

DFRE-GR



Catálogo Série 40.3



Fixed Blade Swirl diffuser

Product description

Fixed blade swirl diffuser with external coanda ring, KOOLAIR, model **DFRE-GR**, dimension __. Incorporates side connection plenum box made in galvanised steel sheet, with spigot inlet volume control damper.

Diffuser made in steel sheet and decorative ring in aluminum. Finished in any RAL colour upon request. Recommended installation height between 2.5 and 3.5 m and ideal for circular visible ducts.

Other models

DFRE-GR-Q. Swirl diffuser with external coanda ring, integrated in plate of 595x595 mm to be installed in false ceilings.

Mounting

PCDL-RE. Removable plenum box with side connection, internally non-insulated, made in galvanised steel sheet, with manual damper accessible from false ceiling.

PCDL-A-RE. Removable plenum box with side connection, internally insulated, made in galvanised steel sheet, with manual damper accessible from false ceiling.

PCDL-RL. Removable plenum box with side connection, internally non-insulated, made in galvanised steel sheet, with manual damper accessible from room.

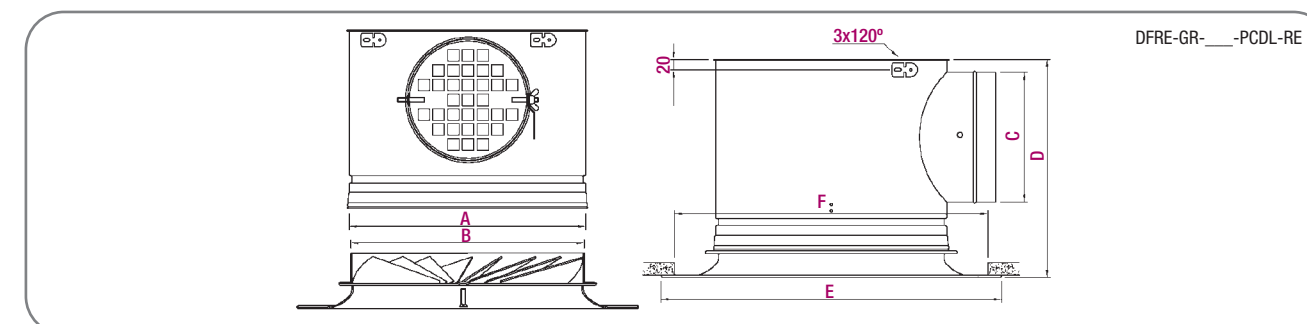
PCDL-A-RL. Removable plenum box with side connection, internally insulated, made in galvanised steel sheet, with manual damper accessible from room.

RPM. Damper equipped to allow motorization.

PM. Mounting bridge. To be used when installation is without a plenum.

Note: On request, top plenum available insulated/uninsulated (PDS-A-RE/PDS-RE).

General dimensions



Custom plenums available to suit reduced heights above false ceilings.

Model	A	B	C	D	E	F
100	113	99	99	197	175	150
125	138	124	99	197	200	175
160	173	159	124	222	253	228
200	213	199	159	257	303	278
250	263	249	199	297	353	328
315	328	314	249	347	418	393
355	368	354	249	347	458	433
400	413	399	314	412	503	478
500	513	499	314	412	603	578

Unit mm

Selection table

Size	Q (m³/h)	L _{wA} [dB(A)]	ΔP _t (Pa)	X (m)
100	45	24	21	0,5
	65	32	45	0,7
	90	40	87	1,0
125	55	24	12	0,6
	85	32	28	0,9
	120	40	56	1,2
160	95	24	13	0,7
	135	32	27	1,0
	190	40	52	1,4
200	135	24	12	0,9
	190	32	23	1,3
	265	40	44	1,9
250	210	24	10	1,2
	310	32	24	1,6
	400	40	39	2,3
315	330	24	8	1,6
	460	32	16	2,2
	660	40	32	3,1
355	375	24	7	1,6
	530	32	14	2,3
	740	40	28	3,2
400	500	24	8	1,9
	680	32	14	2,5
	970	40	29	3,6
500	700	24	5	2,0
	980	32	10	2,8
	1370	40	20	4,0

LEGEND

Q (m³/h): Air flow.

L_{wp} [dB(A)]: Sound power level.

 ΔP_t (Pa): Total pressure loss.

X (m): Throw for a maximum velocity of 0.25 m/s at the occupied zone $\Delta T = -10^\circ\text{C}$ (cold), installed at 3 m of height.

Note: Technical data for diffuser without plenum box.