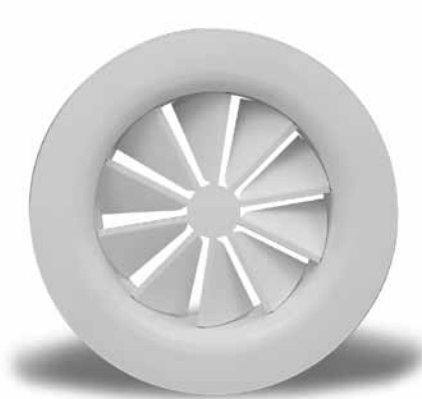
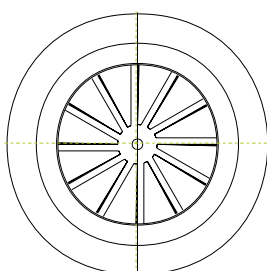


Swirl diffuser OD-7

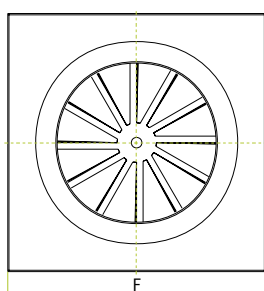
- Fixed blades
- Different installation possibilities
- Three possible diffuser shapes



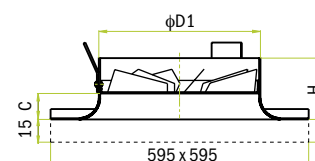
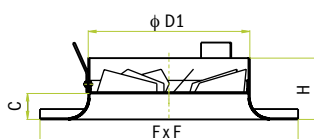
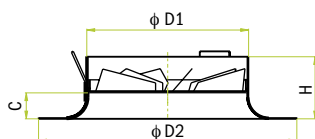
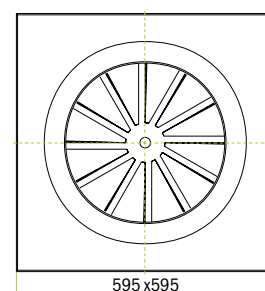
OD-7/RB



OD-7/KB



OD-7/KB/PM

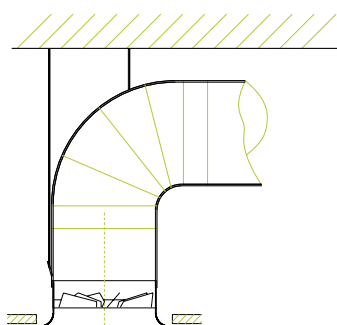


Size	$\phi D1$	$\phi D2$	$\phi D3$	F	H	C	$A_{ef} (m^2)$
100	98	150	-	195	65	17	0.0033
125	123	200	158	245	65	17	0.0049
160	158	250	197	295	65	20	0.0081
180	178	250	-	295	65	20	0.0104
200	198	300	241	345	65	15	0.0127
250	248	350	295	395	65	15	0.0200
315	313	450	364	495	88	35	0.0317
355	353	500	-	595	88	35	0.0481
400	398	550	-	595	125	45	0.0620

Type OD-7/KB with plate (F = 595) is suitable for ceiling rasters of 600 mm. (all sizes available)

A_{ef} – effective discharge area (m²)

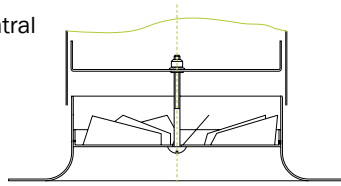
Installation



Suspension brackets (0)

Possible installations

- Installation on cross-bar with central screw (S)



Installation on cross-bar with central screw (S).

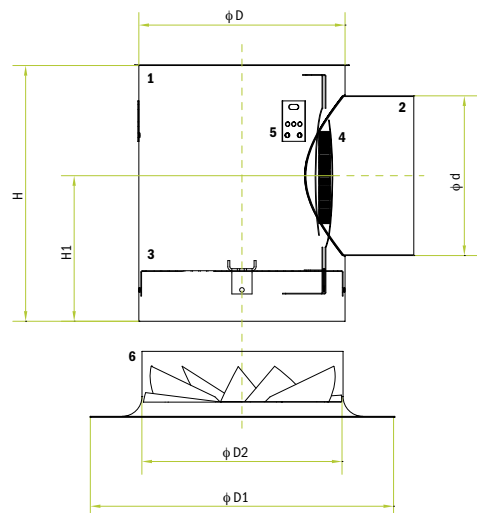
Spigot dimensions

Size	ΦD1	ΦD0	L	H
100	97	78	20	65
125	122	98	35	65
160	157	123	40	65
180	177	158	25	65
200	197	178	25	65
250	247	198	50	65
315	312	248	65	88
355	352	248	65	88
400	397	313	65	125

