

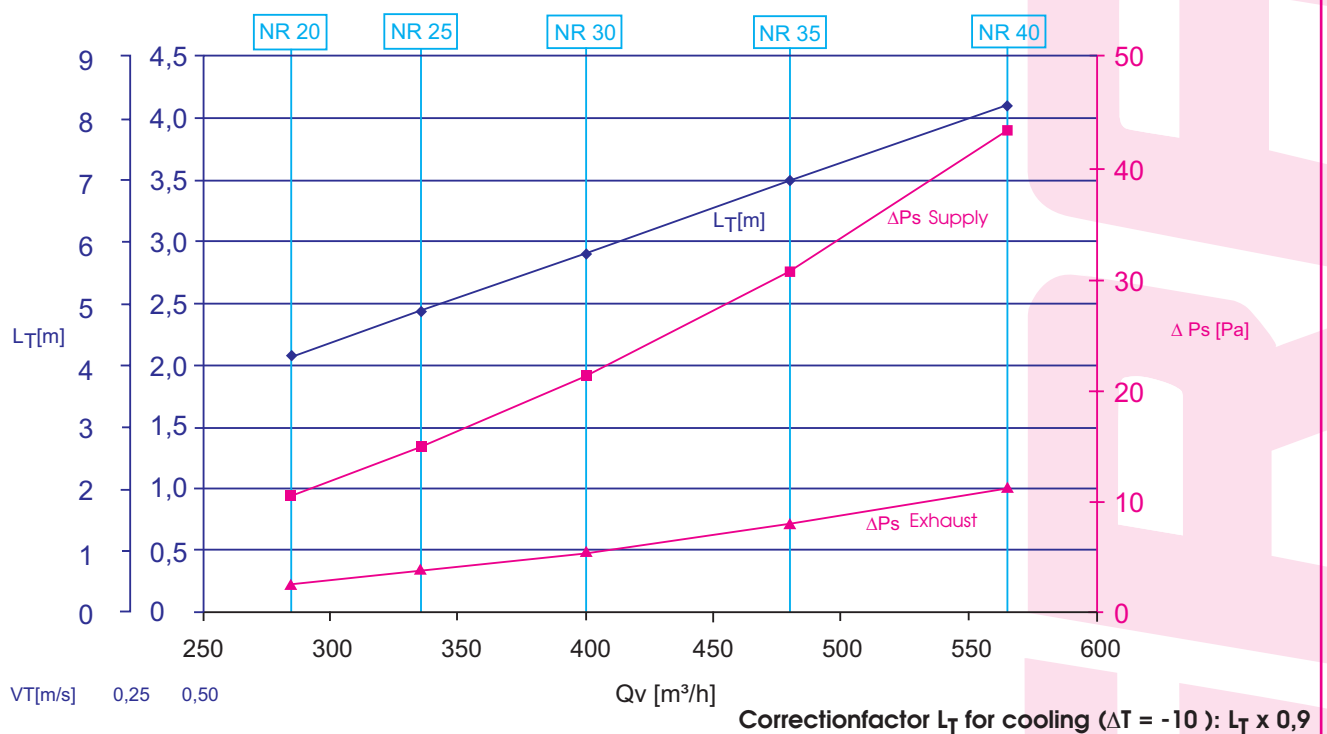
4-WAY EXHAUST SLOT DIFFUSER FOR MOUNTING IN A FALSE CEILING WITH CENTRAL EXHAUST GRILL TS750

Selection diagram

TS751 594 x 594

Ak 0,024 m²

Qv (m ³ /h)	L _T (0,5 m/s) (m)	Vk (m/s)	ΔPs (Pa) exhaust	ΔPs (Pa) supply	L _w (NR)	L _w (dB(A))
285	2,1	3,4	3	11	20	26,5
335	2,4	3,5	4	15	25	30,9
400	2,9	4,7	5	22	30	36,1
480	3,5	5,7	8	31	35	41,1
565	4,1	6,7	11	44	40	45,3

