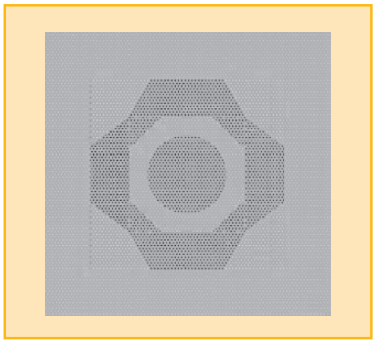
ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

TYPE: DC560S



Application

The perforated diffuser type DC-560S is used for the supply of cooled or heated air with a vast temperature difference in respect to the room temperature.
This high inducing diffuser can be mounted in the ceiling and is used in facilities such as offices, shopping centres where simple adjustment of the air pattern is required.

Adjusting options:

Because of the separate deflector plates it is possible to have an adjustable air pattern in 1, 2, 3 or 4 direction(s).

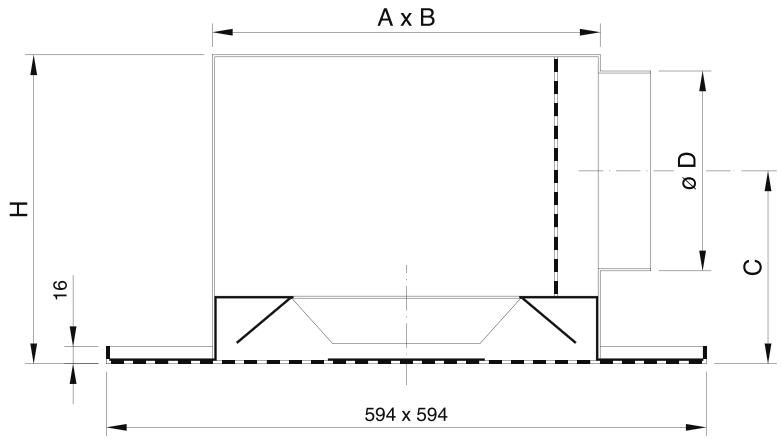
Technical information

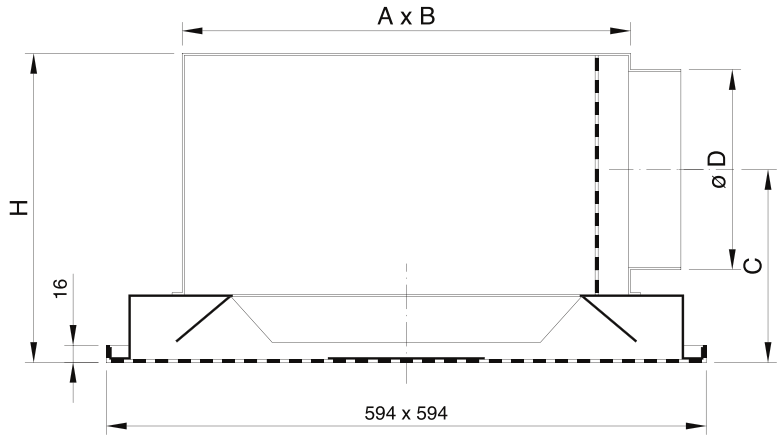
Characteristics:

- high induction level
- flat, stable and equally divided, horizontal air pattern
- adjustable air pattern in 4, 3, 2 or 1 direction(s)
- side plenum available
- insulated or non-insulated plenum available

Installation dimensions

DC560S





NOM	A x B	H	ø D	C
125	241 x 266	226	125	150
160	307 x 336	260	160	166
200	383 x 414	305	200	191
250	377 x 400	405	250	266
315	474 x 451	508	315	338

All dimensions in mm

ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

TYPE: DC560S

Construction:

- diffuser: steel, painted white (RAL 9010)
- deflector plate: steel painted black (RAL 9005)
- plenum: galvanised steel sheet with side entry, insulated or non-insulated
- only suitable for mounting in false ceilings

Specifications

Example:

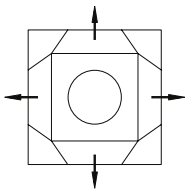
Perforated adjustable diffuser with adjustable air pattern in 1, 2, 3 or 4 direction(s). Steel diffuser is painted white (RAL 9010). The insulated plenum has a side entry spigot.

