



## FIXED CONES CIRCULAR DIFFUSERS

KU 4  
SERIES

### TECHNICAL CHARACTERISTICS

**OVERVIEW:** The KU4 series diffusers are designed for application of air conditioning, heating, and ventilation. These diffusers are made from a series of fixed cones and are used both in the supply and extraction of air.

This diffuser is equipped with an air tight gasket on the back. The standard installation height of the diffuser is between 2,6 and 4,1 meters.

**MATERIALS :** the KU4 series diffusers are made from aluminium. The surface finish foreseen an epoxy powder paint finish in silver RAL 9006 or white RAL 9003.

**INSTALLATION :** The diffuser is fixed by means of two screws to the fixing bridge or directly to the plenum or ceiling. The diffuser is supplied complete with the two screws and the fixing bridge.

**BUTTERFLY DAMPER :** The KU4 series diffusers are supplied complete with a butterfly regulation damper. The damper is made in black PVC and is easily adjustable through the diffuser.

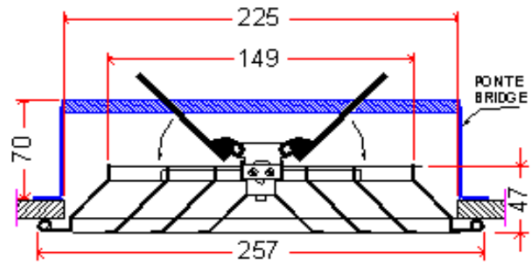
**CONNECTION PIECE :** The KU4 series diffusers can be supplied with connection piece KU 44 for connecting to the flexible duct.

The KU 44 connection pieces have base supports and a fixing bridge for the diffuser.

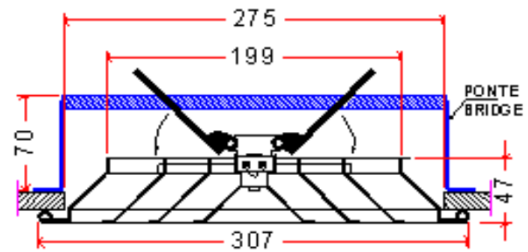
**DESCRIPTION FOR TENDER :** circular fixed cones aluminium diffuser painted RAL 9006 or RAL 9003 complete with regulation damper, fixing bridge and tightening screws; removable central part to allow for a correct installation.

**UNSUITABLE ENVIRONMENTS:** the aluminum products are not suitable for installation in environments with an atmosphere containing corrosive substances for this material and in particular containing chlorine, such as swimming pools, spas and some types of food industries.

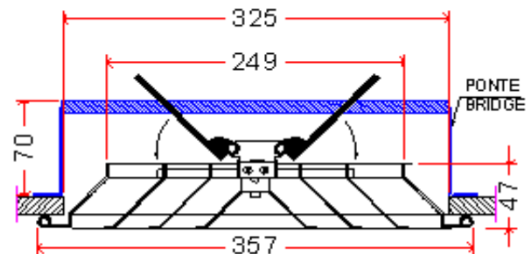
KU 4 - 150



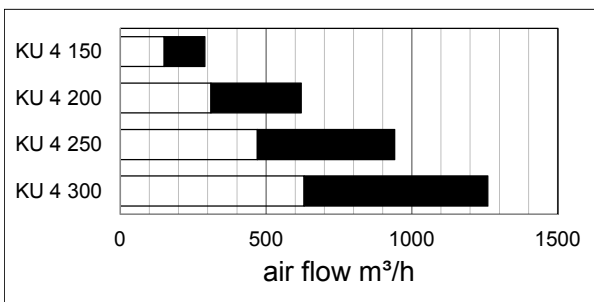
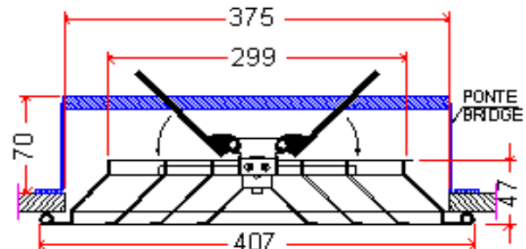
KU 4 - 200



