



Swirl Diffusers

Neo



At Gerhman we are driven by a strong desire to continuously generate improvements. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability.



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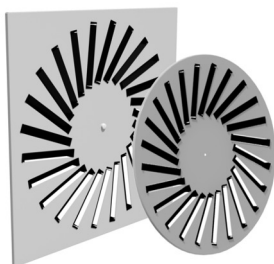
Square and Round Neo Ceiling Swirl Diffusers have been designed to provide attractive, non-obtrusive, high quality indoor air diffusion.

Neo is able to achieve high room air diffusion quality, due to the swirling motion of the discharge. Strong Induction draws room air up into the supply air flow path, which results in mixing at high level, reducing draughts and uneven temperature gradients.



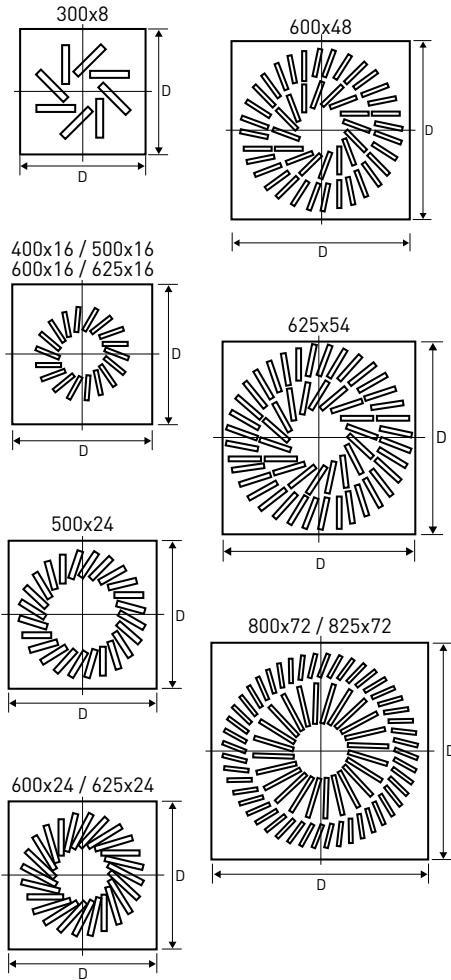
Specification

- Diffuser is made by cutting high quality GI sheets (Z-275)
- Swirl diffuser made of high-quality aluminium and stainless steel sheets is also available as an option.
- Swirl diffuser completed with black adjustable plastic air control blades and plenum with perforated equalizing plate. (Optional aluminium blade)
- Blades can be manually adjusted to give either horizontal or vertical discharge.
- Installation using balancing plenum with side connection. Connection box made of galvanized sheet metal.
- The unit is perfectly suited for installations with variable air flow.
- Cooperates particularly well with fan-coil units operating at various speed (variable flow from 25% to 100% depending on the settings).
- Horizontal or vertical air supply
- Suitable for supply and exhaust.
- Supply air jet velocity is effectively reduced due to high mixing effect.
- Suited for installation in a modular or monolith ceilings.
- Diffuser can be fixed up to a height of 4.5m.

