

DCL



Catalogue Diffuser DCL



Circular diffuser

Product description

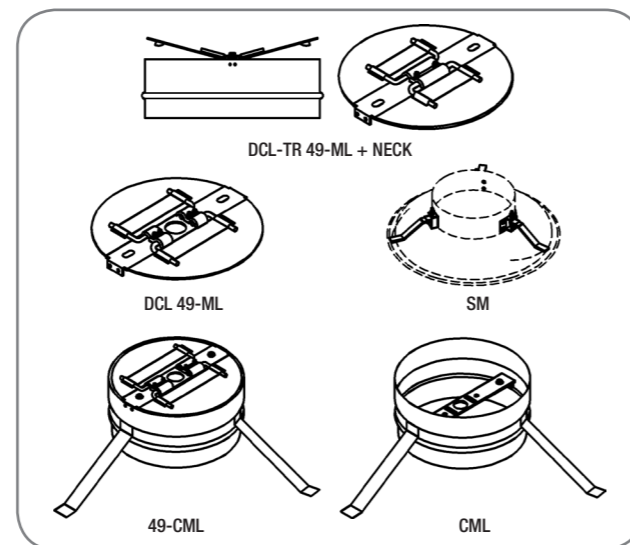
Circular diffuser, KOOLAIR, model **DCL**, size _ mm (neck's connection diameter). It can incorporate volume control damper and mounting neck. Finished in any RAL colour upon request. Recommended installation height between 2.5 and 5 m.

Mounting

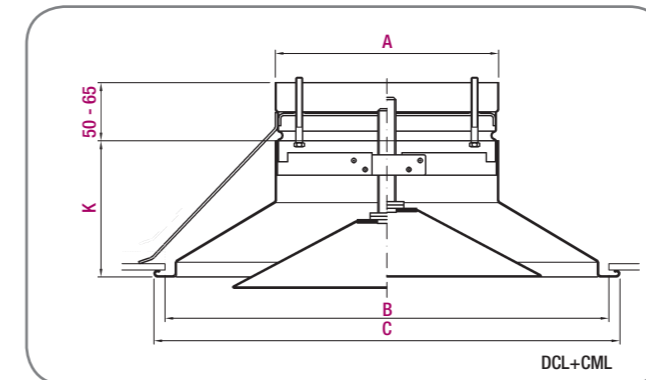
- SM.** Mounting system.
- 49CML.** Mounting neck with volume control damper.
- PCFS.** Top connection circular plenum in galvanized steel sheet. (-A. internally insulated).
- PCFL.** Lateral connection circular plenum in galvanized steel sheet. (-A. internally insulated).

Other models

- DCL-Q.** Circular diffuser integrated in a plate of 595x595, to be installed in a modular false ceiling (**till size Ø 315**).
- DCL-TR.** Thermo-adjustable circular diffuser.
- DCL-TR-Q.** Thermo-adjustable circular diffuser integrated in a plate of 595x595, to be installed in a modular false ceiling (**till size Ø 315**).



General dimensions



Opening	Ø A	Ø B	Ø C	K
125	124	252	272	90
160	159	286	316	90
200	199	385	415	121
250	249	468	498	123
315	314	566	606	142

Unit mm

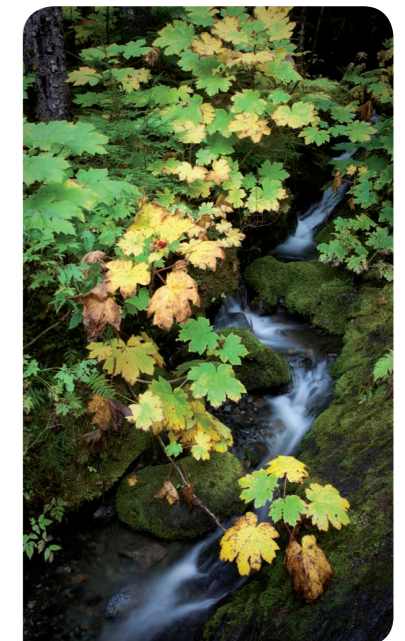
Selection table (Horizontal discharge)

Dimension	Q (m³/h)	L _{wa} [dB(A)]	ΔP _t (Pa)	X (m)
125	135	24	11	0,5
	180	32	18	0,7
	230	40	30	0,9
160	160	24	11	0,6
	230	32	20	0,9
	300	40	36	1,2
200	300	24	15	1,0
	390	32	23	1,3
	515	40	41	1,7
250	480	24	14	1,4
	600	32	24	1,7
	800	40	42	2,3
315	720	24	15	1,8
	860	32	23	2,2
	1150	40	40	2,9

Selection table (Vertical discharge *)

Dimension	Q (m³/h)	L _{wa} [dB(A)]	ΔP _t (Pa)	Y _{max} (m)
125	140	32	24	3,3
	185	40	41	4,3
	240	48	70	5,6
160	215	32	28	3,5
	280	40	48	4,5
	365	48	82	5,9
200	265	32	17	2,4
	360	40	31	3,2
	495	48	58	4,4
250	470	32	21	3,3
	625	40	37	4,3
	840	48	67	5,8
315	760	32	21	3,8
	1000	40	37	5,0
	1300	48	62	6,5

* Apply vertical discharge outlets for ceiling heights > 3 m or with exposed installations.



LEGEND

- Q (m³/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
- ΔT = -10 °C (cold), installed at a height of 3 m.
- Y_{max} (m): Maximum vertical penetration at ΔT = +10 °C (heating).