



Linear slot diffuser



Product description

High capacity linear ceiling diffuser, for variable or constant air flow, with adjustable vanes to change the direction of the air, with thermal element that closes when the air temperature is over 70° C, KOOLAIR, model **KFD**, _ mm long and _ slots. Incorporates side connection plenum box made in sheet steel, with volume control damper at the entry of it. Frames made in extruded aluminium and deflection blades made in aluminium. Finished in anodised aluminium or painted in RAL colour upon request.

Recommended installation height between 2.5 and 4 m.

Other models

KFD-PLATE LxH. Linear diffuser integrated in plate of dimensions LxH, to be installed in false ceiling.

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

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

Mounting

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

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

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

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

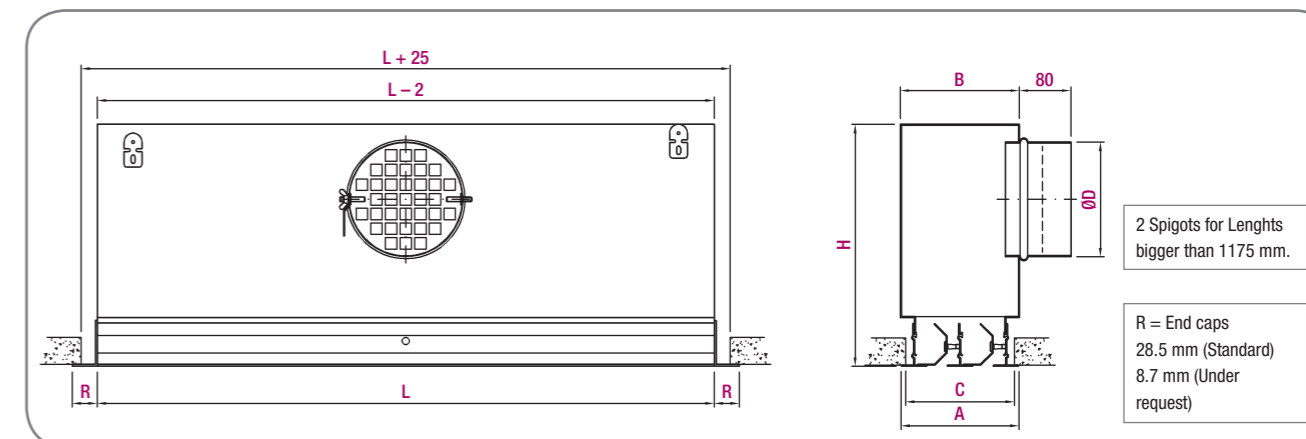
PBL-RE. Removable, by screws, side connection plenum box, without insulation and made in galvanised sheet steel.

PBL-A-RE. Removable, by screws, side connection plenum box, internally insulated and made in galvanised sheet steel.

PM. Mounting bridge.

Note: Connection plenum box can be equipped with VCD on the spigot accessible from the room, available upon request.

General dimensions



Custom plenums available to suit reduced heights above false ceilings.

N° of Slots	A	B	C	Ø D	H
1	80	83	70	159	275
2	130	134	121	199	330
3	181	185	171	249	330
4	232	236	222	249	330

Unit mm

Selection table

(Flow rate per linear metre of diffuser)

N° of Slots	Dimension	Q (m³/h)	L _{wa} [dB(A)]	ΔP _t (Pa)	X (m)	V _k (m/s)
1	1000	100	24	4	2.1	2.9
		150	32	9	3.2	4.4
		230	40	20	4.8	6.6
2	1000	180	24	3	2.6	2.6
		260	32	7	3.9	3.8
		400	40	16	5.9	5.8
3	1000	240	24	3	3	2.4
		370	32	6	4.5	3.6
		530	40	13	6.7	5.3
4	1000	310	24	3	3.2	2.2
		450	32	5	4.9	3.4
		640	40	12	7.3	5.1

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

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 3 m.
V_k (m/s): Effective velocity.