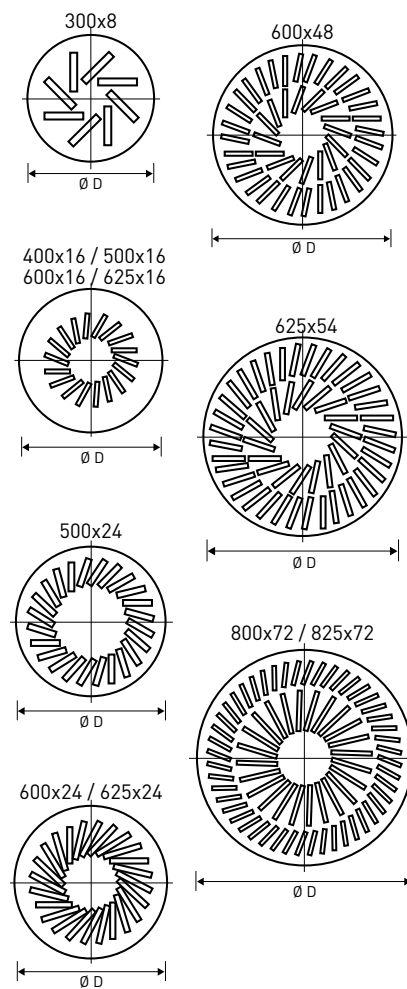


Technical sizes

NEO Q

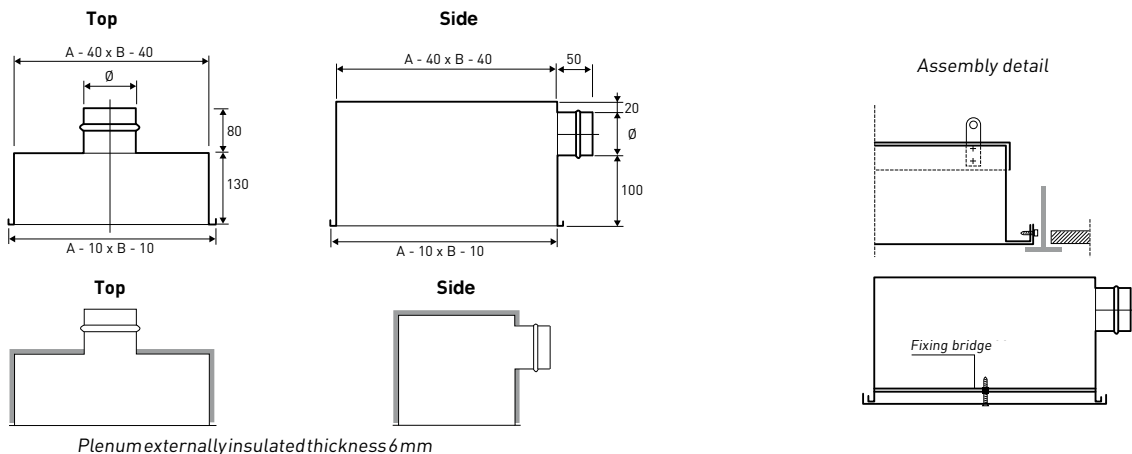


NEO R



mm	Ø D	D
300x8	298	295x295
400x16	398	395x395
500x16	498	495x495
600x16	598	595x595
625x16	623	620x620
500x24	498	495x495
600x24	598	595x595
625x24	623	620x620
600x48	598	595x595
625x54	623	620x620
800x72	798	795x795
825x72	823	820x820