KU 4 - 250



KU 4 - 300



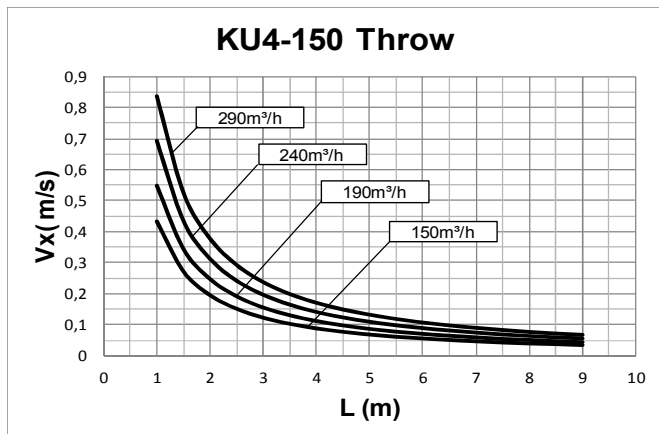
nominal neck diameter mm	Ak m <sup>2</sup>
150	0,0135
200	0,0285
250	0,0435
300	0,0585



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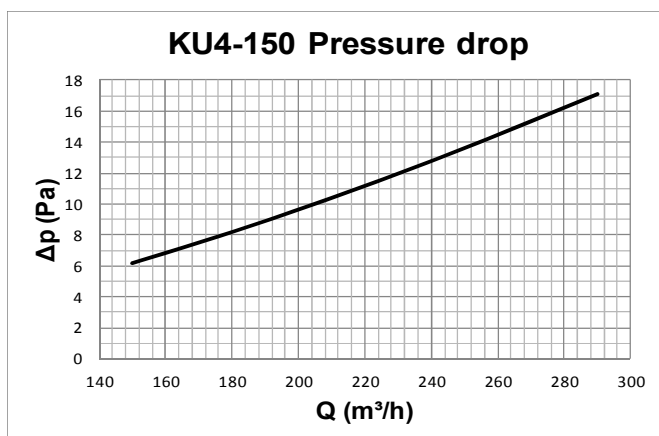
KU 4  
SERIES

PERFORMANCE KU4-150

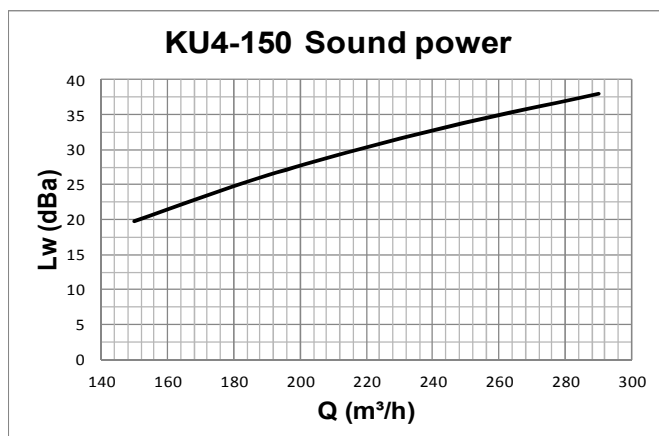


Data measured in isothermal conditions working according to international standard:  
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser  
Vx (m/s) maximum speed inside the air stream



Pressure drop measured in isothermal conditions working according to international standard:  
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*



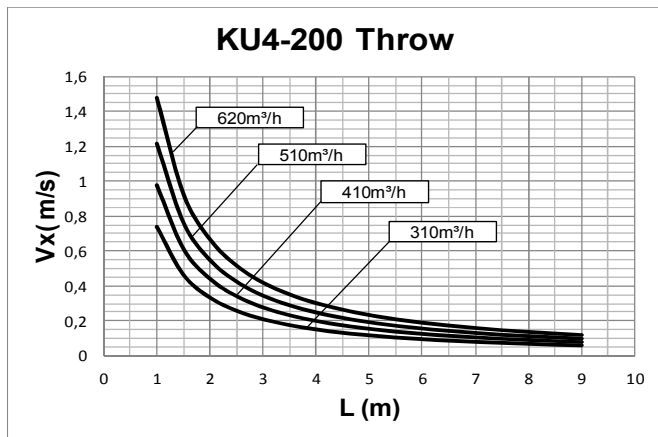
Acoustic data measured in reverberating room in accordance with international standards:  
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*  
ISO 5135 1997: *Acoustic - determination of sound power levels of noise from air-terminal devices; air terminal units; dampers and valves by measurement in a reverberation room.*  
The data shown do not consider the attenuation of the place of installation. Such attenuation is normally in the range of 6 to 10 dBa and is determined by the dimensions and shape of the space together with the furniture within it.



