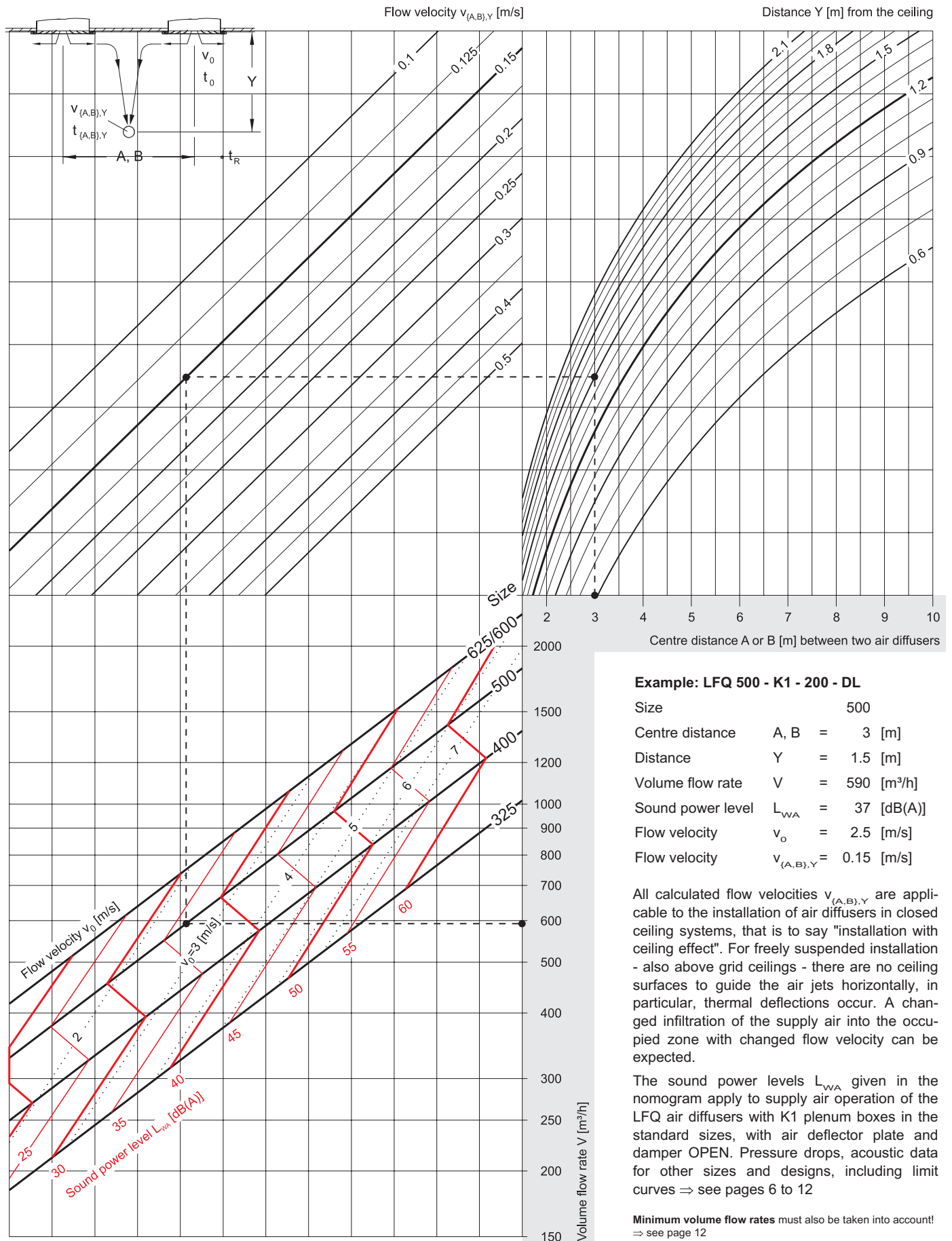
Plenum box size Hole pattern	$\varnothing Q$	Plenum box K1 with connecting piece DN											K2 with DN						K3 with DN				
		100	125	150	160	180	200	224	250	280	300	315	100	125	150	160	180	200	224	160	200	250	
325	260	190	215	240	250	270	290	-	-	-	-	-	190	-	-	-	-	-	-	-	190	-	-
400	337	-	215	240	250	270	290	314	-	-	-	-	190	215	-	-	-	-	-	-	-	190	-
500	437	-	-	240	250	270	290	314	340	370	-	-	-	215	240	250	270	-	-	-	-	190	-
600 ¹⁾	537	-	-	240	250	270	290	314	340	370	390	405	-	215	240	250	270	290	314	-	-	200	
connecting piece length x		40	40	40	40	40	40	60	60	60	60	60	40	40	40	40	40	40	60	40	40	60	

¹⁾ Plenum box size 600 is for air diffusers with nominal sizes 600 and 625 (hole pattern 600).

Front plate dimension $\varnothing A$ and piece list \Rightarrow see page 2

LFQ Linear Air Diffuser

Room flow at installation in closed ceiling systems (air jets directed on each other)



Example: LFQ 500 - K1 - 200 - DL

Size	500
Centre distance	$A, B = 3$ [m]
Distance	$Y = 1.5$ [m]
Volume flow rate	$V = 590$ [m³/h]
Sound power level	$L_{WA} = 37$ [dB(A)]
Flow velocity	$v_0 = 2.5$ [m/s]
Flow velocity	$v_{(A,B),Y} = 0.15$ [m/s]

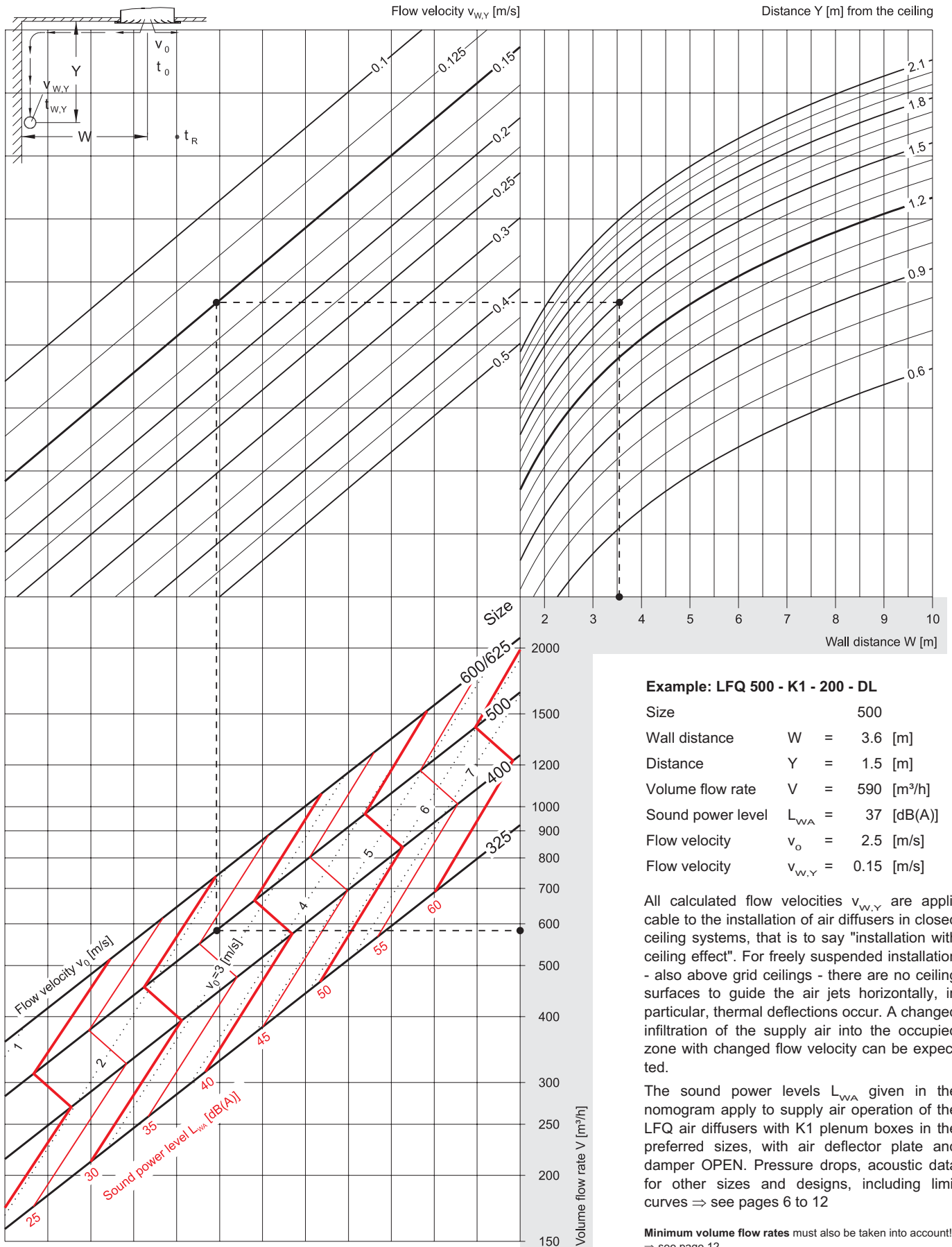
All calculated flow velocities $v_{(A,B),Y}$ are applicable to the installation of air diffusers in closed ceiling systems, that is to say "installation with ceiling effect". For freely suspended installation - also above grid ceilings - there are no ceiling surfaces to guide the air jets horizontally, in particular, thermal deflections occur. A changed infiltration of the supply air into the occupied zone with changed flow velocity can be expected.