Round plenum box

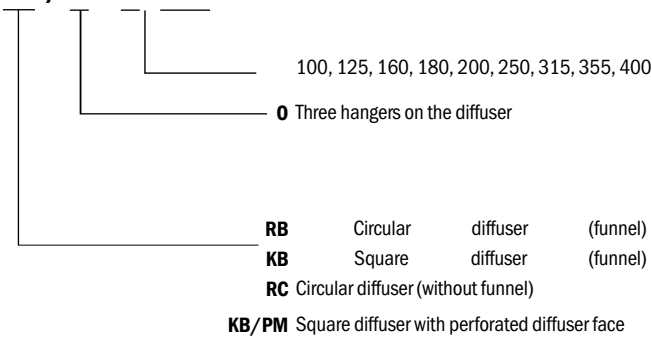
Size	ΦD	ΦD1	ΦD2	H	h1	Φd
100	103	150	98	185	154	98
125	128	200	123	185	154	98
160	163	250	158	210	166	123
180	183	250	178	210	126	123
200	204	300	198	210	126	123
250	254	350	248	285	164	198
315	319	450	313	335	189	248
355	358	500	253	335	189	248
400	404	550	398	400	221	313

1. Plenum box
2. Inlet spigot
3. Dispersing plate (only for supply)
4. Volume control damper (M)
5. Suspension bracket
6. Diffuser OD-7



