Flexible hoses

Soler&Palau Ventilation Group

ALUFLEX® MI

Flexible Al laminate hose with a steel wire frame, spiral wound between two layers of multi-layer Al laminate.

Calculation of bending radius (mm):

R = 0.6 D [mm]

- low pressure
- ventilation, air conditioning
- standard length 10 m (compressed to 0.5 m in carton)
- diameter: 82–630 mm, thickness. 0.070 mm
- max. air velocity 30 m/s
- operating temperature -30 to +150 °C
- pressure drop at the end of the sub-chapter flexible hoses
- accessories in K 7.4
- economic version available ALUFLEX® Al (thickness 0.045 mm)

Diameter range [mm]																
82	102	127	152	160	185	203	229	254	305	315	356	406	457	508	560	630

ALUFLEX® MO

Highly durable flexible Al laminate hose with steel wire frame, spiral wound between two layers of multi-layer Al laminate.

Calculation of bending radius (mm):

R = 0.6 D [mm]

- medium and high pressure
- ventilation, air conditioning
- standard length 10 m (compressed to 0.5 m in carton)
- diameter 82–630 mm, thickness. 0.074 mm inner layer
- max. air velocity 30 m/s
- operating temperature -30 to +250 °C
- pressure drop at the end of the sub-chapter flexible hoses
- accessories in K 7.4

Diameter range [mm]																
82	102	127	152	160	185	203	229	254	305	315	356	406	457	508	560	630

ALUFLEX® HYGIENIC

Highly durable, flexible and microbially treated Al hose with steel wire frame, spiral wound between two layers of multi-layer AL laminate.

Calculation of bending radius (mm):

R = 0.6 D [mm]

- operating pressure 3000 Pa (max)
- ventilation, air conditioning
- standard length 10 m (compressed to 0.5 m in carton)
- diameter 82–508 mm
- max. air velocity 30 m/s

„Hygienic flexible hoses“ are designed for applications where environmental hygiene is demanding and regular inspection of air ducts is not possible. At the same time, their use is suitable for air distribution in conjunction with heat recovery units.

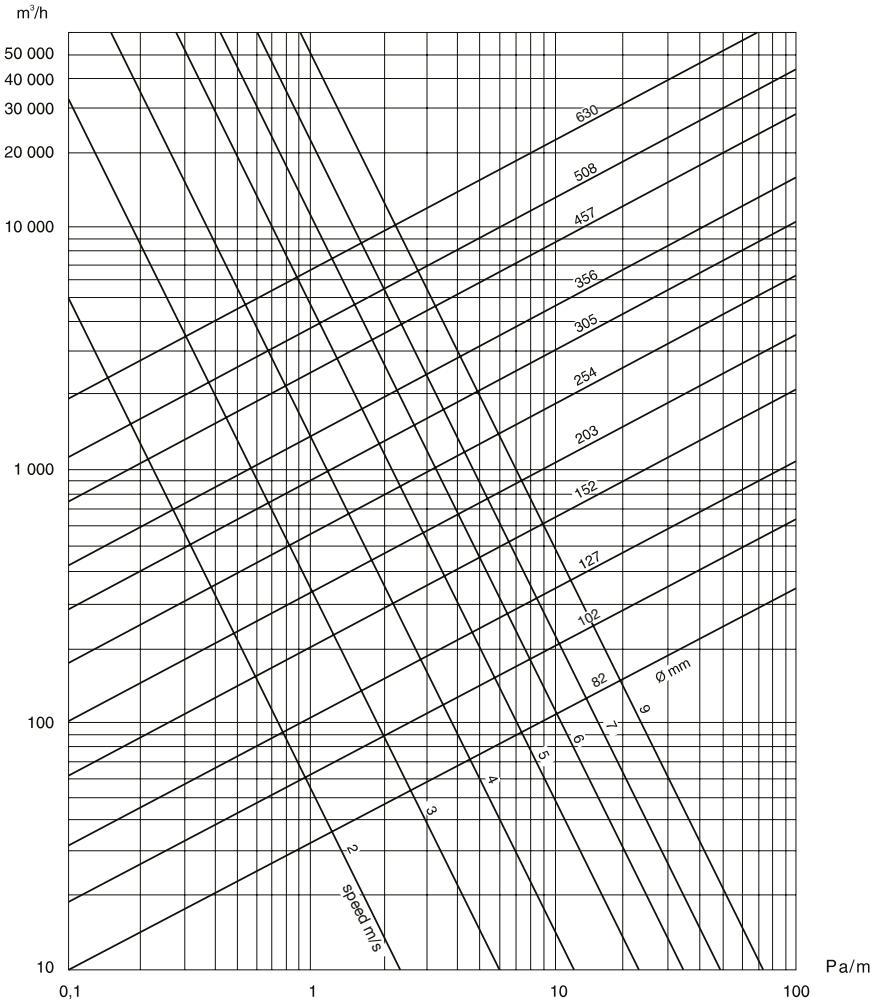
Description of the micro-organism problem

The existence of micro-organisms such as moulds and bacteria has been documented in the air ducts of ventilation systems. The humid and dark environment of air handling ducts is an ideal condition for their growth. Being in an environment where such air is supplied can lead to respiratory problems, infectious diseases or other allergic reactions and adverse effects on human health.

Principle of hose action on micro-organisms

Silver atoms on the inner surface break down water vapour into free radicals which destroy germs. As this is a catalytic process of killing bacteria, micro-organisms cannot build up immunity.

Diameter range [mm]														
82	112	127	152	160	185	203	229	254	305	315	356	406	457	508



Pressure losses of ALUFLEX®, KOMBIFLEX®, GREYFLEX® hoses, pressure losses are based on 1 m of hose, values are approximate, valid for stretched hose