



KH SERIES

OVERVIEW CHARACTERISTICS APPLICATIONS

OVERVIEW:

The KH series linear diffusers allow to manage high air flows with minimum pressure losses and generated noise power. They allow to fully make use of the induction principle, guaranteeing optimum comfort conditions, no noticeable air currents and temperature uniformity, even in large spaces by positioning the diffusers along the perimeter of the ceiling.

CHARACTERISTICS AND FUNCTION:

The KH series diffusers are constructed from an aluminium body housing the different exhaust slots each with a pair of deflector blades. The change of direction of the air throw can be easily made without removing the diffuser. The regulation of the air flow can be made by using a butterfly type damper in the plenum connection.

APPLICATIONS:

The KH diffusers are ideal in air ventilations applications with ceiling heights from 2,4 to 4 metres.

DIFFUSER INSTALLATION:

The KH diffusers are installed inside special plenums fixed on the sides with screws or by suspension by using mounting bridges.

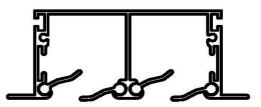
This second solution allows for a quick installation even after all the work has been completed in the building site. The wider shape of the plenum allows to contain the generated noise and the pressure losses connected to the expanding effect of the air.

FINISH:

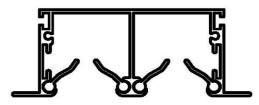
The KH diffusers are constructed from an aluminium or RAL 9010 painted body and deflector blades. Different finishes can be agreed on request.

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.



Horizontal throw configuration
The air flows along the ceiling
Guarantees the complete absence of air currents
both in heating and cooling.



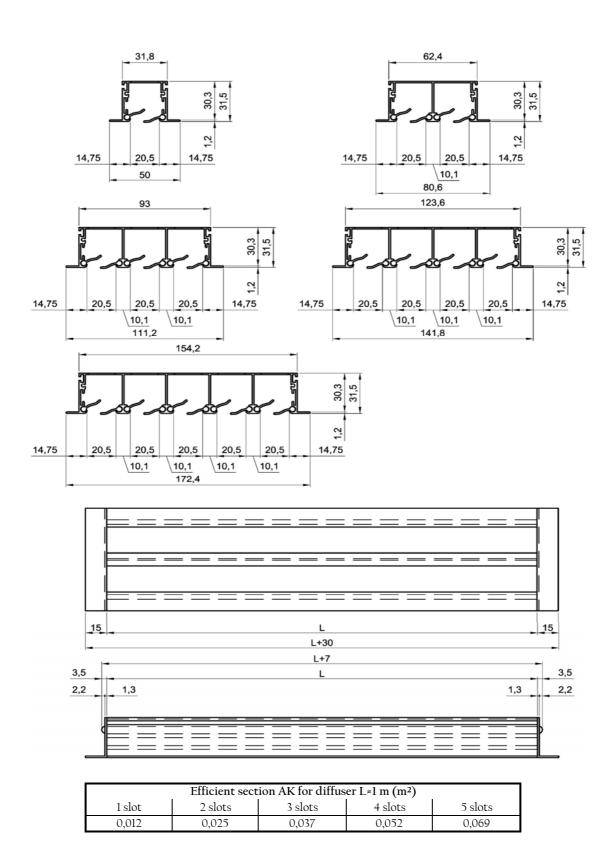
Vertical throw configuration
The air penetrates directly into the room
Prevents the formation of layers of hot air when
used for heating.





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DIMENTIONS

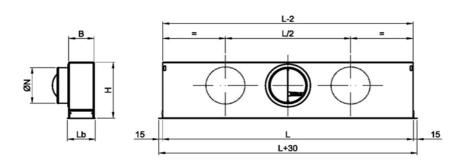






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PLENUM

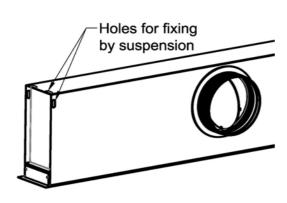


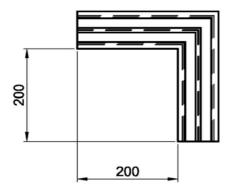
N° slots	В	H	ØN		Lb
1	40	200	123	ABS (*)	50
2	71	200	123	ABS (*)	80,6
3	101,5	235	155	ABS (*)	111,2
4	132	235	155	ABS (*)	141,8
5	163	275	195	ABS (*)	172,4