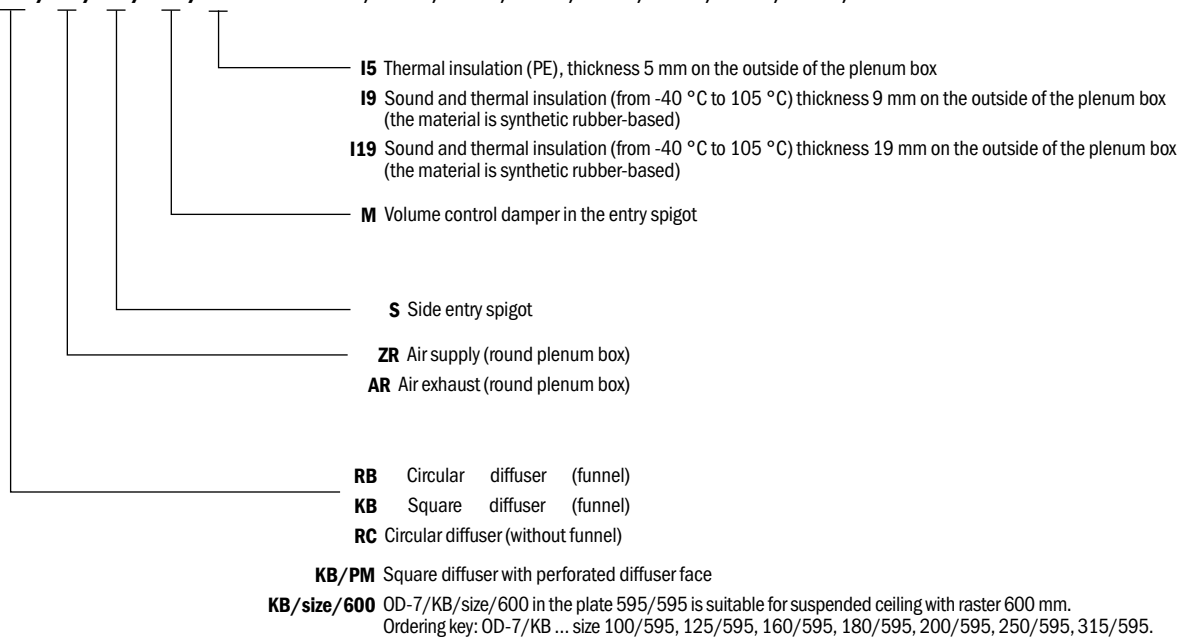
Ordering key

OD - 7 / RB / 0 Size

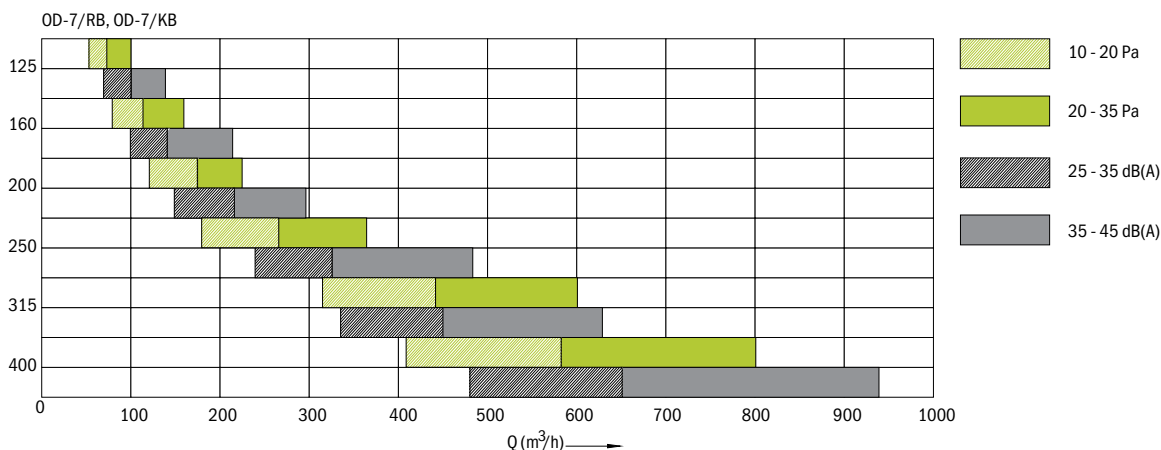


Ordering key for OD-7 with plenum box

OD - 7 RB / Z / S / M / I Size 100, 125, 160, 180, 200, 250, 315, 355, 400

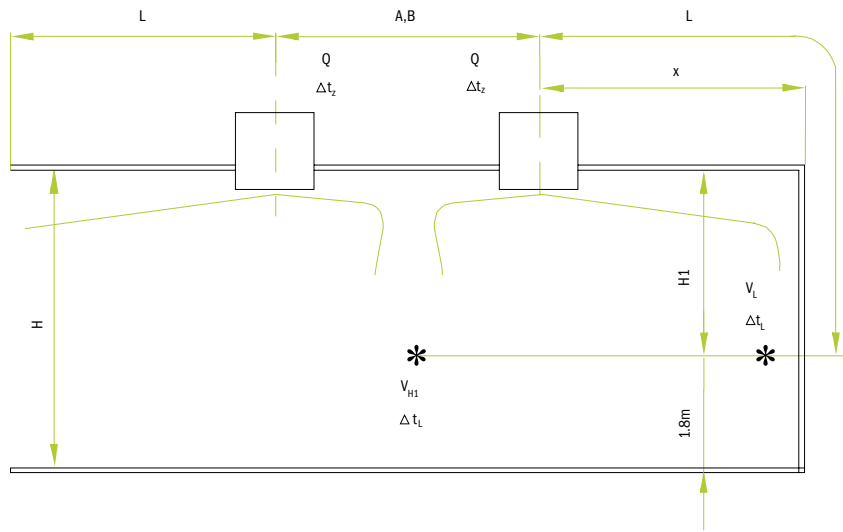


Fast selection diagram

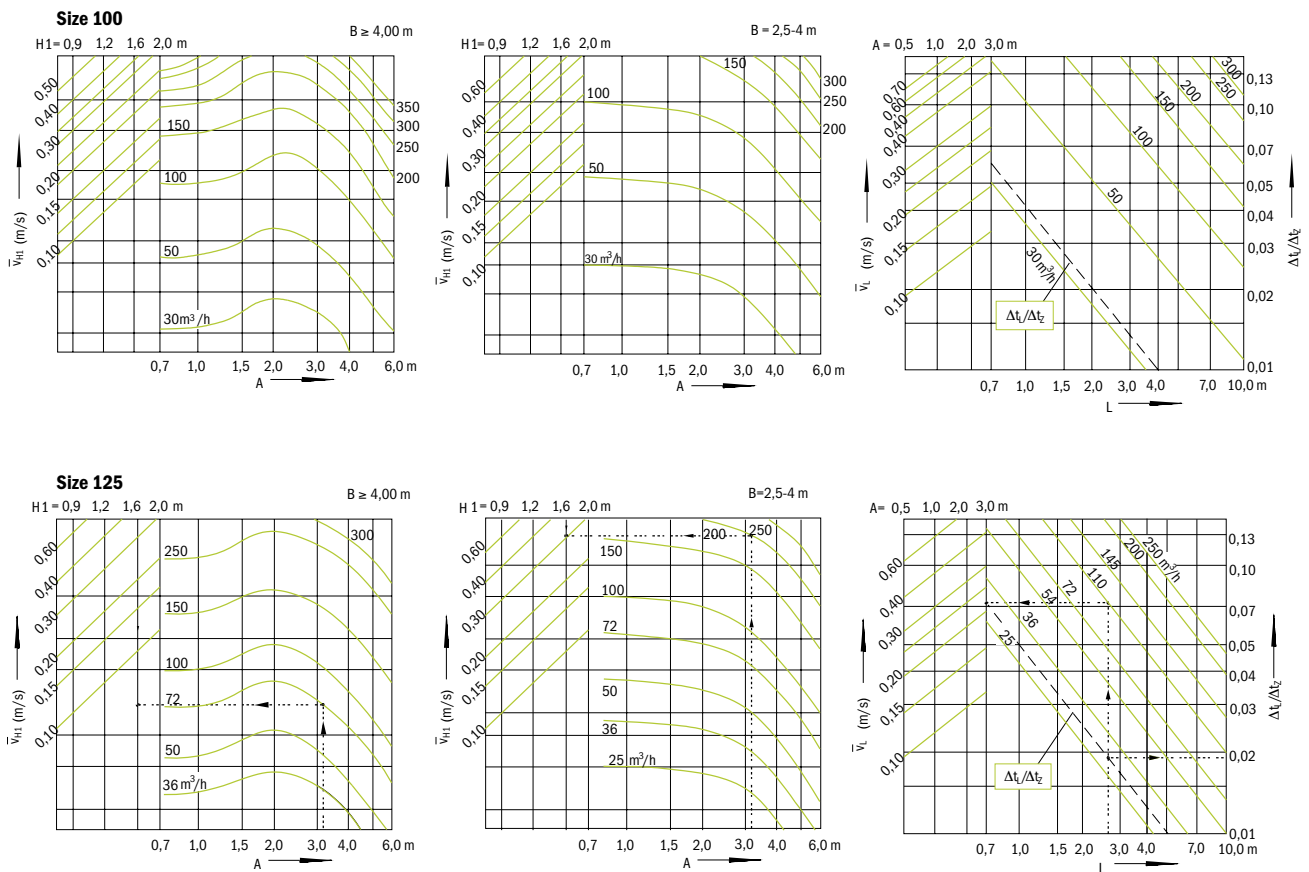


