

CRS

The CRS swirl diffusers with fixed blades are throughout manufactured of steel sheet, standard finish in white colour RAL 9010.

Air diffusion by means of swirl diffusion form has, in comparison with traditional circular diffusers, high induction capacity. The rotational turbulence produced, cause a rapid mixing of supply and induced air, resulting in rapid mixing of temperatures and considerably shorter jet throws.

Besides, CRS swirl diffusers can be used in VAV systems, allowing for variations in air flow rate from 100% to 25% without risk of jet detaching from the ceiling



Ordering code

CRS-125
Size

Accessories

CRS-MB = Mounting bridge

CRS-D = damper

CRS-PBD = plenum box with perforated plate damper

Design

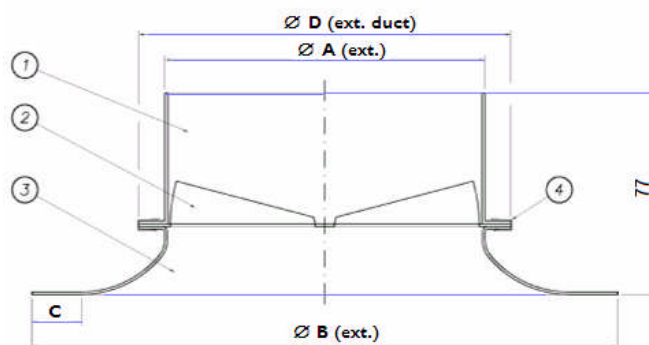
The CRS swirl diffusers are manufactured in steel sheet, with a standard powder paint finish in white colour RAL 9010. Available in the following diameter: Ø 125, Ø 160, Ø 200, Ø 250, Ø 315.

Mounting

With mounting bridge or fixing by screws on the plenum box, drop rods on ceiling, or being installed directly to supply duct connection.

Dimensions (mm)

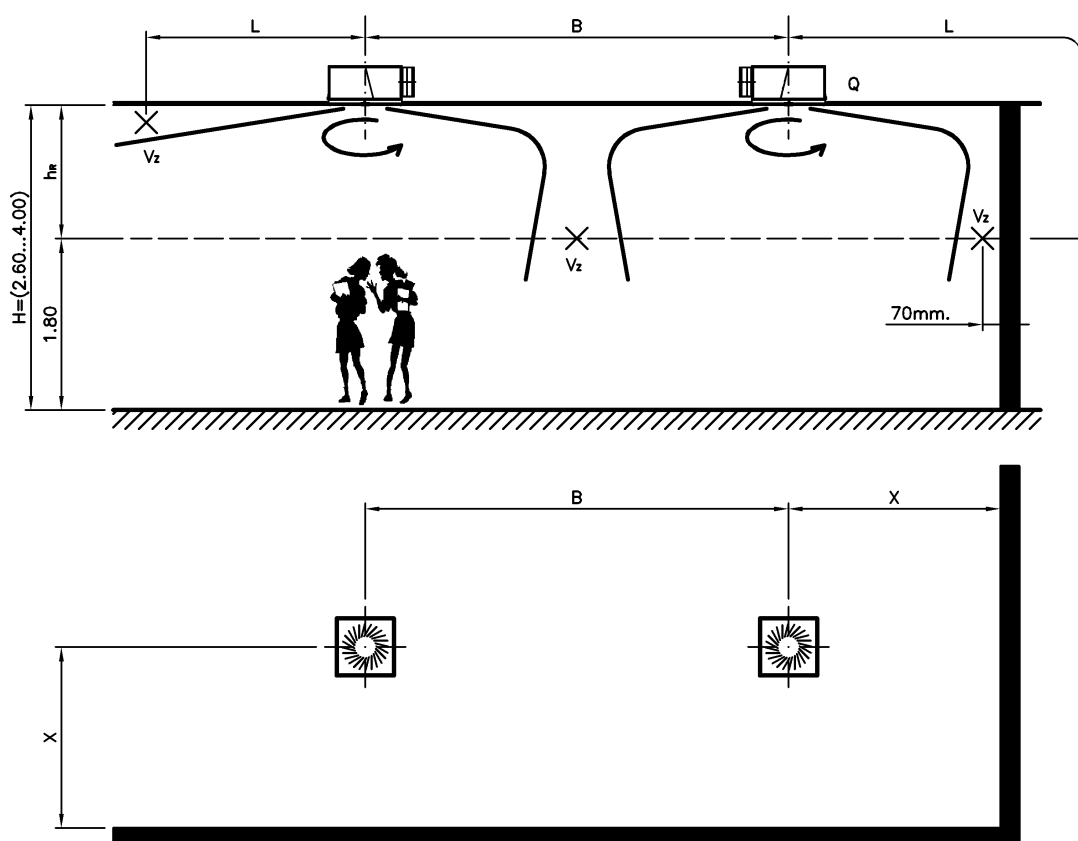
	Ø A	Ø B	C	Ø D
125	123	225	19	153
160	158	250	14	178
200	198	300	19	218
250	248	350	19	268
315	313	415	19	333



N°	Denomination
1	Joint clamp
2	External cone
3	Swirl sheet
4	spigot

Preselection based on sound level [dB(A)] and pressure drop [Pa]

	m ³ /h (Pa)			
	30 dB(A)	35 dB(A)	40 dB(A)	45 dB(A)
125	150 (22)	185 (33)	225 (49)	275 (74)
160	160 (18)	200 (29)	240 (41)	290 (61)
200	180 (16)	220 (25)	275 (38)	330 (55)
250	270 (15)	325 (22)	400 (34)	500 (53)
315	430 (12)	525 (18)	650 (28)	800 (42)



Simbology

X	Distance between diffuser axis and wall, in m.
B	Distance between diffuser axis, in m.
H	Room height, in m.
Q	Air flow per diffuser, in m ³ /h and in l/s
V_z	Air flow velocity in occupied area, in m/s
ΔP_t	Pressure drop, in Pa
L_{WA}	Sound power, in dB(A)

SELECTION GRAPHS

