



HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY ANGLED NEK

KPZ
SERIES

TECHNICAL DATA

TECHNICAL DATA :

The KPZ series diffusers are composed by an external panel and a round central part. The central body has fixed deflectors which create a elicoidal/centrifugal motion of the air flow. For this reason, this specific air terminal is suitable for applications requiring heating with a strong induction effect. KP diffusers are used for installation heights from 2,6 m to 5,1m.

MATERIAL :

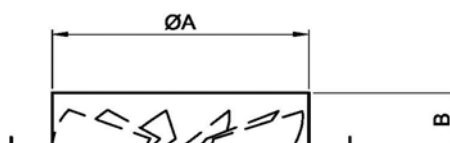
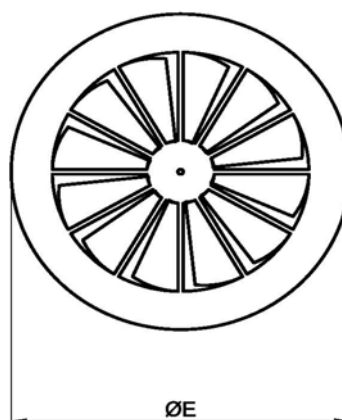
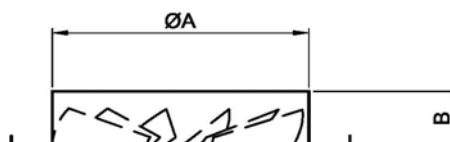
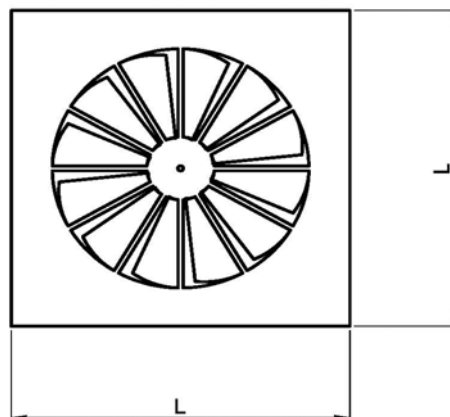
The diffuser is manufactured from sheet steel, with white epoxy finish RAL 9010. Possibility of producing AISI 304 or AISI 316 stainless steel versions with gloss or satin finish.

MOUNTING :

The diffuser has to be fixed with a central M5 screw directly on the plenum bridge. It is supplied with a white screw cover.

VERSIONS :

KPZ with squared panel;
KPZ6 with squared panel 596x596;
KPZD with squared panel 623x623
KPRZ circular



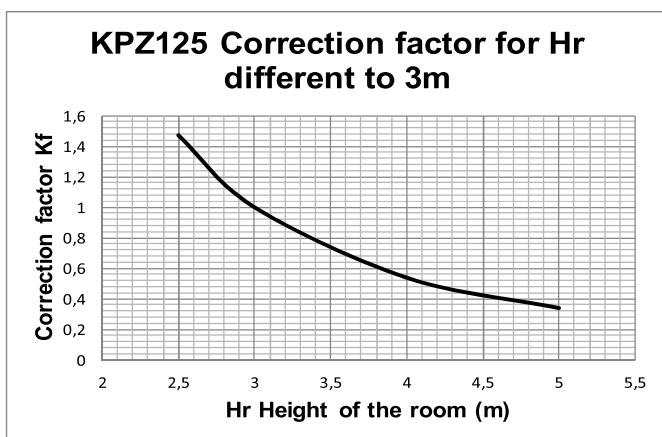
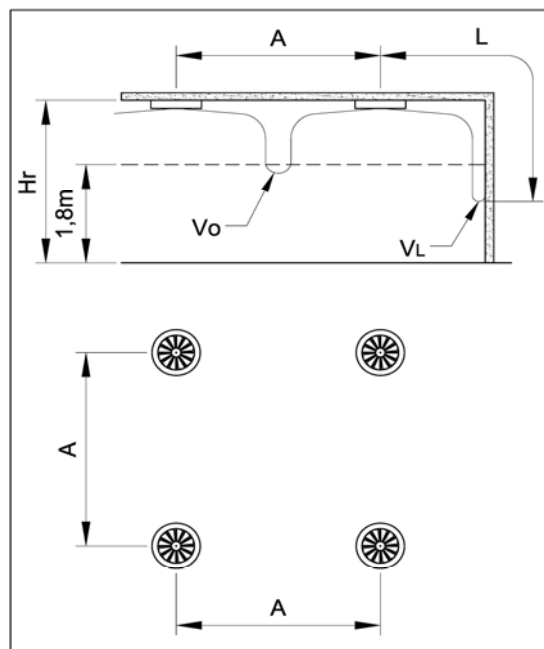
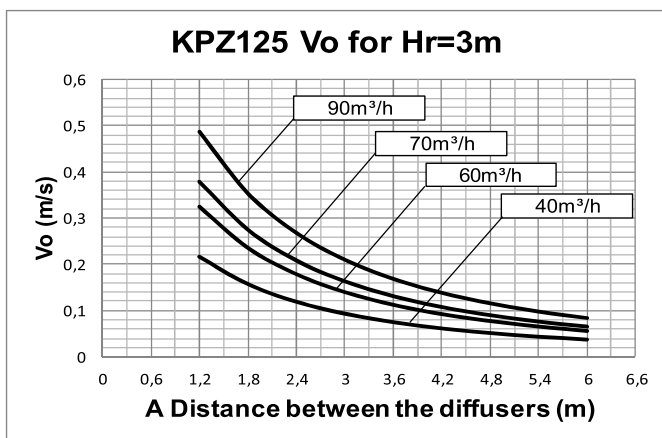
size	A	B	KPZ L	KPZ6 L	KPZD L	KPRZ E	Ak m ²
125	122	55	171	596	623	171	0,00910
160	157	55	214	596	623	214	0,01462
200	197	55	264	596	623	264	0,02245
250	247	55	326	596	623	326	0,03445
315	312	55	404	596	623	404	0,05370
355	353	65	448	596	623	448	0,06755
400	398	55	500	596	623	500	0,08495



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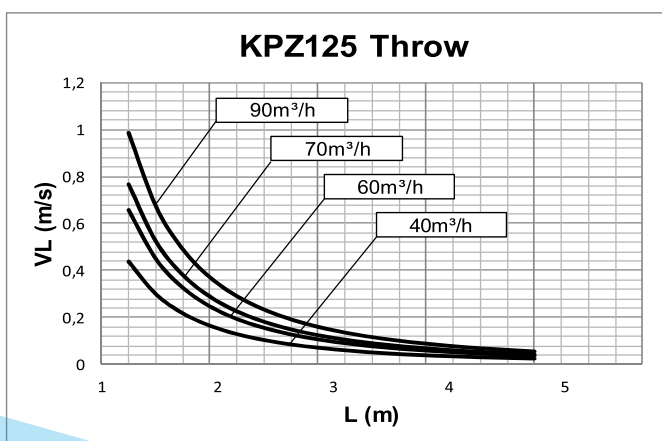
KPZ
SERIES

PERFORMANCE KPZ 125

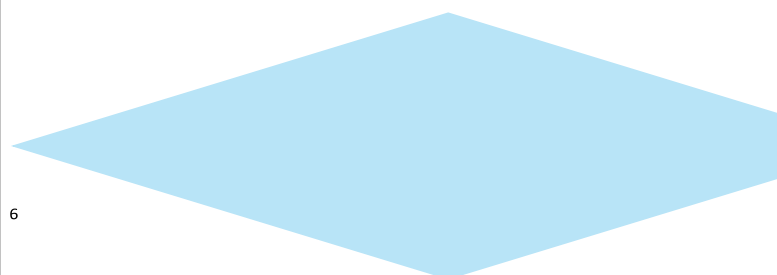


Data measured operating in isothermal conditions in accordance with the international standard: ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