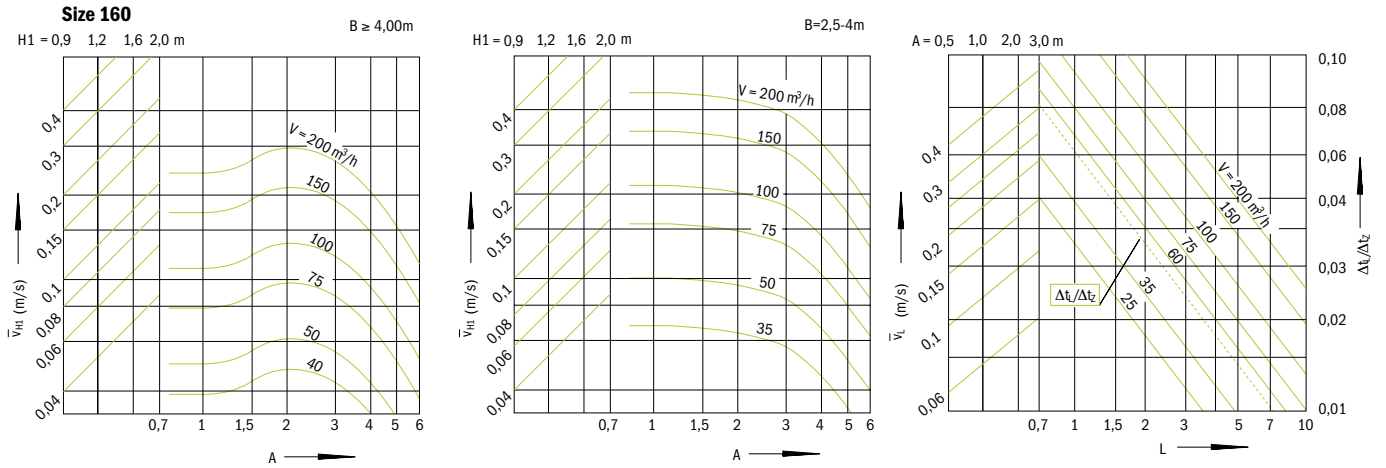
Definition of symbols

- Q (m³/h)** Air flow
- x (m)** Horizontal distance to the wall
- H (m)** Room height
- H1 (m)** Distance from ceiling to occupied zone
- L (m)** Throw distance (L=H1+x)
- v_L (m/s)** Air velocity at the throw distance L
- Δt_s (K)** Temperature difference between the supply and room air
