

DLD - Rectangular straight

Project: Oro išmetimas
Customer: MTR Patalpa

02-09-2021



Requirements:

Air volume	qv	800 m ³ /h
Width		400 mm
Height		300 mm
Length		900 mm

Results:

Face velocity	v	1.9 m/s
Total pressure loss	Δp_t	65 Pa

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DLD has a conventional design with dimensions that not exceed the corresponding connection dimensions. The attenuator can be manufactured in all standard duct sizes.

Design

DLD has an outer sheet casing of trapezoidal corrugated sheet metal for stability and reduced risk of natural oscillation.

DLD is designed for low air resistance with baffle combinations that attenuate particularly low-frequency noise well.

The type of insulation material has been developed to provide good noise properties, low weight and to be cleanable.

DLD meets the requirements of air tightness class C and pressure class 2 according to EN 1507:2006.

DLD is equipped with joining profile type RJFP or LS.

Tools for dimensioning and planning

The software lindQST, DIMsilencer and Cadvent offer features for dimensioning and selection of products in an environment with 3D modelling. Computerised planning can be conducted with automatic presentation of noise levels, pressure drop etc.

Tested according to ISO 7235 standard.

Order code

DLD-400-300-900-1012

System

Extract

Hz	63	125	250	500	1K	2K	4K	8K	Sum	Sum
Lwi	93	77	80	74	73	73	66	63	79	79
ΔL	7	15	25	33	39	31	24	18		
Lw	38	31	25	22	18	13	7	0	24	18
Lwo	86	62	55	41	34	42	42	45	60	64
	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	NR