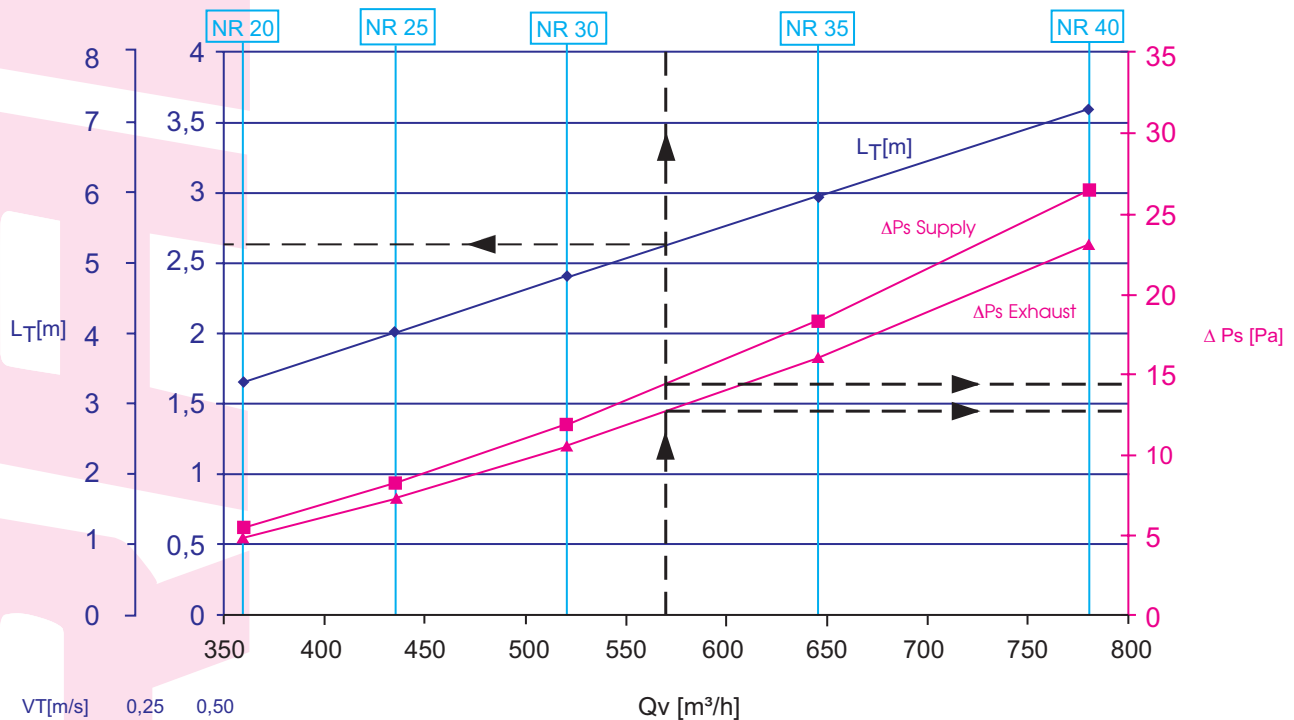


Selection diagram

TS752 594 x 594

Ak 0,038 m²

Qv (m ³ /h)	L _T (0,5 m/s) (m)	Vk (m/s)	ΔPs (Pa) exhaust	ΔPs (Pa) supply	L _w (NR)	L _w (dB(A))
360	1,7	2,6	5	5	20	26,3
435	2,0	3,2	7	8	25	30,8
520	2,4	3,8	11	12	30	36,0
645	3,0	4,7	16	18	35	
780	3,6	5,7	23	27	40	46,0



Correctionfactor L_T for cooling ($\Delta T = -10$): $L_T \times 0,9$

Example:

Data:

air flow = 570 m³/h
 maximum noise level NR33
 size diffuser 594 x 594

Solution:

TS752 (594 x 594)
 supply air velocity $V_k = 4,2$ m/s
 ΔP_s (Pa) exhaust = 12,5 Pa
 ΔP_s (Pa) supply = 14 Pa
 noise level NR32
 throw = 2,6 m