The sound power levels L_{WA} given in the nomogram apply to supply air operation of the LFQ air diffusers with K1 plenum boxes in the standard sizes, with air deflector plate and damper OPEN. Pressure drops, acoustic data for other sizes and designs, including limit curves \Rightarrow see pages 6 to 12

Minimum volume flow rates must also be taken into account! \Rightarrow see page 12

LFQ Linear Air Diffuser

Room flow at installation in closed ceiling systems (air jets directed to the wall)



LFQ Linear Air Diffuser

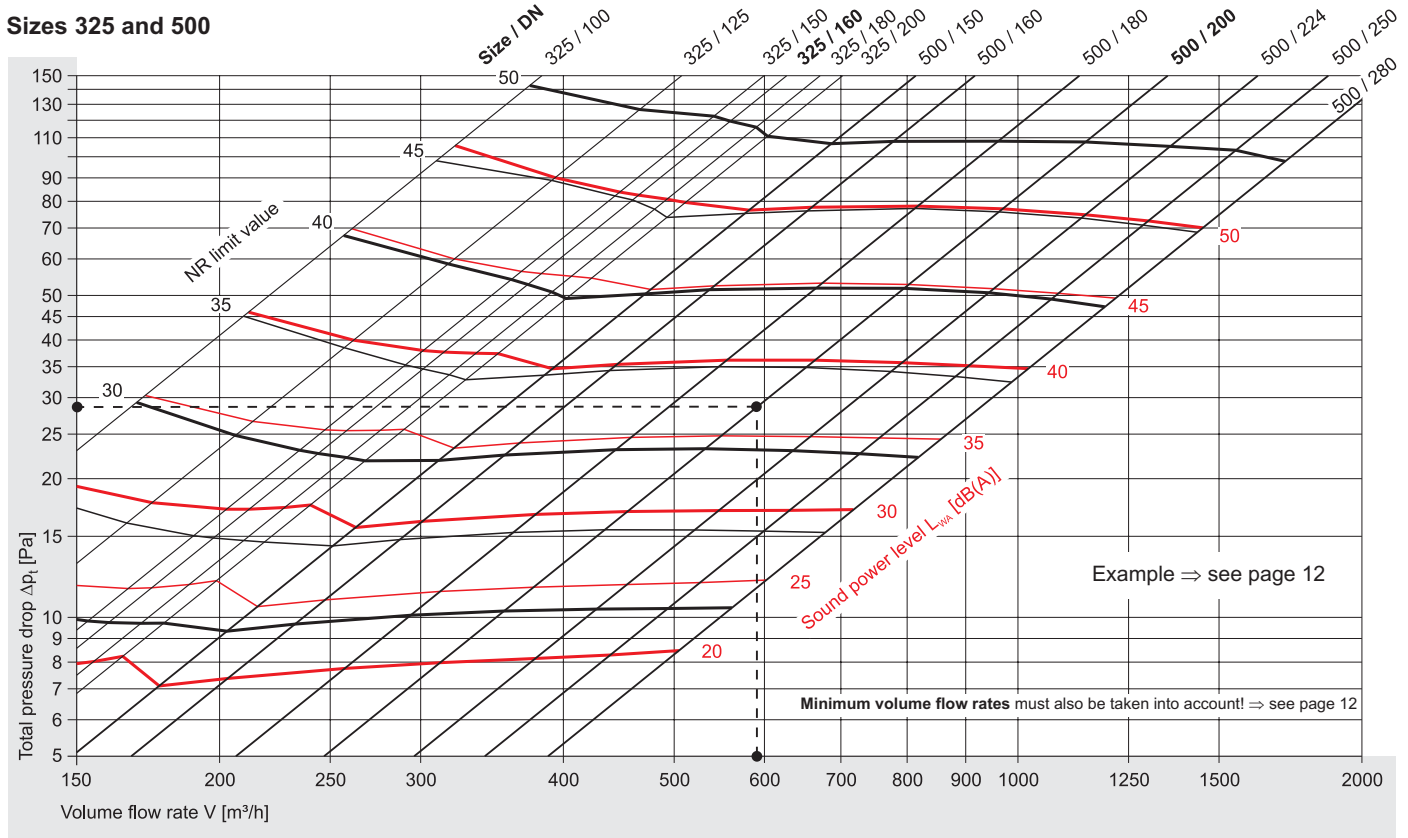
Pressure drop, sound power level, NR rating

Supply air: LFQ with plenum box K1-DL

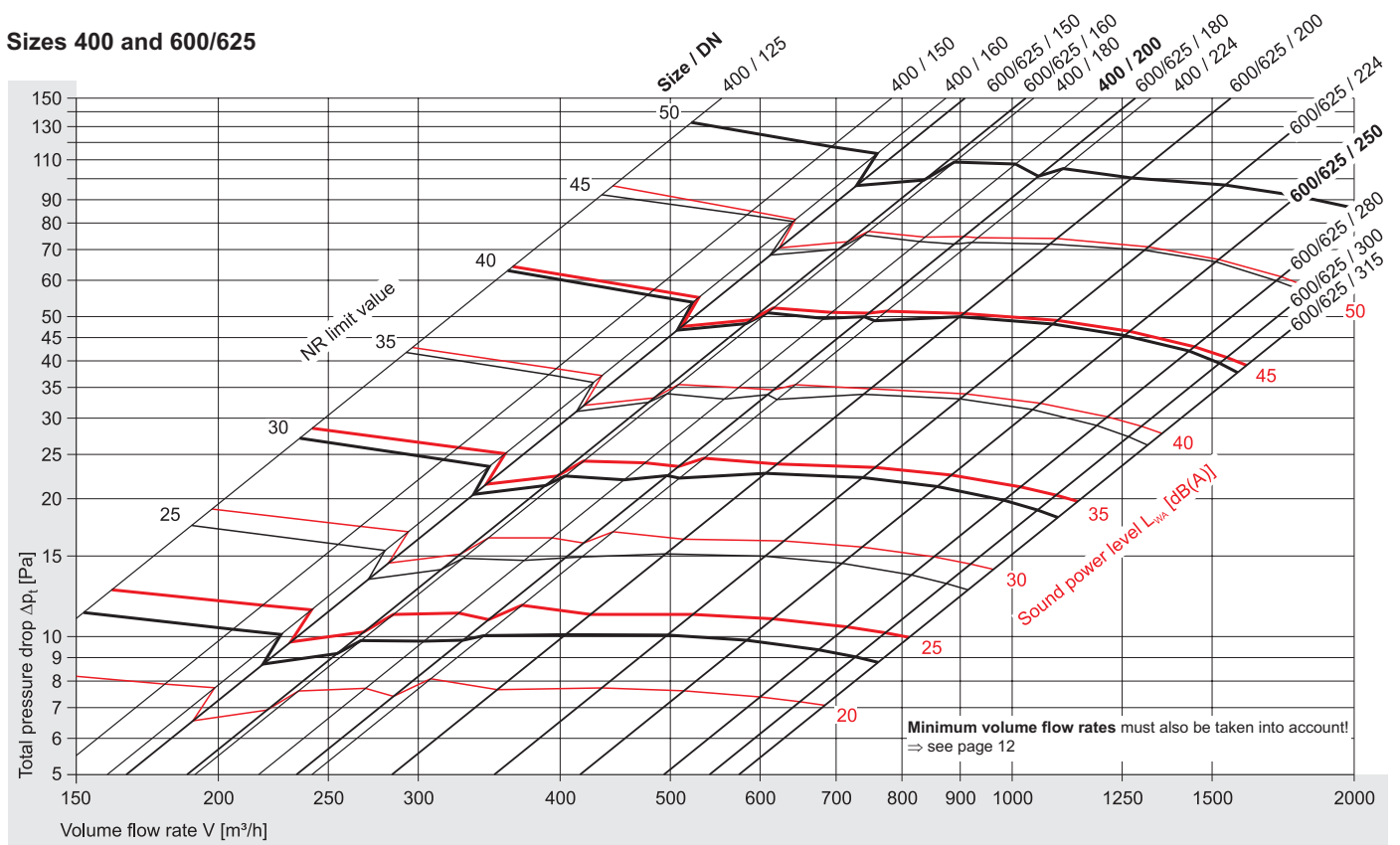
with air deflector plate and damper OPEN