Type: **DC560SG**
size ... mm

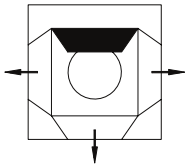
Options

- **DC560SG**: diffuser with insulated side plenum
- **DC560S**: diffuser with non-insulated side plenum

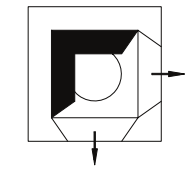
Adjusting possibilities



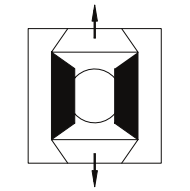
4 way air pattern



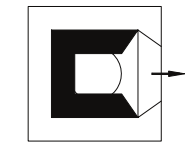
3 way air pattern



2 way air pattern (corner)



2 way air pattern (opposite sides)



1 way air pattern

Legend:

air pattern open

air pattern closed

How to order

DC560SG (RAL 9010): diffuser + plenum box

D	C	5	6	0	S	G	0	3	1	5	0	5	9	4

size

- : non-insulated
G: insulated

DC560F (other RAL) + plenum box (to order sererately)

a) Diffuser

D	C	5	6	0	-	F	0	3	1	5	0	5	9	4

size

-: standard RAL 9010
F: other RAL

b) Plenum box

D	P	5	1	0	S	G	0	3	1	5	0	0	0	0

size

- : non-insulated
G: insulated

S: diffuser with side-inlet

ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

TYPE: DC560S

DC560S - size 125 mm

- with insulated plenum
- isotherm measured and with ceiling effect

1 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
90	1,08	12	20	26
115	1,38	20	30	33,9
140	1,68	31	40	42,4
200	2,4	64	50	53,1

3 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
130	0,6	11	20	25,8
170	0,79	18	30	34,5
215	1	30	40	42,4
290	1,35	56	50	52,2

2 way(corner)

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
120	0,86	11	20	26,1
150	1,07	18	30	34
190	1,36	29	40	42,1
260	1,86	56	50	52,3

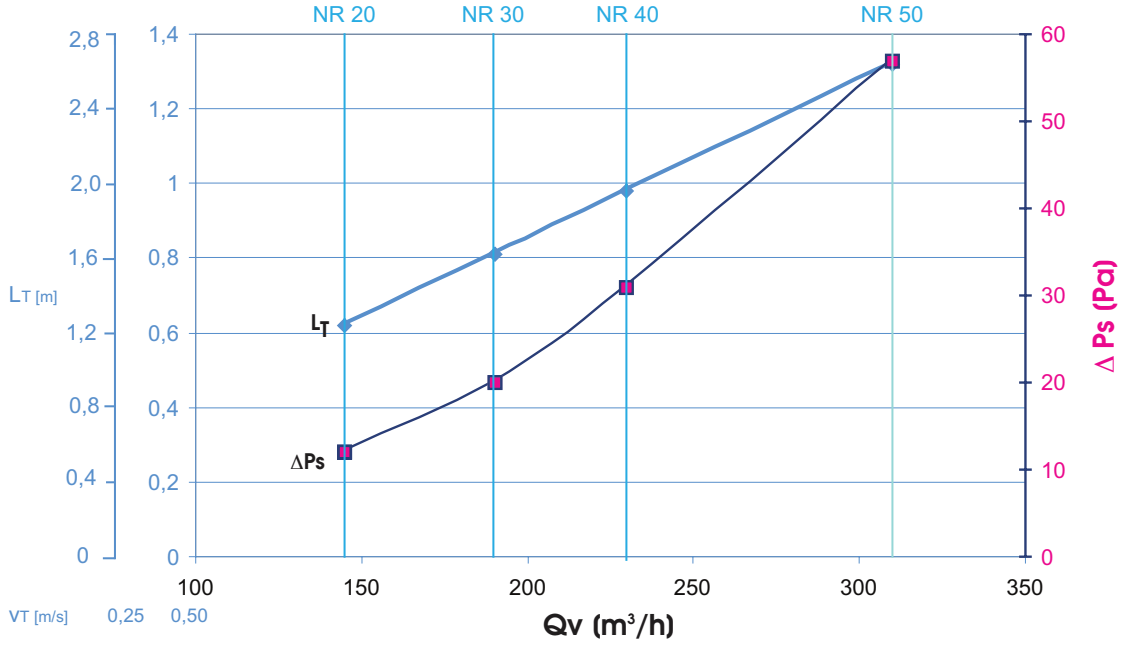
4 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
145	0,62	12	20	26,4
190	0,81	20	30	33,9
230	0,98	31	40	41,9
310	1,32	57	50	51,9

