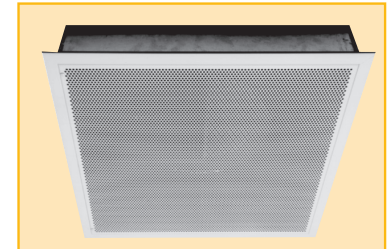
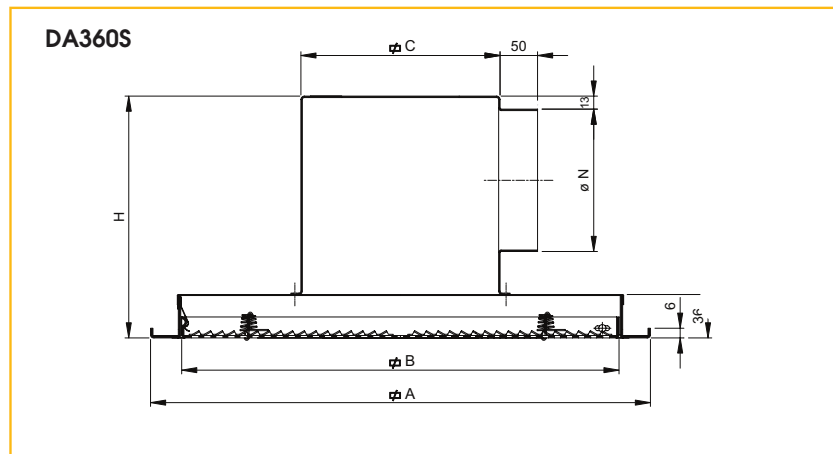


# AIR SUPPLY DIFFUSER WITH PERFORATED PLATE

## TYPE: DA360S

### Installation dimensions



### Application

The diffuser type DA360 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.

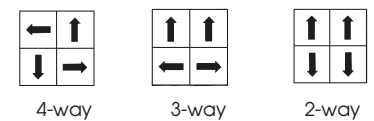
The diffuser can be mounted in the ceiling and has an adjustable air pattern in 1, 2, 3 or 4 directions.

### DA360 S

Size	Ø N	Ø A	Ø B	Ø C	H
160	158	294	244	190 x 222	270
200	198	394	344	230 x 262	310
250	248	494	444	280 x 312	360
315	313	594	544	345 x 377	425

All dimensions in mm

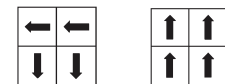
### Adjusting possibilities:



4-way

3-way

2-way



2-way

1-way

### Technical information

#### Characteristics:

- 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: DA360S

### Specifications description

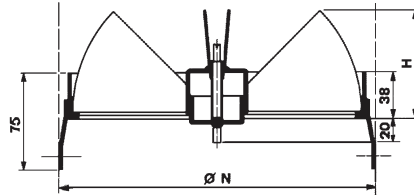
**Example:**

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

**Type:** DA360S  
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

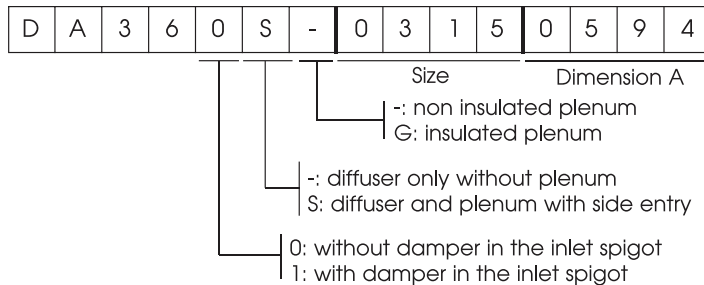
### Options

- **DA360:** diffuser with clips lock
- **DA360S:** diffuser with clips lock and side entry
- **DA361S:** like DA360S, but with damper in side entry
- **DA360SG:** DA360S with insulated plenum
- **DA361SG:** DA361S with insulated plenum
- **DA360P:** Steel modular plate for false ceiling mounting: dimensions 594 x 594 mm, painted white (RAL 9010)

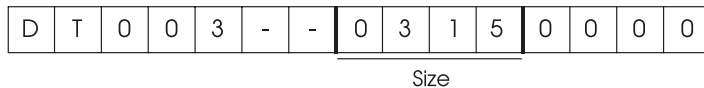
### How to order

DA360S size 315 x 594 mm with damper type DT003 size 315 mm.

