

LK-70



Catalogue Series LK-70

Linear slot diffuser



Product description

Linear diffuser, highly aesthetic, for variable or constant airflow with adjustable directional blades by a wheel mechanism, KOOLAIR, model **LK-70**, of _ mm long and _ slots. Slot width of 15 mm and narrow exterior frames. Incorporates side connection plenum box made in sheet steel, with volume control damper at the entry of it accessible from the room. Frames made in extruded aluminium and deflection blades in aluminium. Finished in anodised aluminium or painted in RAL colour upon request. Recommended installation height between 2.5 and 4 m.

Note: Possible to form continuous lines (Maximum length per section 2000 mm).

On request, top plenum available insulated/ uninsulated (PFS-A/PFS / PDS-A/PDS).

Selection table

(Flow rate per linear metre of diffuser)

No. of ways	Dimension	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	X (m)	V _k (m/s)
1	1000	66	24	7	2.7	2.0
		96	32	14	3.9	2.9
		138	40	29	5.6	4.2
2	1000	110	24	5	3.1	1.7
		158	32	10	4.5	2.4
		227	40	20	6.5	3.4
3	1000	176	24	5	4.1	1.8
		248	32	10	5.8	2.5
		350	40	21	8.2	3.5
4	1000	214	24	4	4.3	1.6
		302	32	9	6.1	2.3
		427	40	17	8.6	3.3

The Selection Table shows a summary of dimensions. Other sizes available. Consult the Sales Department.

Mounting

PFL-RL. Fixed side connection plenum box, without internal insulation made in galvanised sheet steel.

PFL-A-RL. Fixed side connection plenum box, internally insulated made in galvanised sheet steel.

PDL-RL. Removable, by bridges, side connection plenum box, without insulation and made in galvanised sheet steel.

PDL-A-RL. Removable, by bridges, side connection plenum box, internally insulated and made in galvanised sheet steel.

PM. With mounting bridge.

Other models

LK-70-S. Slot diffuser, narrow outer section (12 mm).

LK-70-MULTI. Linear slot diffuser with possibility of changing the vein of air each 100 mm.

LEGEND

Q (m³/h): Air flow.

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

ΔP_t (Pa): Total pressure loss.

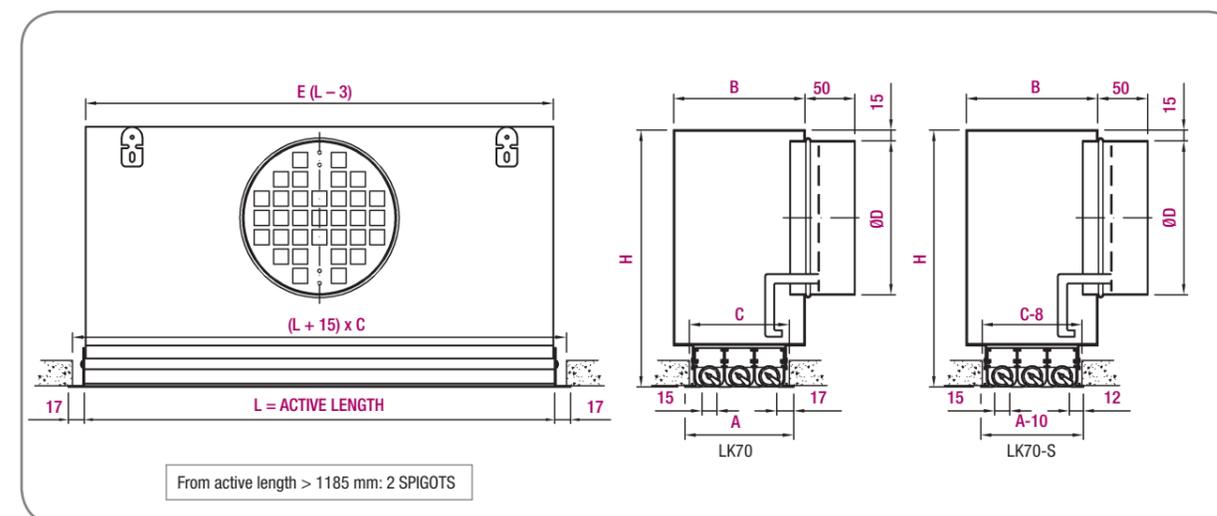
X (m): Throw for a maximum velocity of 0.25 m/s at the occupied zone

ΔT = 0 °C (isothermal conditions),

installed at a height of 3m.

V_k (m/s): Effective velocity.

General dimensions



Custom plenums available to suit reduced heights above false ceilings.

N° of Slots	L	E	Ø D	N° of Spigots	A	B	C	H
1	600	597	124	1	49	72	41	225
	900	897	124					
	1000	997	124					
	1200	1197	124	2				
	1500	1497	124					
	1800	1797	124					
2	600	597	159	1	79	102	71	275
	900	897	159					
	1000	997	159					
	1200	1197	159	2				
	1500	1497	159					
	1800	1797	159					
3	600	597	199	1	109	132	101	325
	900	897	199					
	1000	997	199					
	1200	1197	199	2				
	1500	1497	199					
	1800	1797	199					
4	600	597	199	1	139	162	131	325
	900	897	199					
	1000	997	199					
	1200	1197	199	2				
	1500	1497	199					
	1800	1797	199					
2000	1997	199						

Unit mm