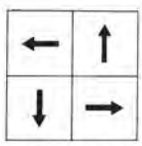
AIR SUPPLY DIFFUSER WITH PERFORATED PLATE
DA340 • DA360

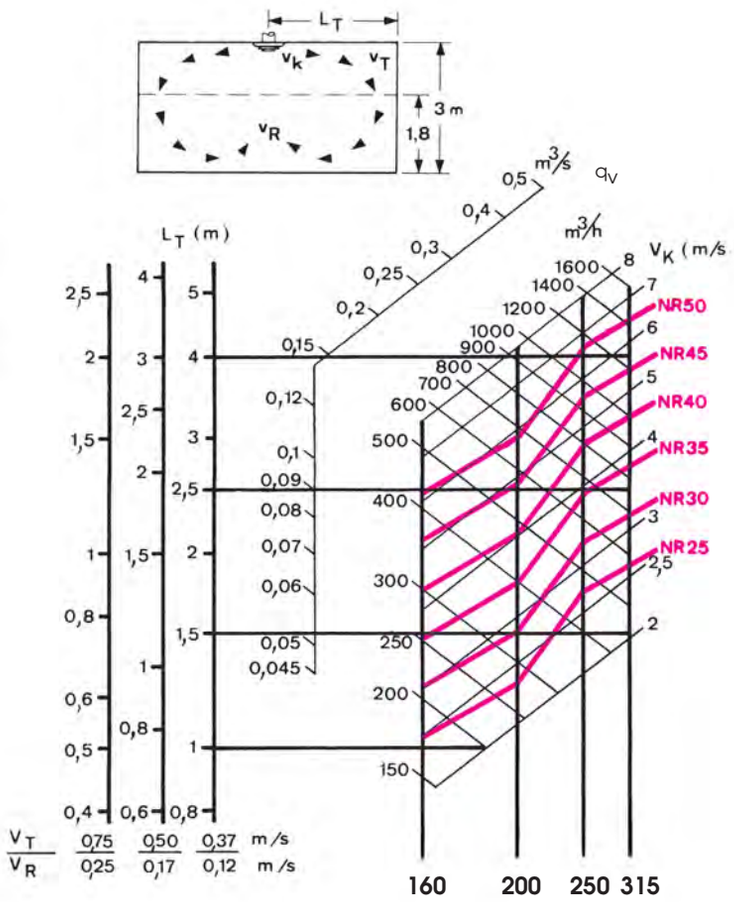
Selection diagram - supply

DA340T/360T with 4-way exhaust

- With ceiling effect
- Damper completely open

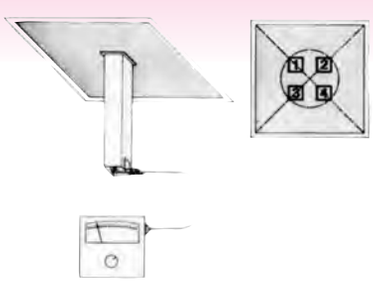


4-way



With side entry (DA360S): NR + 4

Air flow rate measurement - supply



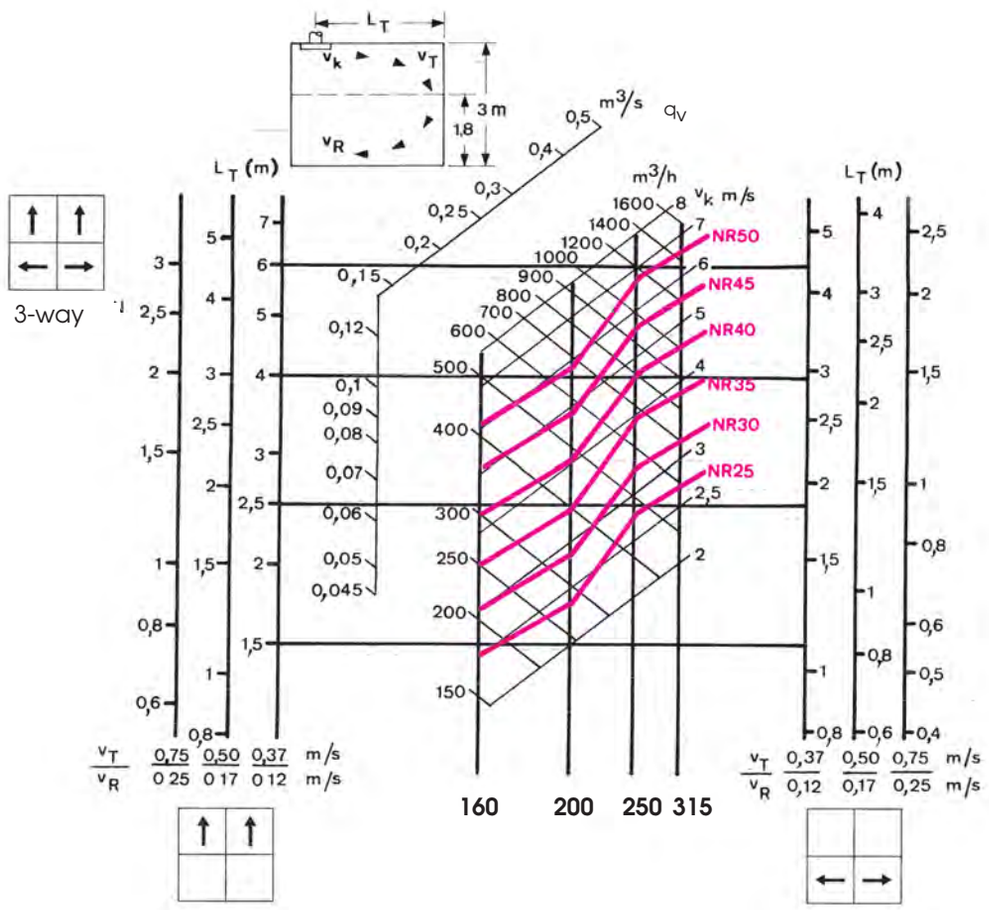
A_k-values (m²)				
Size	160	200	250	315
A_k(m²)	0,019	0,032	0,046	0,063