corrections for damper CLOSED ⇒ see page 10

Sizes 325 and 500



Sizes 400 and 600/625



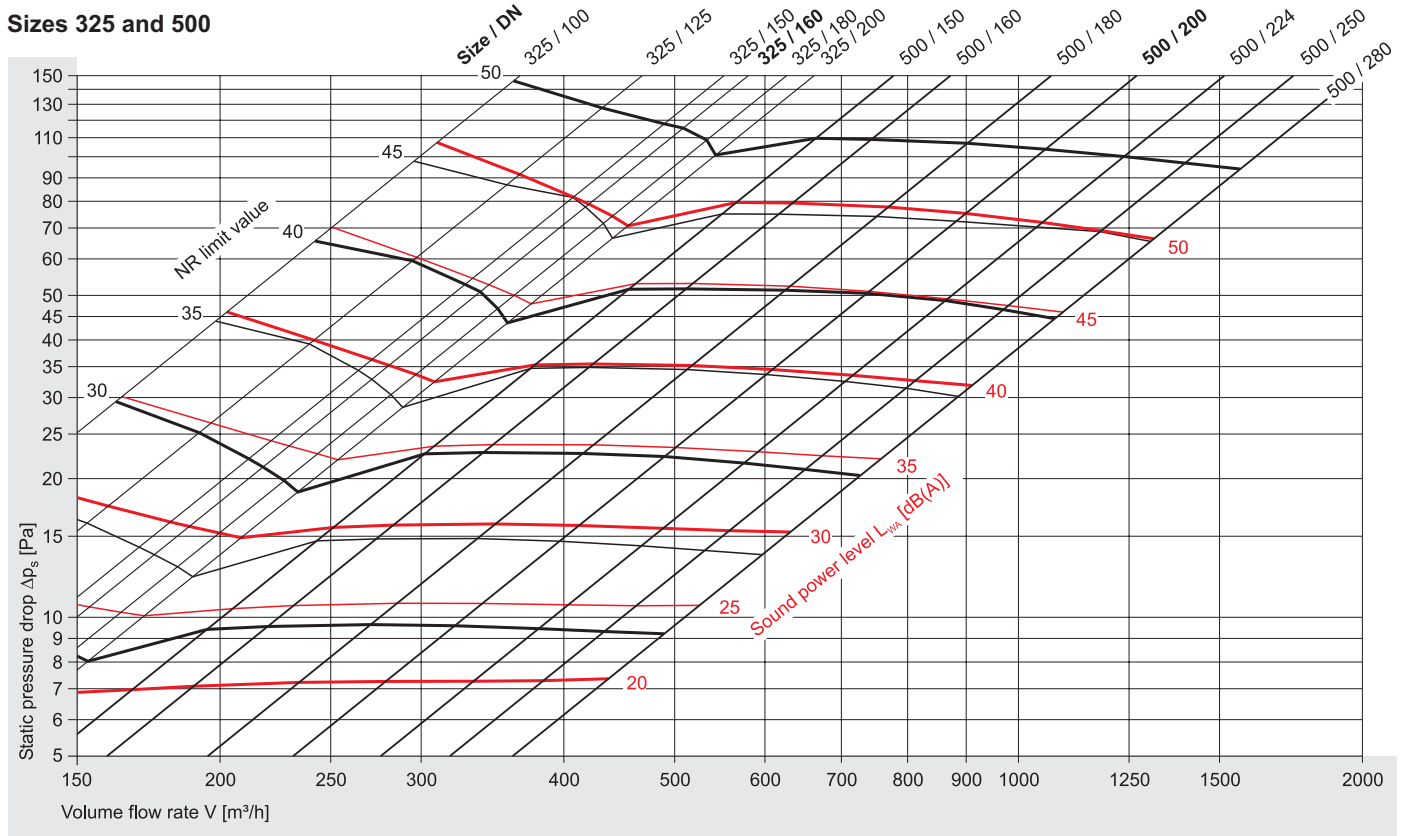
LFQ Linear Air Diffuser

Pressure drop, sound power level, NR rating

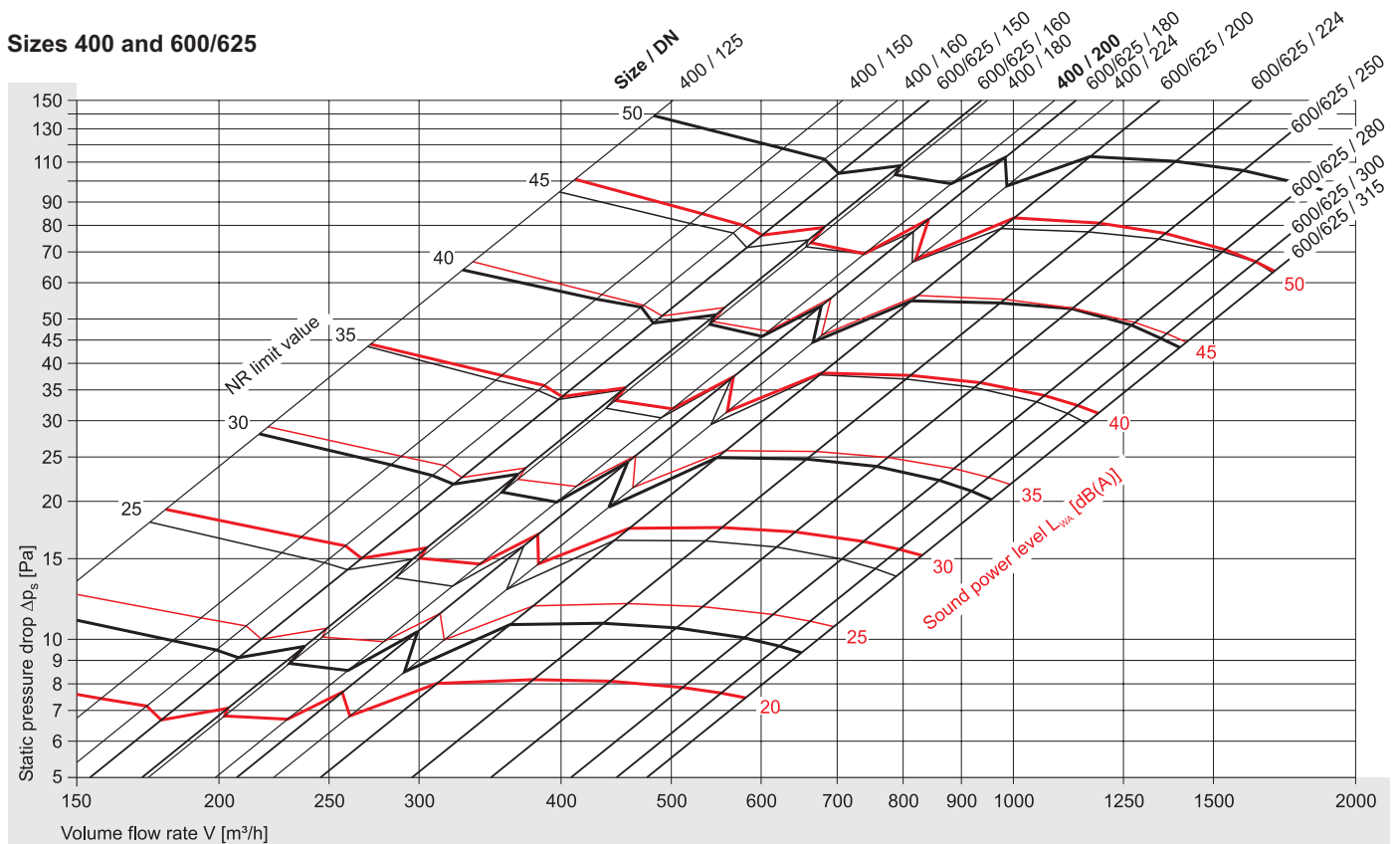
Exhaust air: LFQ with plenum box K1-D

without air deflector plate and damper OPEN
 corrections for damper CLOSED ⇒ see page 10

