## **DEC INTERNATIONAL TECHNICAL SPECIFICATIONS**



# **CONNECTDEC** Type **AKUDEC PE2** SEMI FLEXIBLE SOUND ATTENUARORS



The CONNECTDEC TYPE AKUDEC PE2 semi flexible sound attenuator consists of a heavy 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 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)PE2{Ø}/Length e.g. AKU2PE2100/1,0 (type 2 Ø100mm)

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

### APPLICATIONS

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

### SPECIFICATIONS

Article code: Temperature range: Inner duct: Outer jacket Operating pressure: Operating air velocity: Min. bending radius: Standard diameter range: 80 - 315 mm Standard length:

## -30 °C to 250 °C -30 °C to 140 °C up to +2000 Pa max. 10 m/s 1 x Ø + 25mm 0,5+1,0 mtr

AKU(1,2,3)PE2{Ø}/L

### CONSTRUCTION

Appearance:

### **CLASSIFICATIONS**

| EU (EN 13501-1): |  |
|------------------|--|
| Innerduct:       |  |
| OuterJacket:     |  |

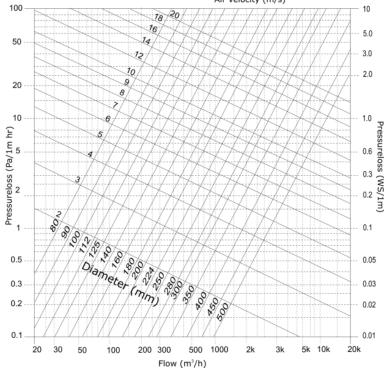
Aluminium PE40 25mm, 16kg/m<sup>3</sup>

Alu/poly laminate 0.65 m<sup>2</sup> K/W

(ASTM C177-76) aluminium

A1 B-s1,d0

### PRESSURE LOSS (STRAIGHT DUCT)



The CONNECTDEC TYPE AKUDEC PE2 fulfills all the requirements and are classified as specified within EN 13180: Ventilation for buildings – Ductwork - Dimensions and mechanical requirements for flexible ducts.

### LIABILITY:

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### TRADEMARKS:

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### RESTRICTIONS

The CONNECTDEC ducts are not suitable for discharging combustion products from open fireplaces and oilfired boilers. Neither are the ducts suitable for transporting air with a high concentration of acid and base.

## **DEC INTERNATIONAL TECHNICAL SPECIFICATIONS**

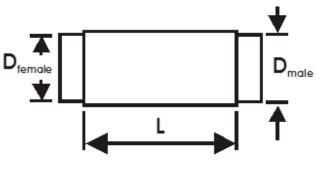




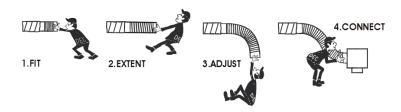
# **CONNECTDEC** Type **AKUDEC PE2** SEMI FLEXIBLE SOUND ATTENUARORS

DIMENSIONS **Metal sleeves** 

| According to EN-1506     |                             |                           |         |  |  |  |  |  |
|--------------------------|-----------------------------|---------------------------|---------|--|--|--|--|--|
| D <sub>nom</sub><br>(mm) | D <sub>female</sub><br>(mm) | D <sub>male</sub><br>(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

| AKUDEC 25mm (Test report nr. A1672-1 Peutz bv - The Netherlands) |     |                                     |                                     |      |      |      |      |      |      |      |
|--|-----|-------------------------------------|-------------------------------------|------|------|------|------|------|------|------|
| Dn   | L   |                                     | Attenuation, dB - Mid-frequency, Hz |      |      |      |      |      |      | Di   |
| (mm)   | (m) | 63                                  | 125                                 | 250  | 500  | 1000 | 2000 | 4000 | 8000 | (dB) |
| 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   | 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   |
| 200  | 0.5 | 9.2                                 | 10                                  | 17.3 | 14.3 | 12.9 | 15.8 | 12   | 8.2  | 14   |
| 250  | 0.5 | 10.2                                | 9.8                                 | 14.6 | 11.7 | 10.8 | 14.3 | 8    | 7.1  | 12   |
| 315  | 0.5 | 9.2                                 | 11.4                                | 12   | 9.4  | 8.3  | 8    | 4.7  | 5.3  | 8    |
| Dn   | Г   | Attenuation, dB - Mid-frequency, Hz |                                     |      |      |      |      |      | Di   |      |
| (mm)   | (m) | 63                                  | 125                                 | 250  | 500  | 1000 | 2000 | 4000 | 8000 | (dB) |
| 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   | 24.7 | 32.5 | 24   | 18.7 | 29   |
| 200  | 1.0 | 11.1                                | 14.6                                | 29.5 | 20.7 | 21   | 30   | 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   |
|  |     | 10.8                                | 21.9                                | 17.9 | 15.5 | 17.7 | 16.7 | 9.2  | 9.3  | 17   |

 $D_i$  = Average attenuation

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