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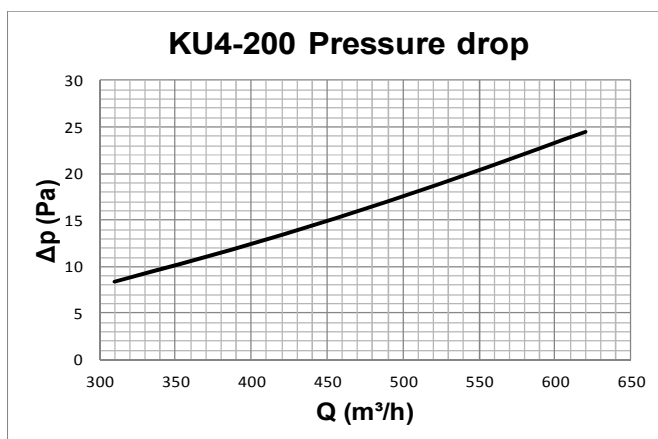
KU 4  
SERIES

PERFORMANCE KU4-200

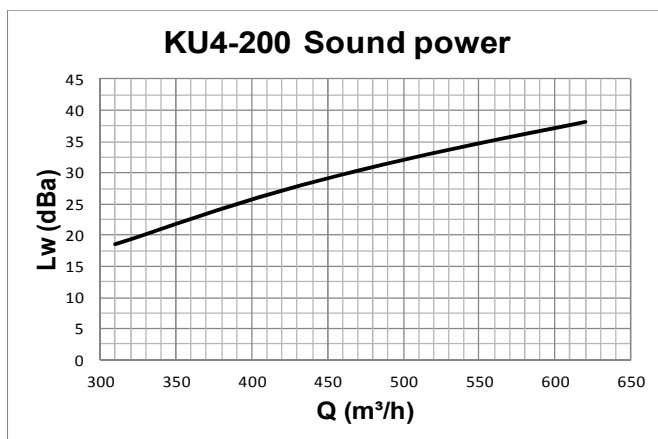


Data measured in isothermal conditions working according to international standard:  
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser  
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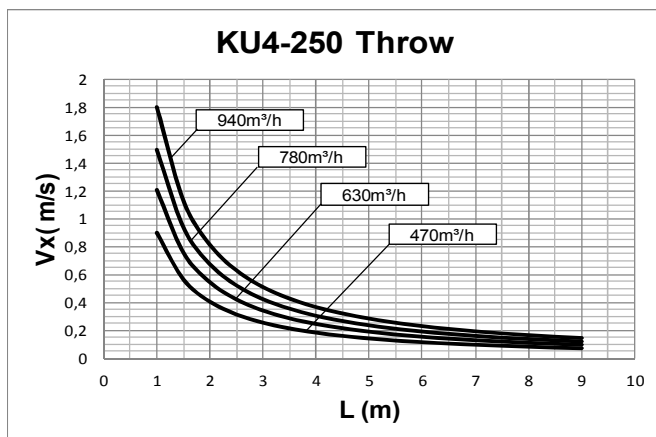
Acoustic data measured in reverberating room in accordance with international standards:  
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*  
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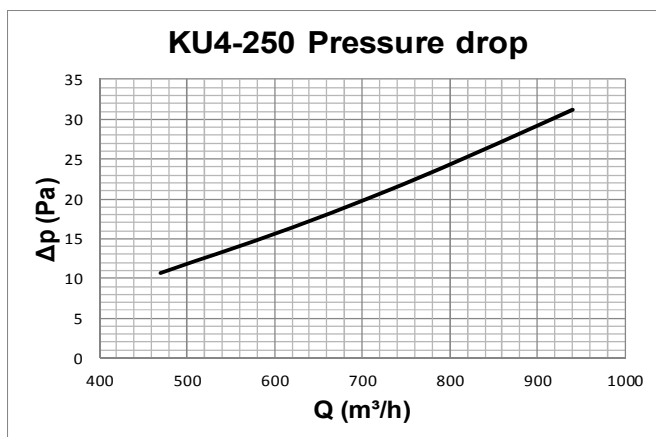
KU 4  
SERIES

