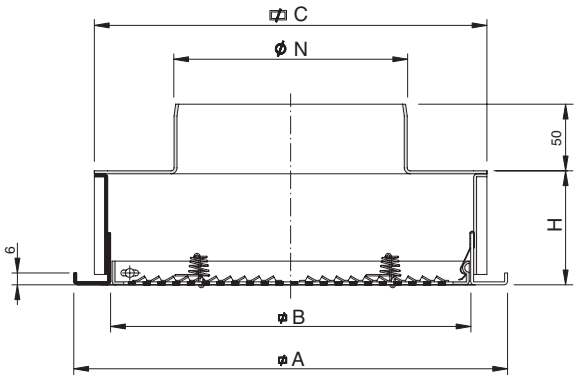
AIR SUPPLY DIFFUSER WITH PERFORATED PLATE

TYPE: DA340T • DA360T

Installation dimensions

DA360T

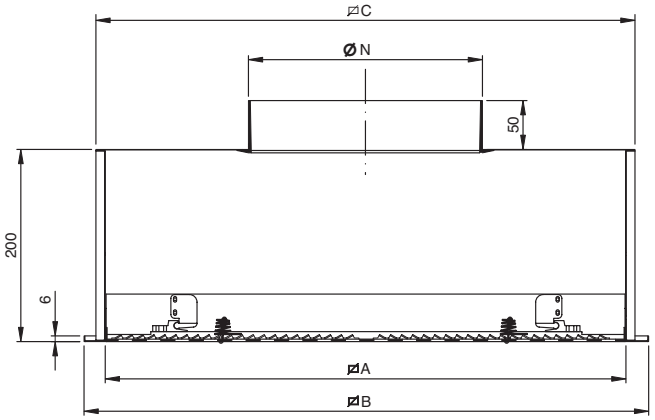


DA360 T

Size	Ø N	⧄ A	⧄ B	⧄ C	H
160	158	294	244	255 x 248	80
200	198	394	344	355 x 348	80
250	248	494	444	455 x 448	80
315	313	594	544	555 x 548	80

All dimensions in mm.

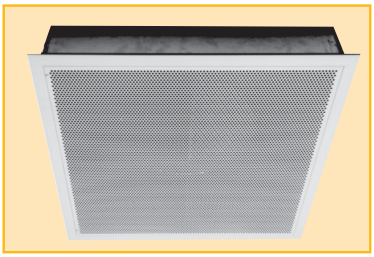
DA340T



DA 340 T

Size	Ø N	⧄ A	⧄ B	⧄ C	⧄ D
160	158	244	294	266 x 248	230 x 230 x 22
200	198	344	394	366 x 348	330 x 330 x 22
250	248	444	494	466 x 448	430 x 430 x 22
315	313	544	594	566 x 548	530 x 530 x 22

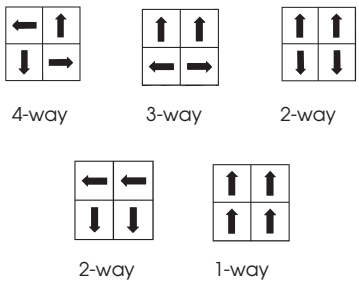
All dimensions in mm



Application

The diffuser type DA340/360 is used for the supply of cooled or heated air in facilities such as offices, shopping centres where simple adjusting of the air pattern is required without influencing air quantity or pressure loss.
The diffuser can be mounted in the ceiling and has an adjustable air pattern in 1, 2, 3 or 4 directions.

Adjusting possibilities:



Technical information

Characteristics:

- Available with push-pull lock or clips lock
- The perforated plate is mounted in the frame with hinges for easy access
- Standard 4-way air pattern. By changing the deflector plates, an air pattern in 1, 2 or 3 directions can be obtained.