**a) Diffuser**



**b) Damper**



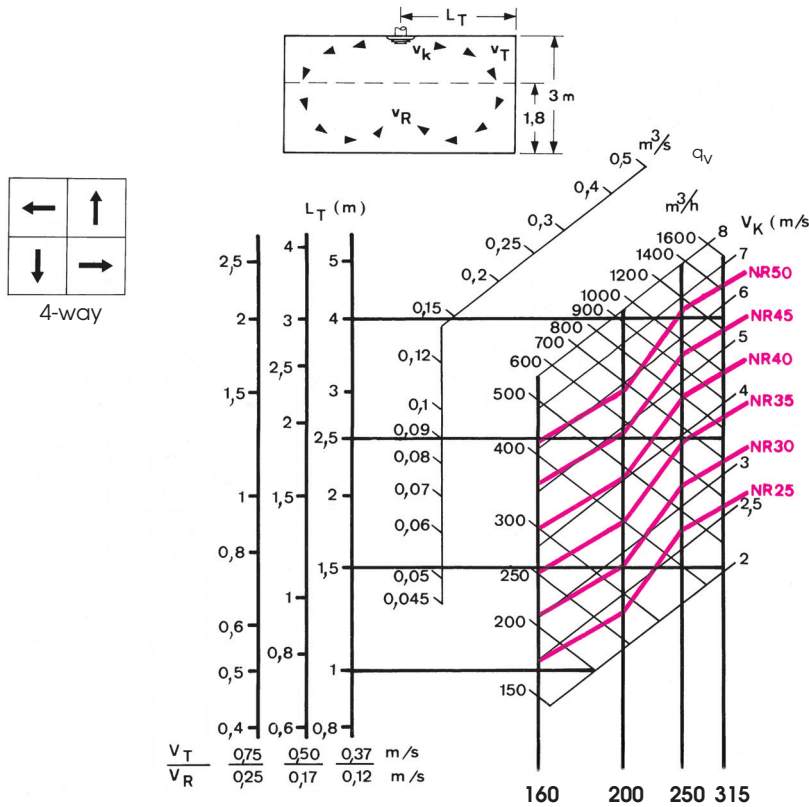
# AIR SUPPLY DIFFUSER WITH PERFORATED PLATE

## TYPE: DA360S

### Selection diagram - supply

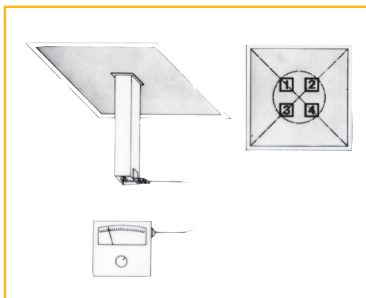
DA340T/360T with 4-way exhaust

- With ceiling effect
- Damper completely open



With side entry (DA360S): NR + 4

### Air flow rate measurement - supply



	A <sub>k</sub> -values (m <sup>2</sup> )			
Size	160	200	250	315
A <sub>k</sub> (m <sup>2</sup> )	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).