- Δt_c (K)** Difference between the core and room air temperature
- Δp_r (Pa)** Pressure drop
- L_{WA} (dB(A))** Sound power level
- v_{H1} (m/s)** Air velocity at the H1 distance
- A, B (m)** Distance between diffusers by length and by width

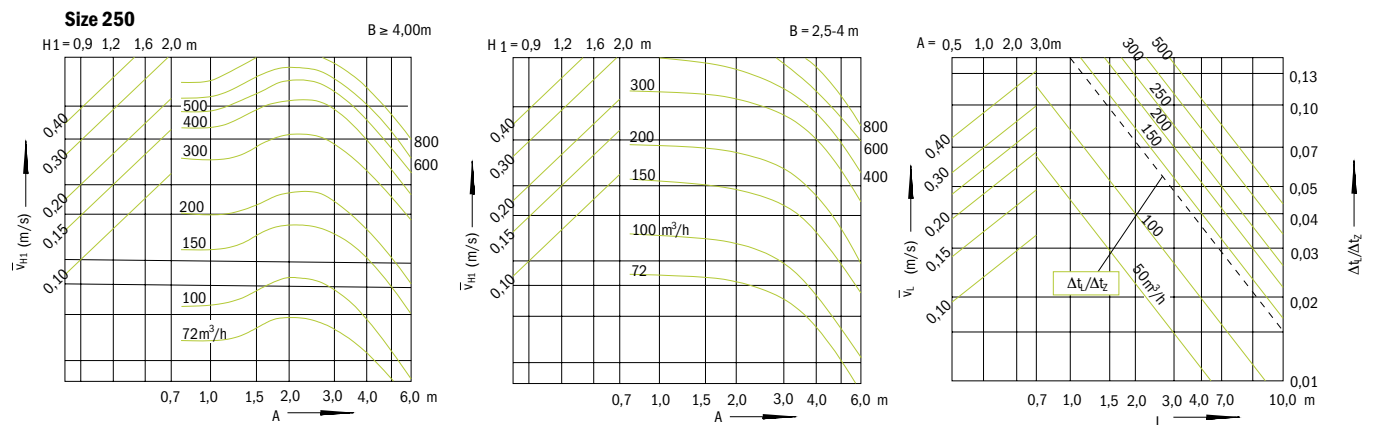
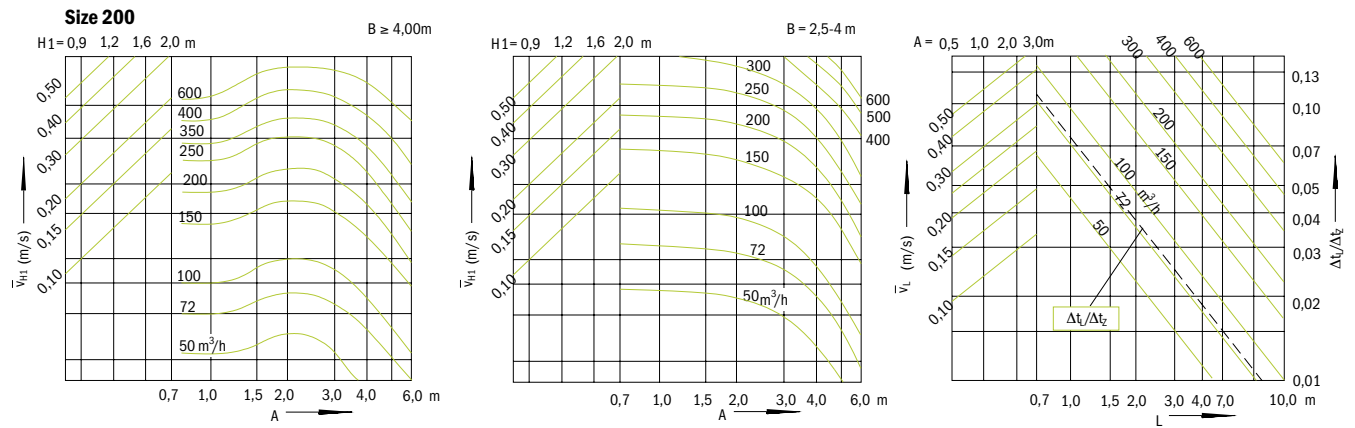
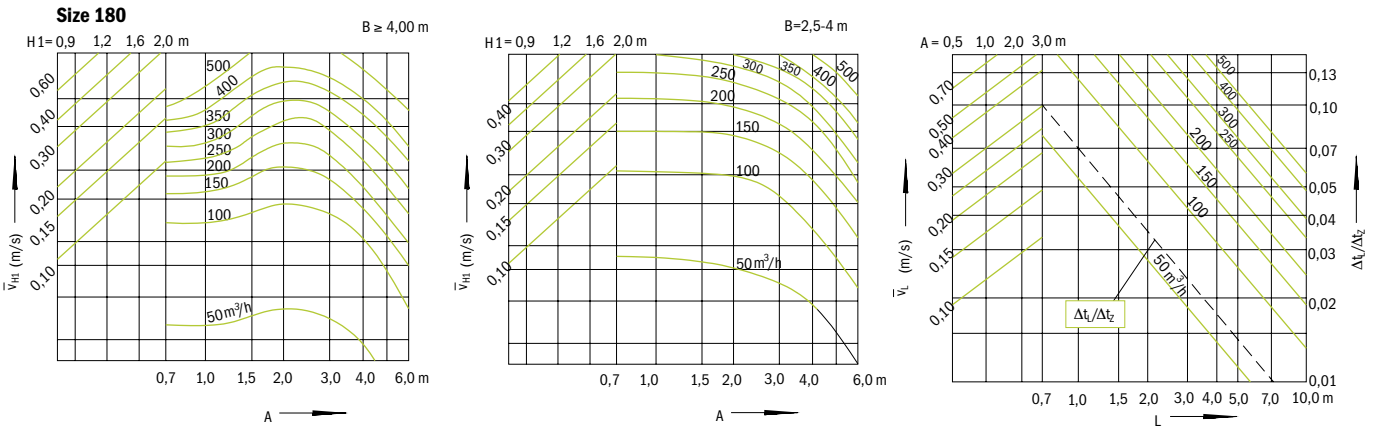