Sizes 325 and 500



Sizes 400 and 600/625



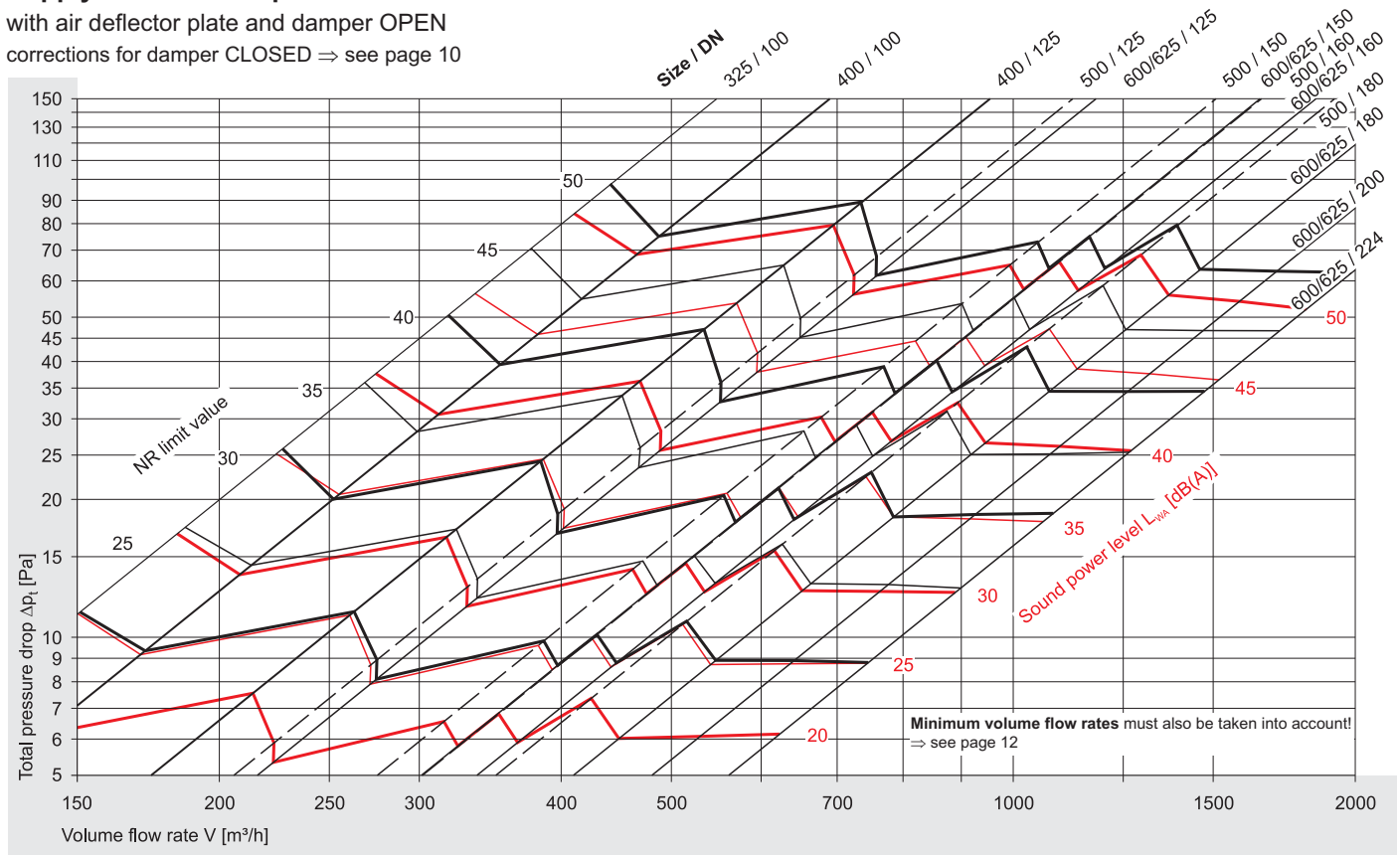
LFQ Linear Air Diffuser

Pressure drop, sound power level, NR rating

Supply air: LFQ with plenum box K2-DL

with air deflector plate and damper OPEN

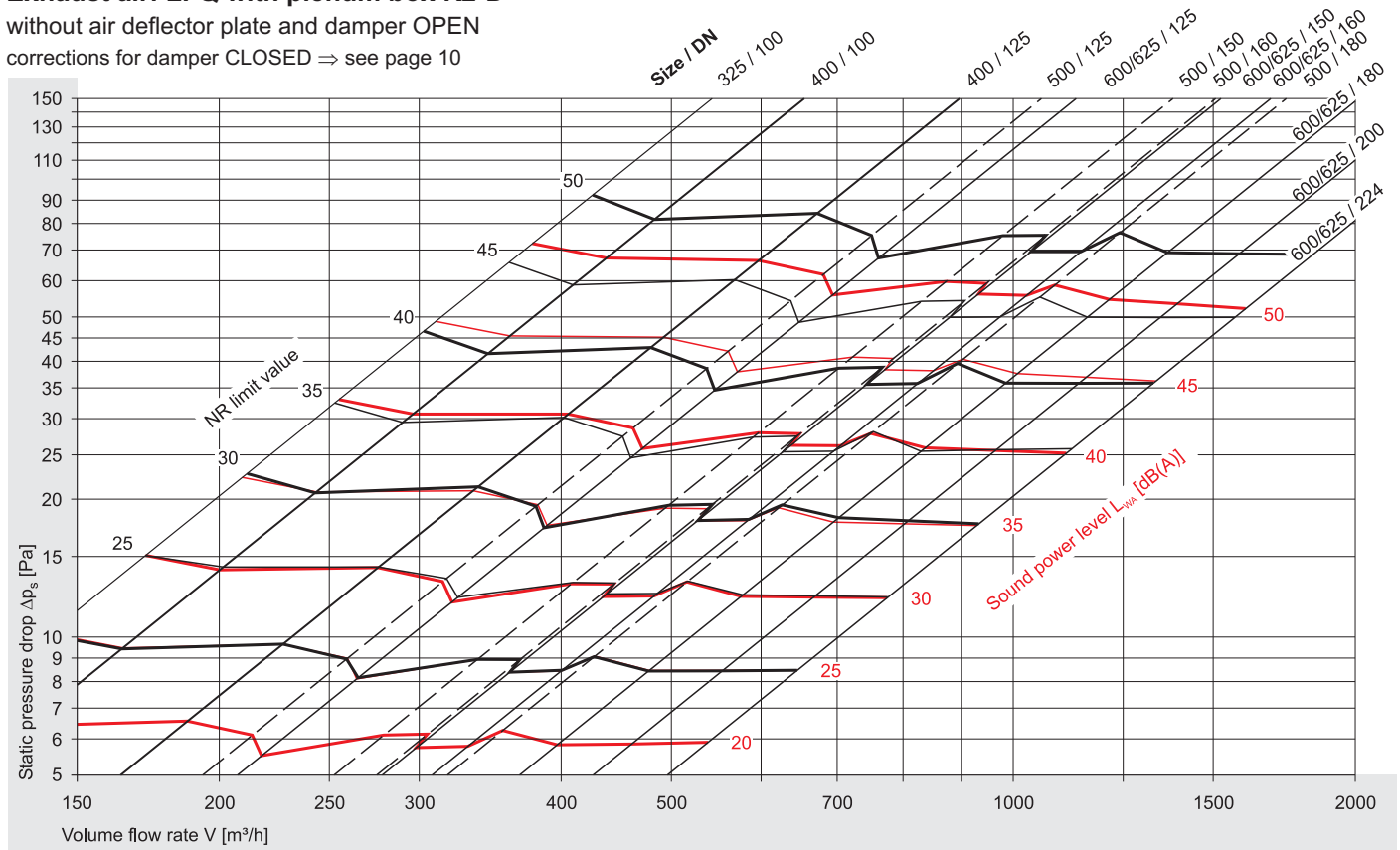
corrections for damper CLOSED ⇒ see page 10