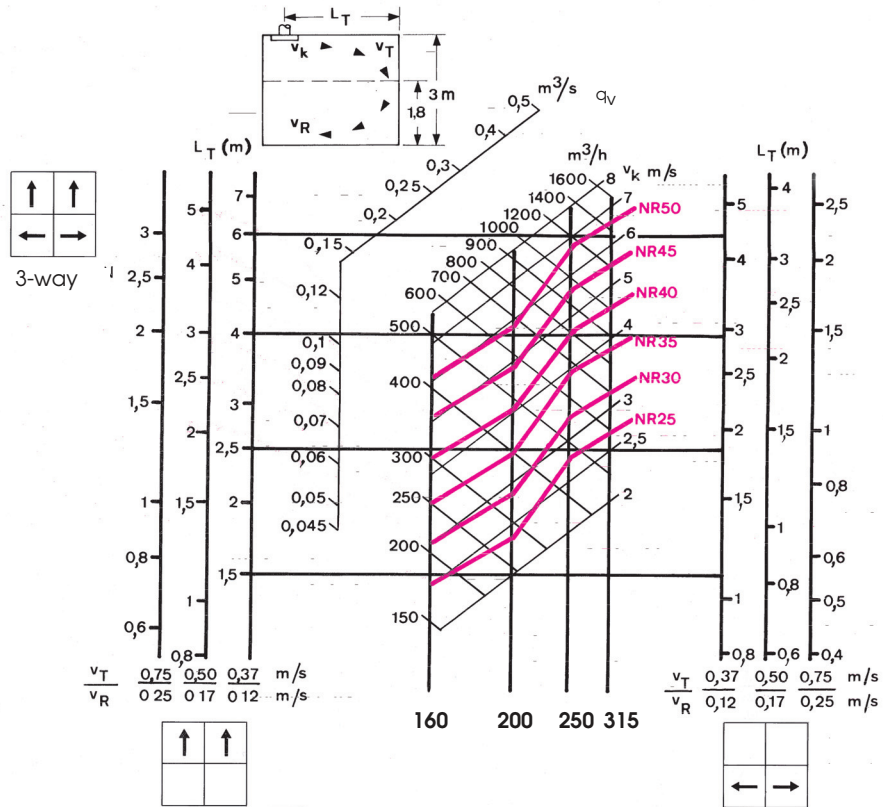
# AIR SUPPLY DIFFUSER WITH PERFORATED PLATE

## TYPE: DA360S

### Selection diagram - supply

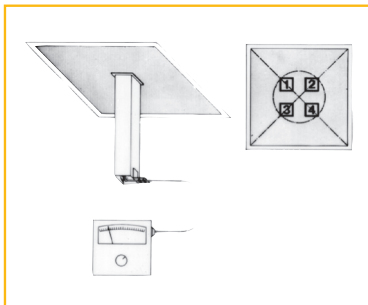
DA340T/360T with 3-way exhaust

- With ceiling effect
- Damper completely open



With side entry (DA360S): NR + 4

### Air flow rate measurement- supply



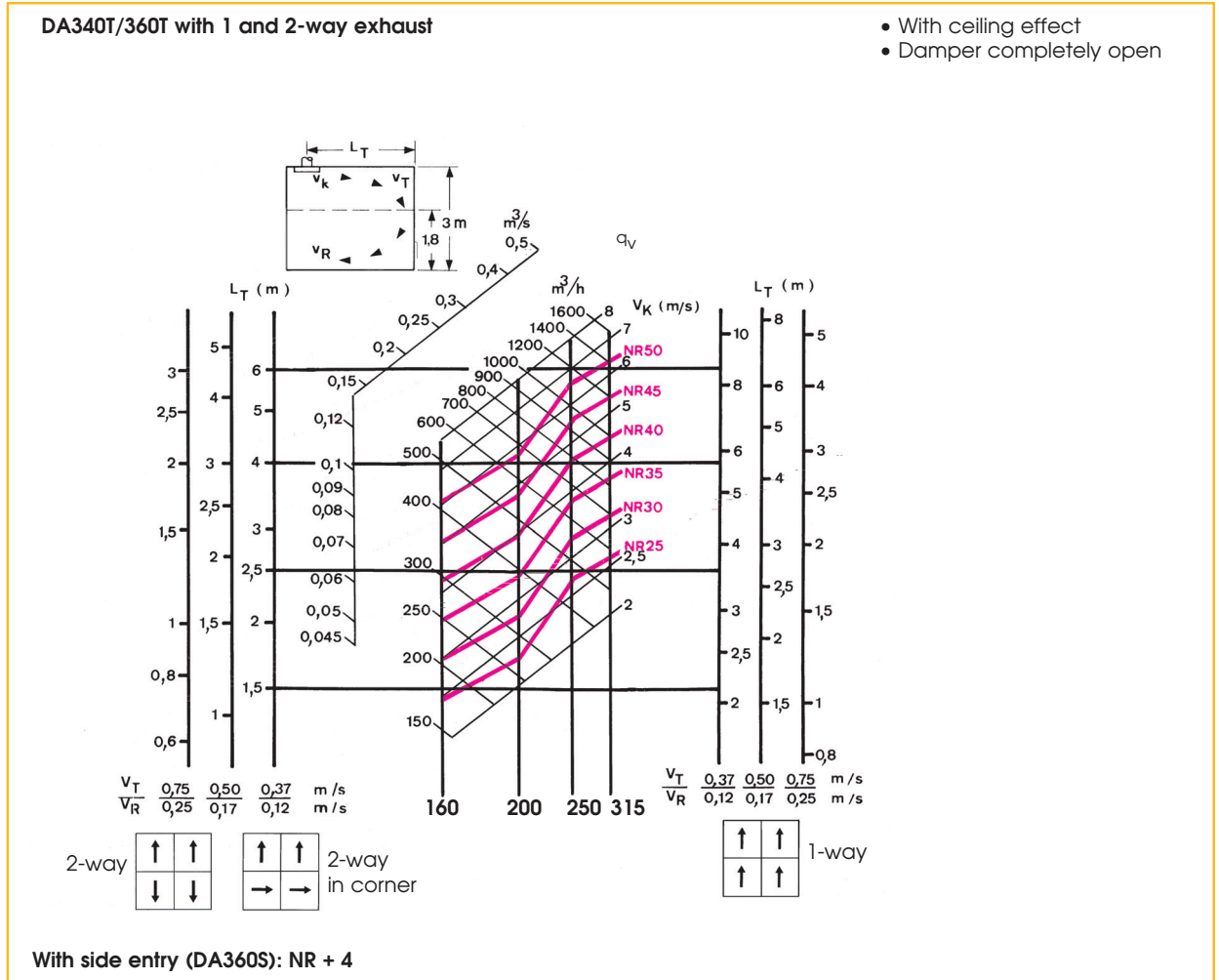
A <sub>k</sub> -values (m <sup>2</sup> )				
Size	160	200	250	315
A <sub>k</sub> (m <sup>2</sup> )	0,019	0,032	0,046	0,063