A(m) distance between the diffusers
Vo (m/s) speed at the limit of the occupied zone
L (m) horizontal distance in metres from the centre of the diffuser
VL (m/s) maximum speed in the air stream



For Hr different from 3m:
 $V_o(h) = V_o \times K_f$

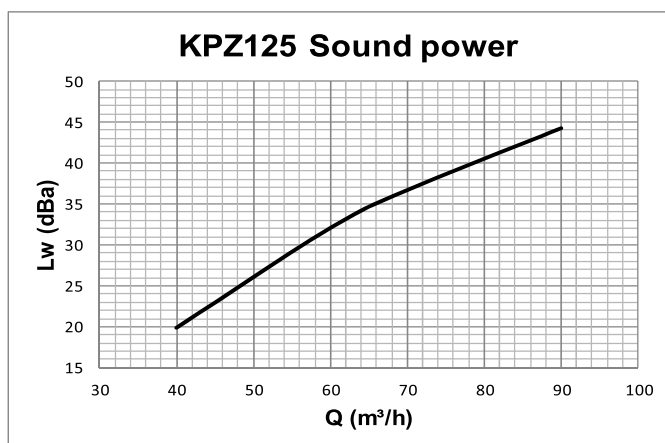




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PERFORMANCE KPZ 125

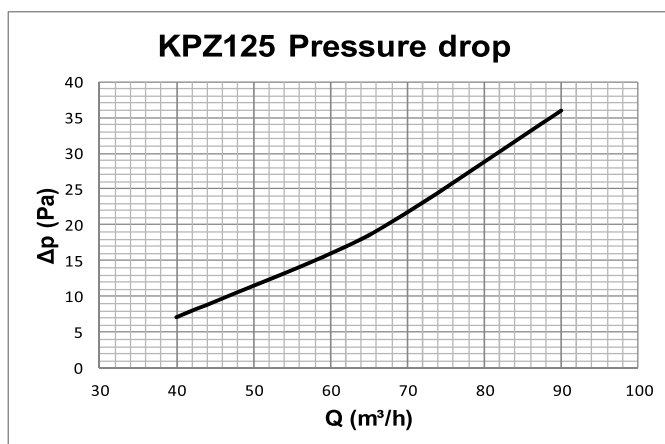


Data measured in reverberation room in accordance with international standards:

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.*

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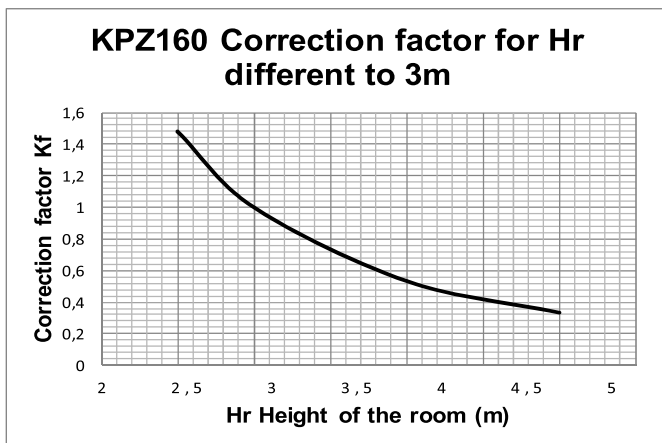
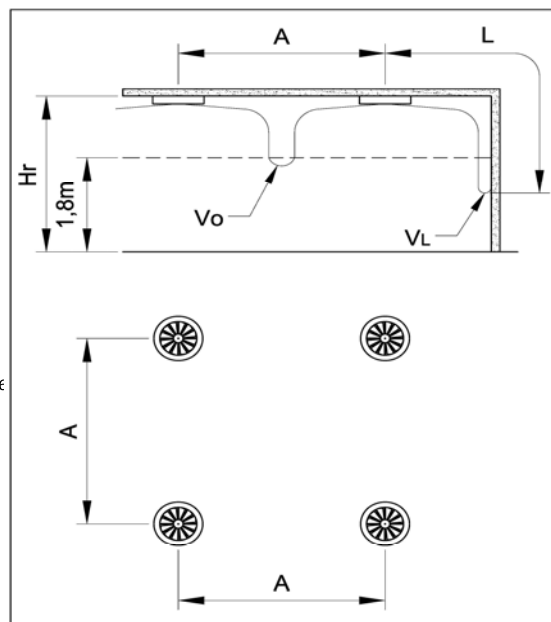
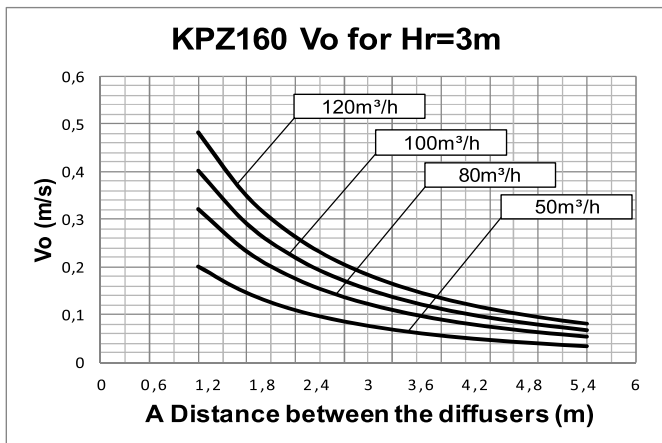
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*



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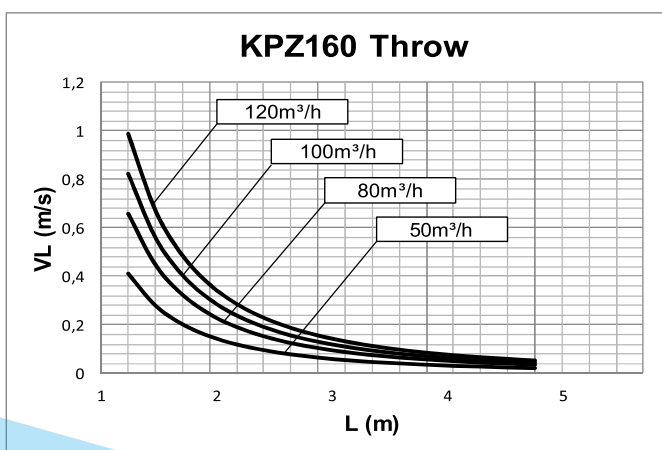
KPZ
SERIES

PERFORMANCE KPZ 160



Data measured operating in isothermal conditions in accordance with the international standard: ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

A(m) distance between the diffusers
 V_0 (m/s) speed at the limit of the occupied zone
 L (m) horizontal distance in metres from the centre of the diffuser
 V_L (m/s) maximum speed in the air stream