Air velocity of the throw distances (with ceiling effect)

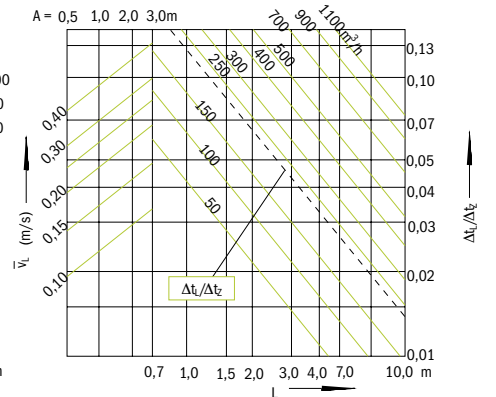
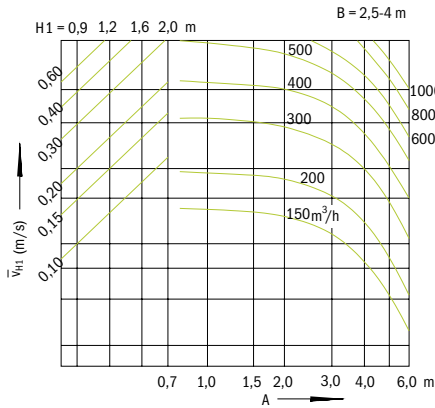
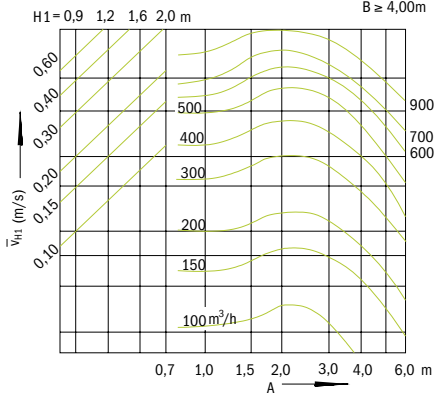




