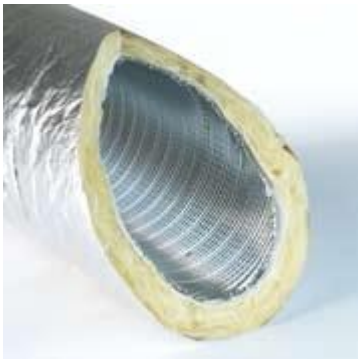
CONNECTDEC Type AKUDEC

SEMI FLEXIBLE SOUND ATTENUATORS

The **CONNECTDEC TYPE AKUDEC** semi flexible sound attenuator consists of a corrugated perforated aluminium innerduct and provided with an aluminium/polyester laminated outer jacket. The space between the inner and outer duct is filled with 25mm sound absorbing material. The duct is standard fitted with galvanized metal sleeves at both ends to fit to any rigid ductwork or appliance instantly. Choice between: (Fit according to EN1506)

Type 1) Male – Male Type 2) Male – Female Type 3) Female – Female

*Article code: AKU(1,2,or3){Ø}/Length e.g. AKU3100/1,0 (type 3 Ø100mm**)***



THE SOLUTION to over bridge inaccuracy in measurements.
Saves installation time and material

APPLICATIONS

- Female can be combined immediately with our air valves (e.g. Rondo, DAV or DVSC)
- Air supply systems
- Air conditioning systems
- Insertion loss damper
- Sound attenuator
- Decreasing sound of machines

SPECIFICATIONS

Article code:	AKU(1,2,3){Ø}/L
Temperature range:	
Inner duct:	-30 ºC to 250 ºC
Outer jacket	-30 ºC to 140 ºC
Operating pressure:	up to +2000 Pa
Operating air velocity:	max. 10 m/s
Min. bending radius:	1 x Ø + 25mm
Standard diameter range:	80 – 315 mm
Standard length:	0,5+1,0 mtr

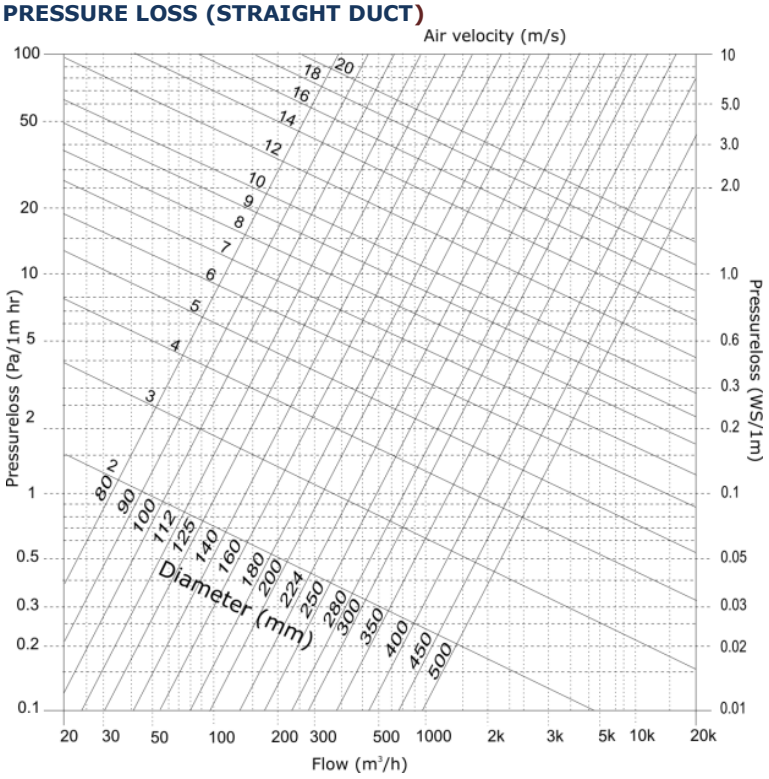
CONSTRUCTION

Inner duct:	Aluminium
Barrier	Nonwoven cloth
Glass wool blanket:	25mm, 16kg/m³
Outer jacket:	Alu/poly laminate
R-value glass wool:	0.65 m² K/W (ASTM C177-76)
Appearance:	aluminium

CLASSIFICATIONS

EU (EN 13501-1):	
Innerduct:	A1
OuterJacket:	B-s1,d0

PRESSURE LOSS (STRAIGHT DUCT)



The **CONNECTDEC TYPE AKUDEC** fulfills all the requirements and are classified as specified within EN 13180: *Ventilation for buildings – Ductwork - Dimensions and mechanical requirements for flexible ducts.*

The **CONNECTDEC TYPE AKUDEC** is also available, on request, with a 50 mm glass wool layer, the article number is: AKU(1,2,3)5{Ø}
R-value glass wool: 1.3 (50 mm) m² K/W (ASTM C177-76).