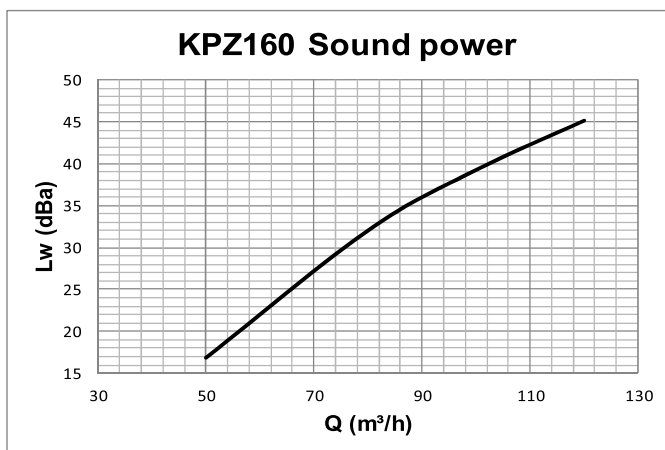
For Hr different from 3m:
 $V_0(h) = V_0 \times K_f$



HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY ANGLED NEK

KPZ
SERIES

PERFORMANCE KPZ 160

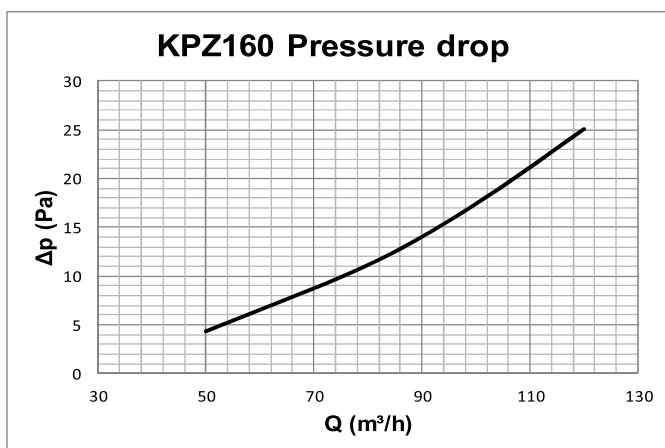


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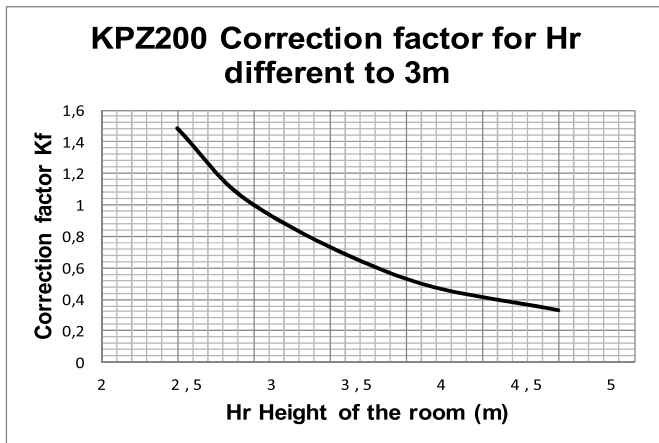
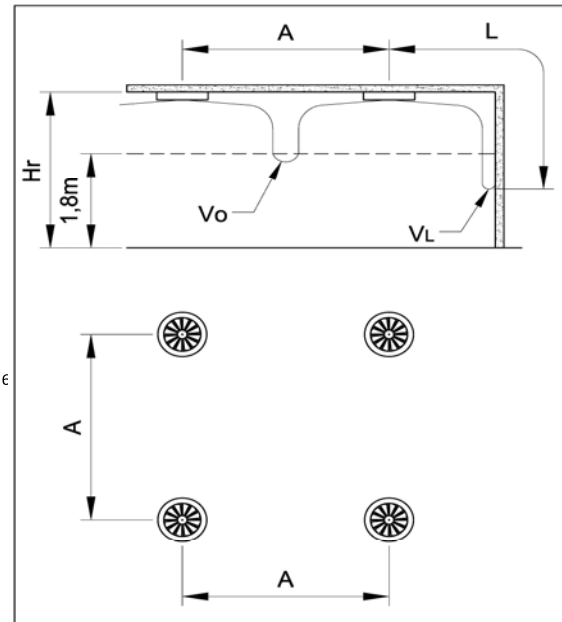
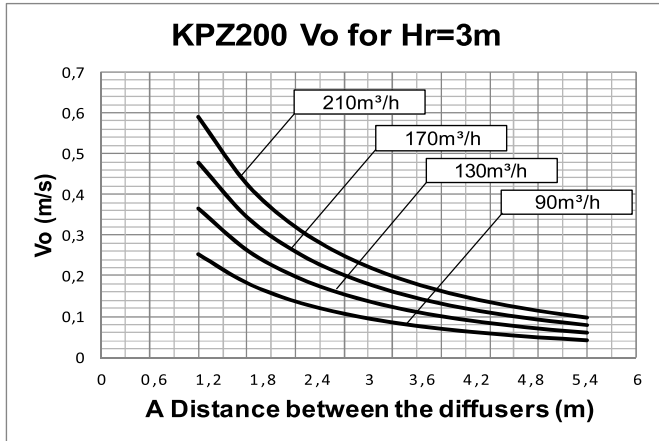
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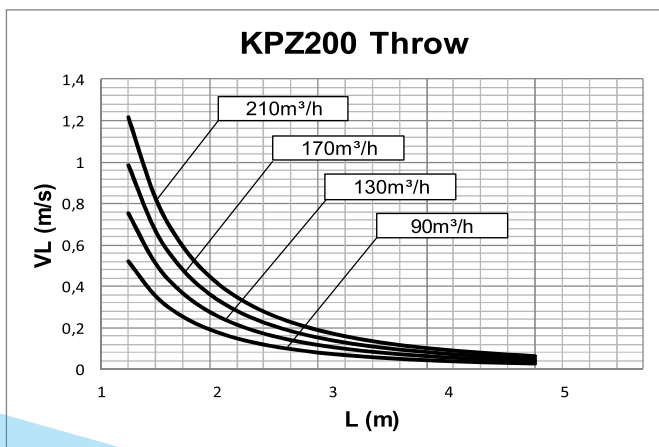
KPZ
SERIES

PERFORMANCE KPZ 200

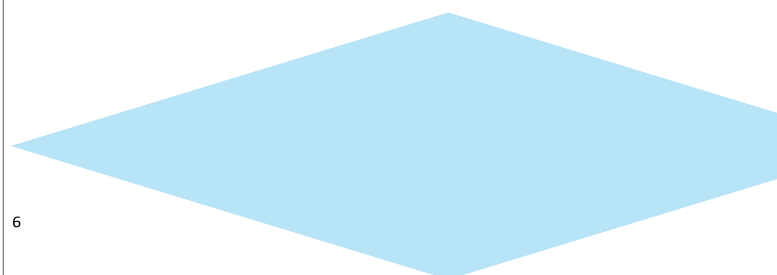


Data measured operating in isothermal conditions in accordance with the international standard: ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

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 V_o (m/s) speed at the limit of the occupied zone
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 V_L (m/s) maximum speed in the air stream



