

44-SF-TR



Thermo-adjustable circular diffuser

Product description

Thermo-adjustable circular diffuser, height of central core regulated by a thermal element KOOLAIR, model **44-SF-TR**, size _ (neck's connection diameter).

Recommended installation height between 3.5 and 7m.

It can incorporate volume control damper (-49MM) and mounting accessories upon request.

Finished in anodised aluminium or any RAL colour upon request.

Other models

44-SF-TR-Q. Circular diffuser thermo-adjustable, integrated in a plate of 595x595, to be installed in a modular false ceiling (up to size Ø315).

Mounting

PM. Mounting bridge for sheet ducts.

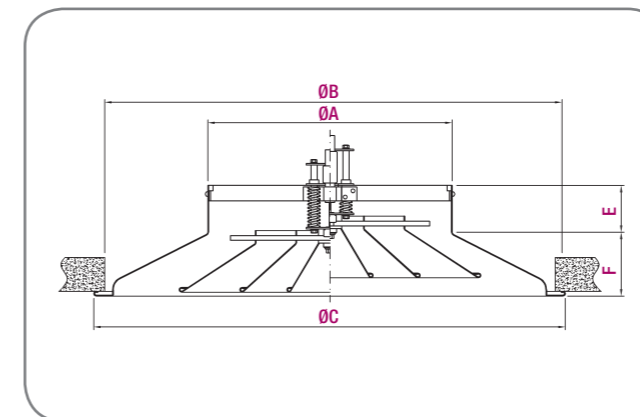
PMC. Mounting bridge for circular sheet ducts.

CMLTR. Mounting neck with flap damper.

PCS. Top connection circular plenum in galvanized steel sheet.

PCL. Lateral connection circular plenum in galvanized steel sheet.

General dimensions



Diffuser	Ø A	Ø B	Ø C	E	F
160	159	286	316	45	45
200	199	385	415	55	66,5
250	249	468	498	55	68
315	314	566	606	60	82
355	354	664	714	60	106

Unit mm

Selection table (Horizontal discharge)

Dimension	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	X (m)	V _k (m/s)
160	280	32	25	1.8	4.3
	350	40	39	2.3	5.4
	450	48	63	2.9	6.9
200	440	32	14	2.6	3.7
	570	40	24	3.4	4.8
	740	48	48	4.2	4.4
250	660	32	19	2.4	4.4
	870	40	32	3.1	5.7
	1130	48	55	4.1	7.5
315	1060	32	19	3.0	4.8
	1360	40	31	3.9	6.1
	1740	48	50	4.9	7.8
355	1230	32	17	3.4	4.4
	1630	40	29	4.4	5.8
	2150	48	51	5.9	7.7

Selection table (Vertical discharge)

Dimension	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	Y _{max} (m)	V _k (m/s)
160	240	32	22	3.24	5.2
	320	40	39	4.32	7.0
	420	48	66	5.66	9.1
200	301	32	15	2.33	3.4
	420	40	28	3.19	4.7
	580	48	52	4.41	6.5
250	540	32	18	3.14	4.3
	720	40	31	4.21	5.7
	670	48	56	5.64	7.6
315	870	32	18	3.64	4.8
	1140	40	30	4.78	6.3
	1500	48	52	6.28	8.3
355	900	32	16	3.26	4.1
	1300	40	27	4.28	5.4
	1700	48	47	5.60	7.0



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, with ceiling effect.
 V_k (m/s): Effective velocity.
 Y_{max} (m): Maximum vertical penetration at ΔT = +10 °C (heating).