PERFORMANCE KU4-250

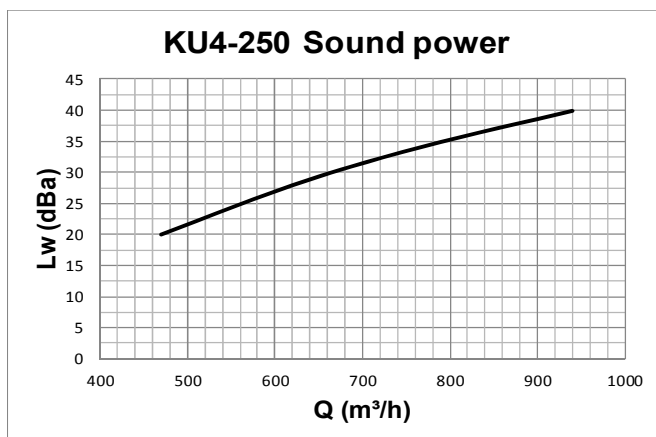


Data measured in isothermal conditions working according to international standard:  
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser  
Vx (m/s) maximum speed inside the air stream



Pressure drop measured in isothermal conditions working according to international standard:  
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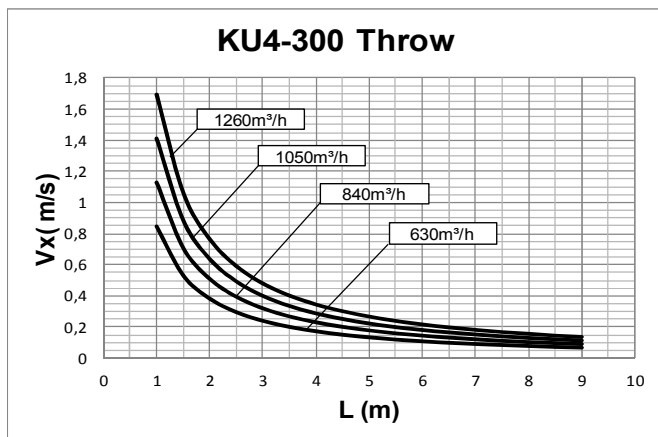
Acoustic data measured in reverberating room in accordance with international standards:  
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*  
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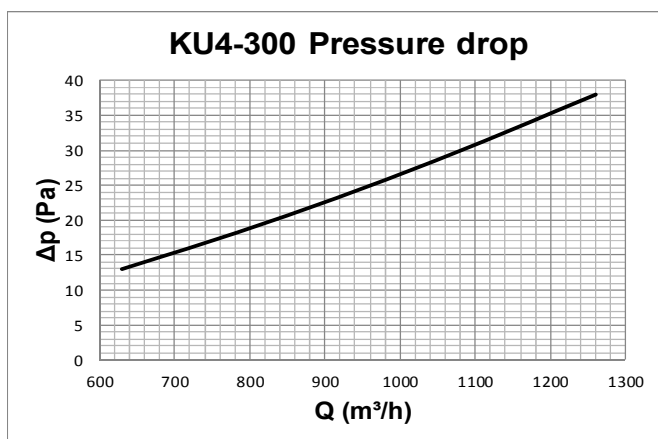
KU 4  
SERIES

PERFORMANCE KU4-300

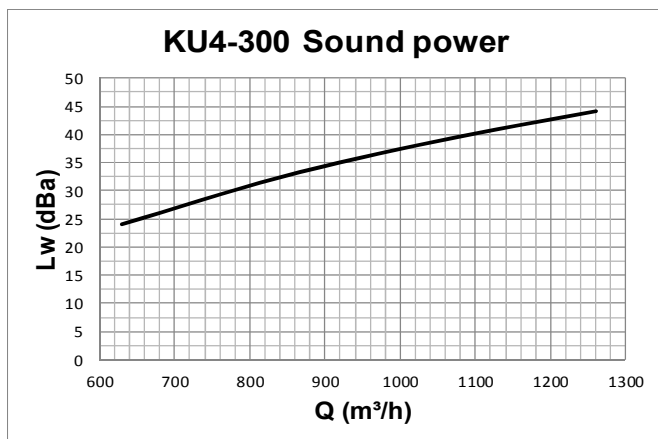


Data measured in isothermal conditions working according to international standard:  
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