For Hr different from 3m:
 $V_o(h) = V_o \times K_f$

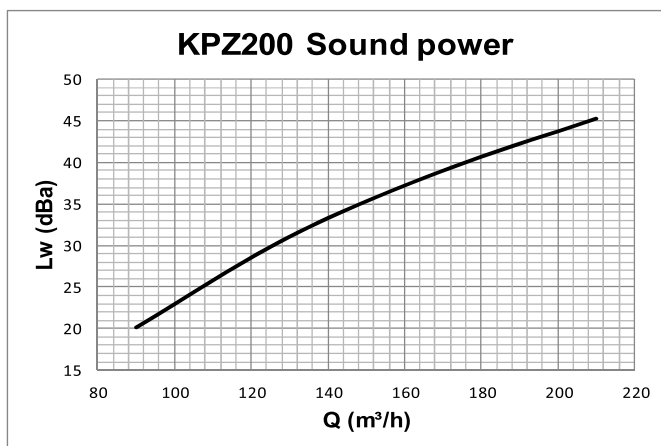




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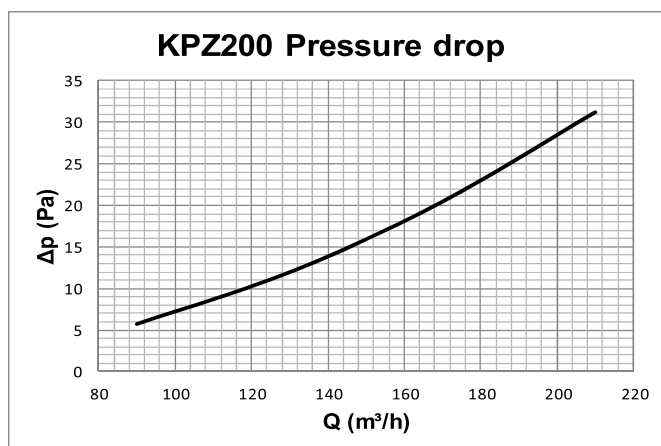


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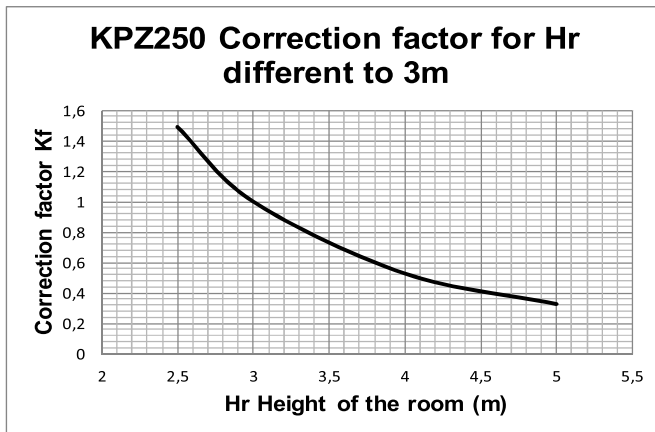
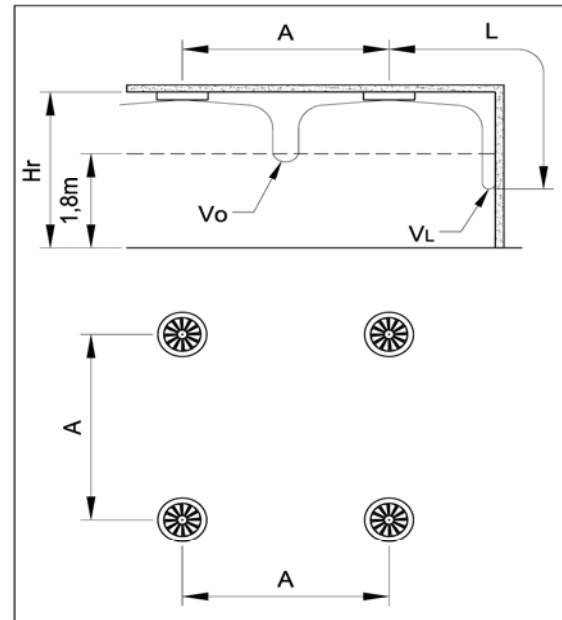
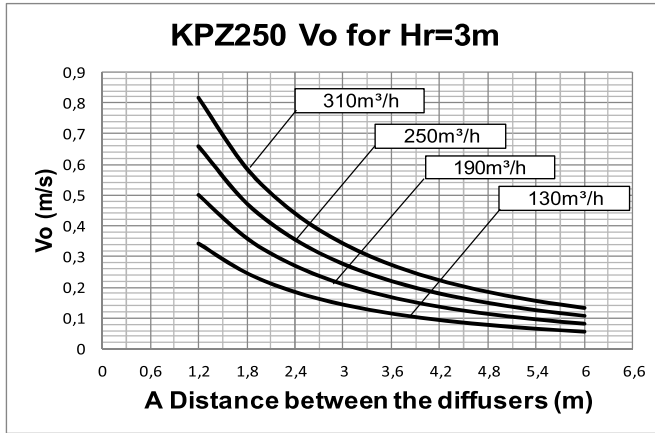
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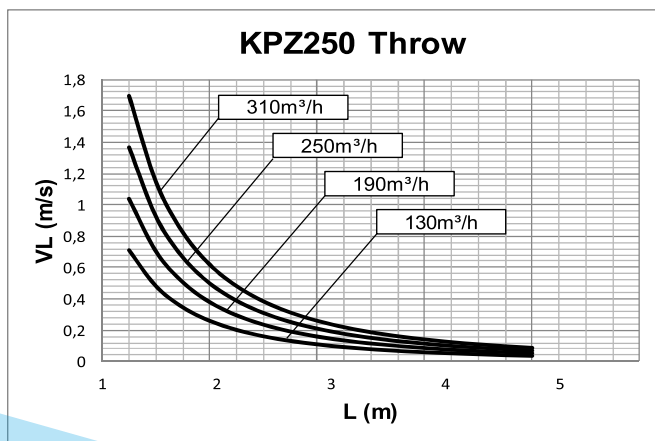
KPZ
SERIES

PERFORMANCE KPZ 250

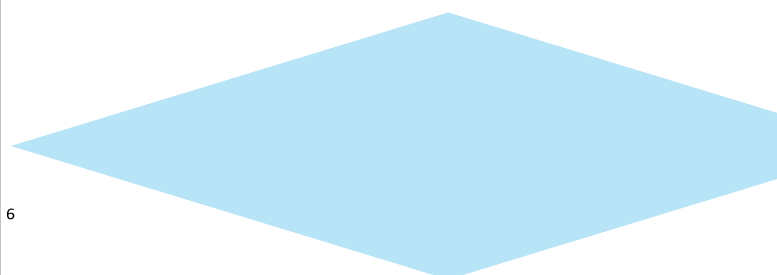


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For Hr different from 3m:
 $V_o(h) = V_o \times K_f$