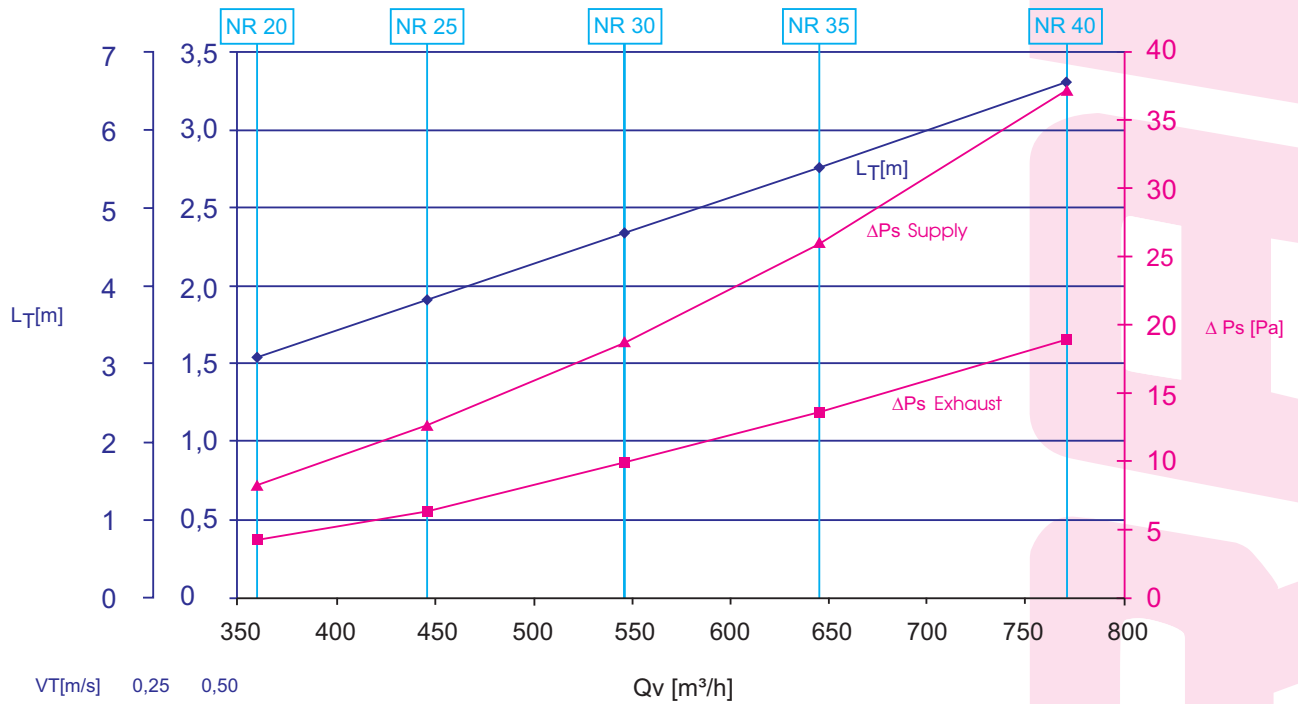
$$\frac{570 \text{ m}^3/\text{h}}{3600 \text{ s}} = 0,16 \text{ m}^3/\text{s} \longrightarrow \frac{0,16 \text{ m}^3/\text{s}}{0,038 \text{ m}^2} = 4,21 \text{ m/s}$$

Selection diagram

TS753 594 x 594

Ak 0,043 m²

Qv (m ³ /h)	L _T (0,5 m/s) (m)	Vk (m/s)	ΔPs (Pa) exhaust	ΔPs (Pa) supply	L _w (NR)	L _w (dB(A))
360	1,5	2,3	8	4	20	26,1
445	1,9	2,9	13	6	25	31,0
545	2,3	3,5	19	10	30	36,1
645	2,8	4,1	26	14	35	40,7
770	3,3	4,9	37	19	40	45,6

