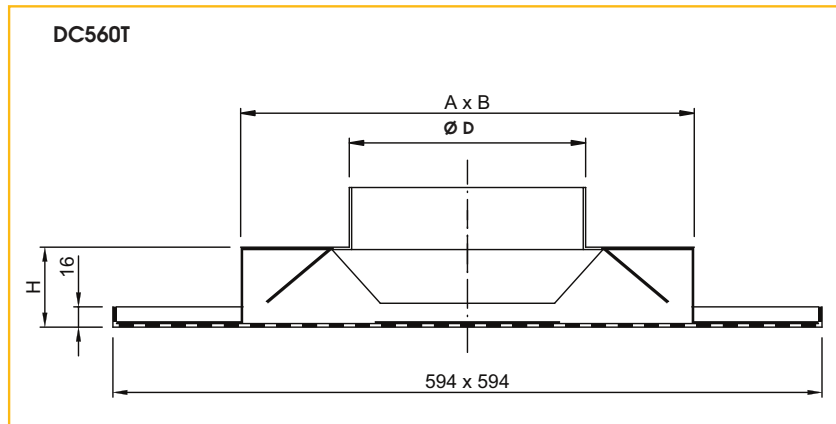


# ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

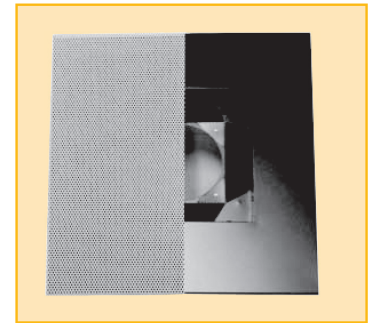
## TYPE: DC560T

### Installation dimensions



Nom	A x B	H	Ø D
125	240 x 240	55	125
160	305 x 305	55	160
200	381 x 381	60	200
250	548 x 548	90	250
315	548 x 548	90	315

All dimensions in mm



### Application

The perforated diffuser type DC560T 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 possibilities:

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)
- top inlet integrated in diffuser (no plenum required)
- available insulated or non-insulated

# ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

**TYPE: DC560T**

## Construction:

- diffuser: steel, painted white (RAL 9010)
- deflector plate: steel painted black (RAL 9005)
- available insulated or non-insulated
- only suitable for mounting in false ceilings

## Specifications

### Example:

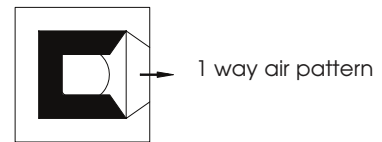
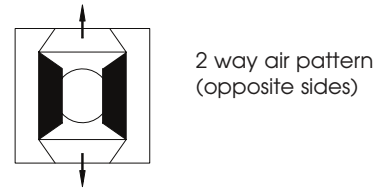
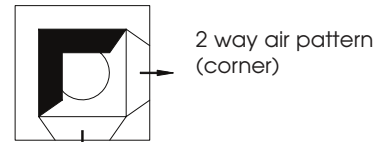
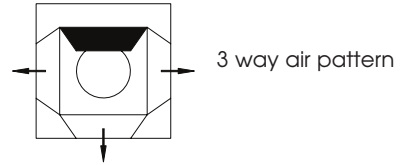
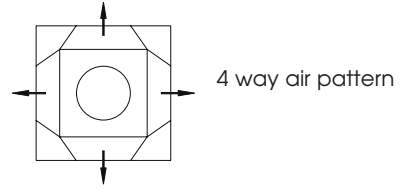
Perforated adjustable diffuser with adjustable air pattern in 1, 2, 3 or 4 direction(s). Steel diffuser is painted white (RAL 9010). Non-insulated and an integrated round top inlet.