Construction:

- diffuser: steel, painted white (RAL 9010)
- deflector plates: steel, painted black (RAL 9005)
- plenum: galvanised steel sheet

AIR SUPPLY DIFFUSER WITH PERFORATED PLATE

TYPE: DA340T • DA360T

Specifications description

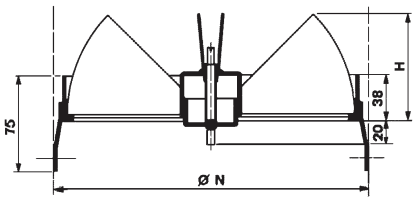
Example:

Square steel supply diffuser with clips lock and with 4 adjustable deflector plates and circular top entry spigot.
The diffuser is painted white (RAL 9010)

Type: **DA360T**
size ... mm

Accessories

DT003: damper with several radial opposed segments. Adjustable after opening the hinged perforated plate.
Steel sheet and painted black (RAL 9005).



Size	Ø N	H
160	158	55
200	198	69
250	248	89
315	313	109

All dimensions in mm

Fixing

DA340/360T:
Concealed fixing with screws in the top collar. Ceiling mounting in a T-profile is also possible.

Options

- **DA340**: diffuser with push-pull lock
- **DA360**: diffuser with clips lock
- **DA340T**: diffuser with push-pull lock and top entry, with filterframe
- **DA360T**: diffuser with clips lock and top entry
- **DA340P**: Steel modular plate for false ceiling mounting with push-pull lock: dimensions 594 x 594 mm
  Painted white (RAL 9010)
  For further information, see p. 2 501
- **DA360P**: Steel modular plate for false ceiling mounting: dimensions 594 x 594 mm
  Painted white (RAL 9010)
  For further information, see p. 2 501
- **DA340TG**: DA340T with insulated plenum
- **DA360TG**: DA360T with insulated plenum

How to order

DA360T size 315 x 594 mm with damper type DT003 size 315 mm.

a) Diffuser

D	A	3	6	0	T	-	0	3	1	5	0	5	9	4

Size — Dimension A

- : non insulated plenum
G: insulated plenum

- : diffuser only without plenum
T: diffuser and plenum with top entry

DA340: diffuser with push-pull lock
DA360: diffuser with clips lock

b) Damper

D	T	0	0	3	-	-	0	3	1	5	0	0	0	0

Size

AIR SUPPLY DIFFUSER WITH PERFORATED PLATE

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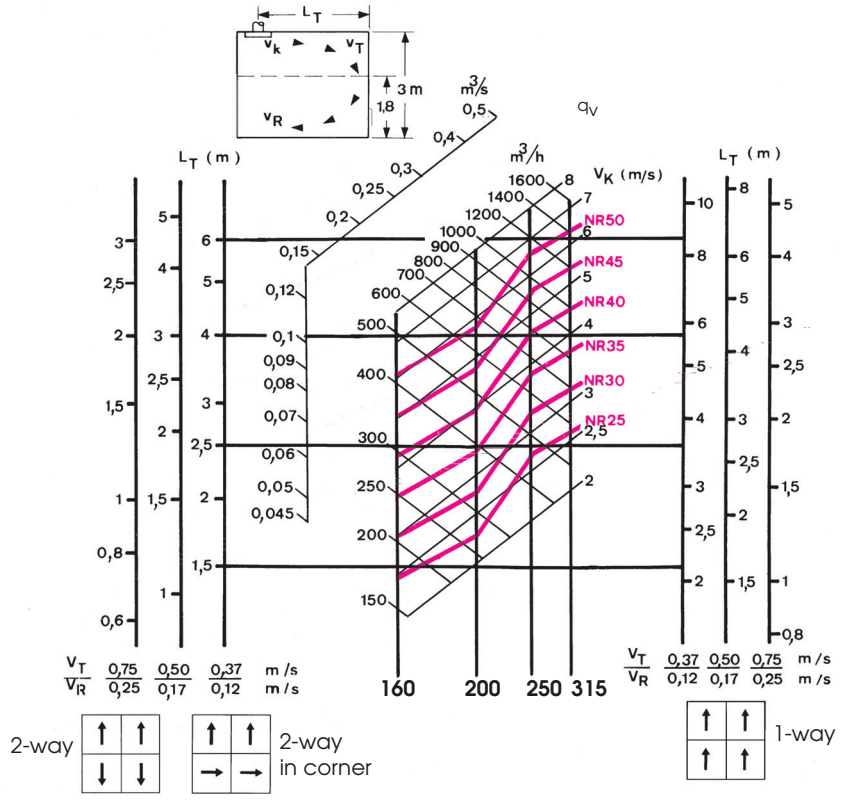
Selection diagram - supply