2 way(opposite)

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
120	0,86	8	20	26,2
150	1,07	19	30	34,3
190	1,36	33	40	42,3
260	1,86	66	50	52,6

Selection diagram 4 way:



Correction factor L_T for cooling (Δ T = -10 K): L_T x 0,9

ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

TYPE: DC560S

DC560S - size 160 mm

- with insulated plenum
- isotherm measured and with ceiling effect

1 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
140	2,29	12	20	27,7
160	2,62	16	30	33,6
200	3,27	25	40	41,4
275	4,5	46	50	51

3 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
185	0,91	8	20	25,7
265	1,31	17	30	35,4
325	1,61	26	40	42,4
435	2,15	46	50	51,5

2 way(corner)

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
170	1,43	10	20	26,2
225	1,89	17	30	34,2
275	2,31	25	40	41,9
375	3,15	46	50	51,5

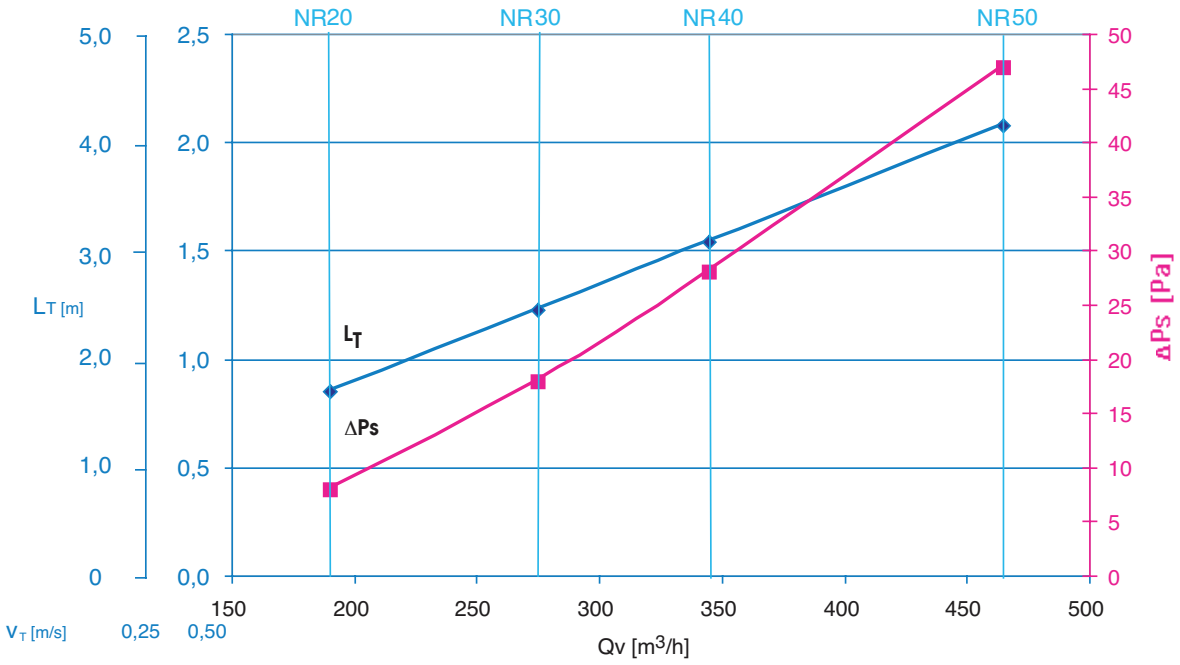
4 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
190	0,85	8	20	26,0
275	1,23	18	30	35,0
345	1,54	28	40	42,5
465	2,08	47	50	51,7