Type: **DC560T**  
size ... mm

## Options

- **DC560TG**: diffuser with insulated top inlet
- **DC560T**: diffuser with non-insulated top inlet

## Adjusting possibilities



### Legend:

- air pattern open
- air pattern closed

## How to order

DC560T size 250 mm

D	C	5	6	0	T	-	0	2	5	0	0	5	9	4
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

size  
- : non-insulated  
G: insulated  
S: diffuser with top inlet

Exhaust: see DC360

# ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

## TYPE: DC560T

### DC560T - size 125 mm

- non-insulated execution
- isotherm measured and with ceiling effect

#### 1 way

Qv (m <sup>3</sup> /h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
65	1,12	13,6	20	25,3
80	1,38	20,5	30	33,1
110	1,9	36,2	40	42,7
140	2,41	57,3	50	50,8

#### 3 way

Qv (m <sup>3</sup> /h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
125	0,7	8,5	20	24,9
160	0,9	14	30	33,2
210	1,18	24,5	40	42,9
265	1,5	38,4	50	51,3

#### 2 way(corner)

Qv (m <sup>3</sup> /h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
100	0,96	10,5	20	24,9
125	1,2	17,3	30	32,8
160	1,54	28,7	40	42,6
205	1,97	48	50	51,1

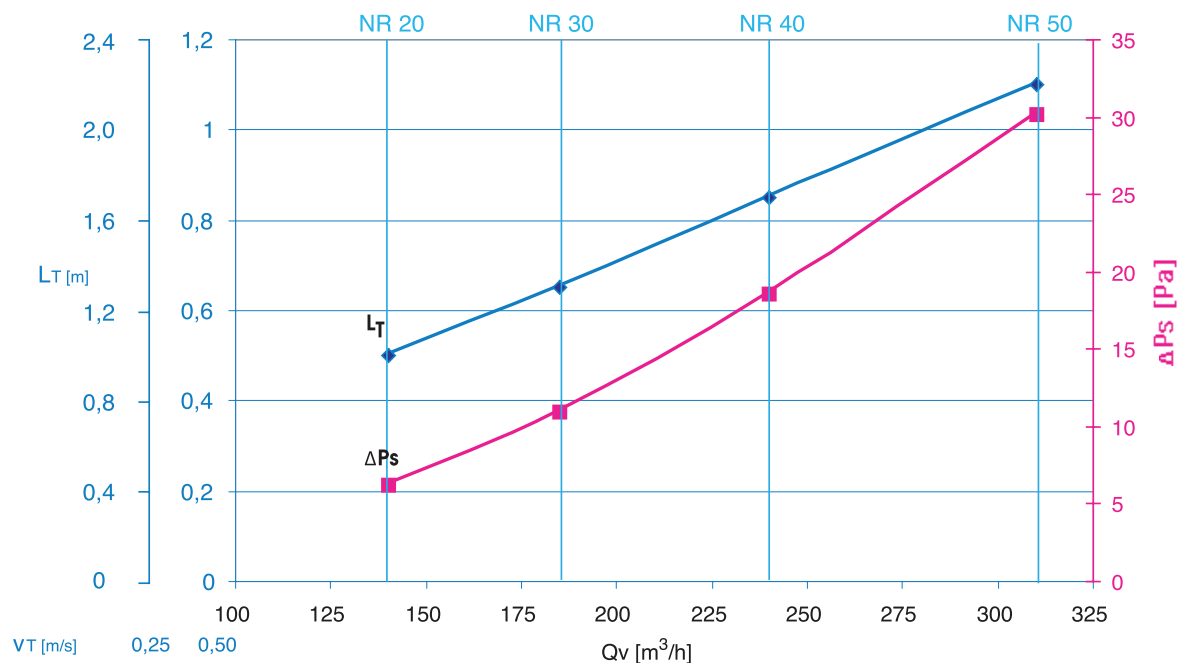
#### 4 way

Qv (m <sup>3</sup> /h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
140	0,5	6,2	20	24,9
185	0,65	11	30	33,6
240	0,85	18,6	40	42,8
310	1,1	30,2	50	51,5

#### 2 way(opposite)

Qv (m <sup>3</sup> /h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
100	0,84	10,5	20	25,7
130	1,1	17,7	30	33,2
170	1,43	32	40	43,3
205	1,73	48	50	51

#### Selection diagram 4 way:



Correction factor L<sub>T</sub> for cooling (ΔT = -10 K): L<sub>T</sub> x 0,9

# ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

## TYPE: DC560T

### DC560T - size 160 mm

- non-insulated execution
- isotherm measured and with ceiling effect

#### 1 way

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
85	1,12	11	20	24,2
115	1,52	21	30	33,8
145	1,92	35	40	42,6
190	2,51	63	50	52,3