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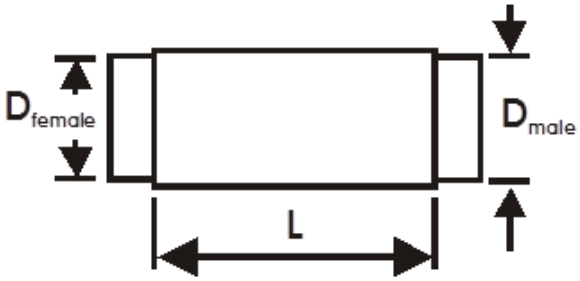
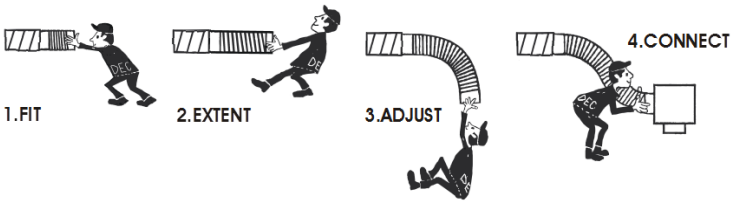
DIMENSIONS
Metal sleeves

According to EN-1506			
D_{nom} (mm)	**D_{female} (mm)**	**D_{male} (mm)**	**Tol.**
080	80.5	79.3	+0 ; -0.5
100	100.5	99.3	+0 ; -0.5
125	125.5	124.3	+0 ; -0.5
150	150.6	149.3	+0 ; -0.6
160	160.6	159.3	+0 ; -0.6
180	180.6	179.3	+0 ; -0.6
200	200.7	199.3	+0 ; -0.7
250	250.8	249.3	+0 ; -0.8
315	315.9	314.3	+0 ; -0.9



HOW TO INSTALL:



SOUND ATTENUATION
According: **ISO 7235**

AKUDEC 25mm (Test report nr. A1672-1 Peutz bv - The Netherlands)

Dn (mm)	L (m)	Attenuation, dB - Mid-frequency, Hz								D_i (dB)
		63	125	250	500	1000	2000	4000	8000	
080	0.5	11.2	13.3	24.1	29.7	27.2	33.4	32.9	23.5	30
100	0.5	11.9	11.4	22.6	26.8	22.1	29.2	25.8	16.7	26
125	0.5	6.3	7.1	15.2	19.9	20.3	26.1	17.1	12.9	22
150	0.5	8.3	9.3	17.8	19.4	16.7	25.0	19.8	13.8	21
160	0.5	10.2	11.3	21.5	17.9	15.5	22.6	15.7	12.1	19
180	0.5	4.7	5.6	9.0	14.6	18.1	17.0	7.9	7.8	
200	0.5	9.2	10	17.3	14.3	12.9	15.8	12.0	8.2	14
250	0.5	10.2	9.8	14.6	11.7	10.8	14.3	8.0	7.1	12
315	0.5	9.2	11.4	12.0	9.4	8.3	8.0	4.7	5.3	8
Dn (mm)	**L (m)**	**Attenuation, dB - Mid-frequency, Hz**								**D_i (dB)**
		63	**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**	
080	1.0	13.8	20.2	39.3	38.6	36	41.8	52.4	40.2	39
100	1.0	9.5	14.5	28.6	37.4	35.6	39.8	44.3	29.5	36
125	1.0	12.4	20.1	33.6	29.8	29.5	33.6	32.1	23.6	32
150	1.0	11.1	11.8	34.2	28.5	26.3	34.9	27.2	21.8	30
160	1.0	14.6	19.1	31.1	27.0	24.7	32.5	24.0	18.7	29
180	1.0	6.9	11.0	16.3	29.4	27.5	29.3	14.5	13.8	
200	1.0	11.1	14.6	29.5	20.7	21.0	30.0	17.7	13.2	23
250	1.0	14.2	21.7	23.1	18.9	18.4	25.7	11.4	10.1	20
315	1.0	10.8	21.9	17.9	15.5	17.7	16.7	9.2	9.3	17

D_i = Average attenuation