2 way(opposite)

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
170	1,43	10	20	25,7
225	1,89	17	30	34,2
275	2,31	25	40	42,0
375	3,15	46	50	51,7

Selection diagram 4 way:



Correction factor L_T for cooling (Δ T = -10 K): L_T x 0,9

ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

TYPE: DC560S

DC560S - size 200 mm

- with insulated plenum
- isotherm measured and with ceiling effect

1 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
180	2,67	12	20	26,6
220	3,26	19	30	34,3
270	4	28	40	41,6
355	5,26	50	50	51,0

3 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
285	1,27	12	20	26,9
345	1,54	18	30	33,6
420	1,87	27	40	41,8
545	2,43	46	50	51

2 way(corner)

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
200	1,37	9	20	26,5
275	1,89	16	30	34,9
335	2,3	25	40	42,5
435	2,98	46	50	51,4

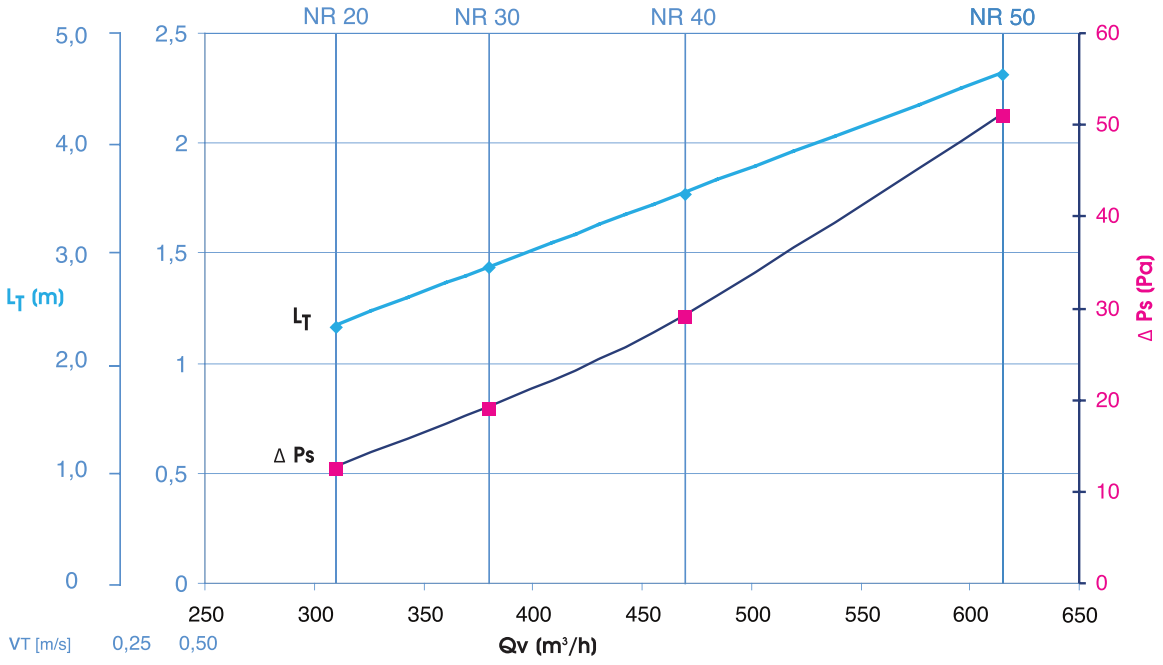
4 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
310	1,16	12,5	20	27,2
380	1,43	19	30	33,9
470	1,77	29	40	41,9
615	2,31	51	50	51,3