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).

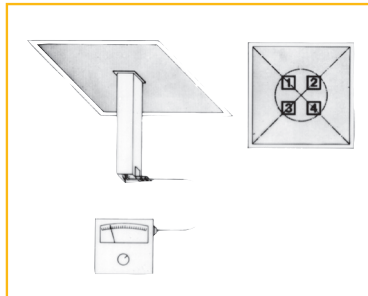
# AIR SUPPLY DIFFUSER WITH PERFORATED PLATE

## TYPE: DA360S

### Selection diagram - supply



### Air flow rate measurement - supply



	A <sub>k</sub> -values (m <sup>2</sup> )			
Size	160	200	250	315
A <sub>k</sub> (m <sup>2</sup> )	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: DA360S

### Example

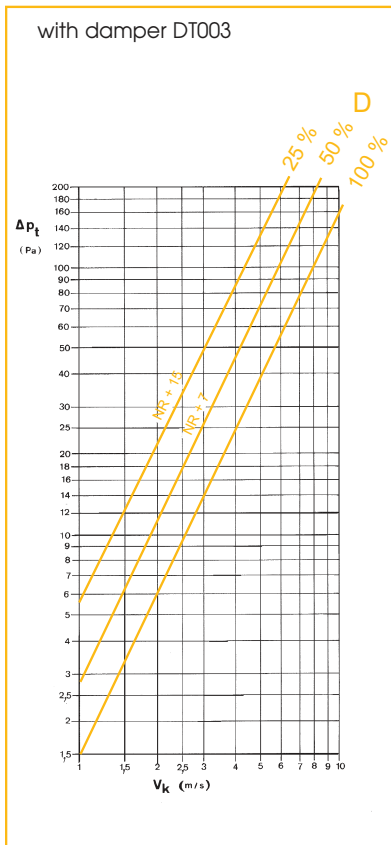
**Selection data:**

- Air flow rate  $q_v = 500 \text{ m}^3/\text{h}$
- Throw  $L_T = 1,4 \text{ m}$  at  $v_T = 0,5 \text{ m/s}$

**Solution:**

- DA360 size 250 x 494 mm (4-way exhaust)
- Supply air velocity  $v_k = 3 \text{ m/s}$
- Noise level NR 29
- Total pressure loss with damper 100 % open:  $\Delta p_t = 14 \text{ Pa}$ .

### Pressure loss



### Induction and temperature quotient with ceiling effect