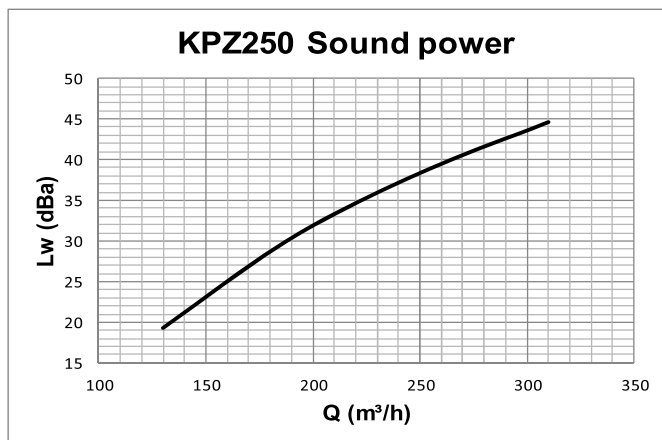




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PERFORMANCE KPZ 250

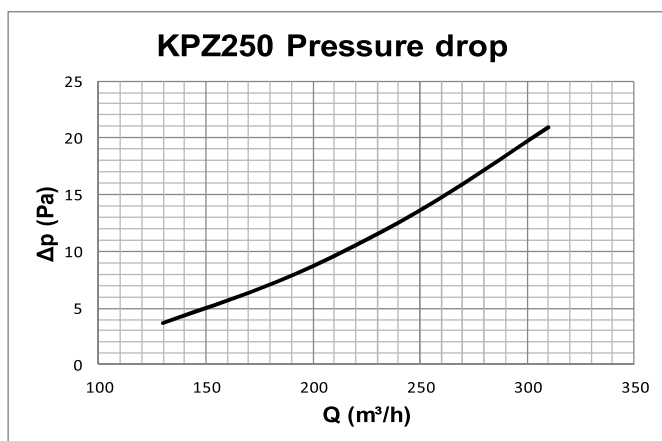


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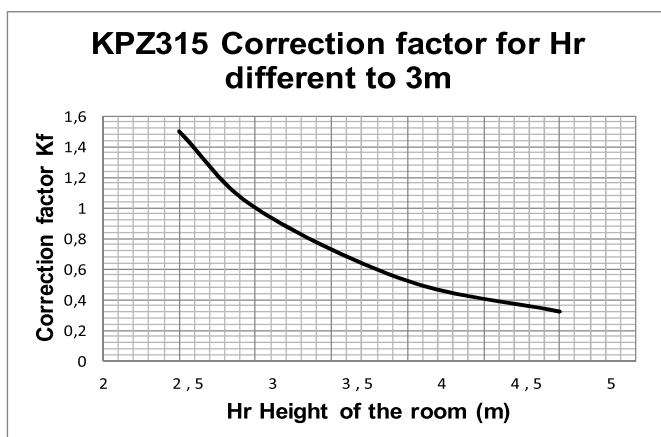
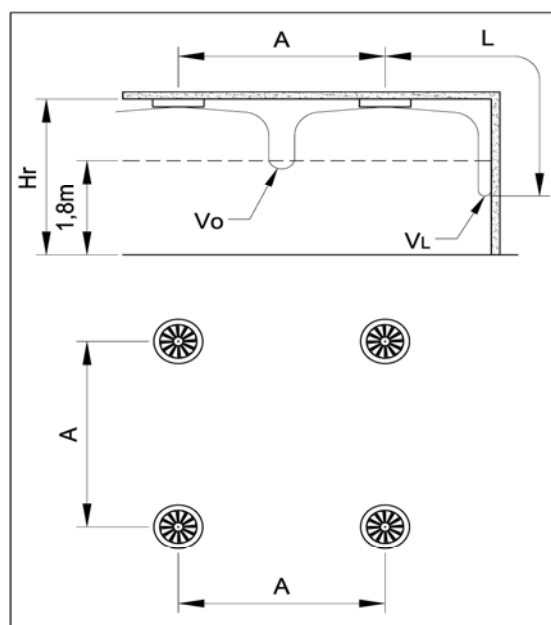
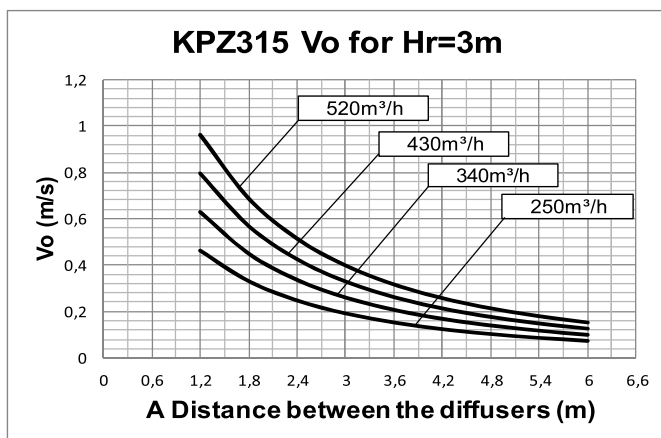
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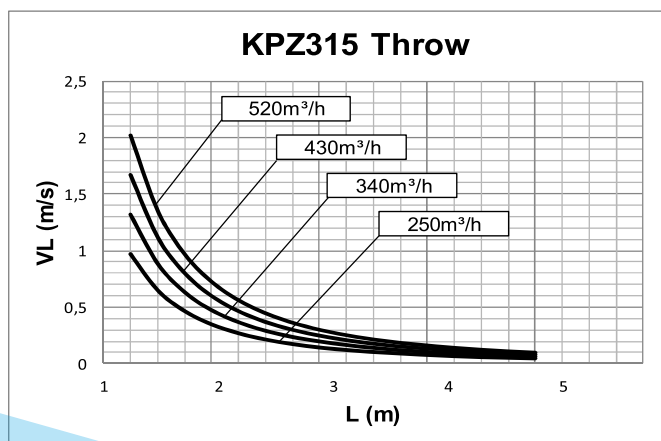
KPZ
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PERFORMANCE KPZ 315

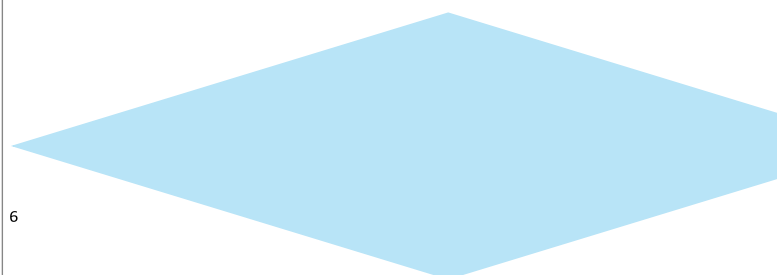


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For Hr different from 3m:
Vo (h) = Vo x Kf