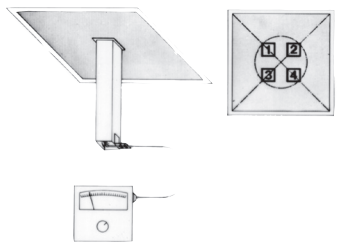
DA340T/360T with 1 and 2-way exhaust

- With ceiling effect
- Damper completely open



With side entry (DA360S): NR + 4

Air flow rate measurement - supply



A_K-values (m²)				
Size	**160**	**200**	**250**	**315**
A_K (m²)	0,019	0,032	0,046	0,063

The air velocity v_K (m/s) is measured by means of a velometer and special collector. The supply air velocity is measured on the diagonals and then the average of those 4 values is taken (see sketch).

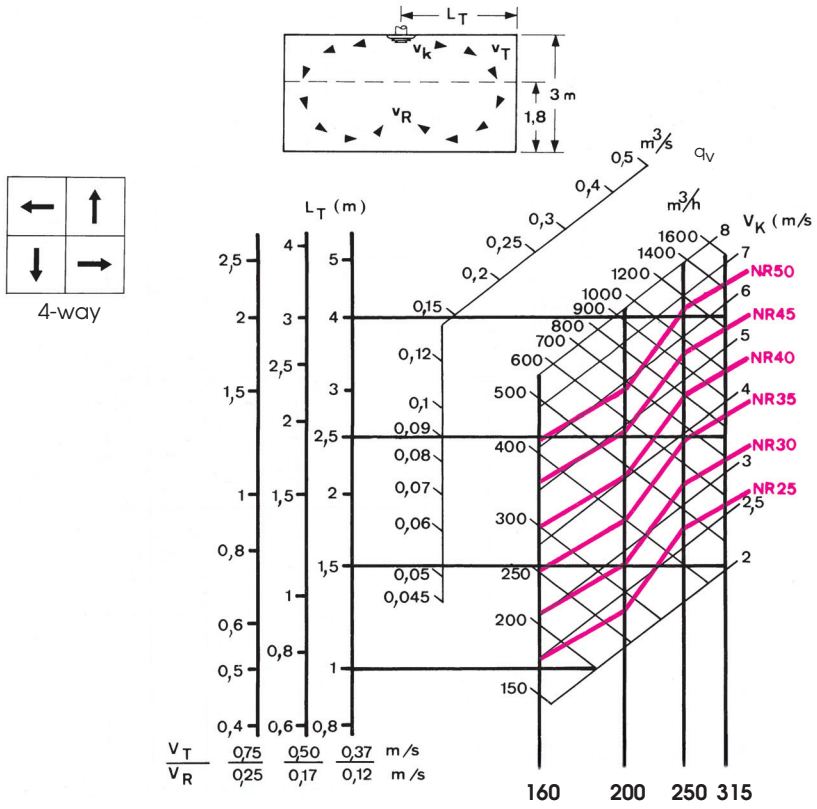
AIR SUPPLY DIFFUSER WITH PERFORATED PLATE

TYPE: DA340T • DA360T

Selection diagram - supply

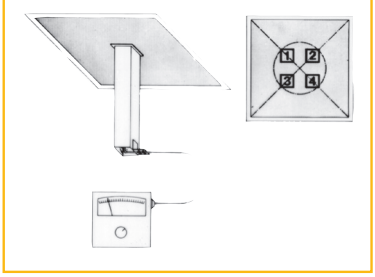
DA340T/360T with 4-way exhaust

- With ceiling effect
- Damper completely open



With side entry (DA360S): NR + 4

Air flow rate measurement - supply



A_k-values (m^2)				
Size	**160**	**200**	**250**	**315**
A_k(m^2)	0,019	0,032	0,046	0,063

The air velocity v_k (m/s) is measured by means of a velometer and special collector. The supply air velocity is measured on the diagonals and then the average of those 4 values is taken (see sketch).