Plenum box and assembly

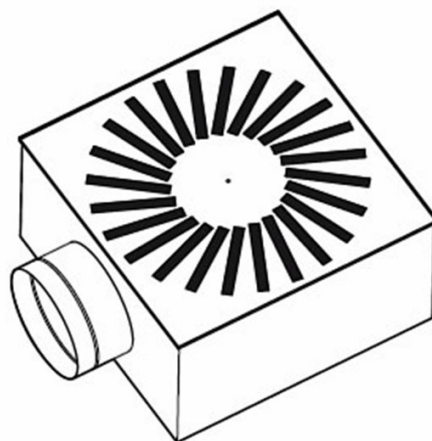


Neo-Q

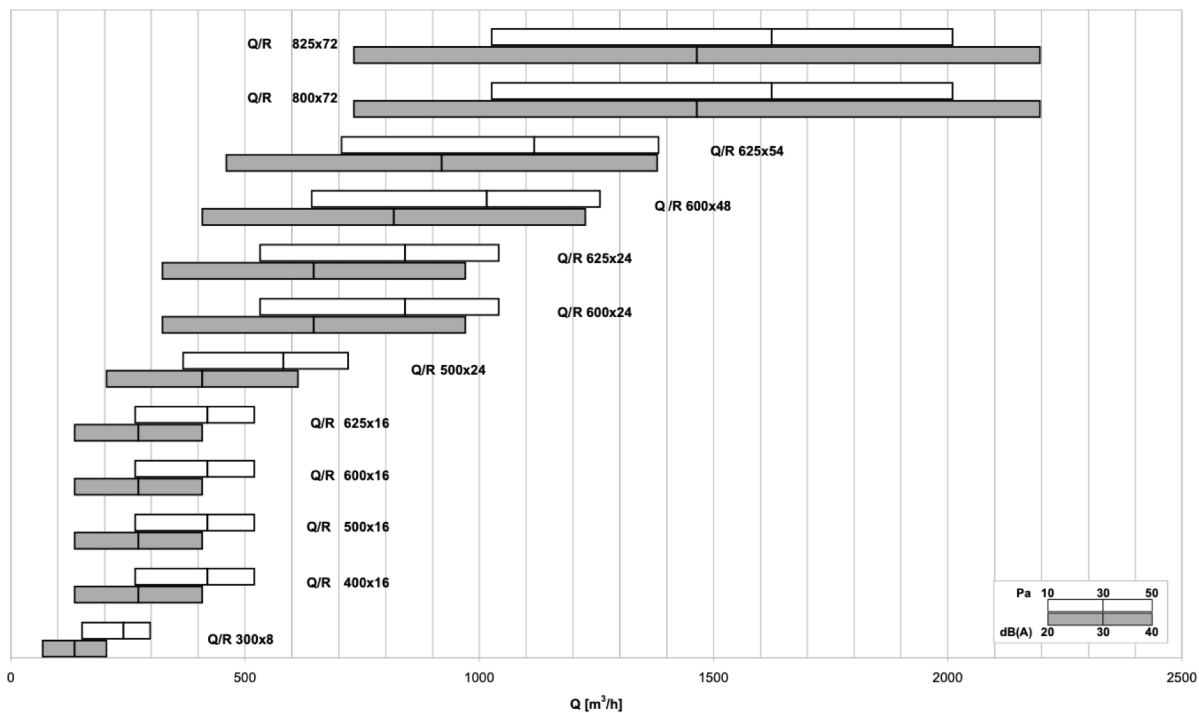
AxB	Spigot Size (mm)
300	123
400	148
500	198
600	248
625	298
800	348
825	348

Neo-R

Size (mm)	AxA	ØD	ØE
298	400	123	290
398	500	148	390
498	600	198	490
598	700	248	590
623	700	298	615
798	900	348	790
823	900	348	815



Performance



Type	A_x [m ²]	Q [m ³ /h]		L_{wa} [dB(A)]		$X_{(0,20)}$ [m]		Dp_i [Pa]	
		min	max	min	max	min	max	min	max
NEO Q/R 300x8	0,0095	150	300	32	54	1,8	3,5	10	50
NEO Q/R 400x16	0,0189	270	520	30	48	2,2	4,3	10	50
NEO Q/R 500x16	0,0189	270	520	30	48	2,2	4,3	10	50
NEO Q/R 600x16	0,0189	270	520	30	48	2,2	4,3	10	50
NEO Q/R 625x16	0,0189	270	520	30	48	2,2	4,3	10	50
NEO Q/R 500x24	0,0284	370	720	28	45	2,5	4,9	10	50
NEO Q/R 600x24	0,0449	530	1040	26	42	2,9	5,6	10	50
NEO Q/R 625x25	0,0449	530	1040	26	42	2,9	5,6	10	50
NEO Q/R 600x48	0,0568	640	1260	26	41	3,1	6,1	10	50
NEO Q/R 625x54	0,0639	710	1380	25	40	3,2	6,3	10	50
NEO Q/R 800x72	0,1017	1030	2010	24	37	3,7	7,2	10	50
NEO Q/R 825x72	0,1017	1030	2010	24	37	3,7	7,2	10	50



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