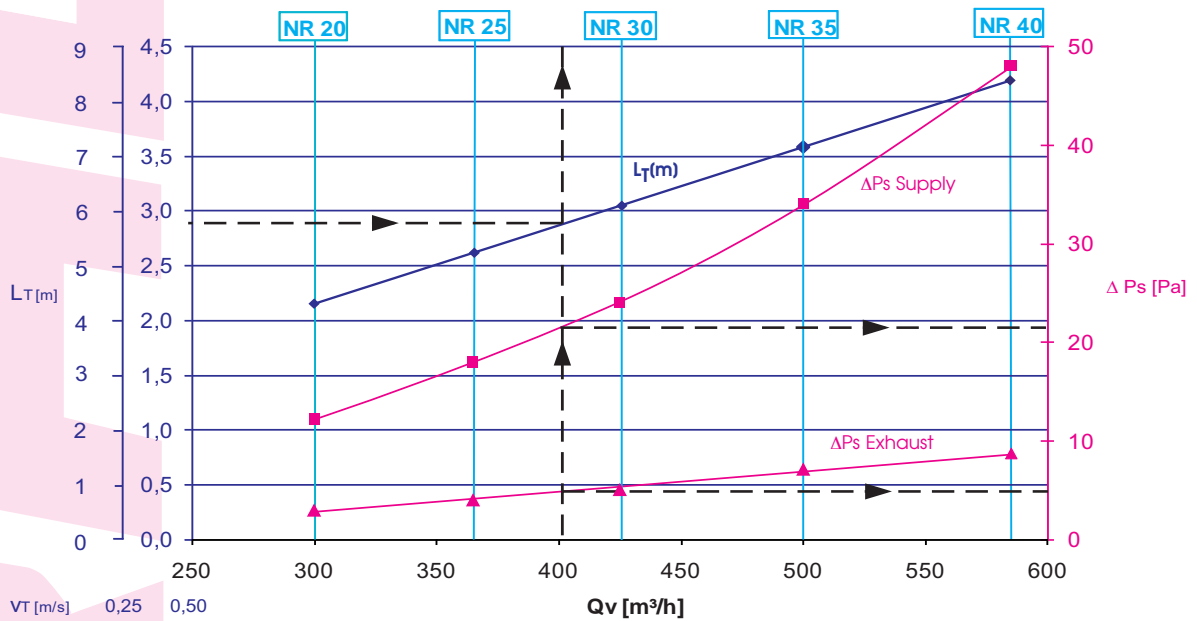


Selection diagram

TS751 670 x 670

Ak 0,023 m²

Qv (m ³ /h)	L _T (0,5 m/s) (m)	Vk (m/s)	ΔPs (Pa) exhaust	ΔPs (Pa) supply	L _W (NR)	L _W (dB(A))
300	2,1	3,6	3	12	20	26,0
365	2,6	4,4	4	18	25	30,8
425	3,0	5,1	5	24	30	36,0
500	3,6	6,0	7	34	35	40,0
585	4,2	7,0	9	48	40	45,3



Correctionfactor L_T for cooling (ΔT = -10): L_T x 0,9

Example:

Data:

air flow = 400 m³/h
 throw L_T = 2,9 m at V_T = 0,5 m/s
 maximum noise level NR30

Solution:

TS752 (670 x 670)
 air flow rate V_k = 2,6 m/s
 noise level NR 25
 total pressure supply + exhaust: ΔPs = 11 Pa

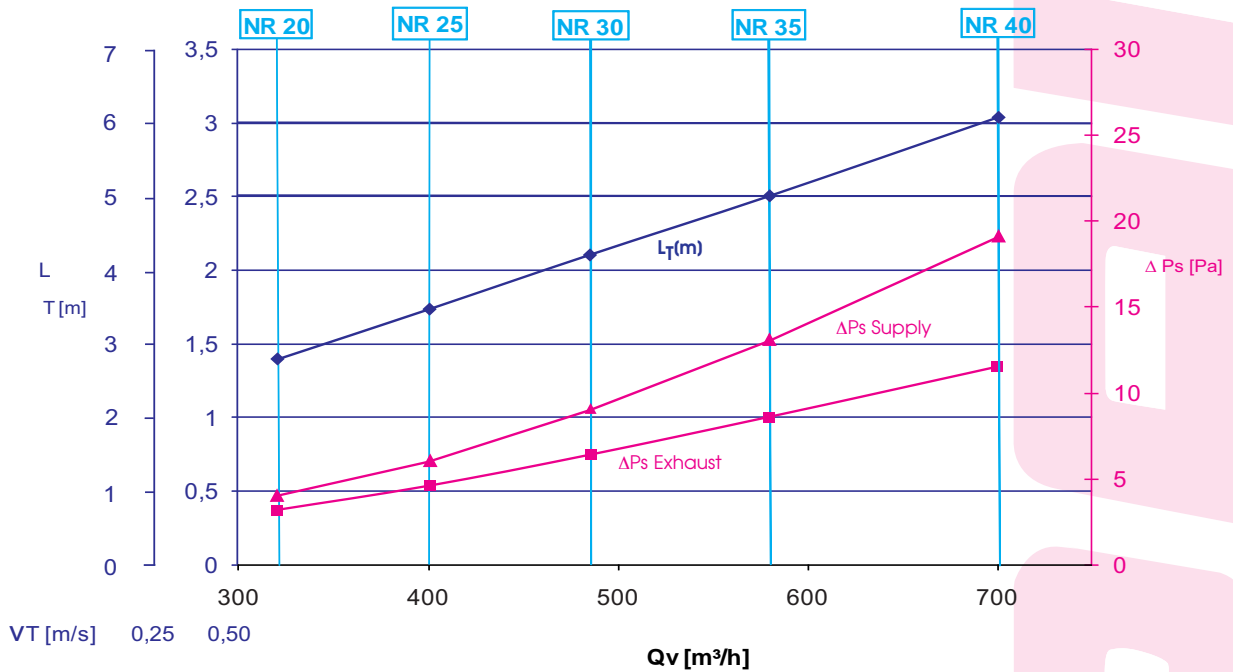
$$\longrightarrow \frac{400 \text{ m}^3/\text{h}}{3600 \text{ s}} = 0,11 \text{ m}^3/\text{s} \longrightarrow \frac{0,11 \text{ m}^3/\text{s}}{0,023 \text{ m}^2} = 4,8 \text{ m/s}$$