for L up to 1500 one connection $\ensuremath{\text{O}} N$

for L greater than 1500: two connections $\emptyset N$

(*) Steel on request





Corner connection





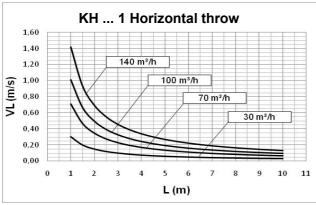
Mounting bridge

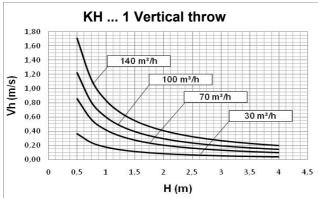


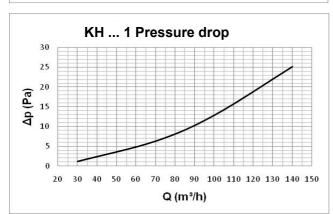


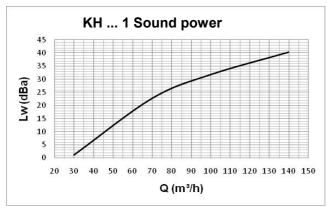
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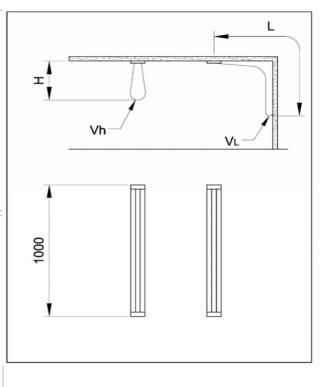
PERFORMANCE ONE SLOT











Aeraulic data measured in isothermic conditions for a one meter long diffuser in accordance with the international standard:

ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

 $L\left(m\right)$ horizontal distance in meters from the centre of the diffuser

VL (m/s) maximum air speed in the air vain at a distance L H (m) distance from ceiling

Vh (m/s) speed at height H

Acoustic data measured in reverberating room for a one meter long diffuser in accordance with the international standard:

ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

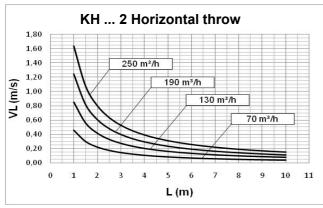
ISO 5135 1997: Acoustic - determination of sound power levels of noise from air-terminal devices; air terminal units; dampers and valves by measurement in a reverberation room.

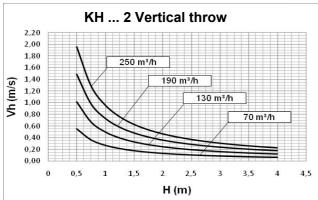


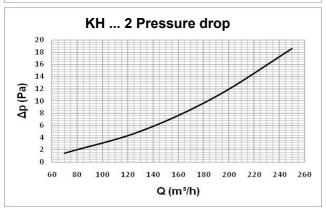


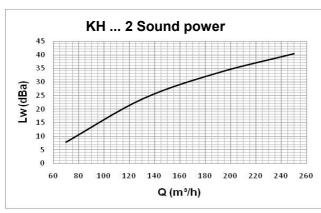
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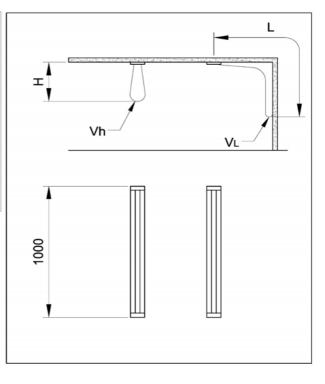
PERFORMANCE TWO SLOTS











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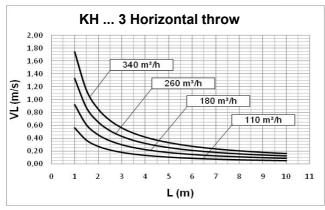
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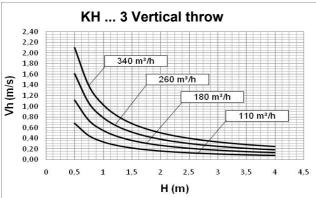


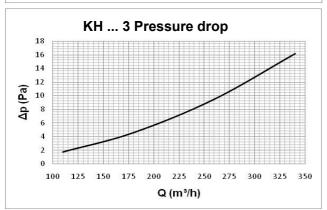


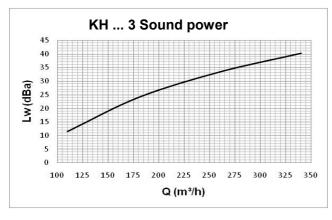
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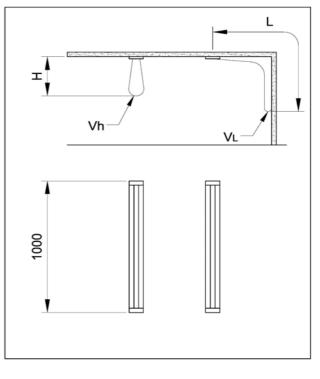
PERFORMANCE THREE SLOTS