Exhaust air: LFQ with plenum box K2-D

without air deflector plate and damper OPEN

corrections for damper CLOSED ⇒ see page 10

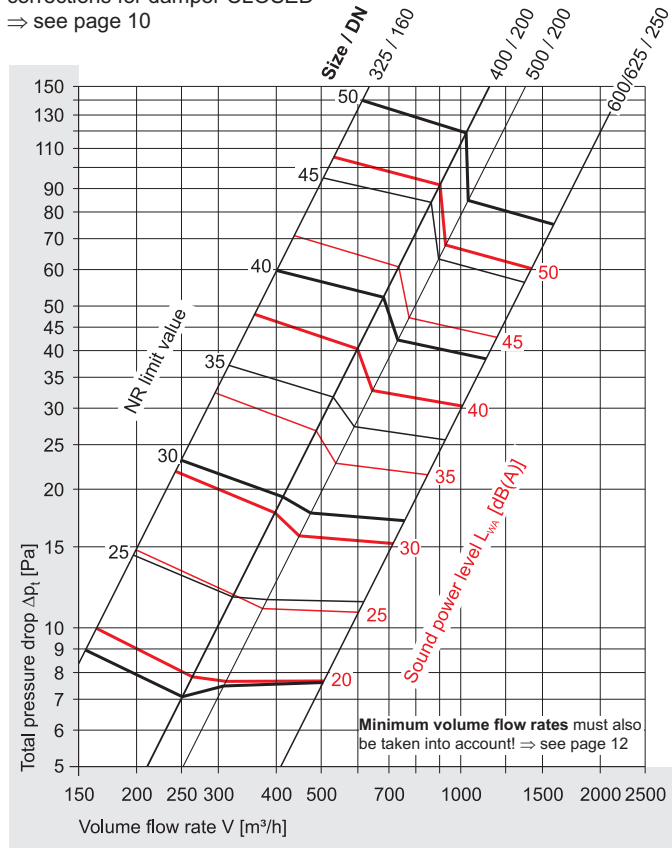


LFQ Linear Air Diffuser

Pressure drop, sound power level, NR rating

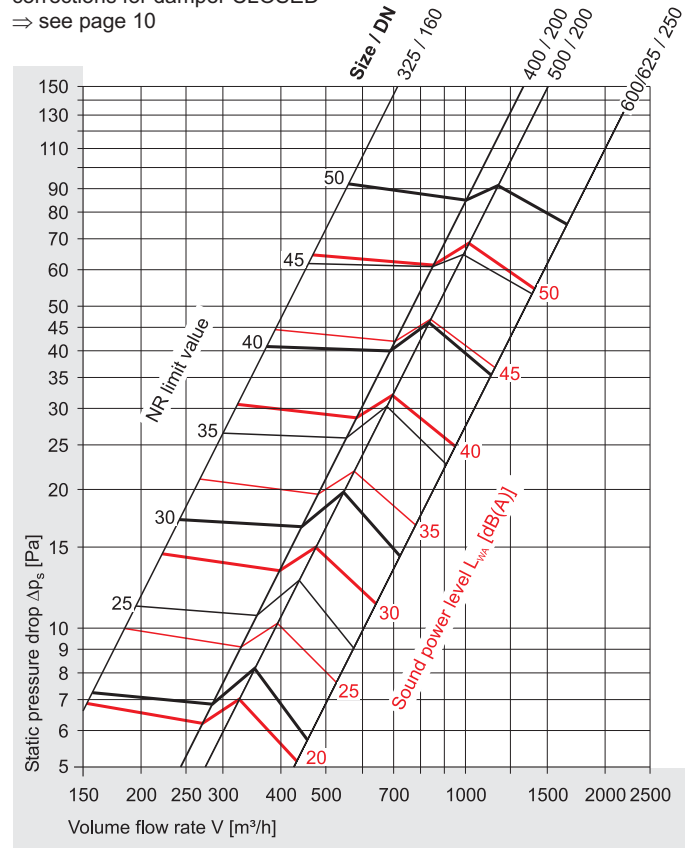
Supply air: LFQ with plenum box K3-DL

with air deflector plate and damper OPEN
 corrections for damper CLOSED
 ⇒ see page 10

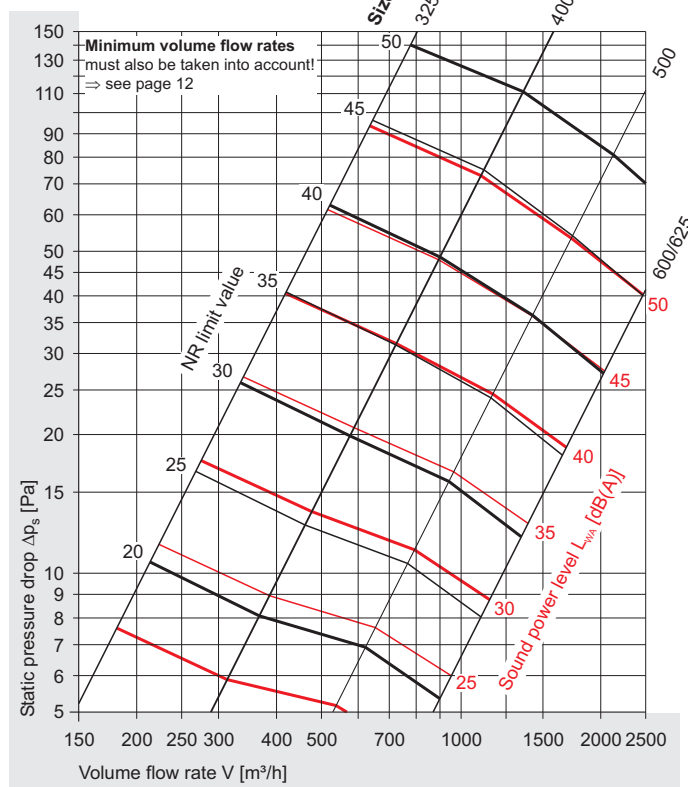


Exhaust air: LFQ with plenum box K3-D

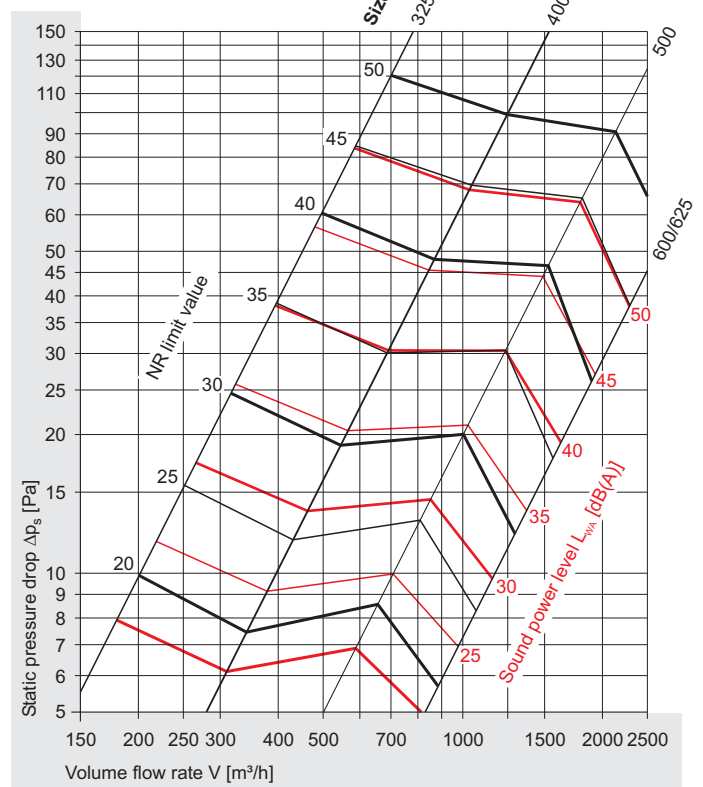
without air deflector plate and damper OPEN
 corrections for damper CLOSED
 ⇒ see page 10