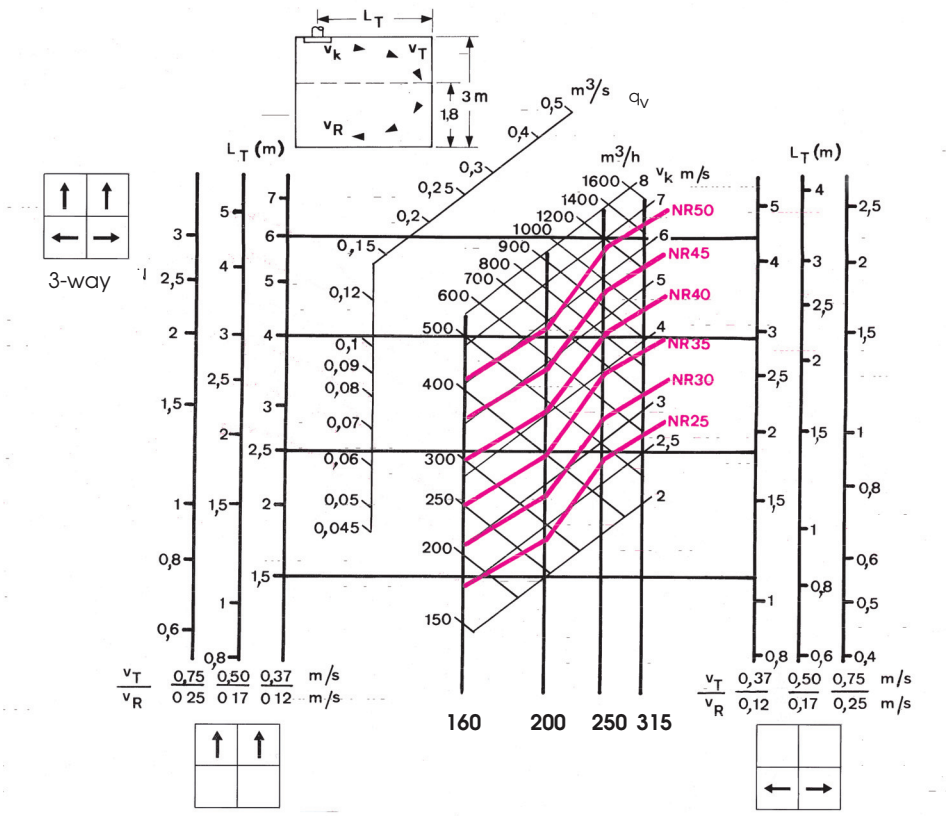
AIR SUPPLY DIFFUSER WITH PERFORATED PLATE

TYPE: DA340T • DA360T

Selection diagram - supply

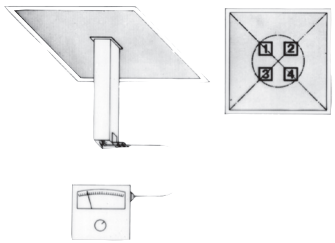
DA340T/360T with 3-way exhaust

- With ceiling effect
- Damper completely open



With side entry (DA360S): NR + 4

Air flow rate measurement-supply



A_k-values (m^2)				
Size	**160**	**200**	**250**	**315**
A_k (m^2)	0,019	0,032	0,046	0,063

The air velocity v_k (m/s) is measured by means of a velometer and special collector. The supply air velocity is measured on the diagonals and then the average of those 4 values is taken (see sketch).