#### 3 way

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
140	0,79	6	20	24,5
195	1,1	12	30	34,1
255	1,44	20	40	42,3
345	1,95	38	50	52

#### 2 way(corner)

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
120	1,14	9	20	24,3
155	1,54	16	30	33,4
195	1,94	26	40	42,3
260	2,58	47	50	52

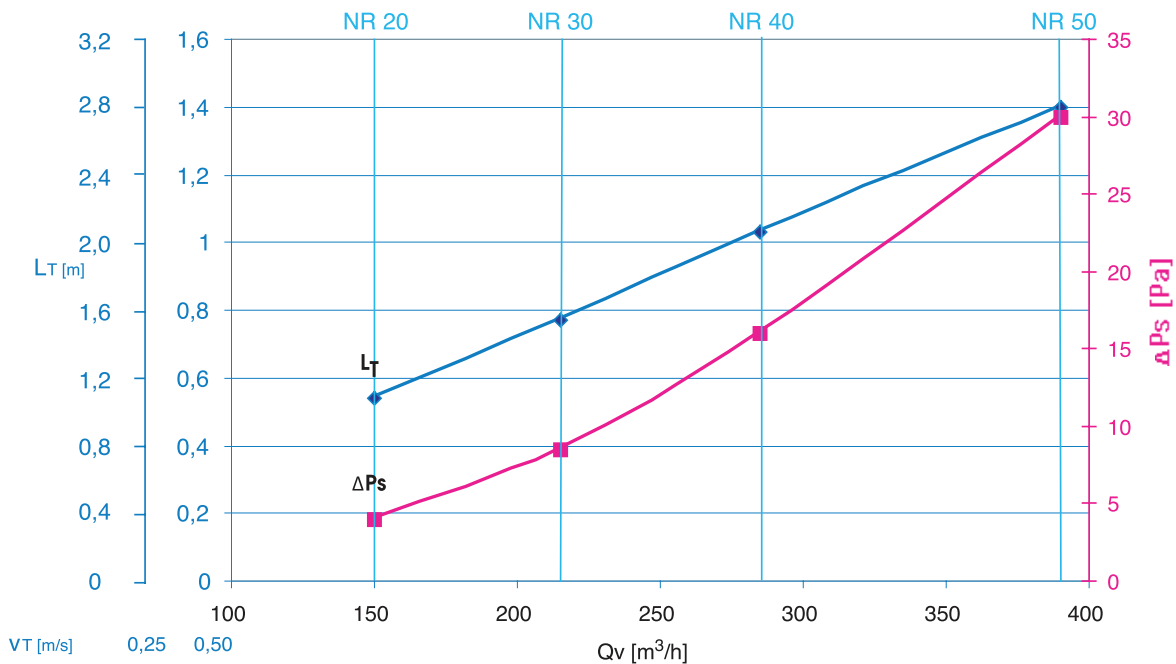
#### 4 way

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
150	0,54	4	20	24,1
215	0,77	8,5	30	33,7
285	1,03	16	40	42,6
390	1,4	30	50	52,9

#### 2 way(opposite)

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
120	1,26	9	20	24,6
160	1,68	16,5	30	33,5
205	2,15	28	40	42,7
275	2,89	50	50	52,4

#### Selection diagram 4 way:



Correction factor L<sub>T</sub> for cooling (Δ T = -10 K): L<sub>T</sub> x 0,9

# ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

## TYPE: DC560T

### DC560T - size 200 mm

- non-insulated execution
- isotherm measured and with ceiling effect

#### 1 way

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
120	1,67	20	20	25,2
150	2,09	30,5	30	33,3
190	2,65	48	40	42,5
260	3,62	88	50	52,5

#### 3 way

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
210	1,04	12	20	25,1
280	1,38	21	30	33,6
350	1,73	32,7	40	41,3
480	2,37	62	50	52,9

#### 2 way (corner)

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
170	1,14	15	20	24,9
220	1,47	25,5	30	33,2
280	1,88	40,3	40	42,2
385	2,58	74	50	53

