

DF-KLT



Hidden linear diffuser integrated in plate



Product description

KOOLAIR double hidden linear diffuser integrated in 1199x299 mm rectangular plate with adjustable deflector blades, model **DF-KLT**, with _ air passage slot. Characterised by the lack of profile on show. Each diffuser has an adjustable blade to discharge air horizontally and vertically with multiple combinations possible. Incorporates a lateral connection plenum complete with regulating damper in the inlet spigot. Diffusers manufactured from aluminium profiles painted matt black (RAL 9005) and sheet steel plate painted in RAL colour of choice. Recommended installation height between 2.5 and 4 m.

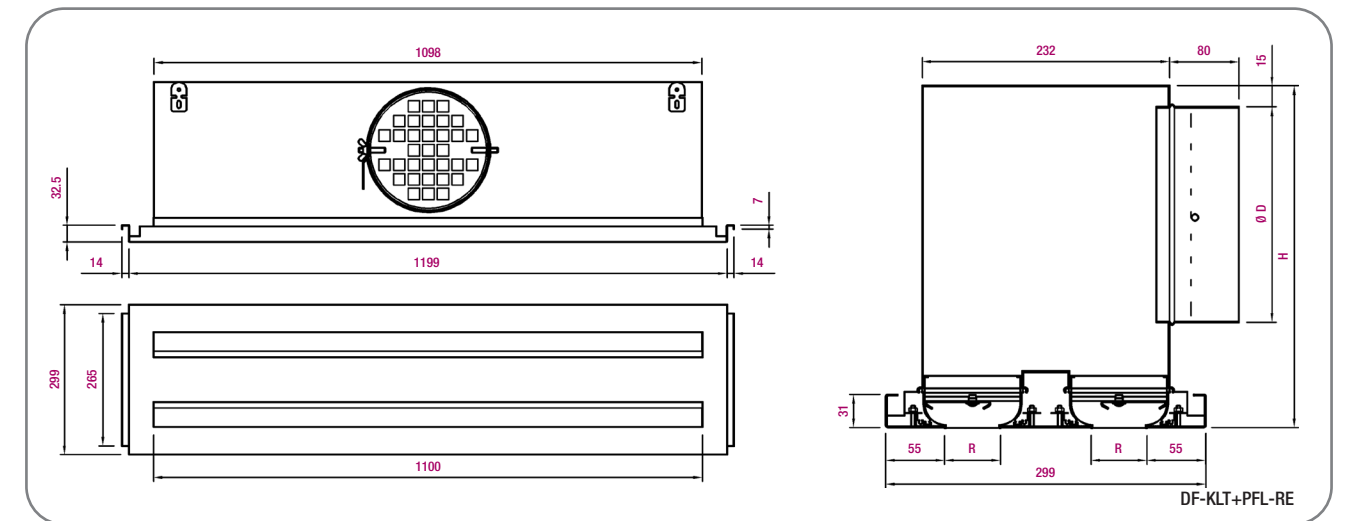
Other models

DF-KLT-E. Linear diffuser integrated in 1227x327 plate for suspended drywall ceilings.

Mounting

PFL-RE. Side connection plenum box without internal insulation, made in galvanised sheet steel.
PFL-A-RE. Side connection plenum box internally insulated, made in galvanised sheet steel.
PFS-RE. Top connection plenum box, without internal insulation, made in galvanised sheet steel.
PFS-A-RE. Top connection plenum box, internally insulated, made in galvanised sheet steel.

General dimensions



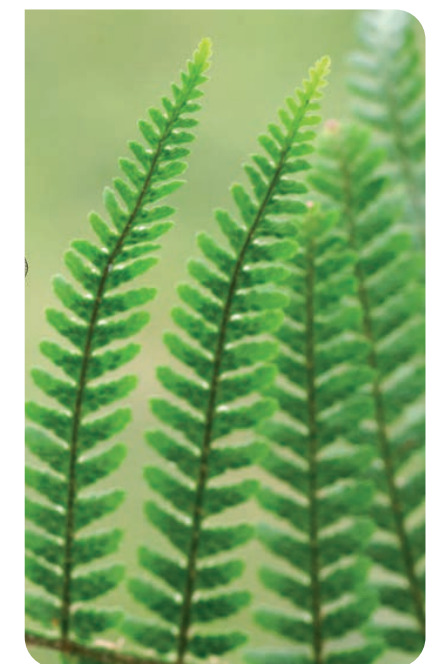
Custom plenums available to suit reduced heights above false ceilings.
 Possibility of manufacturing plates with custom dimensions and ceiling profiles.

Size	Ø D	H
15	159	230
20	199	270
33	249	320
40	249	320
50	314 (oval)	320

Unit mm

Selection table

Size	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	X (m)	V _k (m/s)
15	160	24	6	2,0	2,0
	220	32	10	2,7	2,8
	330	40	22	3,9	4,0
20	210	24	10	2,1	1,8
	300	32	11	3,0	2,5
	420	40	22	4,2	3,5
33	320	24	8	2,4	1,6
	460	32	17	3,5	2,3
	620	40	32	4,7	3,1
40	360	24	6	2,5	1,6
	520	32	12	3,6	2,3
	700	40	21	4,9	3,0
50	440	24	6	2,8	1,7
	600	32	11	3,8	2,3
	800	40	19	5,0	3,1



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 2.8 m.
 V_k (m/s): Velocidad efectiva.