

DGV



Variable geometry diffuser

Product description

Variable-geometry diffuser, KOOLAIR, **DGV** round, constructed of steel. External ring in notched aluminium. The standard finish is RAL 9010 white paint. By special order, the diffuser can be painted in any RAL colour.

Other models

DGV-TR. Variable geometry diffuser autoregulated by thermal element.

DGV-M.MOT. Variable geometry diffuser with motorised mechanism.

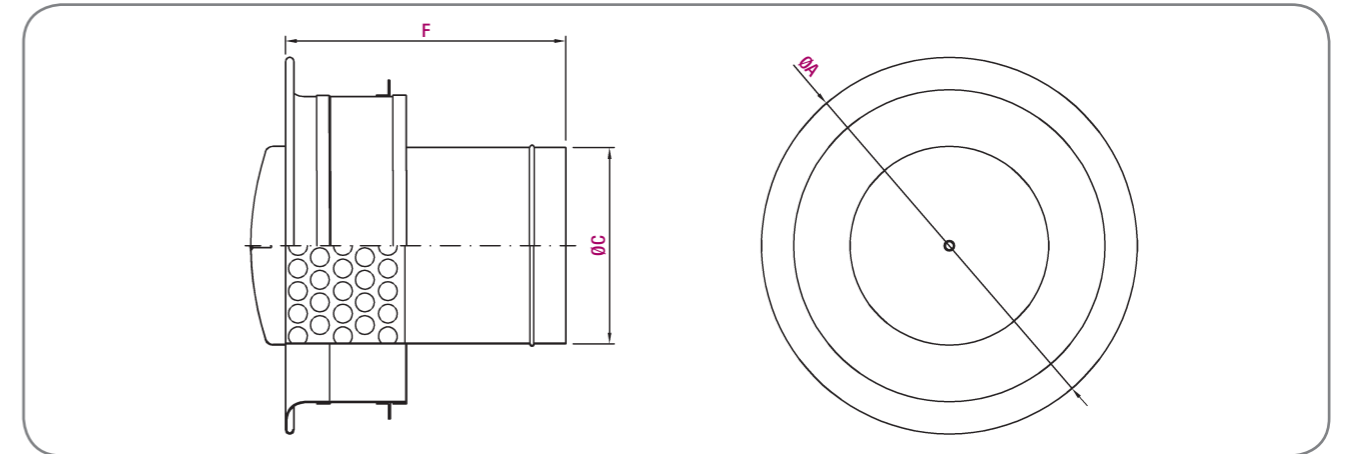
DGV-M.MAN. Variable geometry diffuser with handle control.

Mounting

P. Side entry plenum box with volumen control damper in the spigot connection.



General dimensions



Nominal	Ø A	Ø C	F
250	425	249	440
315	500	314	440
400	600	399	440
500	730	499	440
630	900	629	580

Unit mm

Selection table (Vertical discharge)

Size	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	Y (m)
250	578	35	28	6.3
	692	40	41	7.2
	829	45	58	8.1
315	724	35	19	6.6
	867	40	27	7.6
	1039	45	39	8.7
400	1162	40	21	7.6
	1391	45	30	8.8
	1666	50	43	10.2
500	1604	40	21	6.7
	1921	45	31	7.6
	2301	50	44	8.8
630	2339	40	22	8.4
	2802	45	32	9.8
	3356	50	46	11.4

Selection table (Horizontal discharge)

Size	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	X (m)
250	637	35	35	3.4
	763	40	49	4.1
	914	45	71	4.9
	1180	50	100	5.9
315	823	35	25	3.9
	985	40	36	4.7
	1180	45	51	5.6
	1500	50	71	6.7
400	1359	40	28	5.6
	1627	45	41	6.7
	1949	50	58	8.0
	2400	55	81	9.6
500	1921	40	31	6.7
	2301	45	44	8.0
	2756	50	64	9.6
	3300	55	89	11.4
630	2856	40	33	8.2
	3421	45	47	9.9
	4097	50	68	11.8
	4900	55	94	14.1

LEGEND

Q (m³/h): Air flow.

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

ΔP_t (Pa): Total pressure loss.

Y (m): Vertical penetration for a terminal air vein velocity of 0.20 m/s and ΔT = +10° C.

X (m): Throw for a maximum velocity of 0.25 m/s at the occupied zone, with ceiling effect.