2 way(opposite)

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
200	1,37	9	20	26,8
275	1,89	16	30	35,2
335	2,3	25	40	42,3
435	2,98	46	50	51,4

Selection diagram 4 way:



Correction factor L_T for cooling (Δ T = -10 K): L_T x 0,9

ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

TYPE: DC560S

DC560S - size 250 mm

- with insulated plenum
- isotherm measured and with ceiling effect

1 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
240	2,35	7	20	24,5
280	2,74	13	30	33,5
365	3,57	27	40	42,4
540	5,29	58	50	53,0

3 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
365	0,85	7	20	25
465	1,09	13	30	33,6
625	1,46	24	40	43,3
885	2,07	44	50	53,5

2 way(corner)

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
300	1,3	7	20	25,2
390	1,7	14	30	34,1
530	2,3	25	40	43,7
770	3,35	48	50	53,8

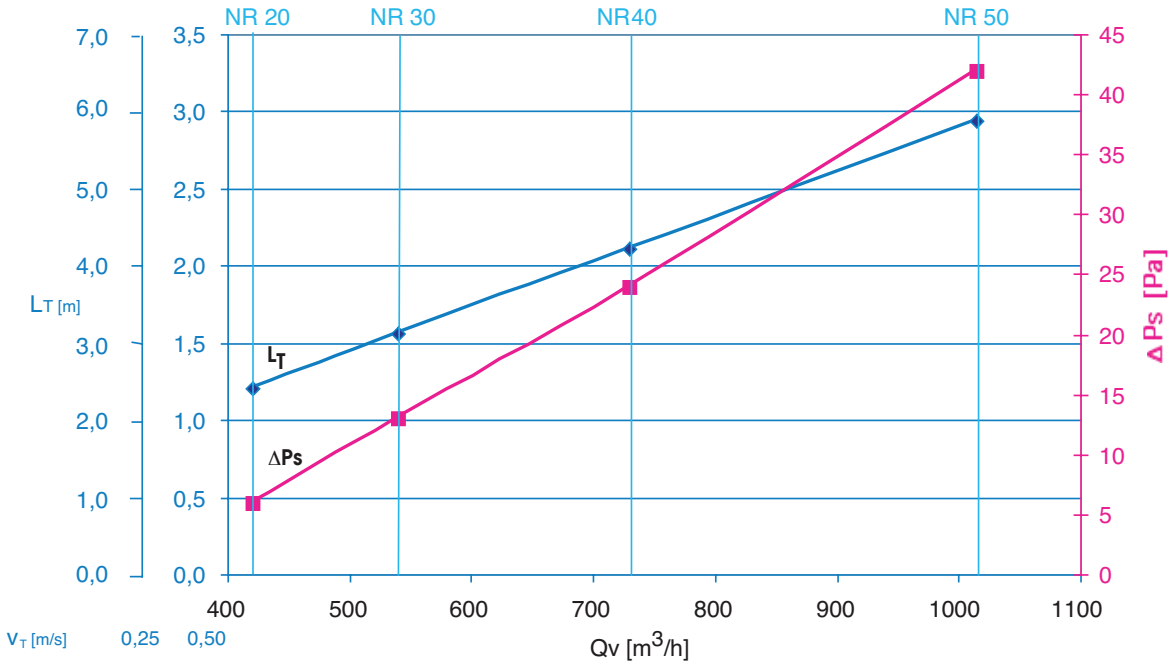
4 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
420	1,21	6	20	25,1
540	1,56	13	30	34
730	2,11	24	40	43,3
1015	2,94	42	50	53,3

2 way(opposite)

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
300	1,3	7	20	25,0
390	1,7	14	30	33,6
530	2,3	25	40	43,3
770	3,35	48	50	53,5