Supply air: LFQW



Exhaust air: LFQW



LFQ Linear Air Diffuser

Correction values for damper CLOSED

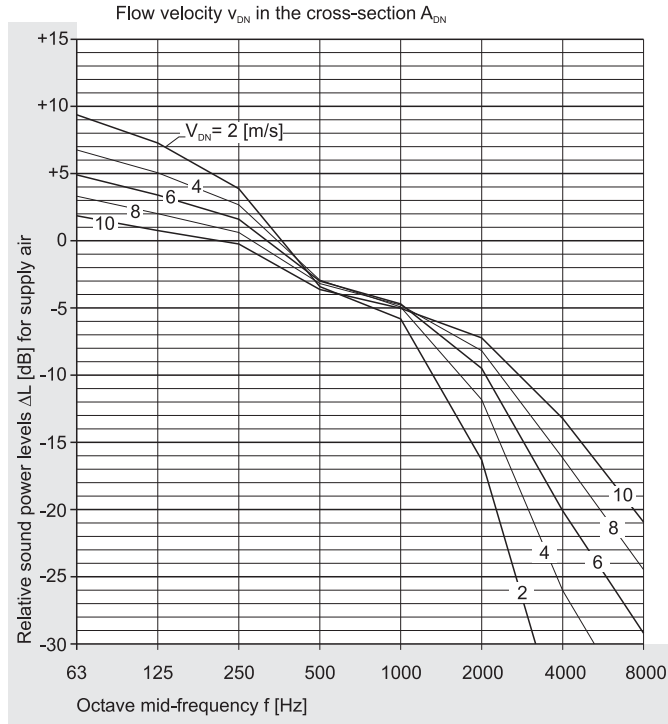
		Connecting piece	DN 100	125	150	160	180	200	224	250	280	300	315	
Supply air Plenum box K1-DL with air deflector plate	Size 325	Δp	x 4.5	3.6	2.8	2.5	2.0	1.6	-	-	-	-	-	
		L_{WA}	+ 16.5	12.0	8.5	7.3	5.5	4.3	-	-	-	-	-	
	400	Δp	x -	4.0	4.0	3.9	3.7	3.3	2.6	-	-	-	-	
		L_{WA}	+ -	14.3	15.1	15.0	14.0	12.0	8.3	-	-	-	-	
	500	Δp	x -	-	4.1	3.9	3.7	3.4	3.1	2.9	2.6	-	-	
		L_{WA}	+ -	-	13.1	13.7	14.6	15.0	14.7	13.6	11.3	-	-	
	600/625	Δp	x -	-	4.5	4.6	4.6	4.5	4.4	4.1	3.6	3.2	2.8	
		L_{WA}	+ -	-	15.5	16.4	17.6	18.2	18.2	17.2	14.8	12.4	10.2	
	Exhaust air Plenum box K1-D without air deflector plate	Size 325	Δp	x 3.7	2.7	2.0	1.8	1.6	1.5	-	-	-	-	-
			L_{WA}	+ 14.8	9.4	5.8	4.9	3.8	3.9	-	-	-	-	-
		400	Δp	x -	2.8	3.1	3.1	3.0	2.7	2.1	-	-	-	-
			L_{WA}	+ -	12.6	13.5	13.4	12.5	10.7	7.2	-	-	-	-
500		Δp	x -	-	3.3	3.2	3.1	3.0	2.9	2.6	2.3	-	-	
		L_{WA}	+ -	-	13.5	13.9	14.4	14.5	14.1	12.9	10.7	-	-	
600/625		Δp	x -	-	3.7	3.6	3.4	3.3	3.1	2.9	2.6	2.5	2.4	
		L_{WA}	+ -	-	14.5	15.0	15.7	16.1	16.0	15.4	13.8	12.3	10.9	
Supply air Plenum box K2-DL with air deflector plate		Size 325	Δp	x 3.3	-	-	-	-	-	-	-	-	-	-
			L_{WA}	+ 13.0	-	-	-	-	-	-	-	-	-	-
		400	Δp	x 4.7	4.9	-	-	-	-	-	-	-	-	-
			L_{WA}	+ 15.8	16.9	-	-	-	-	-	-	-	-	-
	500	Δp	x -	5.3	4.3	4.0	3.2	-	-	-	-	-	-	
		L_{WA}	+ -	17.3	15.3	14.5	12.9	-	-	-	-	-	-	
	600/625	Δp	x -	5.3	5.0	4.8	4.4	3.8	2.9	-	-	-	-	
		L_{WA}	+ -	15.8	20.4	21.1	20.6	17.7	10.8	-	-	-	-	
	Exhaust air Plenum box K2-D without air deflector plate	Size 325	Δp	x 3.0	-	-	-	-	-	-	-	-	-	-
			L_{WA}	+ 13.1	-	-	-	-	-	-	-	-	-	-
		400	Δp	x 3.8	3.6	-	-	-	-	-	-	-	-	-
			L_{WA}	+ 14.7	14.2	-	-	-	-	-	-	-	-	-
500		Δp	x -	3.9	3.3	3.1	2.6	-	-	-	-	-	-	
		L_{WA}	+ -	14.3	13.0	12.4	11.3	-	-	-	-	-	-	
600/625		Δp	x -	4.6	3.8	3.5	3.0	2.6	2.3	-	-	-	-	
		L_{WA}	+ -	15.2	14.7	14.3	13.2	11.7	9.4	-	-	-	-	
Supply air Plenum box K3-DL with air deflector plate		Size 325	Δp	x -	-	-	2.9	-	-	-	-	-	-	-
			L_{WA}	+ -	-	-	12.8	-	-	-	-	-	-	-
		400	Δp	x -	-	-	-	-	3.2	-	-	-	-	-
			L_{WA}	+ -	-	-	-	-	13.4	-	-	-	-	-
	500	Δp	x -	-	-	-	-	4.7	-	-	-	-	-	
		L_{WA}	+ -	-	-	-	-	19.4	-	-	-	-	-	
	600/625	Δp	x -	-	-	-	-	-	-	4.3	-	-	-	
		L_{WA}	+ -	-	-	-	-	-	-	18.5	-	-	-	
	Exhaust air Plenum box K3-D without air deflector plate	Size 325	Δp	x -	-	-	3.1	-	-	-	-	-	-	-
			L_{WA}	+ -	-	-	11.1	-	-	-	-	-	-	-
		400	Δp	x -	-	-	-	-	3.4	-	-	-	-	-
			L_{WA}	+ -	-	-	-	-	11.7	-	-	-	-	-
500		Δp	x -	-	-	-	-	4.4	-	-	-	-	-	
		L_{WA}	+ -	-	-	-	-	15.1	-	-	-	-	-	
600/625		Δp	x -	-	-	-	-	-	-	4.1	-	-	-	
		L_{WA}	+ -	-	-	-	-	-	-	12.9	-	-	-	

LFQ Linear Air Diffuser

Relative sound power levels, nomenclature

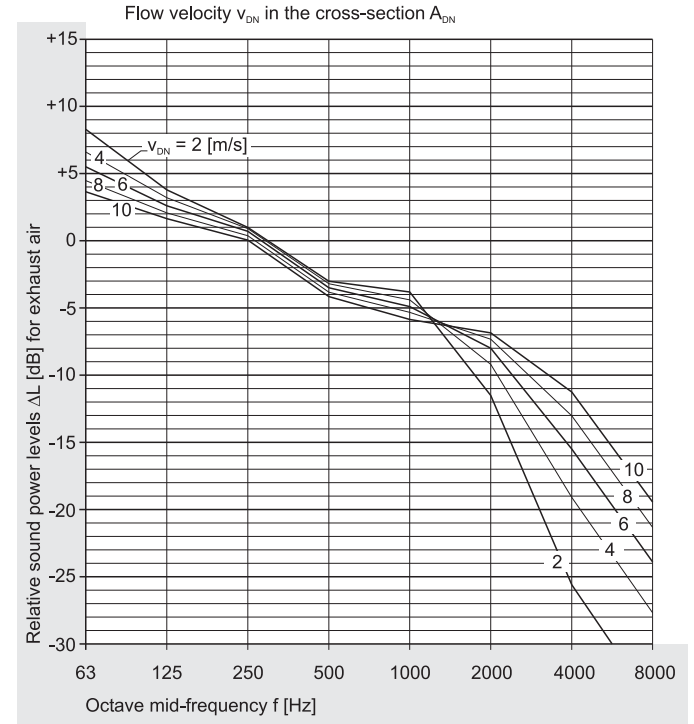
Supply air: LFQ with plenum box K1-DL

with air deflector plate and damper OPEN



Exhaust air: LFQ with plenum box K1-D

without air deflector plate and damper OPEN



Example ⇒ see also pages 4, 5 and 12

LFQ 500 - K1 - 200 - DL

$$V = 590 \text{ [m}^3\text{/h]}$$

$$L_{WA} = 37 \text{ [dB(A)]}$$

$$A_{DN} = (0.2 \text{ [m]})^2 \cdot \pi / 4 = 0.0314 \text{ [m}^2\text{]}$$

$$v_{DN} = 590 \text{ [m}^3\text{/h]} / (3600 \cdot 0.0314 \text{ [m}^2\text{)}) = 5.2 \text{ [m/s]}$$

Octave sound power level L_{W-Oct} , damper OPEN

f	[Hz]	63	125	250	500	1000	2000	4000	8000
L_{WA}	[dB(A)]	37	37	37	37	37	37	37	37
$\Delta L_{v_{DN}=5.2 \text{ [m/s]}}$	[dB]	6	4	2	-3	-5	-10	-22	-32
L_{W-Oct}	[dB]	43	41	39	34	32	27	<20	<20

Relative sound power levels ΔL for plenum boxes K2, K3 and for installation in ducts ⇒ see WILDEBOER - selection software