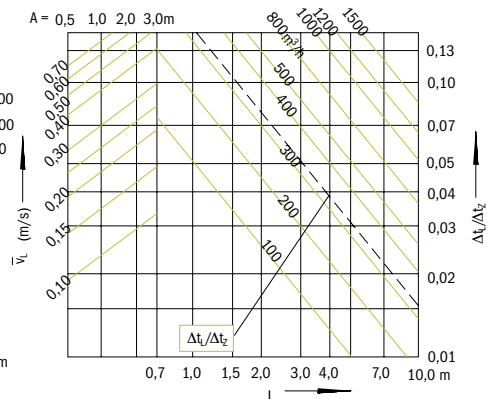
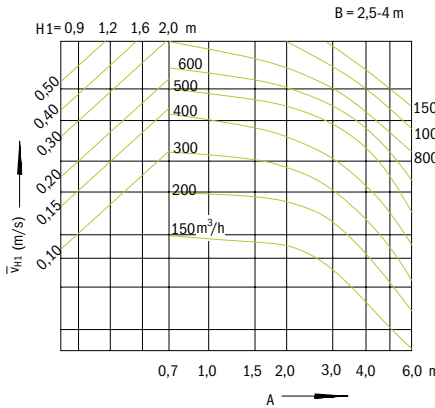
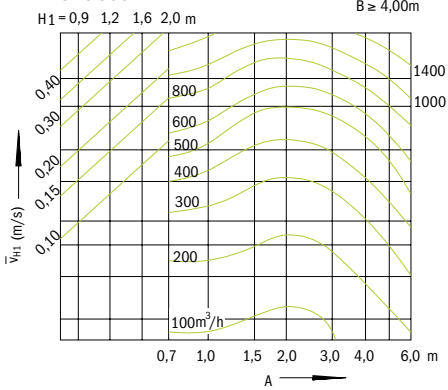
Air velocity of the throw distances (with ceiling effect)



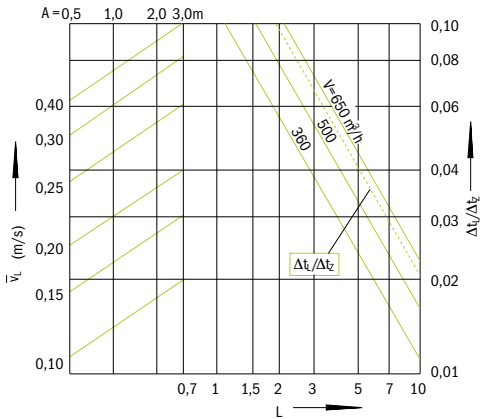
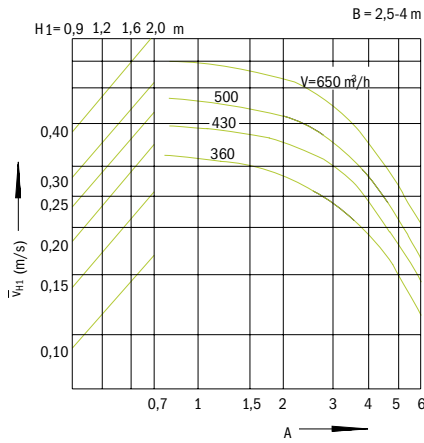
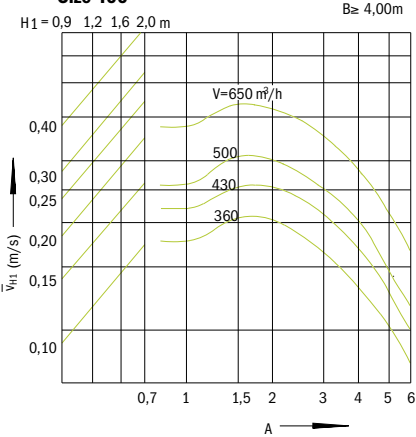
Size 315



Size 355



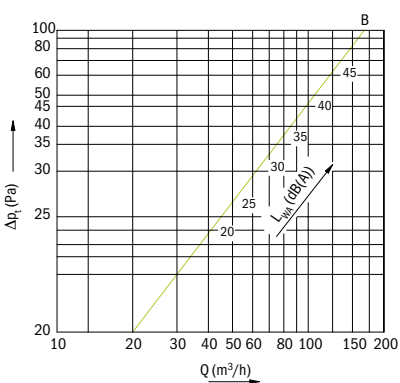
Size 400



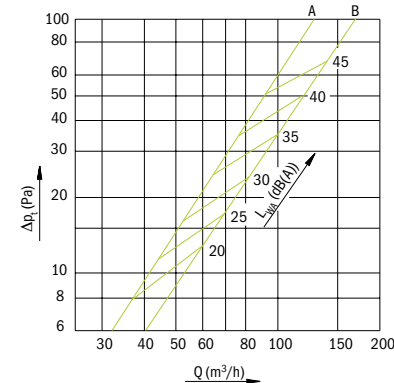
Pressure drop and sound power level

The diagram values apply to OD-7 with plenum box, at 100 % open regulation blade. Line A is for OD-7/RC, Line B is for OD-7/RB and OD-7/KB