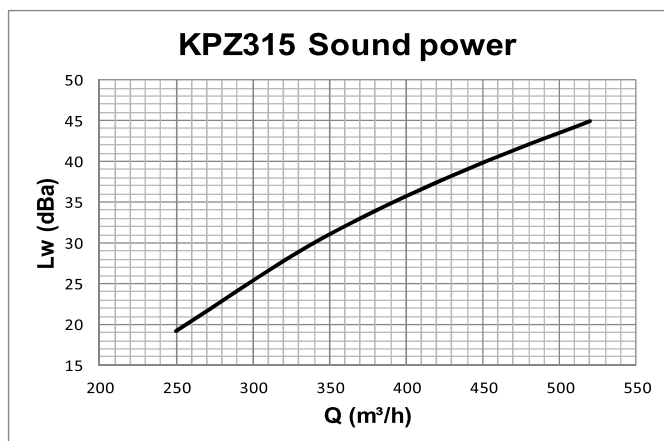




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PERFORMANCE KPZ 315

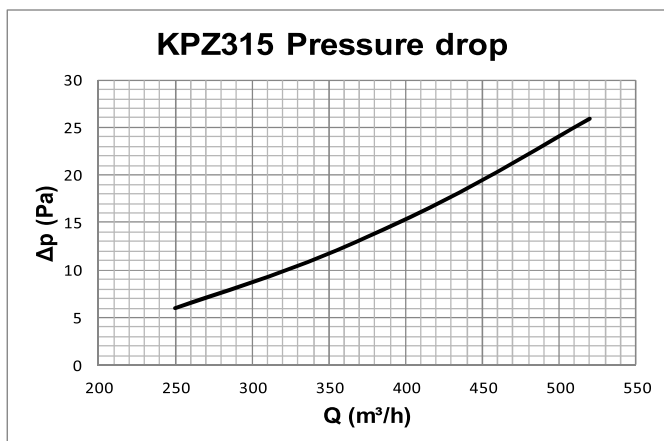


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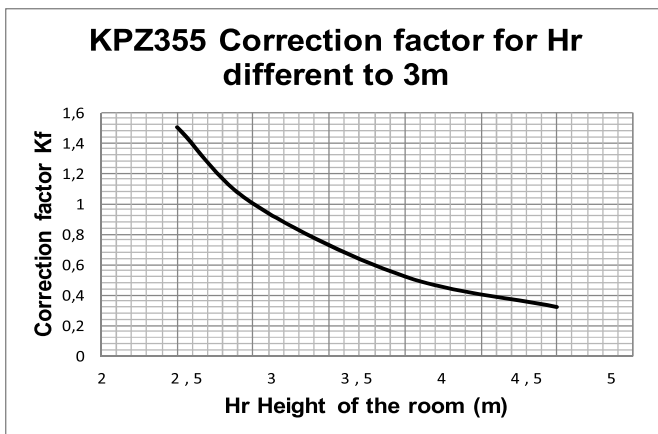
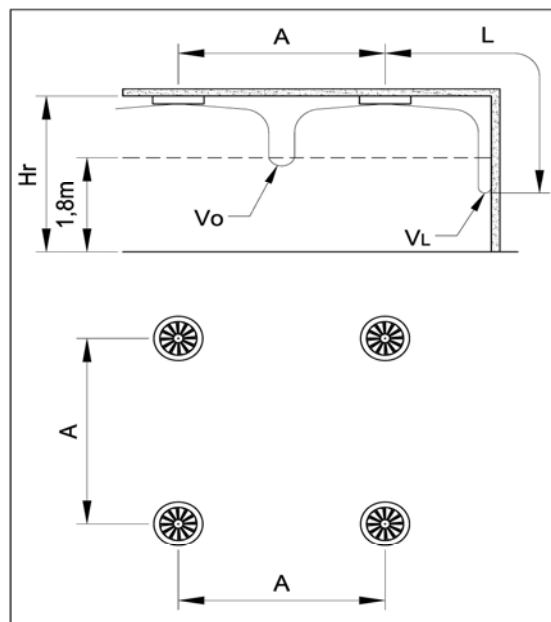
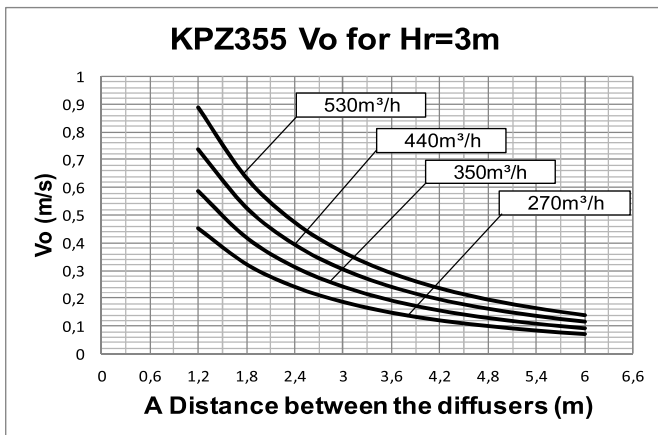
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HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY ANGLED NEK

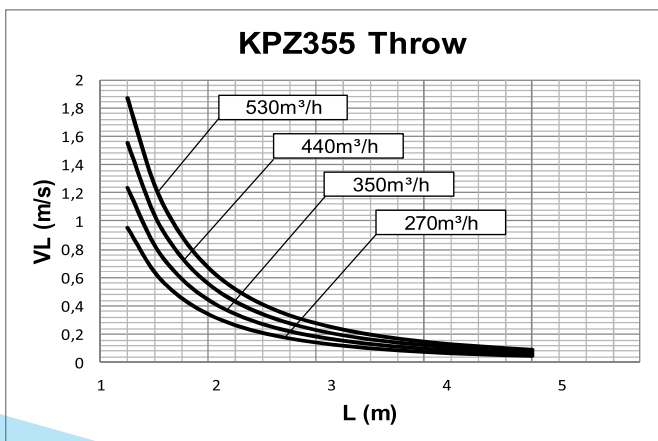
KPZ
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PERFORMANCE KPZ 355

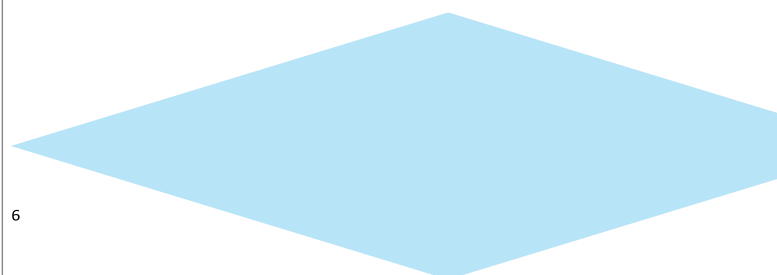


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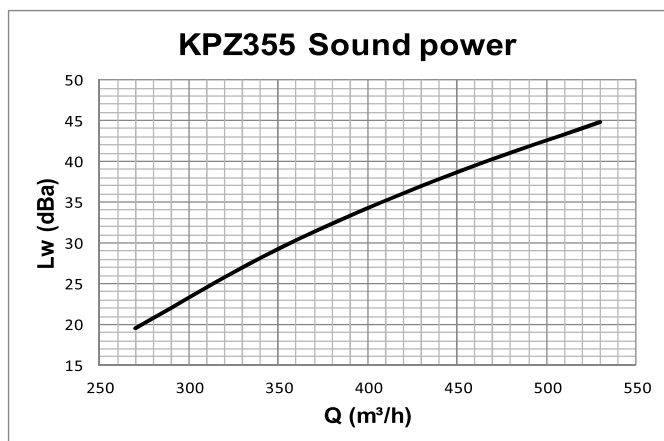




HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY ANGLED NEK

KPZ
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PERFORMANCE KPZ 355

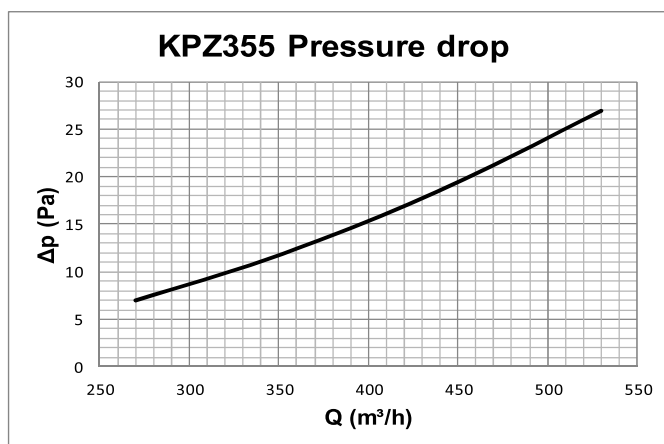


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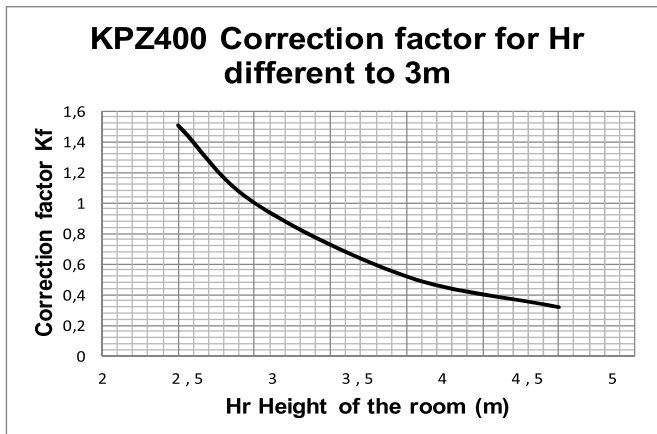
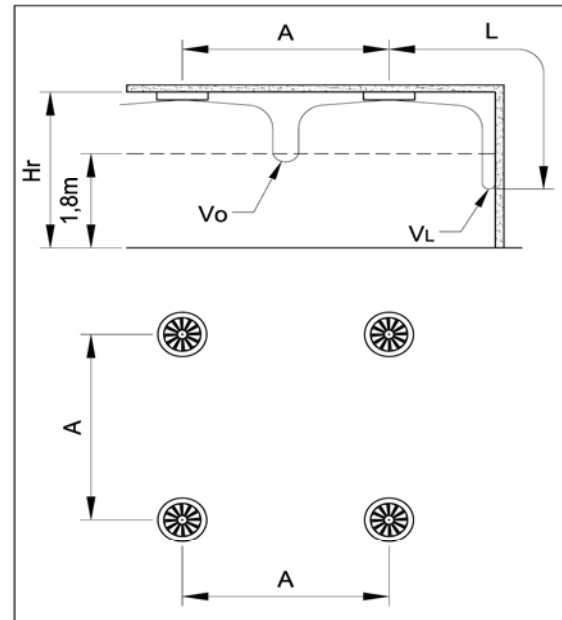
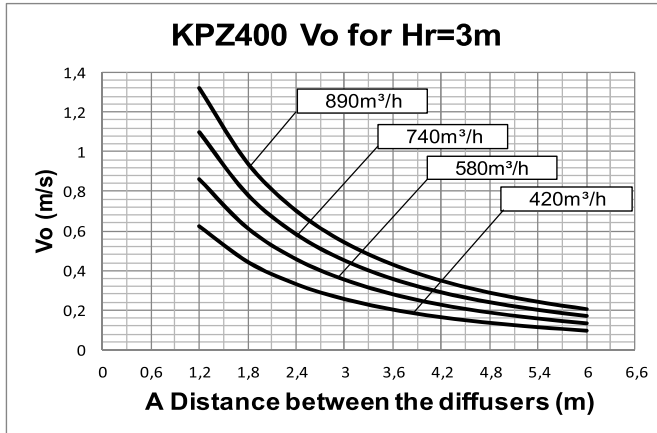
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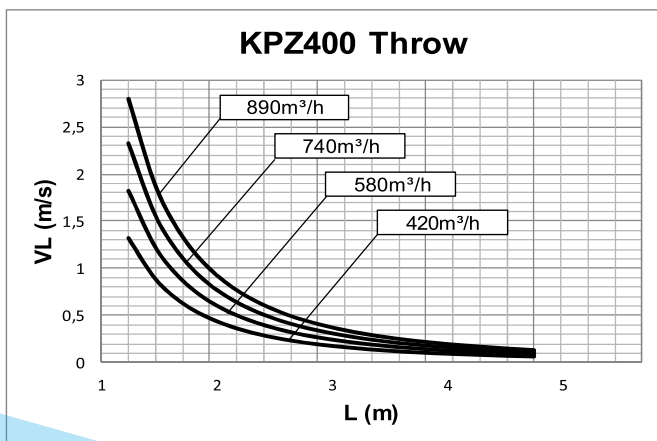
KPZ
SERIES

PERFORMANCE KPZ 400

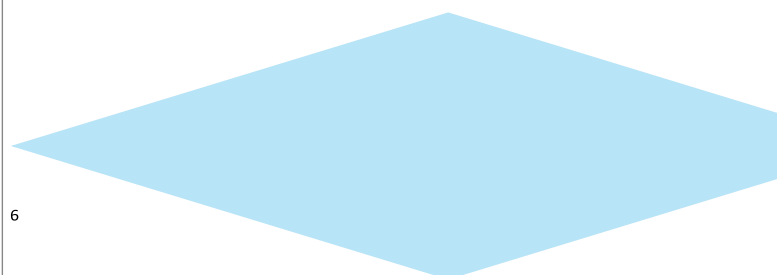


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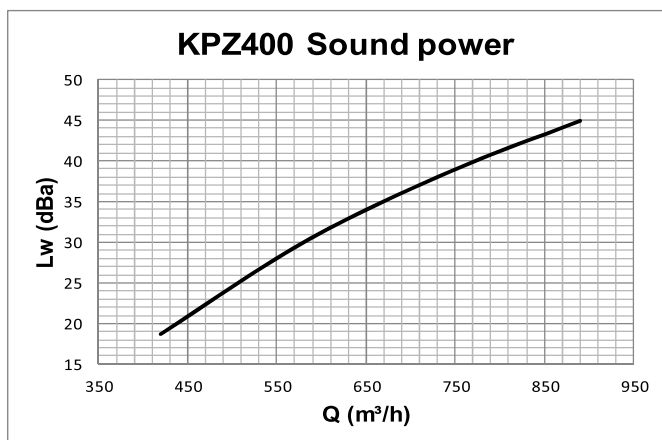




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PERFORMANCE KPZ 400

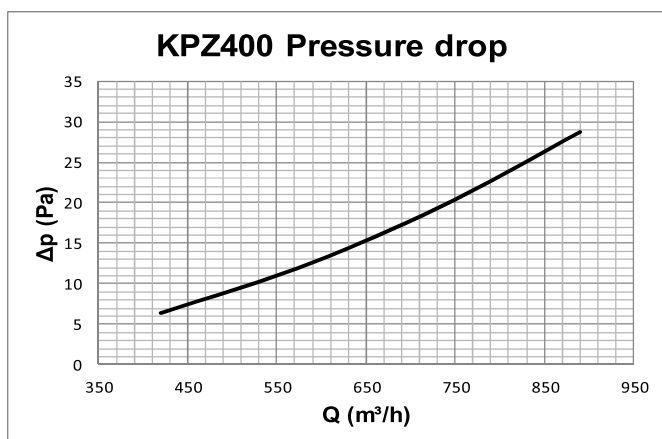


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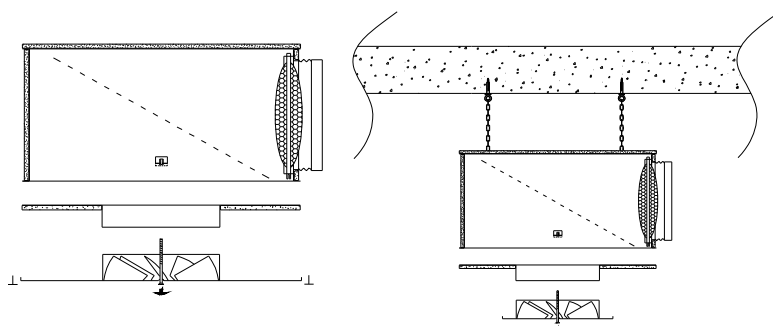
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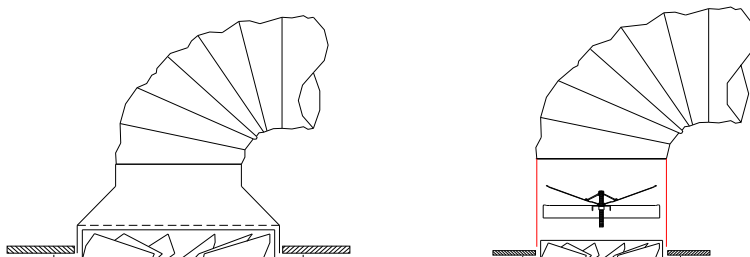
HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY

KP - KPZ SERIES

TECHNICAL DATA INSTALLATION

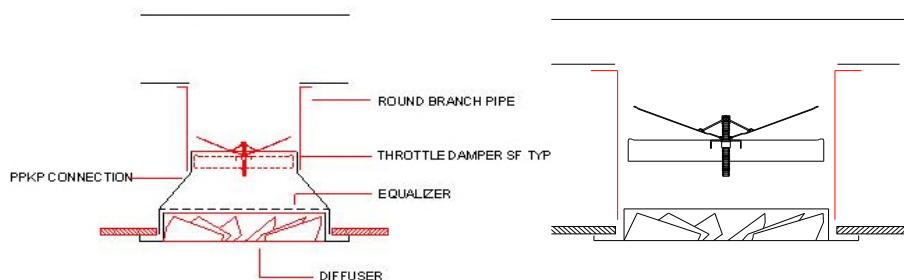


Installation with plenum

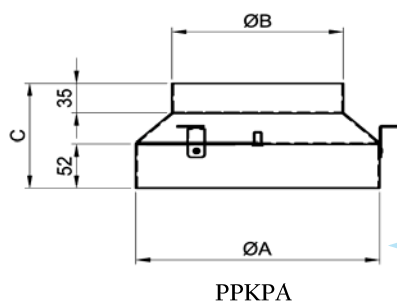
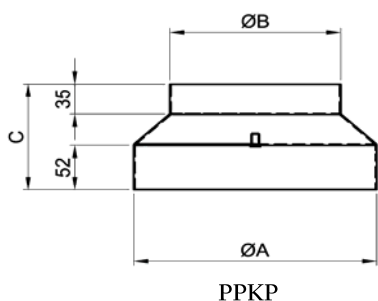


Installation with coupling and flexible duct

Installation with coupling butterfly damper and flexible duct



Installation with branch and steel duct



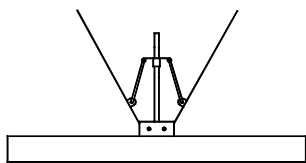
Models of coupling

PPKP PPKPA	125	160	200	250	315	400
ØA	128	163	203	253	318	403
ØB	98	123	148	178	198	248
C	90	95	113	123	160	160

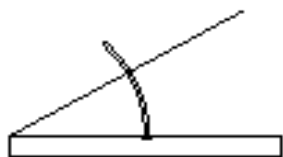


HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY

KP - KPZ SERIES



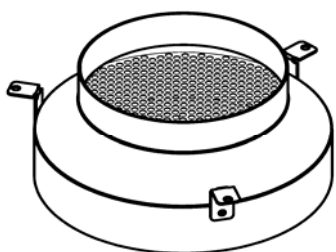
SF Butterfly damper
available for all diameters
specify diameter at order stage



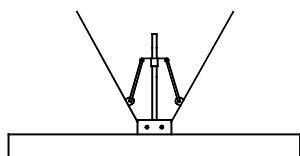
SB Collection damper for KU5/6/9 diffusers
available for diameters 100 to 500 included
specify diameter at order stage



PPKP Coupling with equalizer
available for all the diameters
specify diameter at order stage

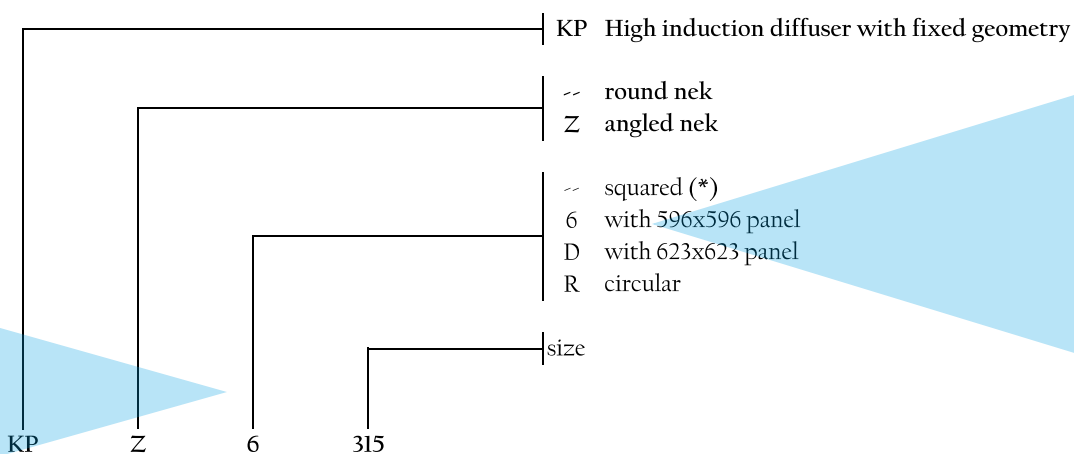


PPKPA Coupling with equalizer
and hooks for ceiling suspension
available for all the diameters
specify diameter at order stage



SF Butterfly damper
for coupling

diffuser	damper
125	SF 100
160	SF 125
200	SF 150
250	SF 180
315	SF 200
400	SF 250



(*) Not available for KP315 e KP400



PLENUM FOR CIRCULAR DIFFUSER

PP 60
SERIES

OVERVIEW

PLENUM :

The PP60 plenums, also named "calm cases", allow the correct entry of air in the neck of the diffuser thus ensuring that the throw of air in the room is homogenous along all the circumference of the diffuser.

Materials :

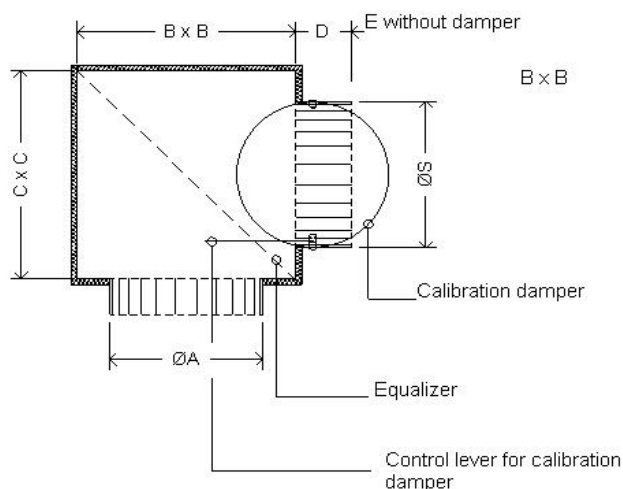
PP 60 standard plenum : galvanized steel sheet.
Insulation: expanded polyethylene certified for the reaction to fire according to Italian class 1.

Versions :

Made from insulated steel sheet with expanded polyethylene, ideal for the supply of air, and in simple sheet steel normally used for air extraction.

Accessories:

Regulation damper and equalizing net in the connection of the plenum.



nominal deck diameter mm	A mm	B mm	C mm	D mm	E mm	N° of connections	S [mm] mm	connection and damper material
125	127	225	225	90	60	1	121	ABS (*)
160	162	250	250	90	60	1	156	ABS (*)
200	202	300	300	90	60	1	196	ABS (*)
250	252	350	350	90	60	1	246	ABS (*)
315	317	400	400	90	60	1	311	steel
355	357	450	450	90	90	1	346	steel
400	402	500	500	90	90	1	396	steel

(*) steel on request



PLENUM FOR CIRCULAR DIFFUSER

PP 60
SERIES

HOW TO ORDER