Nomenclature

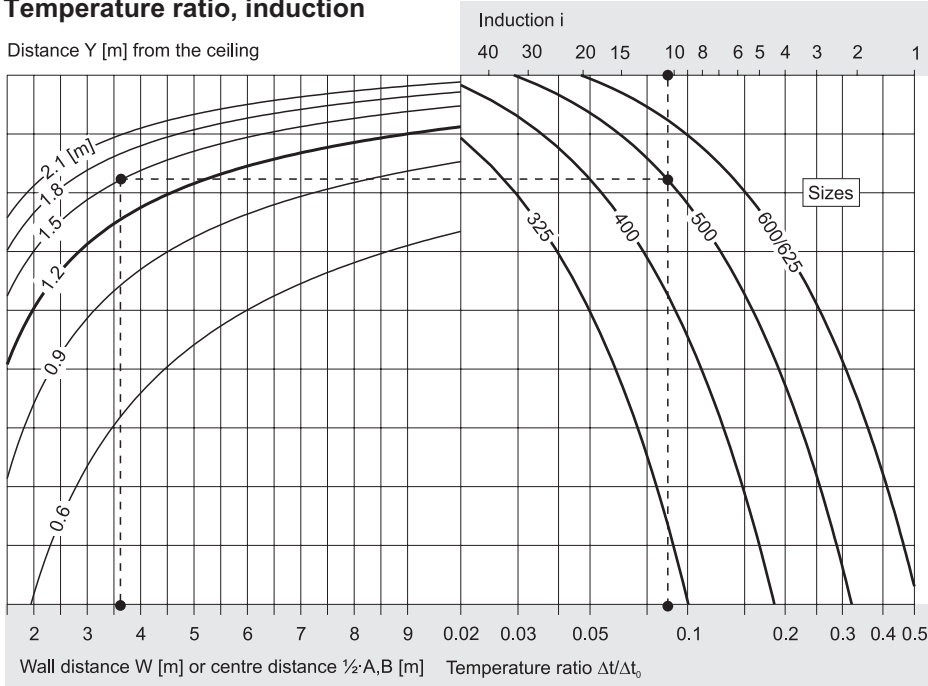
- DN [mm] = Connecting piece size
- A_{free} [m²] = Free cross-section of the air diffuser
- A_{DN} [m²] = Cross-section $A_{DN} = (DN \text{ [m]})^2 \cdot \pi / 4$
- V [m³/h] = Volume flow rate
- v_o [m/s] = Flow velocity in A_{free}
 $v_o = V / (3600 \cdot A_{free})$
- v_{DN} [m/s] = Flow velocity in A_{DN}
 $v_{DN} = V / (3600 \cdot A_{DN})$
- $v_{\{A,B\},Y}$ [m/s] = Flow velocity after the flow path
($\{A/2, B/2\} + Y$)
- $v_{W,Y}$ [m/s] = Flow velocity after the flow path
($W + Y$)
- A, B [m] = Distance between two air diffusers
- W [m] = Distance from air diffuser to wall
- Y [m] = Distance from the ceiling
- $t_{\{A,B\},Y}$ [°C] = Temperature after the flow path ($\{A/2, B/2\} + Y$)
 $t_{\{A,B\},Y} = (\Delta t / \Delta t_o) \cdot (t_o - t_R) + t_R$
- $t_{W,Y}$ [°C] = Temperature after the flow path ($W + Y$)
 $t_{W,Y} = (\Delta t / \Delta t_o) \cdot (t_o - t_R) + t_R$

- Δt_o [K] = Temperature difference; $\Delta t_o = t_o - t_R$
- t_o [°C] = Supply air temperature
- t_R [°C] = Room temperature
- $\Delta t / \Delta t_o$ = Temperature ratio
- i = Induction
- V_s [m³/h] = Secondary volume flow rate; $V_s = i \cdot V$
- Δp_t [Pa] = Total pressure drop
- Δp_s [Pa] = Static pressure drop
- L_p [dB] = Sound pressure level
- L_{pA} [dB(A)] = A-weighted sound pressure level
- L_w [dB] = Sound power level
- L_{WA} [dB(A)] = A-weighted sound power level
- L_{W-Oct} [dB] = Octave sound power level
 $L_{W-Oct} = L_{WA} + \Delta L$
- NR = Sound power related NR limit value
- NC = Sound power related NC limit value
- ΔL [dB] = Relative sound power level to L_{WA}
- ΔL_R [dB] = Acoustic room attenuation
- f [Hz] = Octave mid-frequency

LFQ Linear Air Diffuser

Temperature ratio, induction, limit curves, room acoustics, range of application

Temperature ratio, induction



Example ⇒ see also pages 4 to 6

LFQ 500 - K1 - 200 - DL

Size	500
Volume flow rate	V = 590 [m³/h]
Sound power level	L _{WA} = 37 [dB(A)]
Total pressure drop	Δp _t = 29 [Pa]
Wall distance	W = 3.6 [m]
Distance from the ceiling	Y = 1.5 [m]
Temperature ratio	Δt/Δt ₀ = 0.09
Induction	i = 10.5
Secondary volume flow rate	V _s = i · V = 6195 [m³/h]

Acoustic limit values NR, NC

The NR limit values in accordance with ISO 1996 given in the nomograms are calculated from octave sound power levels and are therefore not related to sound pressure levels. The room attenuation ΔL_R is not considered; this depends on the room acoustics in each individual case. NC limit values, like NR limit values, are to be referenced to sound pressure level. NC = NR - 4 may be used as an approximation in air conditioning and ventilation applications.

Room attenuation ΔL_R

Individual sound power levels are given in the nomograms. The sum of all sound pressure levels should be used for an acoustic assessment. This differs from the sum of the individual sound power levels by the room attenuation:

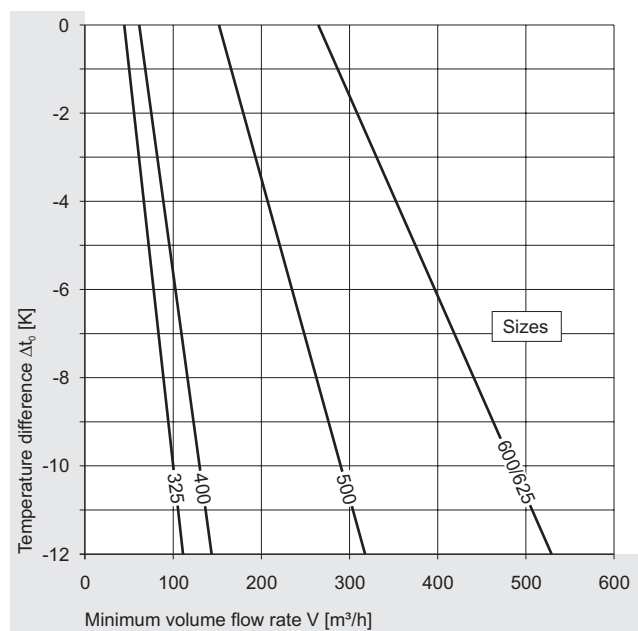
$$L_{pD}, L_{pA} = L_W, L_{WA} + \Delta L_R$$

ΔL_R = -8 [dB] can be used for estimating in air conditioning and ventilation systems.

Range of application

Plenum boxes, installed flush in ceilings, are required for optimum air supply distribution in rooms with a height of approx. 2.5 to 4 m. The square LFQ air diffusers distribute the supply air underneath the ceiling on four sides. In the case of cooling, the required minimum volume flow rates must be maintained at a given temperature difference Δt₀ between supply air and room air; air distribution in the room takes place through adjoining walls and the effects of counterflow. The minimum volume flow rates should also be maintained in heating operation and in isothermal cases with Δt₀ = 0 [K], in order to achieve minimum room purging.

In the case of freely suspended installation, thermal deflections occur. Therefore a changed infiltration of the supply air into the occupied zone with changed flow velocities are to be expected. For this reason, comfort criteria can be met only very restricted at this type of installation.



NOTE

The specified, temperature-dependent **minimum volume flow rates** must also be taken into consideration when selecting using the nomogram or tables. These can be taken into account automatically with the WILDEBOER - selection software!

