

# DF-LIT-E-3.0



## Invisible linear slot diffuser

### Product description

Invisible linear slot diffuser with good aesthetic, KOOLAIR, model **DF-LIT-E-3.0**, length  $\_$  mm and slot  $\_$  mm for air passage. It is characterized by the absence of visible profiles. With an adjustable blade that allows both vertical and horizontal discharge. Incorporates side plenum box with manual control damper accessible from room. Finished in aluminium painted in matt black (RAL 9005).

Recommended installation height between 2.5 and 4 m.

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

### Other models

**DF-LIT-E-3.0-CURVED.** Curved hidden linear slot diffuser (15, 20, 33, 40, 50 mm), with a determined bend radius (minimum 1 m) Maximum length per section 2000 mm. If a plenum with a lateral connection is fitted, indicate whether the plenum box should be convex or concave.

**CROSS-DF-LIT-E-3.0.** Decorative invisible linear diffuser in the shape of a cross at 90° devised to form a continuous line with other active or decorative sections.

**T-DF-LIT-E-3.0.** Decorative invisible linear diffuser in the shape of a "T" at 90° devised to form a continuous line with other active or decorative sections.

**MITRED-CORNER-DF-LIT-E-3.0.** Decorative invisible linear diffuser in the shape of an elbow at 90° devised to form a continuous line with other active or decorative sections. Minimum dimension 400x400mm.

**DF-LIT-E-3.0-R.** Hidden linear slot diffuser (15, 20, 33, 40, 50 mm). Intended for return air with high flow capacity. Top or Side entry plenum box completely insulated to avoid vision through the diffuser Top or Side entry plenum box completely insulated to avoid vision through the diffuser. With no directional air blade and no perforated plate.

**DF-LIT-E-3.0-R-PR.** Hidden linear slot diffuser (15, 20, 33, 40, 50 mm). Intended for return air with high flow capacity and no directional air blade. With perforated sheet painted black on the inside of the unit. Intended for return air in false ceilings.

### Mounting

**PFL-RL.** With fixed uninsulated plenum lateral connection. With damper.

**PFL-A-RL.** With fixed insulated plenum lateral connection. With damper.

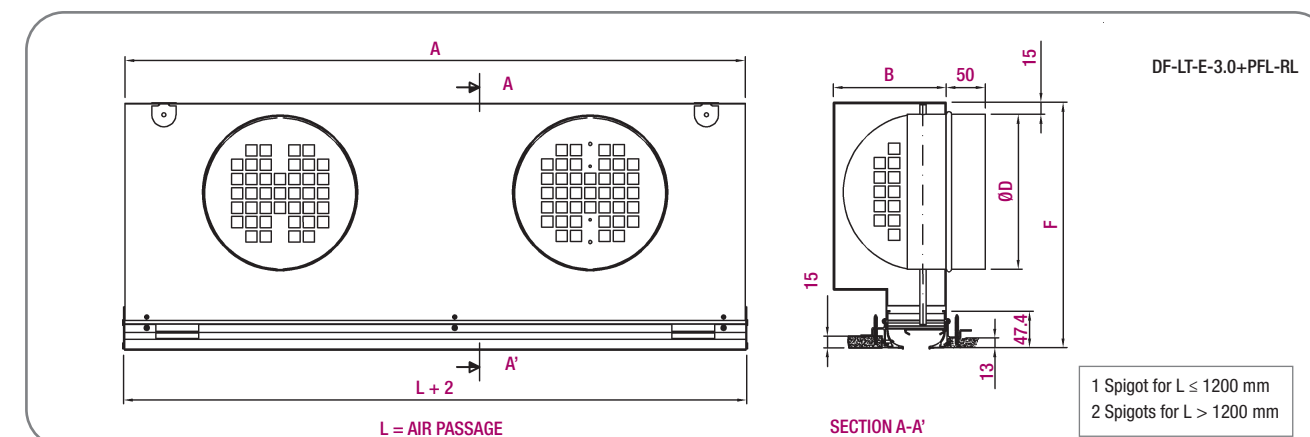
**ESD.** Supports for hanging diffuser.

**RFS06.** Sliding damper used without plenum. Incorporates mounting brackets in order to hold the diffuser from the ceiling.

*Note: On request, top plenum available insulated/ uninsulated (PFS-A/PFS).*

# KOOLAIR

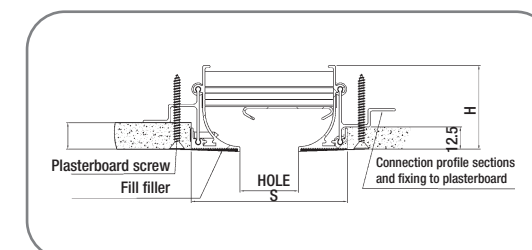
## General dimensions



Custom plenums available to suit reduced heights above false ceilings.

HOLE	NOMINAL	L	A	B	Ø D	F	No. INLETS
15	600	600	598	127	125	240	1
	1000	1000	998				
	1200	1200	1198				2
	1500	1500	1498				
	1800	1800	1798				
20	2000	2000	1998	132	160	275	1
	600	600	598				
	1000	1000	998				2
	1200	1200	1198				
	1500	1500	1498				
33	1800	1800	1798	145	160	275	1
	2000	2000	1998				
	600	600	598				2
	1000	1000	998				
	1200	1200	1198				
40	1500	1500	1498	152	200	315	1
	1800	1800	1798				
	2000	2000	1998				2
	600	600	598				
	1000	1000	998				
50	1200	1200	1198	162	200	315	1
	1500	1500	1498				
	1800	1800	1798				2
	2000	2000	1998				
	600	600	598				

Unit mm



HOLE	S	H
15	70,5	47,4
20	75,5	47,4
33	88,5	47,4
40	99,5	47,4
50	105,5	47,4

Unit mm

## Selection table

(Flow rate per linear metre of diffuser)

Slots width	Dimension	Q (m³/h)	L <sub>WA</sub> [dB(A)]	ΔP <sub>t</sub> (Pa)	X (m)	V <sub>k</sub> (m/s)
15	1000	85	24	7	2,2	2,3
		120	32	15	3,0	3,3
		165	40	29	4,1	4,6
20	1000	115	24	8	2,4	2,1
		165	32	17	3,4	3,1
		225	40	31	4,7	4,2
33	1000	170	24	12	2,7	1,9
		240	32	23	3,8	2,7
		335	40	45	5,2	3,7
40	1000	195	24	8	2,8	1,9
		270	32	15	3,9	2,6
		375	40	30	5,5	3,6
50	1000	230	24	7	3,0	2,0
		315	32	14	4,2	2,7
		450	40	28	5,9	3,6

### LEGEND

Q (m³/h): Air flow.  
L<sub>WA</sub> [dB(A)]: Sound power level.  
ΔP<sub>t</sub> (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 2.8 m of height.  
V<sub>k</sub> (m/s): Effective velocity.

The Selection Table shows a summary of dimensions. Other sizes available. Consult the Sales Department.  
Equivalent technical data for model DF-LIT-E-3.0 -CURVED