Aeraulic data measured in isothermic conditions for a one meter long diffuser in accordance with the international standard:

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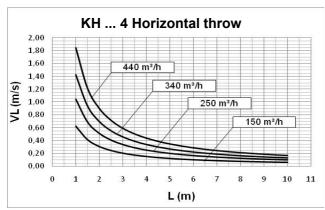
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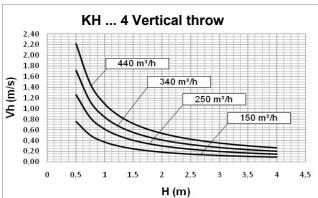


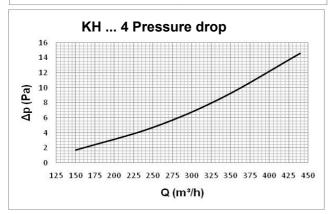


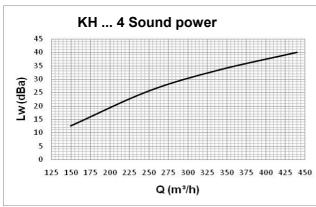
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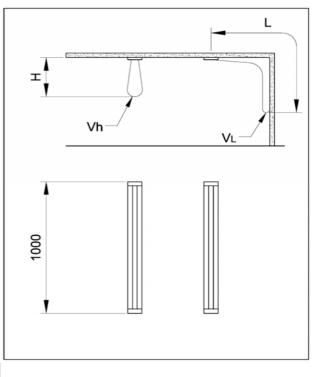
PERFORMANCE FOUR SLOTS











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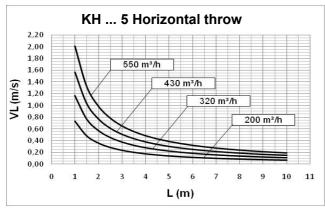
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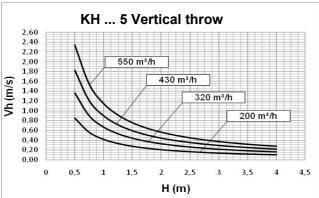


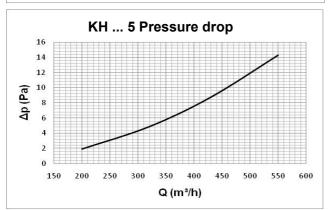


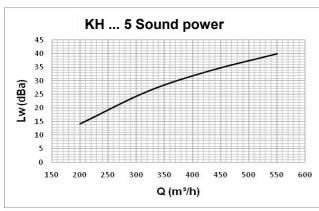
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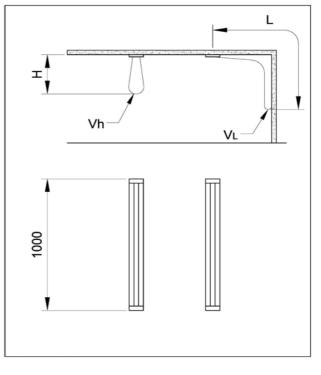
PERFORMANCE FIVE SLOTOS











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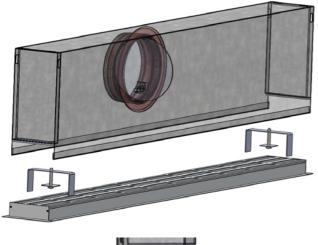
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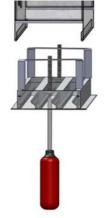
MOUNTING INSTRUCTIONS



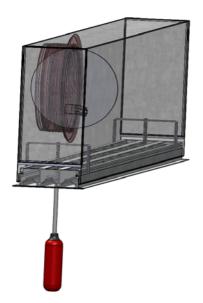
Plenum

Mountin bridges

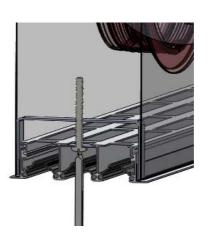
Diffuser



insert the mounting driages into the rear opening inserire il of the diffuser $% \left(1\right) =\left(1\right) \left(1\right) \left($



insert the diffuser into the plenum and tighten the screws

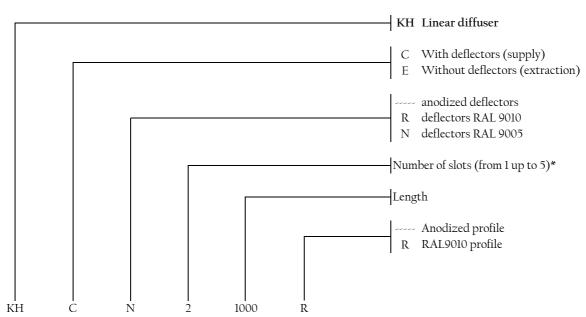






KH SERIES

ORDER CODES



* No special version are foreseen with a greater number of slots