AIR SUPPLY DIFFUSER WITH PERFORATED PLATE

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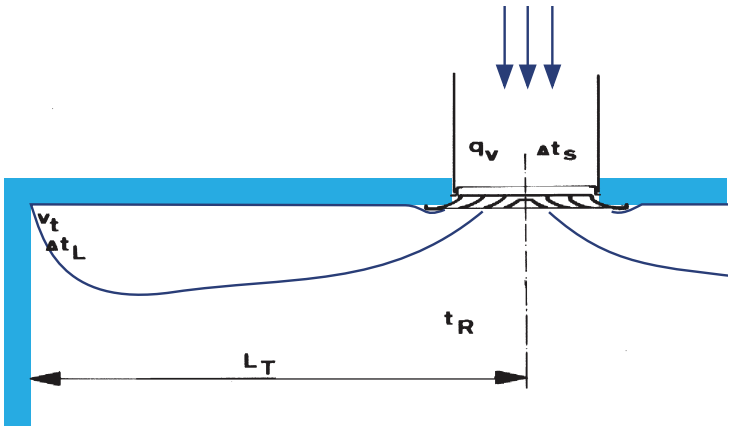
Example

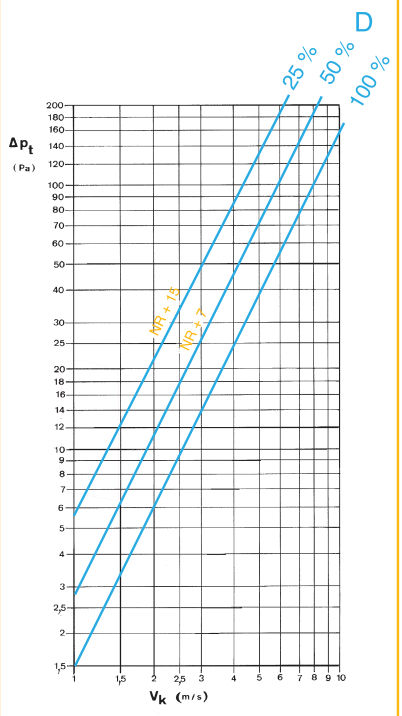


Selection data:
- Air flow rate q_V = 500 m³/h
- Throw L_T = 1,4 m at v_T = 0,5 m/s

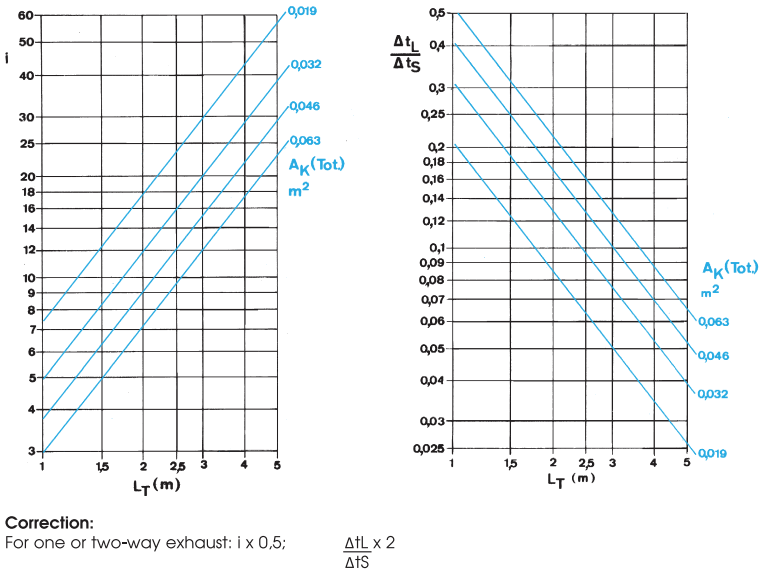
Solution:
- DA360 size 250 x 494 mm (4-way exhaust)
- Supply air velocity v_K = 3 m/s
- Noise level NR 29
- Total pressure loss with damper 100 % open: Δp_t = 14 Pa.

Pressure loss

with damper DT003



Induction and temperature quotient with ceiling effect



Correction:
For one or two-way exhaust: i x 0,5; $\frac{\Delta tL}{\Delta tS}$ x 2