DAFC

Catalogue Series 40.3

Fixed curved blade Swirl diffuser

Product description

Swirl diffuser with fixed curved blades, KOOLAIR, model **DAFC**, size _ , plate dimensions of _x_.
Incorporates plenum box made of galvanised steel sheet with volume control damper.
Made in steel sheet. Finished in any RAL colour upon request.
Recommended installation height between 2.5 and 3.5 m.

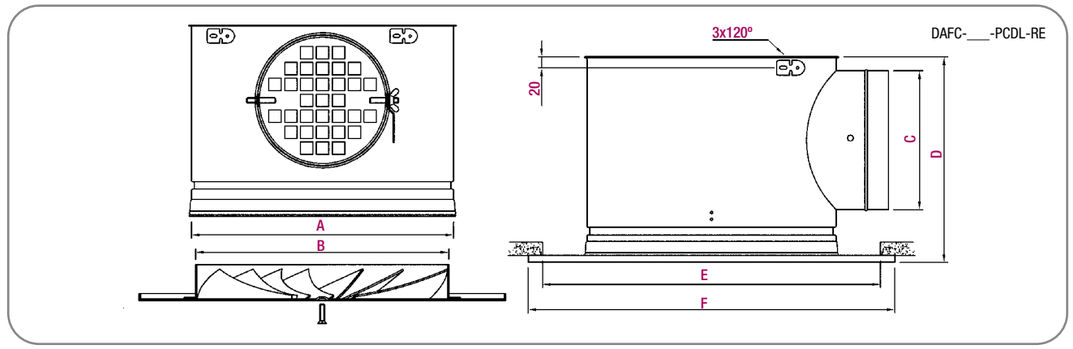
Other models

DAFC-Q. Swirl diffuser with fixed curve blades, integrated in plate of 595x595 mm, to be installed in false ceiling.
DAFC-C. Swirl diffuser with fixed curve blades, integrated in round plate.
DAFC-C-E. Swirl diffuser with fixed curve blades, integrated in round plate with flat edge for installation in plasterboard ceilings.
DAFC-E. Swirl diffuser with fixed curve blades, integrated in square plate to be installed in plaster ceiling.

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.

General dimensions



Custom plenums available to suit reduced heights above false ceilings.

Type	A	B	C	D	E	F
125	138	124	99	171	146	171
160	173	159	124	196	188	213
200	213	199	159	231	239	264
250	263	249	199	271	301	326
315	328	314	199	271	380	405
355	368	354	249	321	430	455
400	413	399	249	321	485	510
500	513	499	314	386	569	594

Unit mm

Selection table

Size	Q (m^3/h)	L_{wA} [dB(A)]	ΔP_t (Pa)	X (m)
125	40	24	11	0.5
	50	32	21	0.7
	70	40	38	0.9
160	50	24	9	0.6
	80	32	17	0.9
	100	40	32	1.2
200	80	24	7	0.8
	110	32	14	1.1
	160	40	27	1.6
250	110	24	5	1.0
	160	32	11	1.4
	230	40	21	1.9
315	190	24	8	1.3
	250	32	15	1.8
	340	40	27	2.4
355	220	24	7	1.4
	300	32	13	1.9
	410	40	24	2.6
400	250	24	6	1.4
	340	32	12	2.0
	470	40	22	2.7
500	350	24	6	1.7
	480	32	12	2.2
	650	40	22	3.0

LEGEND

Q (m^3/h): Air flow.
L_{wA} [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 $\Delta T = -10$ ºC (cold), installed at 3 m of height.