Selection diagram

TS752 670 x 670

Ak 0,045 m²

Qv (m ³ /h)	L _T (0,5 m/s) (m)	Vk (m/s)	ΔPs (Pa) exhaust	ΔPs (Pa) supply	L _w (NR)	L _w (dB(A))
320	1,4	2,0	3	4	20	26,1
400	1,7	2,5	5	6	25	30,4
485	2,1	3,0	6	9	30	34,8
580	2,5	3,6	9	13	35	39,3
700	3,0	4,4	12	19	40	44,1

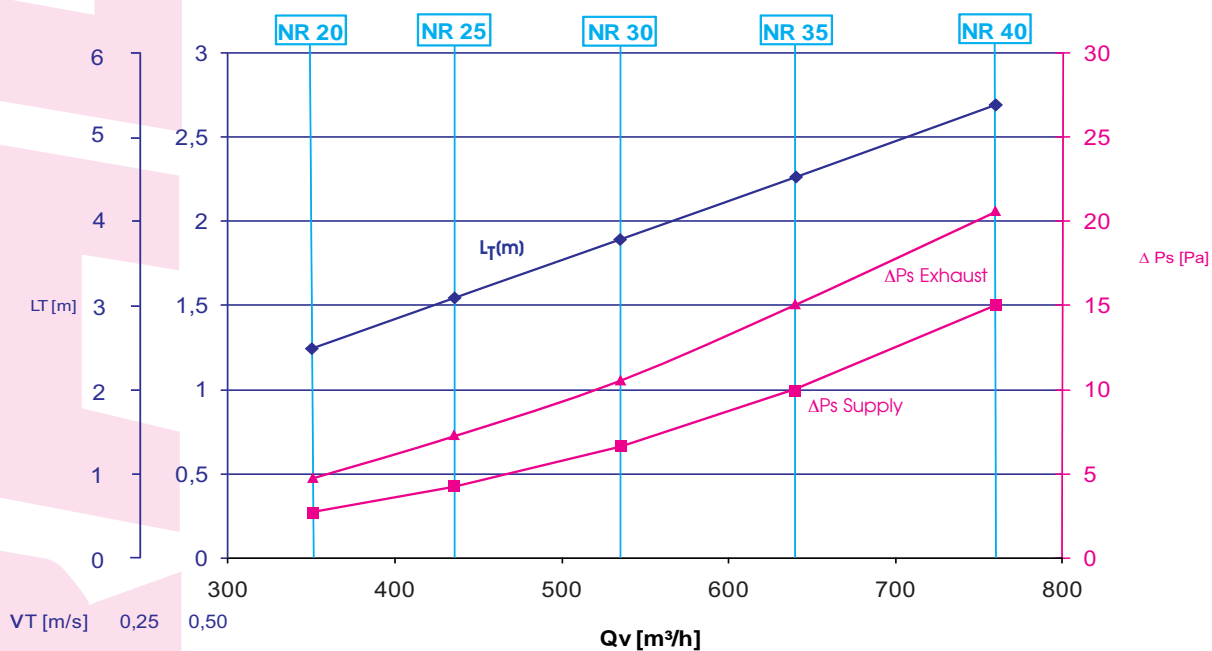


Selection diagram

TS753 670 x 670

Ak 0,055 m²

Qv (m ³ /h)	L _T (0,5 m/s) (m)	Vk (m/s)	ΔPs (Pa) exhaust	ΔPs (Pa) supply	L _w (NR)	L _w (dB(A))
350	1,2	1,8	5	3	20	26,0
435	1,5	2,2	7	4	25	31,0
535	1,9	2,7	11	7	30	35,6
640	2,3	3,2	15	10	35	40,3
760	2,7	3,9	21	15	40	44,2



Correctionfactor L_T for cooling (ΔT = -10): L_T x 0,9