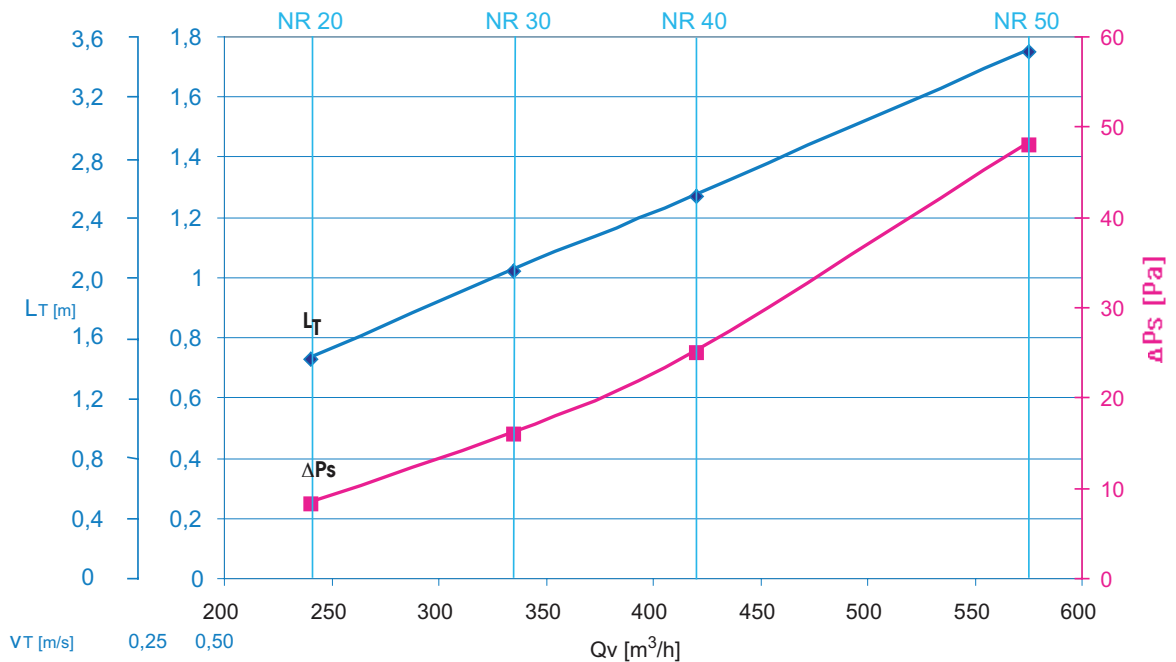
#### 4 way

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
240	0,73	8,2	20	24,6
335	1,02	16	30	34,4
420	1,27	25	40	42,6
575	1,75	48	50	52,8

#### 2 way (opposite)

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
165	1,56	14,2	20	24,9
215	2,03	24	30	33,6
280	2,64	41	40	42,6
385	3,68	79	50	53,5

#### Selection diagram 4 way:



Correction factor L<sub>T</sub> for cooling (ΔT = -10 K): L<sub>T</sub> x 0,9

# ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

## TYPE: DC560T

### DC560T - size 250 mm

- non-insulated execution
- isotherm measured and with ceiling effect

#### 1 way

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
150	1,57	13,5	20	25
180	1,87	19	30	33,2
225	2,35	29,5	40	41,8
325	3,4	62	50	52,5

#### 3 way

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
300	0,98	10	20	25,3
375	1,23	15,5	30	33,5
465	1,53	24	40	41,8
655	2,15	49	50	52,7

#### 2 way(corner)

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
230	1,11	11,5	20	25,3
295	1,41	18,5	30	34
370	1,77	30	40	42,1
515	2,48	60	50	52,6