Selection diagram 4 way:



Correction factor L_T for cooling (ΔT = -10 K): L_T x 0,9

ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

TYPE: DC560S

DC560S - size 315 mm

- with insulated plenum
- isotherm measured and with ceiling effect

1 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
295	2,2	8,9	20	24,8
367	2,74	13,5	30	33,2
520	3,88	27,3	40	42,5
728	5,43	53	50	52,3

3 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
567	1,19	9	20	27,2
759	1,6	16	30	34,8
1008	2,12	28,6	40	43,7
1378	2,9	54,2	50	52,5

2 way(corner)

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
443	1,45	8,4	20	25,6
536	1,75	12,3	30	33,3
771	2,52	25	40	42,7
1093	3,58	51	50	52,2

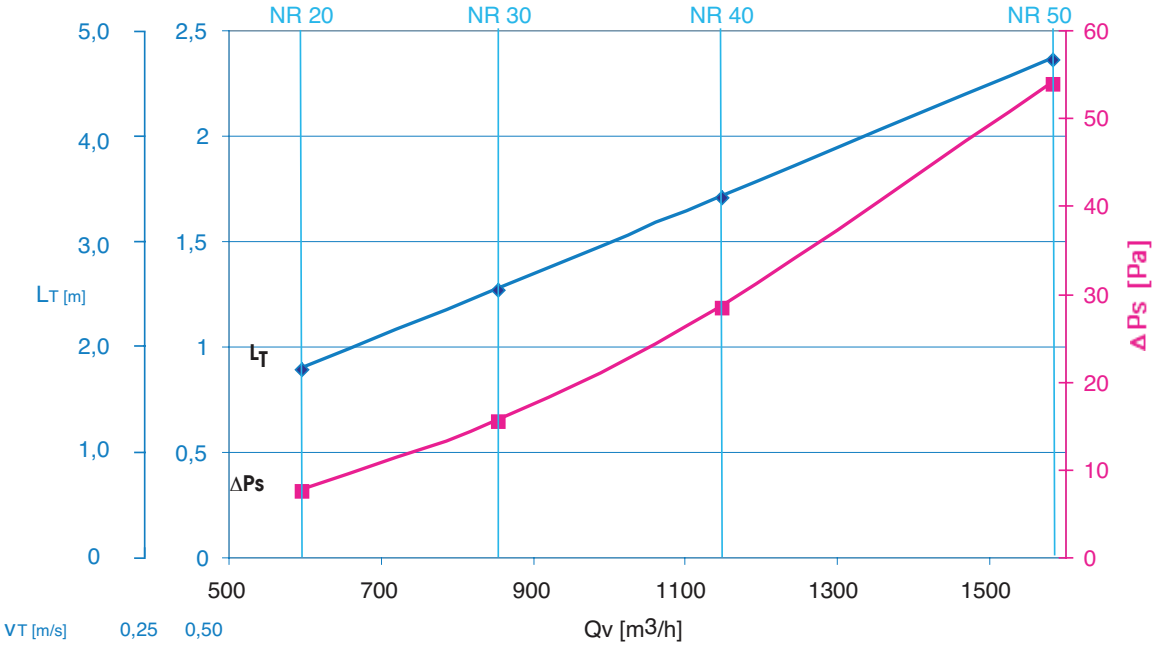
4 way

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
595	0,89	7,5	20	27,5
854	1,27	15,5	30	36,4
1147	1,71	28,5	40	44,4
1584	2,36	54	50	53,1

2 way(opposite)

Qv (m^3/h)	$L_{T\ (0,5m/s)}$(m)	Δ Ps (Pa)	L_W (NR)	L_W (dB(A))
443	1,45	8,4	20	25,1
536	1,75	12,3	30	32,6
771	2,52	25	40	42,7
1093	3,58	51	50	52,2

Selection diagram 4 way:



Correction factor L_T for cooling (ΔT = -10 K): L_T x 0,9