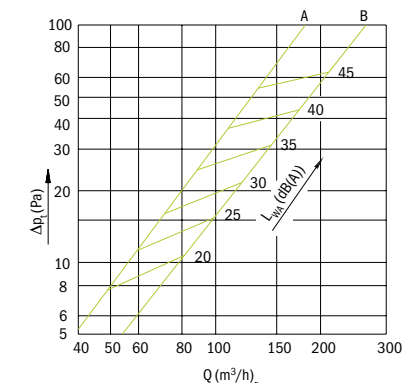
OD-7 100



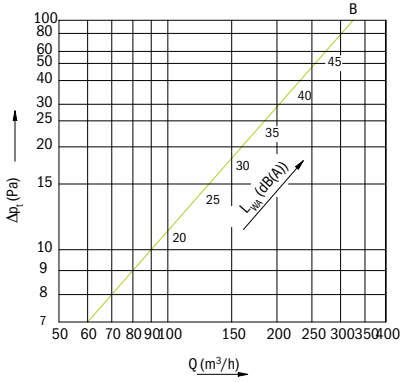
OD-7 125



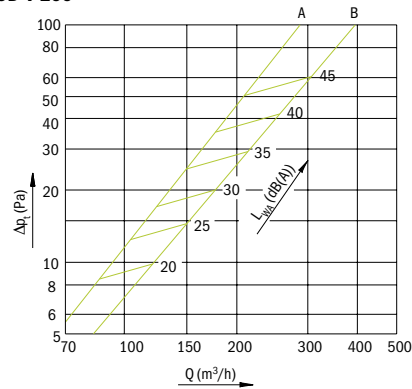
OD-7 160



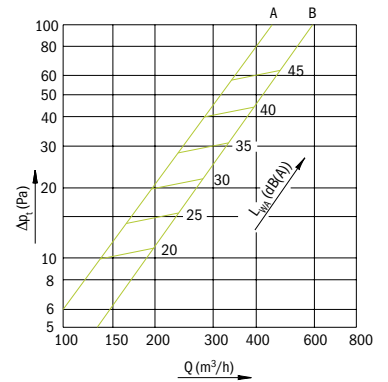
OD-7 180



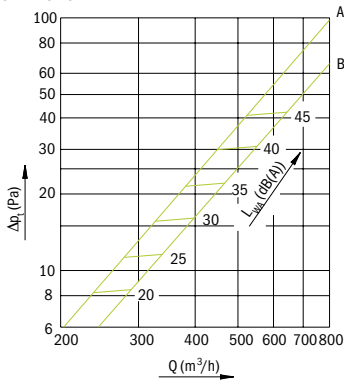
OD-7 200



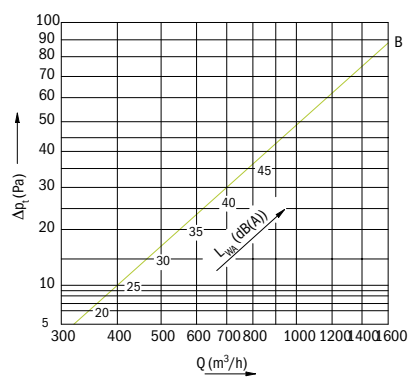
OD-7 250



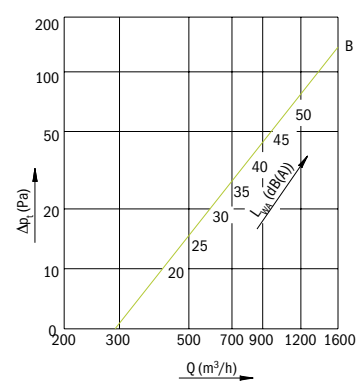
OD-7 315



OD-7 355



OD-7 400



Correction factor for PM version

- Δp_t (Pa) X 1.2
- L_{wa} (dB(A)) X 1.1