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).

Selection diagram - supply

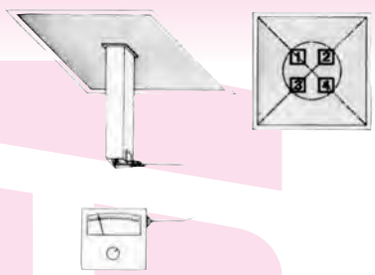
DA340T/360T with 3-way exhaust

- With ceiling effect
- Damper completely open



With side entry (DA360S): NR + 4

Air flow rate measurement-supply



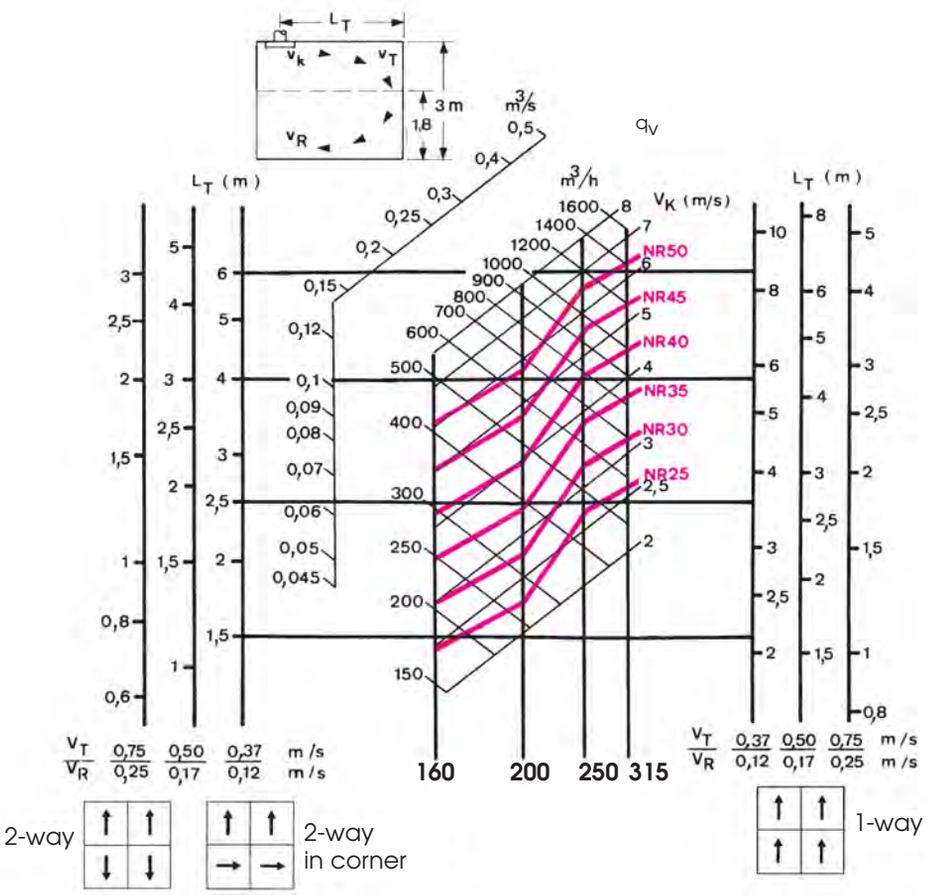
A_k-values (m²)				
Size	**160**	**200**	**250**	**315**
A_k (m²)	0,019	0,032	0,046	0,063

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).

Selection diagram - supply

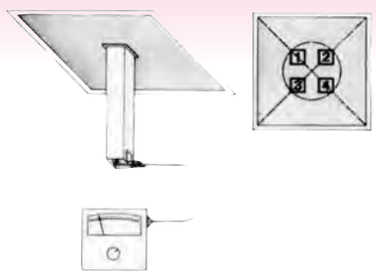
DA340T/360T with 1 and 2-way exhaust

- With ceiling effect
- Damper completely open



With side entry (DA360S): NR + 4

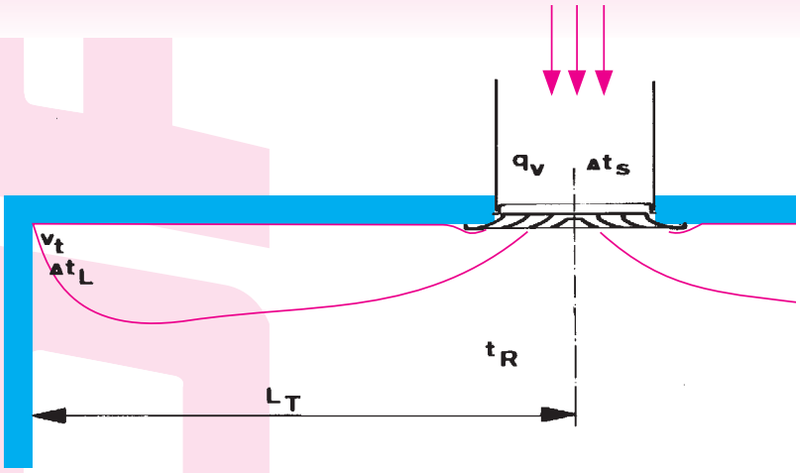
Air flow rate measurement - supply



A_k-values (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).

Example

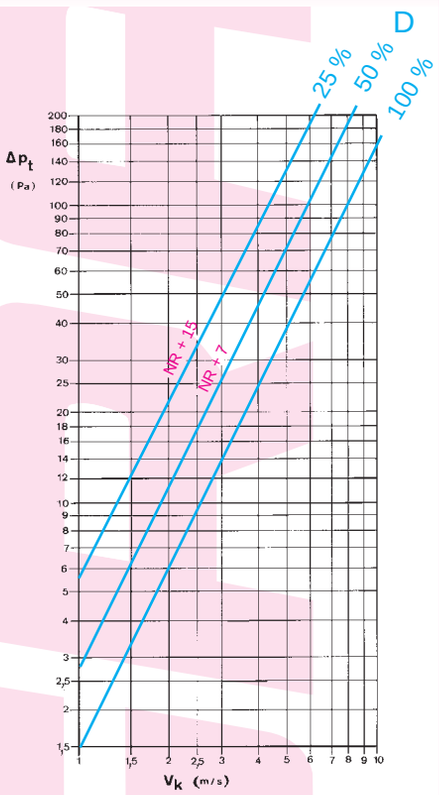


Selection data:
- Air flow rate q_V = 500 m³/h
- Throw L_T = 1,4 m at v_T = 0,5 m/s

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.

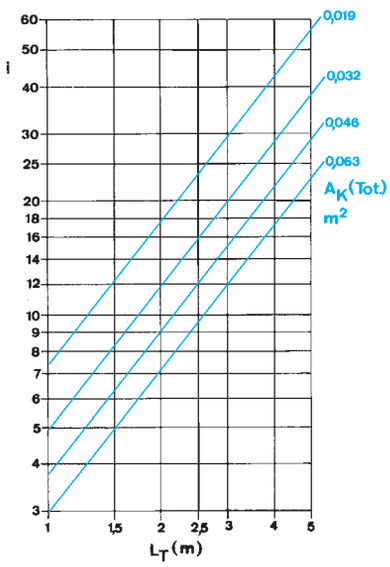
Pressure loss

with damper DT003

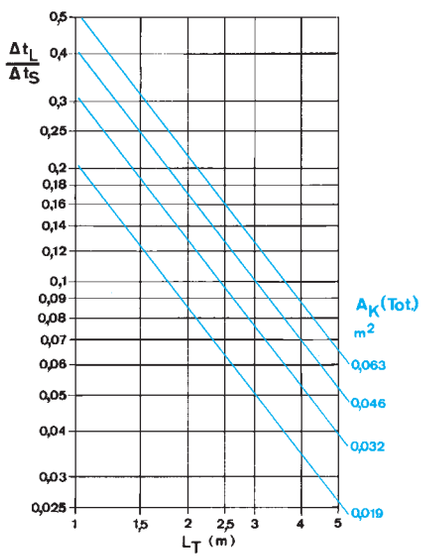


Induction and temperature quotient with ceiling effect

Induction



Temperature quotient



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