

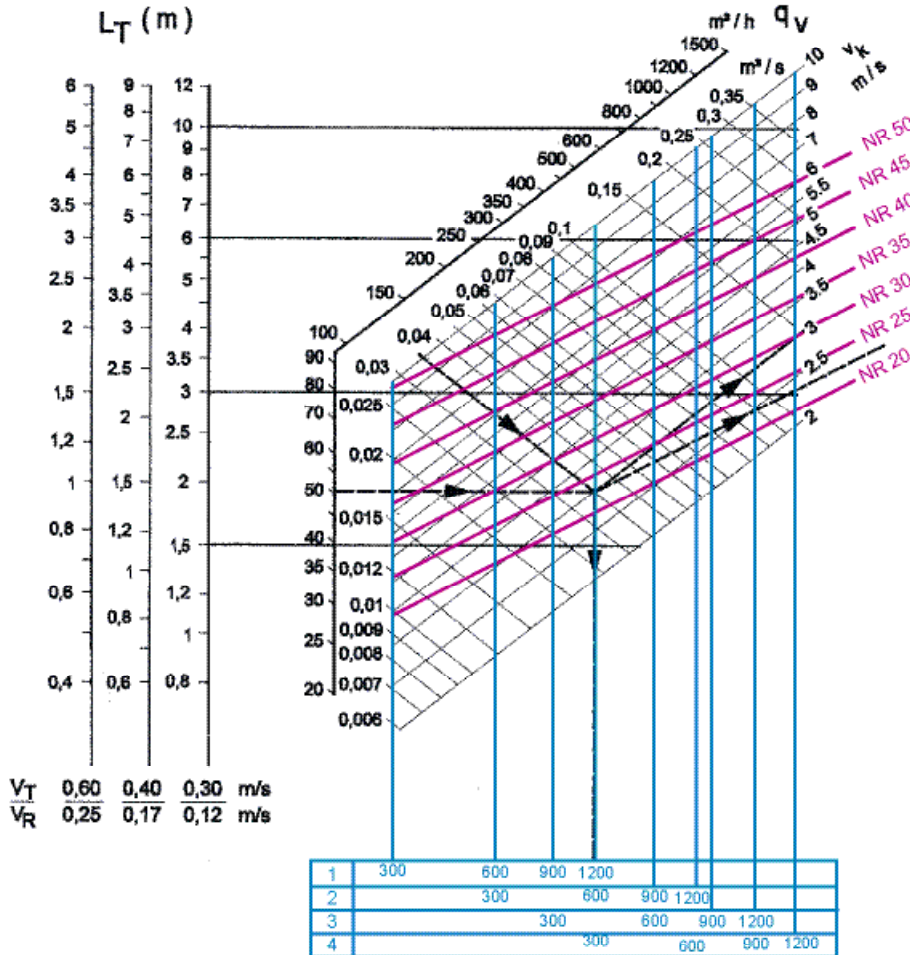
FIXED SLOT DIFFUSER
TE600 • TE700

Selection diagram - supply

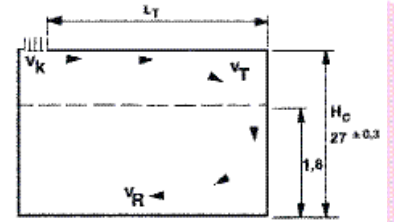
Type TE600 • TE700

- with ceiling effect

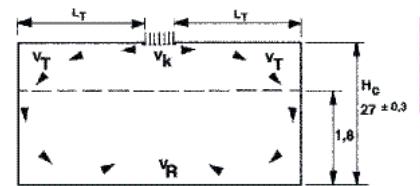
Valid for cooling up to $\Delta t_s = -8$ K
Valid for heating up to $\Delta t_s = +20$



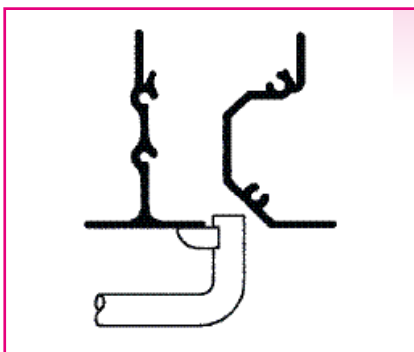
ceiling one-way exhaust pattern



ceiling two-way exhaust pattern

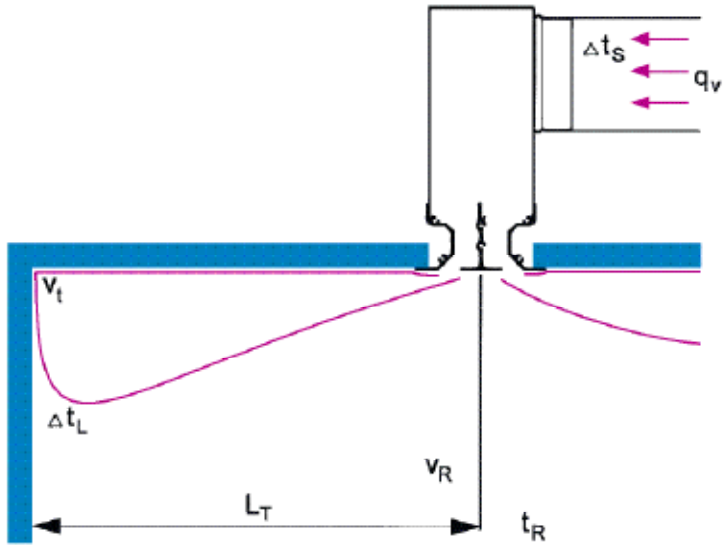


Air flow rate measurement - supply



A _k -values (m ² /m)	
Number of slots	A _k
1	0,0097
2	0,0195
3	0,0292
4	0,0390

Example



The diagram illustrates a diffuser installation. Air is supplied from a duct at the top, with a supply air velocity v_s and a supply air flow rate q_v . The supply air temperature is Δt_s . The diffuser is a horizontal slot with a length L_T . The air velocity at the diffuser is v_t . The air velocity at a distance t_R from the diffuser is v_R . The air temperature at a distance t_L from the diffuser is Δt_L .

Selection data:

- Air flow rate $q_v = 0,035 \text{ m}^3/\text{s}$
- Throw $L_T = 1,9 \text{ m}$ at $v_t = 0,3 \text{ m/s}$

Solution:

- Diffuser with - 1 slot ($L = 1200 \text{ mm}$)
- 2 slots ($L = 600 \text{ mm}$)
- 4 slots ($L = 300 \text{ mm}$)

with 1 supply direction

- Supply air velocity $v_k = 3 \text{ m/s}$
- Noise level NR 23
- Total pressure loss with damper completely open: $\Delta P_t = 4,7 \text{ Pa}$

Pressure loss TE600 / TE700