LFQ Linear Air Diffuser

Quick selection

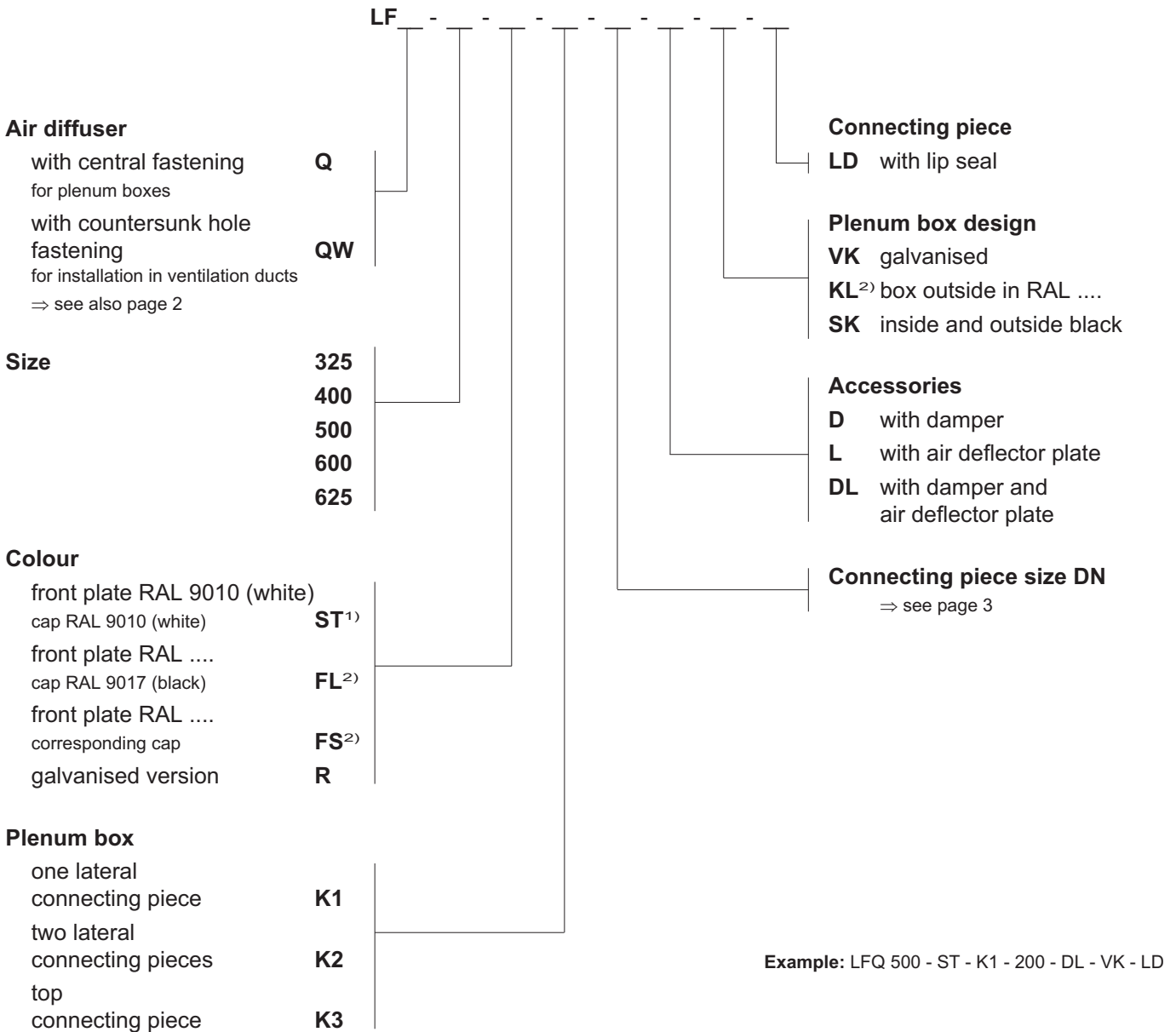
Volume flow rate [m³/h] / Pressure drop [Pa]

Connecting piece - DN		Sound power level [dB(A)]								
Air diffuser - Size		20	25	30	35	40	45	50		
Supply air LFQ with plenum box K1-DL with air deflector plate damper OPEN	325	100	90 / 8	110 / 12	140 / 20	170 / 30	210 / 45	260 / 69	320 / 105	
		160	140 / 7	170 / 11	210 / 17	260 / 26	310 / 37	380 / 55	470 / 84	
		200	160 / 8	200 / 12	240 / 18	290 / 26	350 / 37	420 / 54	510 / 79	
		400	125	130 / 8	160 / 12	200 / 19	240 / 28	300 / 44	360 / 63	440 / 94
		200	270 / 8	330 / 12	390 / 16	480 / 24	570 / 34	690 / 51	840 / 75	
		225	310 / 8	370 / 12	450 / 17	540 / 25	640 / 35	770 / 51	930 / 74	
		500	150	180 / 7	220 / 11	260 / 15	320 / 23	390 / 34	480 / 52	580 / 76
		200	310 / 8	380 / 12	460 / 17	550 / 25	660 / 36	800 / 52	970 / 77	
		280	500 / 8	600 / 12	720 / 17	860 / 25	1020 / 35	1220 / 50	1450 / 70	
		600/625	150	190 / 7	230 / 10	280 / 14	340 / 21	420 / 32	510 / 47	620 / 70
Exhaust air LFQ with plenum box K1-D without air deflector plate damper OPEN		250	510 / 8	620 / 11	740 / 16	880 / 22	1060 / 32	1270 / 47	1520 / 67	
		315	680 / 7	810 / 10	960 / 14	1140 / 20	1360 / 28	1610 / 39	1910 / 55	
		325	100	90 / 9	110 / 14	130 / 19	160 / 29	200 / 45	250 / 70	310 / 108
		160	130 / 8	150 / 10	190 / 16	230 / 24	280 / 35	340 / 52	420 / 79	
		200	140 / 7	170 / 10	210 / 15	250 / 21	310 / 33	370 / 47	460 / 72	
		400	125	120 / 9	150 / 13	180 / 19	220 / 29	270 / 43	330 / 65	410 / 100
		200	230 / 7	280 / 10	340 / 15	410 / 21	500 / 32	610 / 47	740 / 69	
		225	260 / 7	320 / 10	380 / 14	460 / 21	560 / 31	680 / 46	820 / 67	
		500	150	170 / 7	210 / 11	250 / 15	310 / 24	380 / 36	460 / 52	570 / 81
		200	280 / 7	340 / 11	410 / 16	500 / 23	610 / 35	740 / 51	900 / 75	
	280	440 / 7	530 / 11	630 / 15	760 / 22	910 / 32	1090 / 46	1310 / 66		
	600/625	150	180 / 7	220 / 10	270 / 15	330 / 23	400 / 34	490 / 51	600 / 76	
	250	440 / 8	530 / 12	640 / 17	780 / 25	940 / 37	1130 / 53	1360 / 77		
	315	580 / 7	690 / 11	830 / 15	990 / 22	1190 / 31	1420 / 45	1700 / 64		
Supply air LFQW	325		180 / 8	220 / 11	280 / 18	340 / 27	420 / 41	520 / 36	40 / 95	
	400		310 / 6	390 / 9	480 / 14	590 / 21	730 / 32	890 / 47	1100 / 73	
	500		540 / 5	650 / 8	790 / 11	960 / 16	1170 / 24	1420 / 36	1730 / 54	
	600/625		790 / 4	950 / 6	1150 / 9	1390 / 13	1690 / 19	2040 / 27	2470 / 40	
Exhaust air LFQW	325		180 / 8	220 / 12	270 / 18	320 / 25	390 / 37	480 / 57	580 / 83	
	400		310 / 6	380 / 9	460 / 13	570 / 21	690 / 30	840 / 45	1030 / 68	
	500		590 / 7	710 / 10	850 / 14	1030 / 21	1240 / 31	1490 / 44	1790 / 64	
	600/625		820 / 5	980 / 7	1160 / 10	1370 / 14	1630 / 19	1930 / 27	2290 / 38	

Standard connecting pieces of the plenum boxes are in bold type

LFQ Linear Air Diffuser

Order information



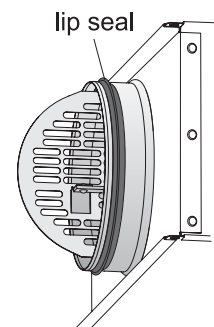
¹⁾ Standard colour

²⁾ Please also indicate the RAL colour required

NOTE regarding colours

- RAL colours available as standard are basically in accordance with the RAL - CLASSIC colour collection.
- For technical reasons, deviations in colour can never completely be avoided. This relates to colour tones in particular RAL 9006 (white aluminium) and RAL 9007 (grey aluminium). In special cases it is therefore always advisable to carry out specific colour matching and to include the surrounding colour tones, for example suspended ceilings!

Connecting piece with lip seal



LFQ Linear Air Diffuser

Specification text

LFQ air diffuser for supply air and exhaust air. For constant and variable volume flow rates. Fixed, slot type air deflection blades for horizontal air distribution. With engaged, arched profiles in a progressive gradient towards the centre without disturbances of air jet by bended edges, such that a maximum air flow with low sound noises is achieved. With high induction for the reduction of flow velocities and temperature differences in heating applications and room cooling by up to -12 K. Square front plate made of galvanised sheet steel with concealed central fastening or with countersunk holes for installation in ventilation ducts. With robust, colour-resistant, antistatic polyester coating, smooth gloss in colour RAL 9010 (white) or in RAL special colour. Corresponding cap or RAL 9017 (black)

Plenum box with central fastening, made of galvanised sheet steel with suspension holes with

- special air deflector plates, particularly for supply air, for optimum air distribution with low flow noises
- inside and outside with black powder coating
- outside in RAL special colour
- one lateral connecting piece
- two lateral connecting pieces
- top connecting piece
- lip seal(s)
- damper for setting volume flow rate without dismantling of air diffuser

Installation in closed ceiling systems, grid ceilings and freely suspended.

..... pieces

Volume flow rate:	m³/h
Pressure drop:	Pa
Sound power level:	dB (A)
Manufacturer:	WILDEBOER®	
Type:	LFQ	
Size:	
Connecting piece size DN:	mm
Colour air diffuser:	RAL.....	
Colour plenum box:	RAL.....	
Complete with fasteners	supply:
	install:

Delete text in non-bold type as required!

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