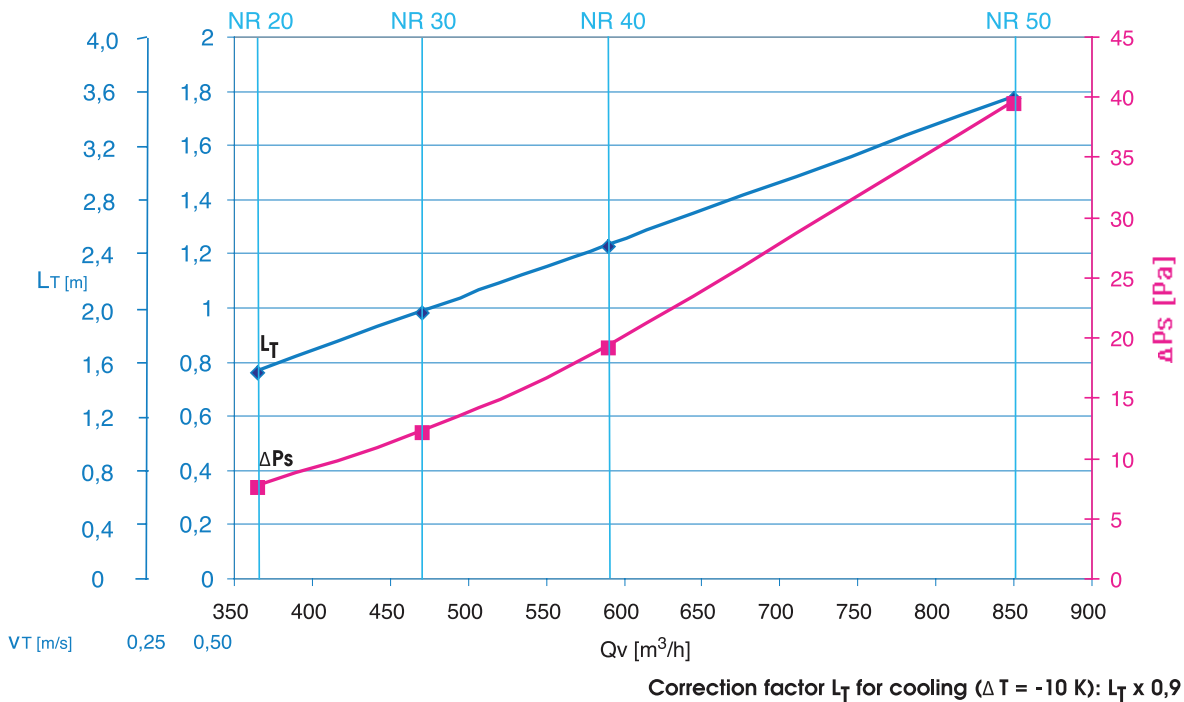
#### 4 way

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
365	0,76	7,6	20	25,3
470	0,98	12,2	30	34,2
590	1,23	19,2	40	42,1
850	1,77	39,5	50	53,3

#### 2 way(opposite)

Qv (m³/h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
215	1,55	13	20	25,4
270	1,95	20,5	30	34
335	2,42	31,5	40	42,1
465	3,36	60	50	52,4

#### Selection diagram 4 way:



# ADJUSTABLE PERFORATED AIR SUPPLY DIFFUSER

## TYPE: DC560T

### DC560T - size 315 mm

- non-insulated execution
- isotherm measured and with ceiling effect

#### 1 way

Qv (m <sup>3</sup> /h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
250	2,55	11	20	24,9
305	3,11	17,5	30	33,4
360	3,68	24,2	40	41
515	5,26	47,2	50	51,2

#### 3 way

Qv (m <sup>3</sup> /h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
495	1,47	9,2	20	25,5
585	1,74	12,8	30	32,4
725	2,16	19,7	40	41,4
945	2,81	34,4	50	51

#### 2 way(corner)

Qv (m <sup>3</sup> /h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
375	2,21	9,6	20	25,4
445	2,62	14	30	32,3
540	3,18	20,9	40	41,4
725	4,26	37,8	50	51,1

#### 4 way

Qv (m <sup>3</sup> /h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
560	1,25	6,7	20	25,3
755	1,69	11,9	30	33,1
925	2,06	18,1	40	41,4
1220	2,72	31,1	50	51,1

#### 2 way(opposite)

Qv (m <sup>3</sup> /h)	L <sub>T</sub> (0,5m/s)(m)	Δ Ps (Pa)	L <sub>W</sub> (NR)	L <sub>W</sub> (dB(A))
350	1,99	9,2	20	25,4
425	2,41	13,5	30	33,1
515	2,92	19,7	40	41,7
655	3,72	32	50	51,1

#### Selection diagram 4 way:

