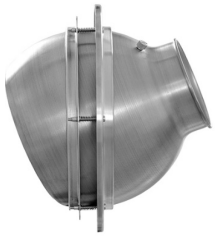


HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

OVERVIEW

OVERVIEW
Manually adjustable diffuser in any direction with a angle limited to 30° with a long throw.
Ideal for installations within large areas such as train stations, airports and hypermarkets.
Suggested installation height is of above 3 metres

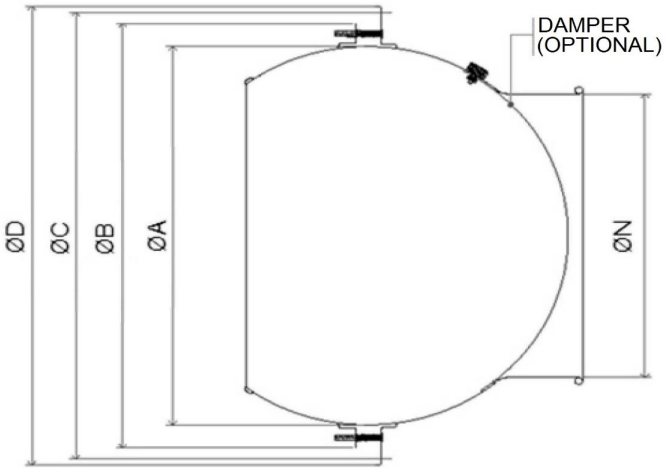
INSTALLATION
Fixing by screws on the front side of the diffusers directly to the wall or to a rectangular duct.
Fixing by connector to a circular or flexible duct.

MATERIAL
Aluminium

FINISH
Anodized or painted RAL9010
Other finishes on request.

ACCESSORIES
Screw cover
Connector for connection to circular duct
Connector for connection to flexible duct
Front regulation damper

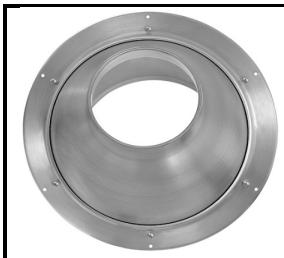
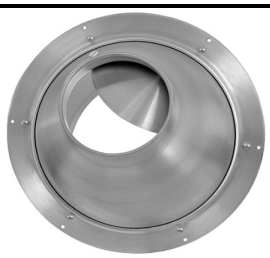
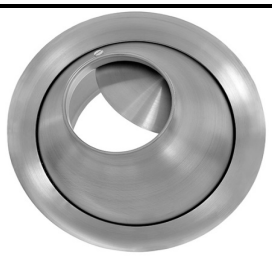
UNSUITABLE ENVIRONMENTS
The aluminum products are not suitable for installation in environments with an atmosphere containing corrosive substances for this material and in particular containing chlorine, such as swimming pools, spas and some types of food industries.



ØA	external diameter of the diffuser
ØB	diameter of the internal flange
ØC	diametro cerchio fori fissaggio
ØD	diameter of the external flange
ØN	diameter of the diffuser

DIMENSIONS					
Model	ØN	ØA	ØB	ØC	ØE
KV080L	80	160	203	220	254
KV110L	110	200	246	266	285
KV150L	150	300	350	368	387
KV200L	200	400	448	472	485
KV230L	230	400	448	472	485
KV250L	250	400	448	472	485
KV300L	300	400	448	472	485

AIR PASSAGE SECTIONS	
Model	Ak (m²)
KV080L	0,0054
KV110L	0,0101
KV150L	0,0180
KV200L	0,0310
KV230L	0,0401
KV250L	0,0490
KV300L	0,0710

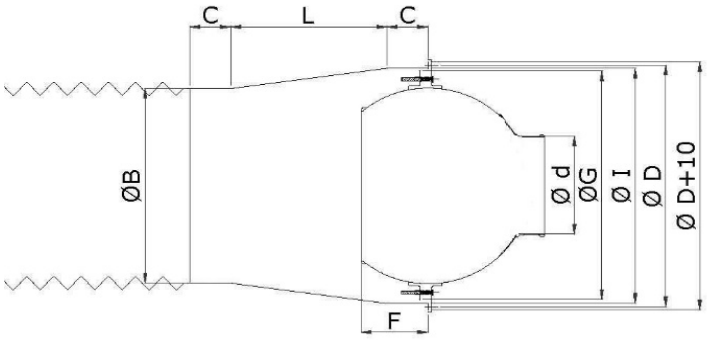
			
KV ... L version without front damper	KV ... L + KV-C ... version without front damper with cover screws flange	KV ... LS version with front damper	KV ... LS + KV-C ... version with front damper with cover screws flange

HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

TECHNICAL CHARACTERISTICS

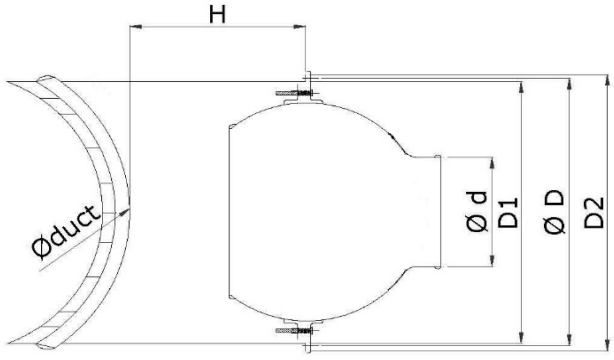
KV-RF
Plenum for flexible duct connection



Ød	Diameter of the diffuser
ØG	Diameter of the internal flange
ØI	Internal diameter of the plenum
ØD	Diameter of the circle of the fixing holes
ØD + 10	External diameter

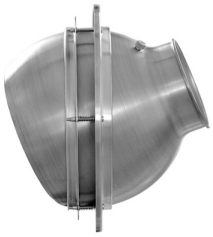
Model	Ø D [mm]	Ø d [mm]	A [mm]	F [mm]	B [mm]	Ø G [mm]	I [mm]	L [mm]	C [mm]
KV-RF080	220	80	131	57	158	203	210	100	60
KV-RF110	266	110	144	60	195	246	251	100	60
KV-RF150	368	150	233	103	298	350	358	170	60
KV-RF200	472	200	308	141	398	448	462	170	60
KV-RF230	472	230	308	141	398	448	462	170	60
KV-RF230	472	250	308	141	398	448	462	170	60
KV-RF230	472	300	308	141	398	448	462	170	60

KV-RC
Plenum for circular duct connection



Ød	Diameter of the diffuser
ØD1	Internal diameter of the plenum
ØD	Diameter of the circle of the fixing holes
ØD2	External diameter

Model	nr fori	Ø fori [mm]	Ø D [mm]	Ø d [mm]	Ø D1 [mm]	Ø D2 [mm]	H [mm]	Ø duct min-max [mm]
KV-RC080	3	5	220	80	210	230	200	315-630
KV-RC110	3	5	266	110	251	282	300	315-800
KV-RC150	6	5	368	150	358	378	300	500-800
KV-RC200	6	5	472	200	460	480	350	500-1000
KV-RC230	6	5	472	230	460	480	350	500-1000
KV-RC230	6	5	472	250	460	480	350	500-1000
KV-RC230	6	5	472	300	460	480	350	500-1000



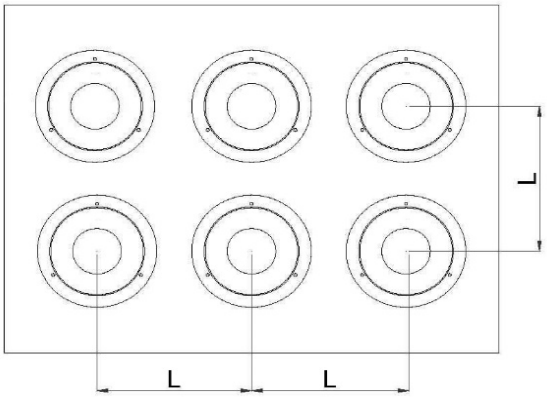
HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

TECHNICAL CHARACTERISTICS

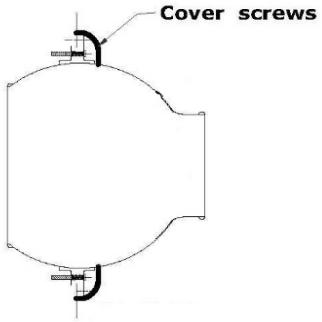
P30 . . .
Diffusers fitted on assembly plate

Model	I min (mm)
KV 80 L	300
KV 110 L	350
KV 150 L	430
KV 200 L	430
KV 230 L	550
KV 250 L	550
KV 300 L	550



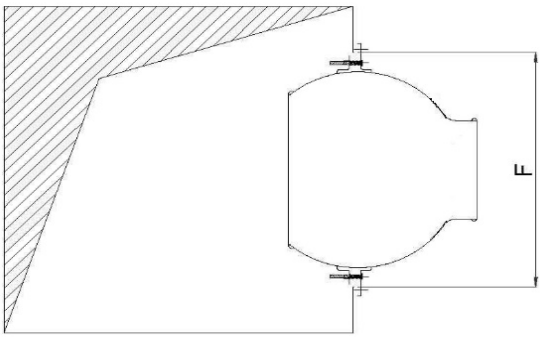
KV-C COVER SCREWS FLANGE

Model	Cover screws flange
KV 80 L	KV-C80
KV 110 L	KV-C110
KV 150 L	KV-C150
KV 200 L	KV-C200
KV 230 L	KV-C230
KV 250 L	KV-C230
KV 300 L	KV-C230



MOUNTING ON DUCT OR WALL

Model	F (mm)
KV 80 L	207
KV 110 L	250
KV 150 L	354
KV 200 L	452
KV 230 L	452
KV 250 L	452
KV 300 L	452

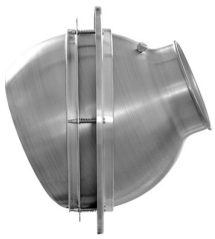


HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

SWIRL DEFLECTOR

SWIRL DEFLECTOR:
applied in the rear of the speaker generates a rotation motion which increases the induction and reduces the launch of the diffuser
The swirl deflector is particularly suitable for the entry of high flow rates in medium-sized spaces preventing the onset of sensitive drafts in the occupied zone.



HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

AUTHOMATIC REGULATION WITH THERMOSTATIC SPRING

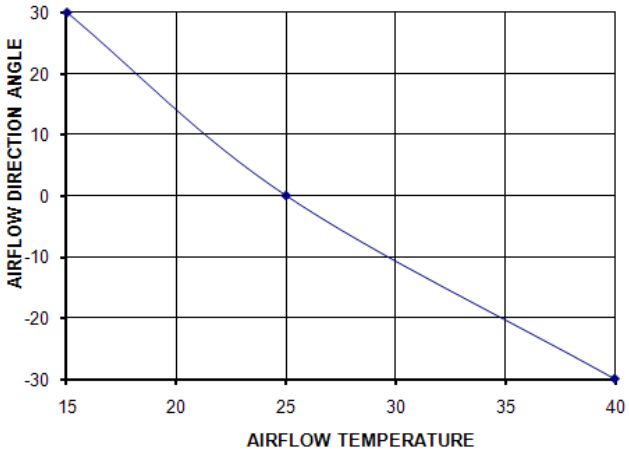
OVERVIEW
The KVLCT diffuser series come equipped with a thermostatic return spring to regulate the angle of the jet.

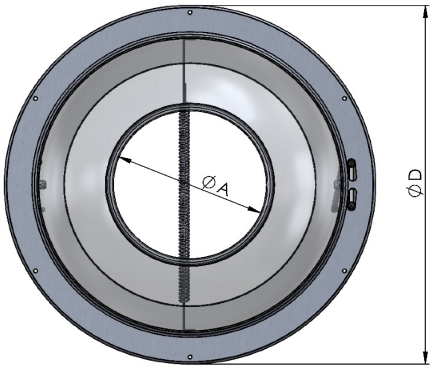
THROW REGULATION
To obtain the best heating comfort levels it is necessary to direct the flow of air downwards to eliminate the stratification of the air. Where as in cooling conditions is best to aim the flow of air towards the ceiling to eliminate the forming or air currents in the occupied zone.
The KVLCT diffusers automatically regulate the angle of the jet to obtain the optimal throw angle.
The temperature of the injected air is in fact determines the extension or retraction of the thermostatic spring which itself determines the rotation of the jet downwards or upwards.
By choosing the KVLCT diffuser it is possible to eliminate:
- electric thermostats;
- electrical wiring system;
- servomotors.
The maximum range is +/- 30°. This can be limited to smaller angles, with a 5° pitch even with a different regulation for heating and cooling, by inserting and regulating stop screws on a predisposed metal plate.

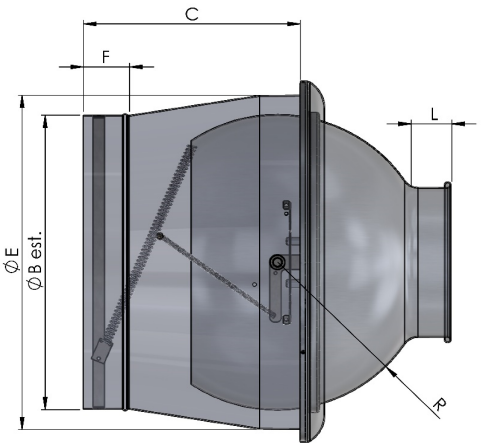
The memory of the form of the spring guarantees the precise relation between the injected air and the inclination angle for an also unlimited number of cycles.

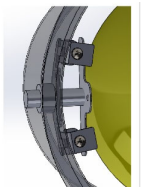
AERAULIC PERFORMANCES
The aeraulic performance of the KVLCT diffusers are, in relation to the diameter, is the exact same as for those of the equivalent KVL series diffuser.

AVERAGE DIRECTIONAL AIRFLOW ANGLE IN RELATION TO THE TEMPERATURE OF THE AIRFLOW

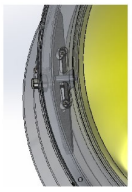








diameter 80



other diameters

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	L [mm]	R [mm]	regulation damper	swirl deflector
80	80	158	200	258	204	50	25	80	optional	optional
110	110	198	215	288	252	60	30	100	optional	optional
150	150	313	283	388	352	60	35	150	optional	optional
200	200	398	283	488	452	60	50	200	optional	optional
230	230	398	283	488	452	60	50	200	optional	optional
250	230	398	283	488	452	60	50	200	optional	optional
300	230	398	283	488	452	60	50	200	optional	optional

Front regulation damper and swirl deflector must be fitted at the factory, not available aftermarket

HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

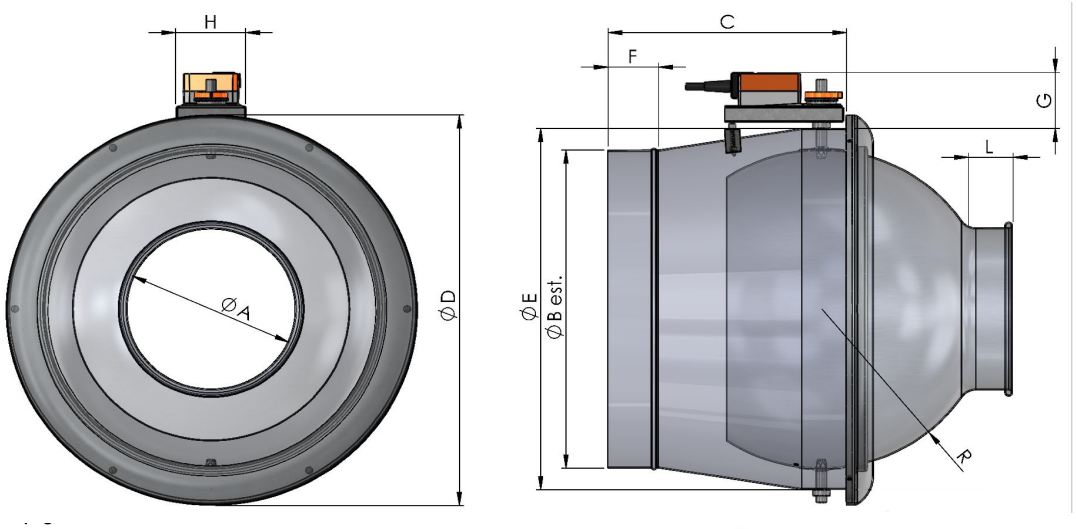
KVL
SERIES

AUTHOMATIC REGULATION
WITH SERVOMOTOR

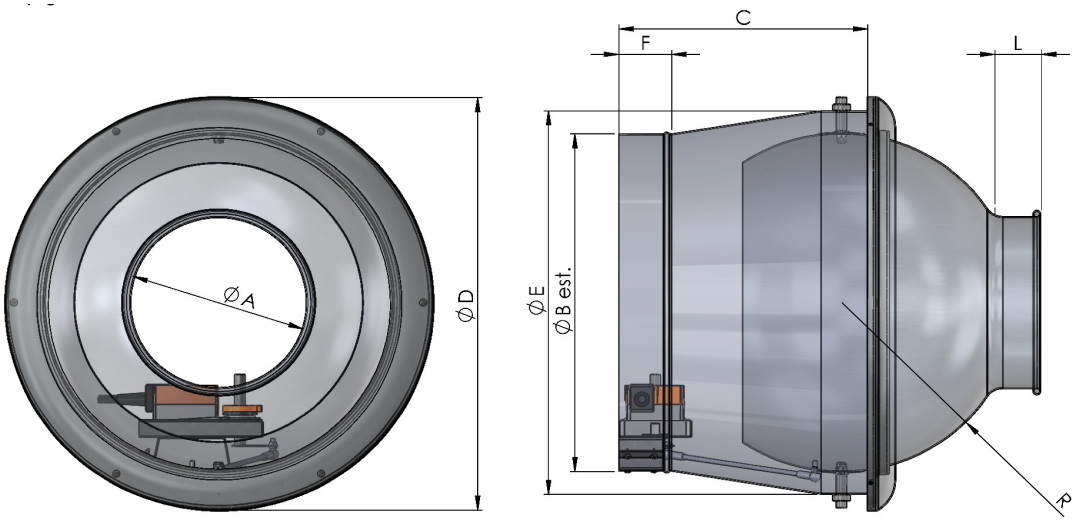
THROW REGULATION

To obtain the best heating comfort levels it is necessary to direct the flow of air downwards to eliminate the stratification of the air. Where as in cooling conditions is best to aim the flow of air towards the ceiling to eliminate the forming or air currents in the occupied zone.

With the diffusers KV1L-KV2L series the inclination of the jet is controlled by servo motor ON / OFF or modulating to obtain the optimum launch angle.
The maximum range is + / -30 °. This excursion may be limited to smaller angles with different adjustment for heating and cooling.



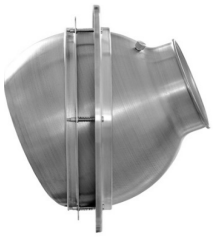
KV1L
external
motor



KV2L
internal
motor

Mod.	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	L [mm]	G [mm]	H [mm]	R [mm]	regulation damper	swirl deflector
80	80	158	200	258	204	50	25	38	60	80	optional	optional
110	110	198	215	288	252	60	30	70	85	100	optional	optional
150	150	313	283	388	352	60	35	70	85	150	optional	optional
200	200	398	283	488	452	60	50	70	85	200	optional	optional
230	230	398	283	488	452	60	50	70	85	200	optional	optional
250	250	398	283	488	452	60	50	70	85	200	optional	optional
300	300	398	283	488	452	60	50	70	85	200	optional	optional

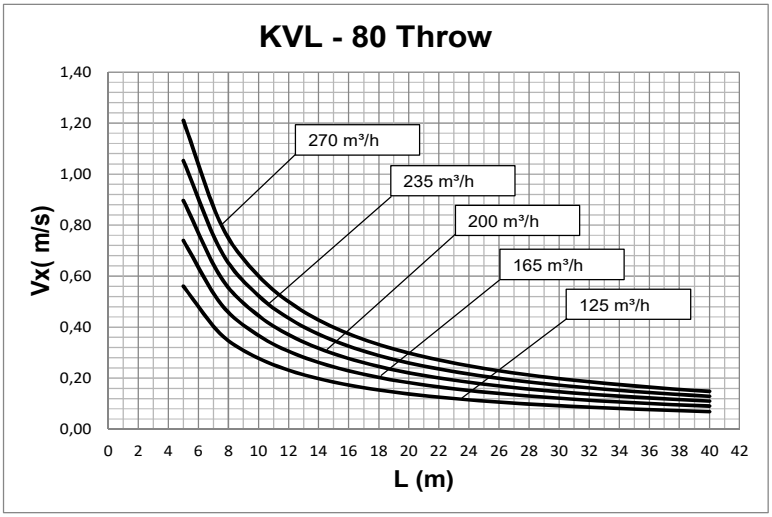
Front regulation damper must be fitted at the factory, not available aftermarket

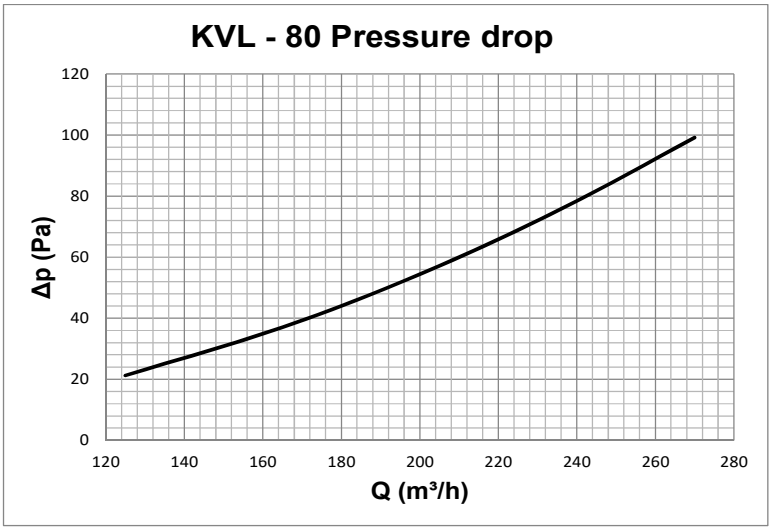


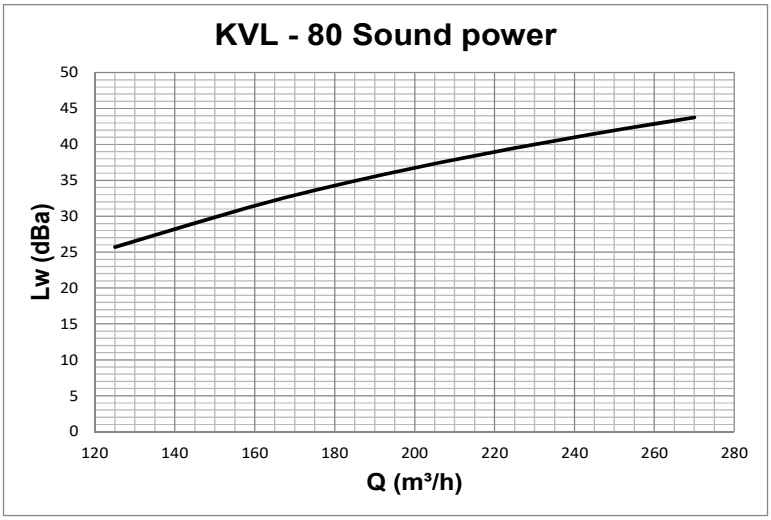
HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 80







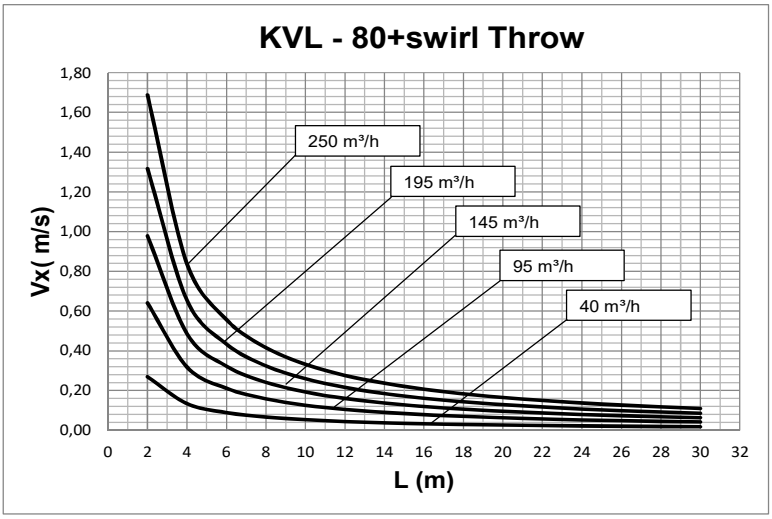
Values measured in isothermal conditions with diffuser placed horizontally in accordance with the following international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

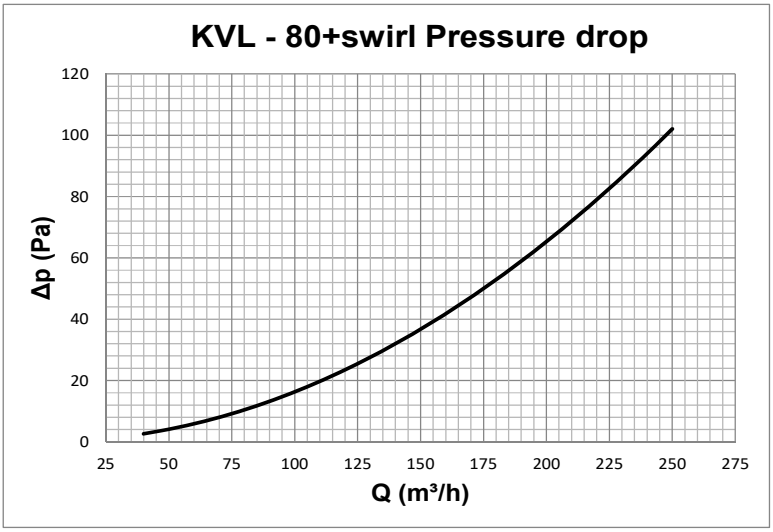
Data measured in reverberation room in accordance with international standards:
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*
ISO 5135 1997: *Acoustic - determination of sound power levels of noise from air-terminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.*
The shown data does not take into consideration the attenuation resulting from the surroundings where the diffuser is installed. Such attenuation is normally included between 6 and 10 dBa and is determined by the size of the surrounding space, its shape and the characteristics of the furniture and room fittings.

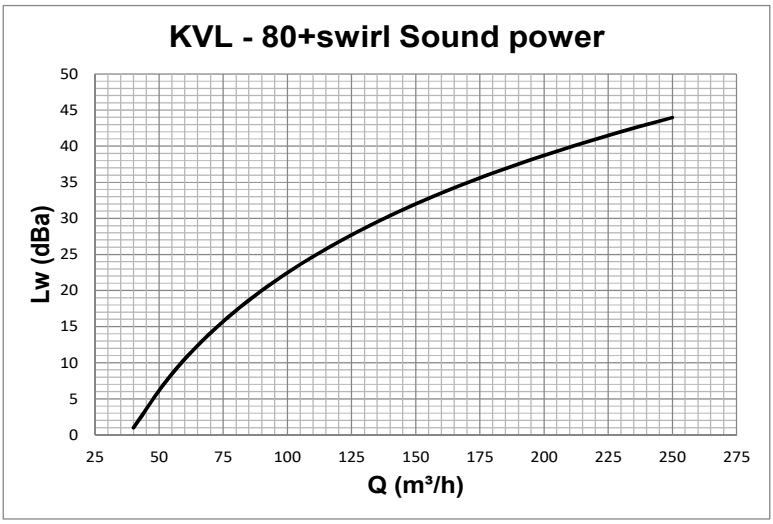
HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 80







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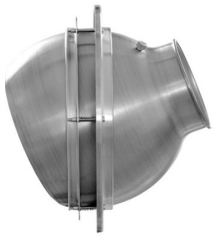
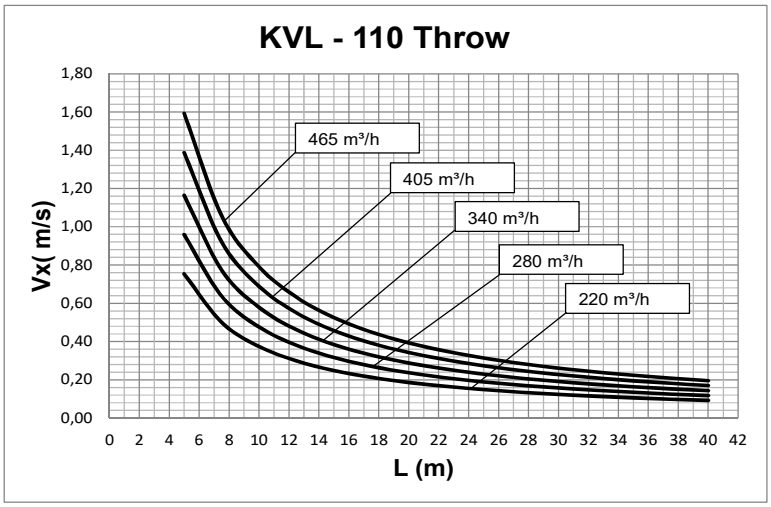
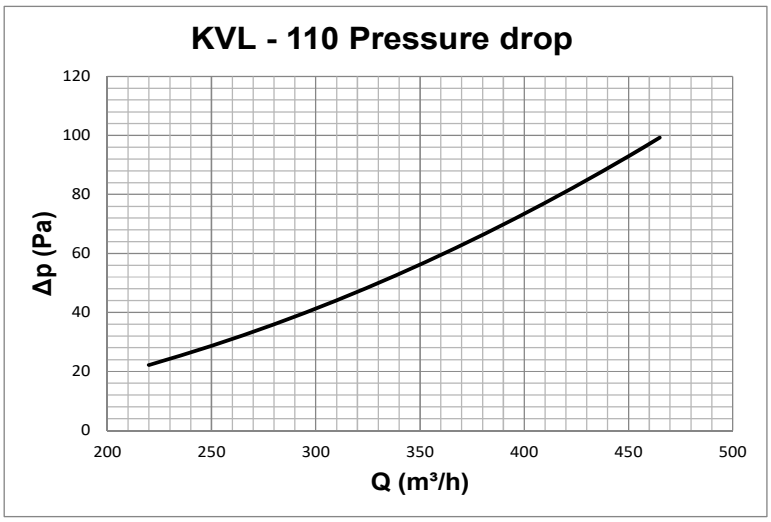


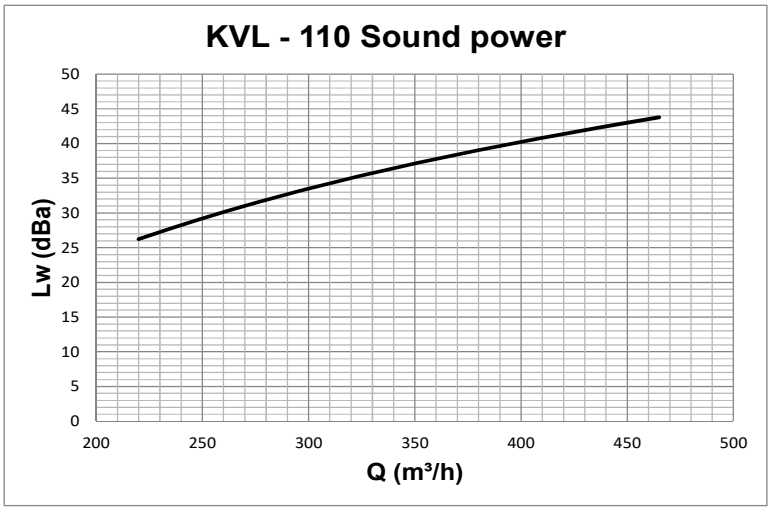
HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 110







Values measured in isothermal conditions with diffuser placed horizontally in accordance with the following international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

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*
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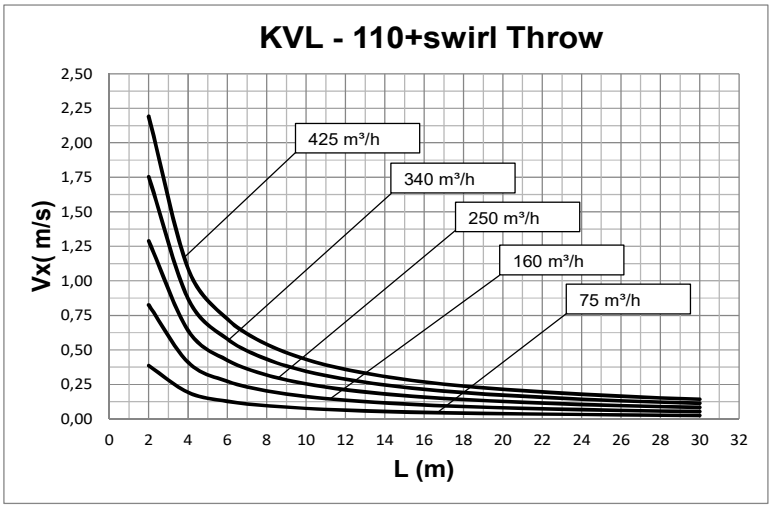
The shown data does not take into consideration the attenuation resulting from the surroundings where the diffuser is installed. Such attenuation is normally included between 6 and 10 dBa and is determined by the size of the surrounding space, its shape and the characteristics of the furniture and room fittings.

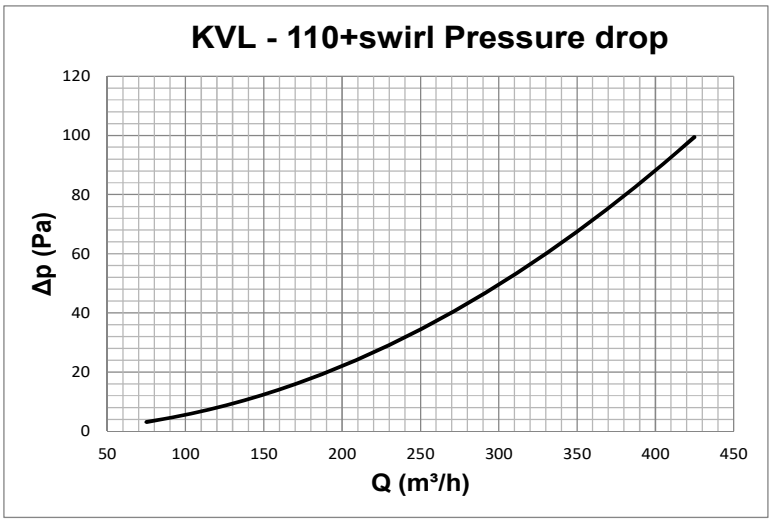
HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

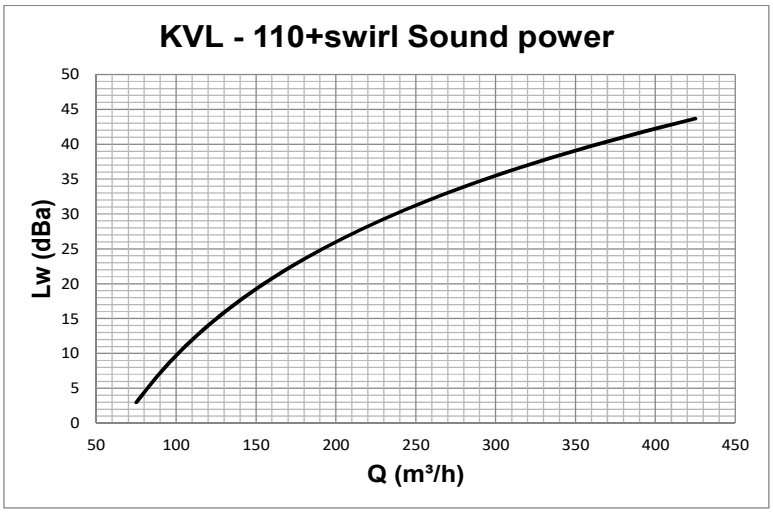
KVL
SERIES

PERFORMANCE
KVL 110

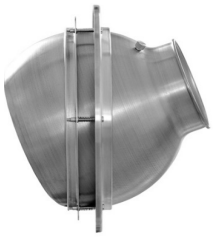


Values measured in isothermal conditions with diffuser placed horizontally in accordance with the following international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*





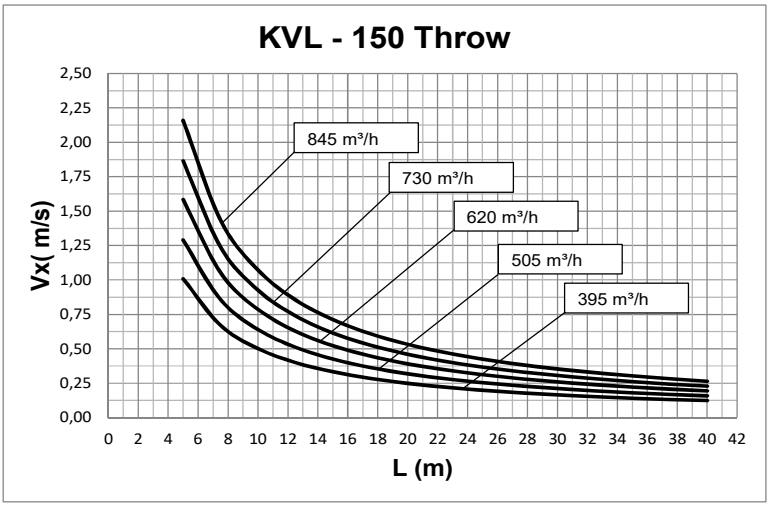
Data measured in reverberation room in accordance with international standards:
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*
ISO 5135 1997: *Acoustic - determination of sound power levels of noise from air-terminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.*
The shown data does not take into consideration the attenuation resulting from the surroundings where the diffuser is installed. Such attenuation is normally included between 6 and 10 dBa and is determined by the size of the surrounding space, its shape and the characteristics of the furniture and room fittings.

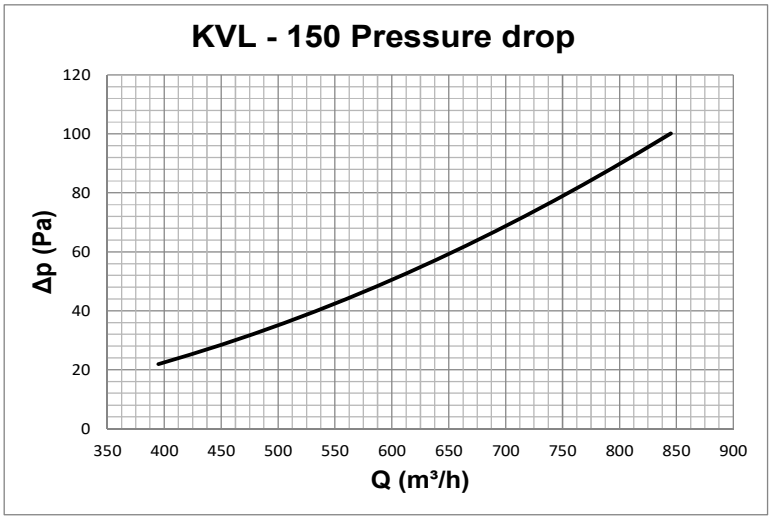


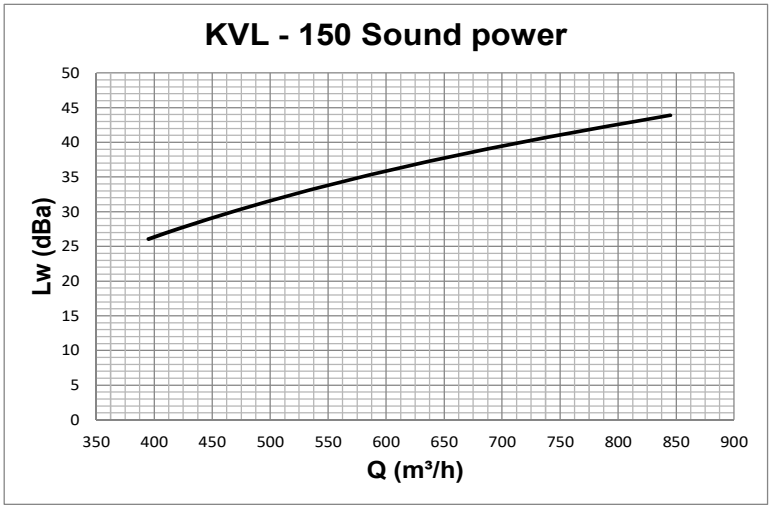
HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 150







Values measured in isothermal conditions with diffuser placed horizontally in accordance with the following international standard:
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Data measured in reverberation room in accordance with international standards:
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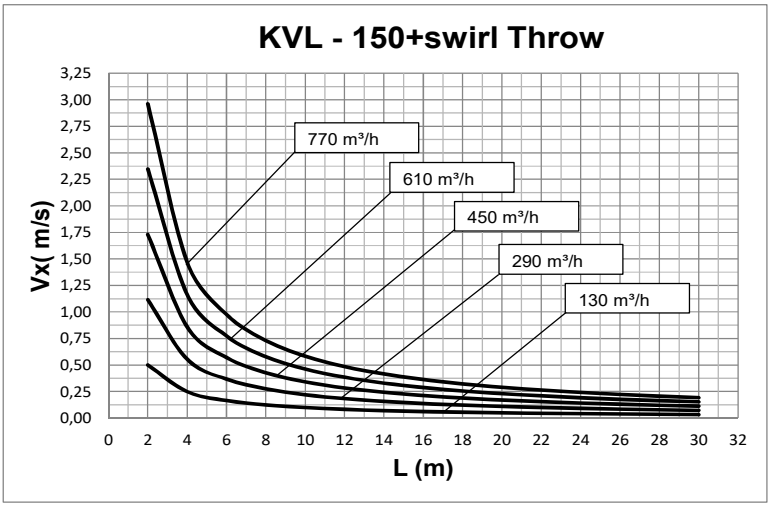
HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 150



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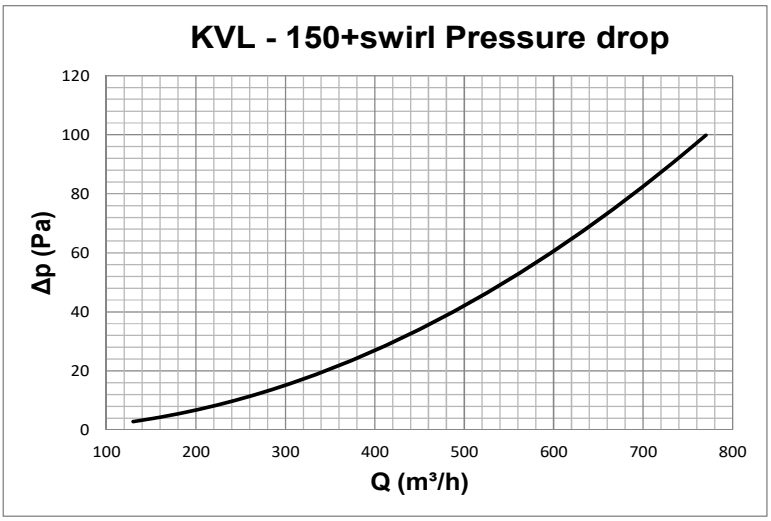

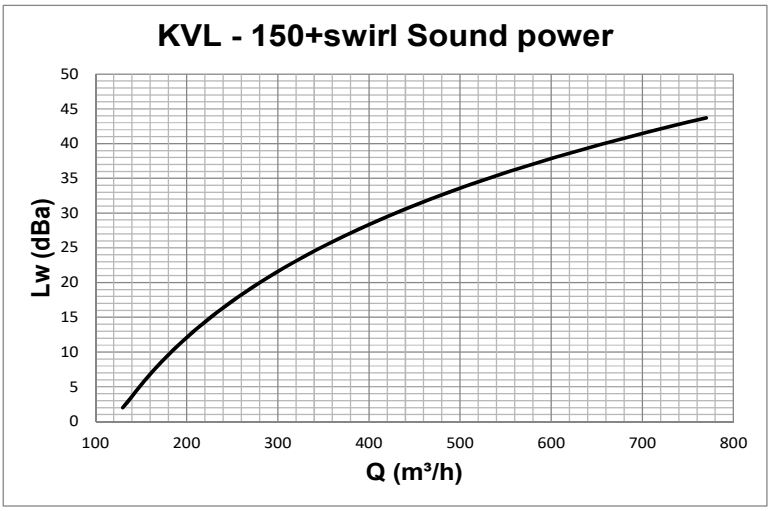

Data measured in reverberation room in accordance with international standards:
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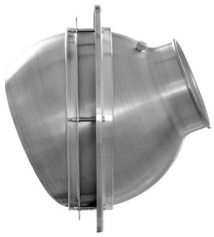
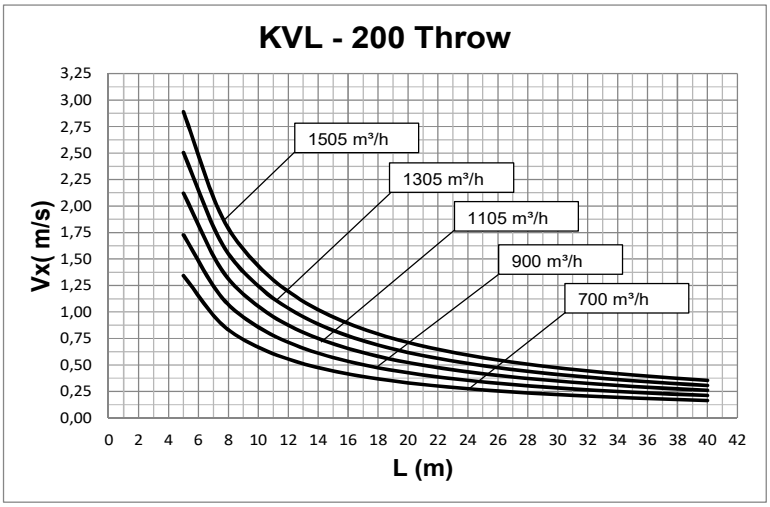


HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 200



Values measured in isothermal conditions with diffuser placed horizontally in accordance with the following international standard:
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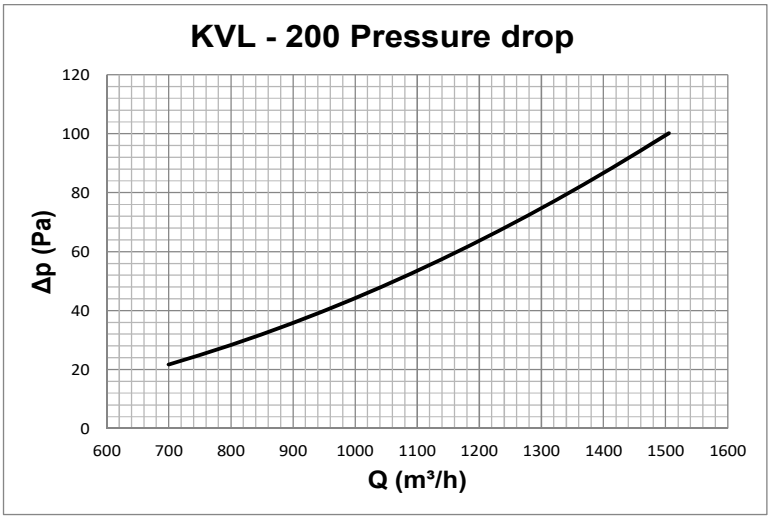

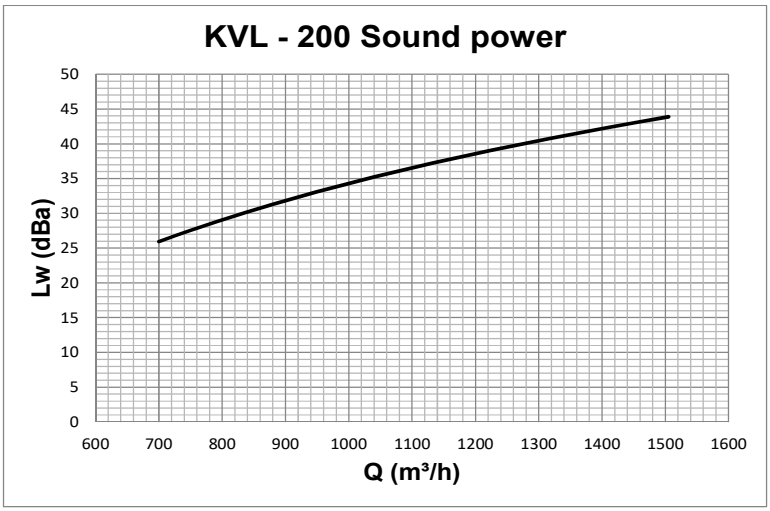

Data measured in reverberation room in accordance with international standards:
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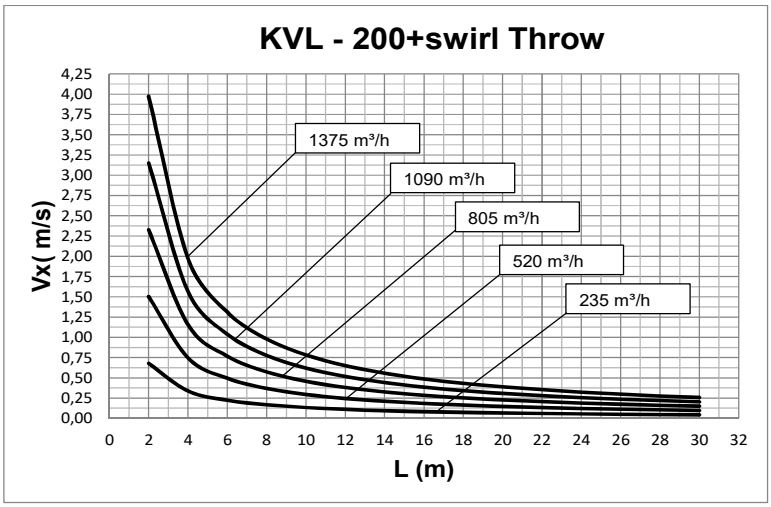
HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 200



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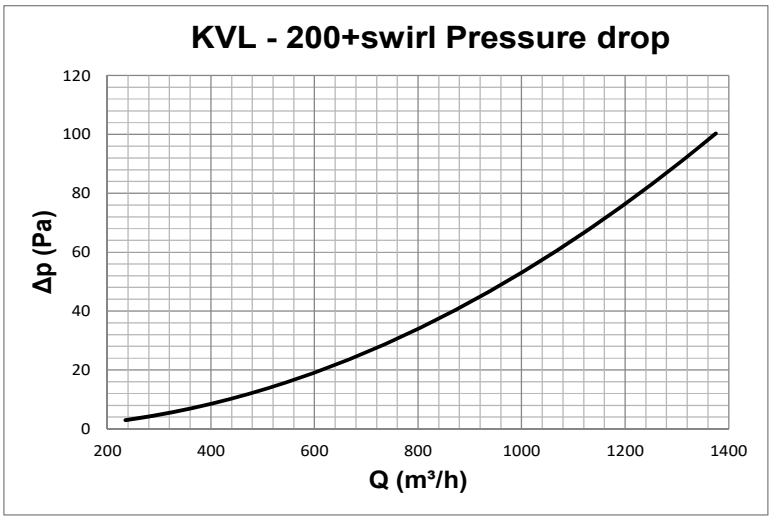

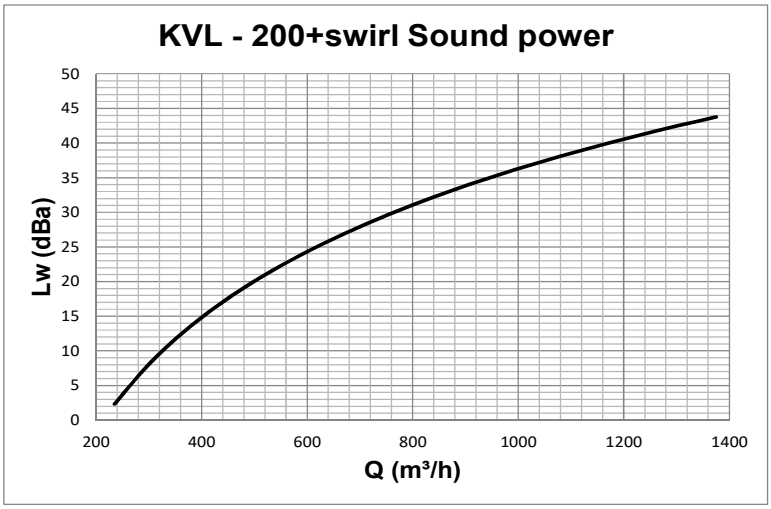

Data measured in reverberation room in accordance with international standards:
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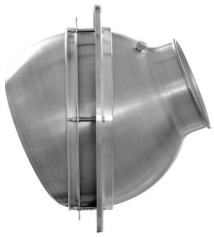
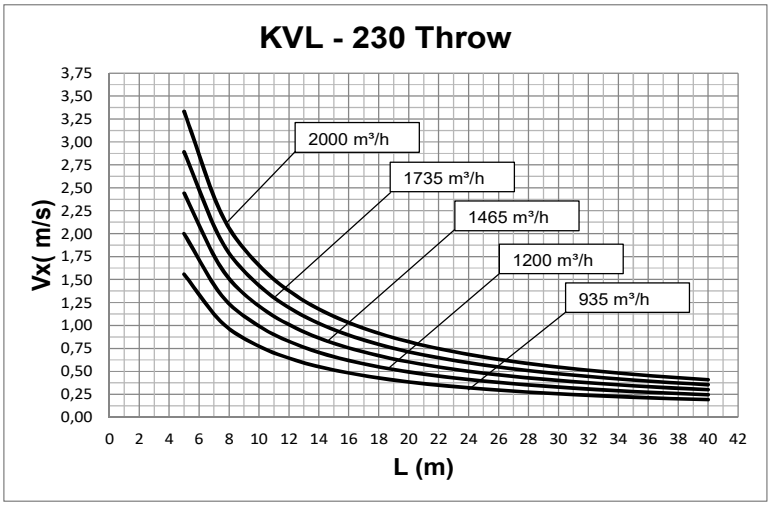


HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 230



Values measured in isothermal conditions with diffuser placed horizontally in accordance with the following international standard:
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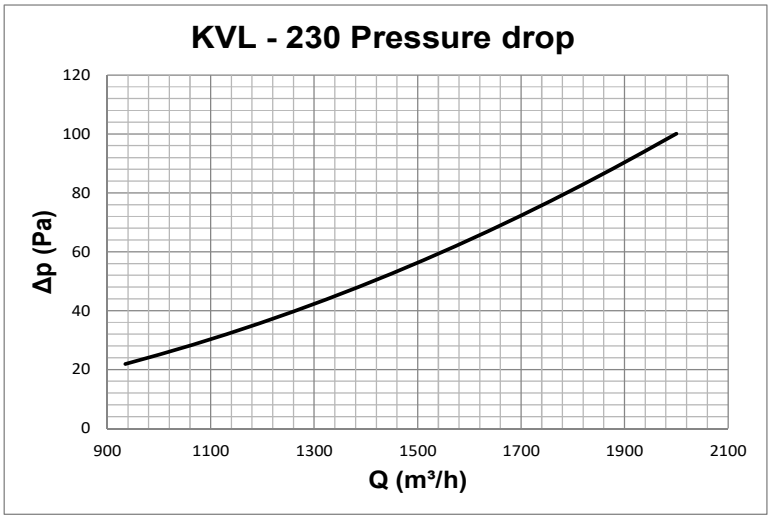

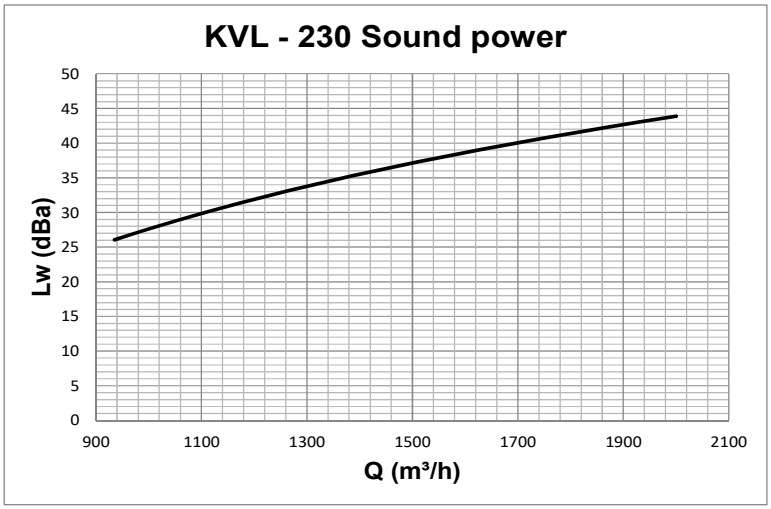

Data measured in reverberation room in accordance with international standards:
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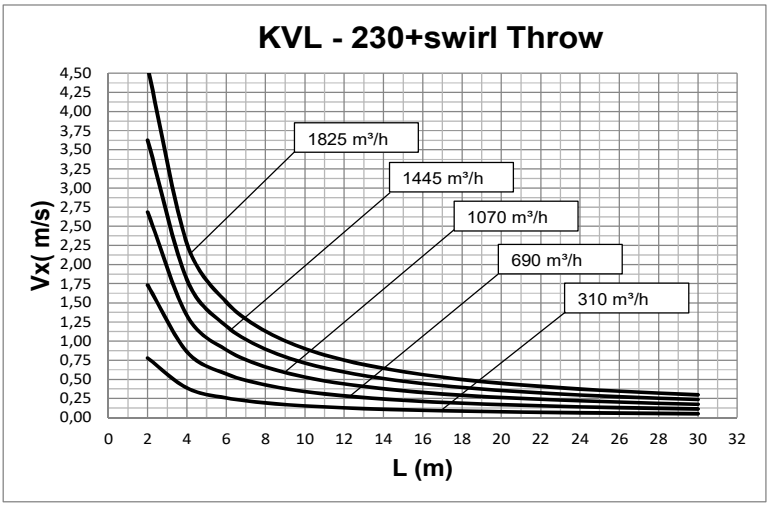
HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 230



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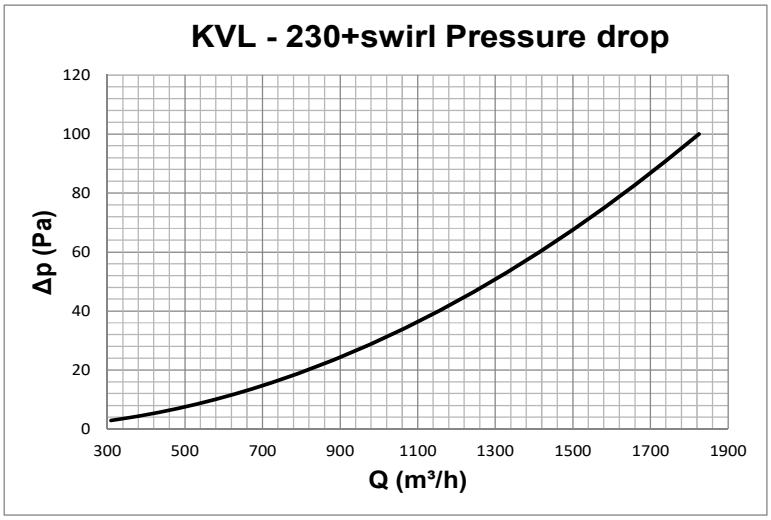

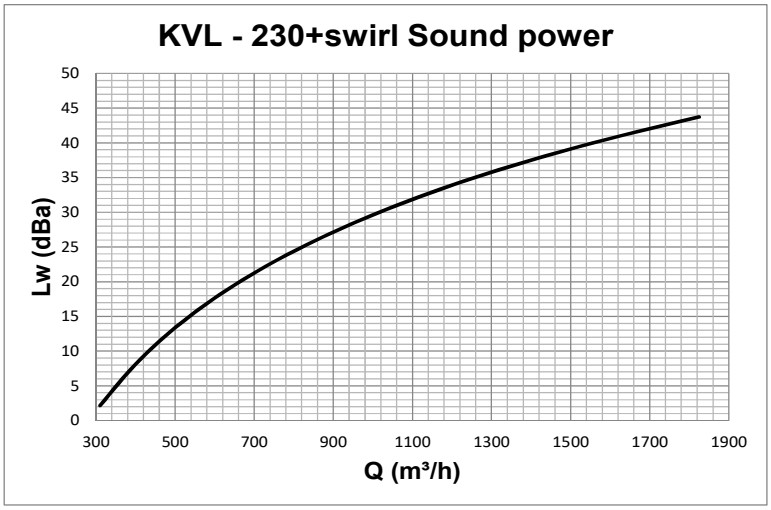

Data measured in reverberation room in accordance with international standards:
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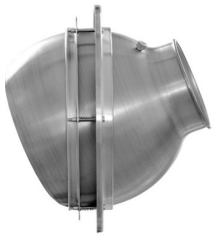
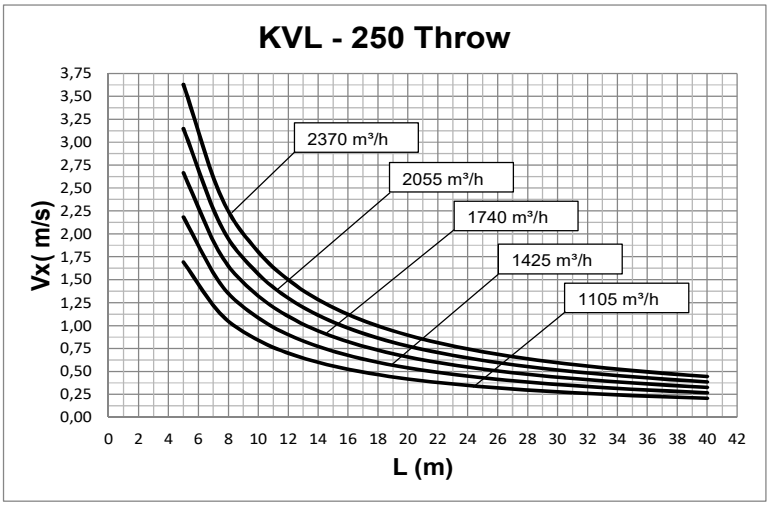


HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 250



Values measured in isothermal conditions with diffuser placed horizontally in accordance with the following international standard:
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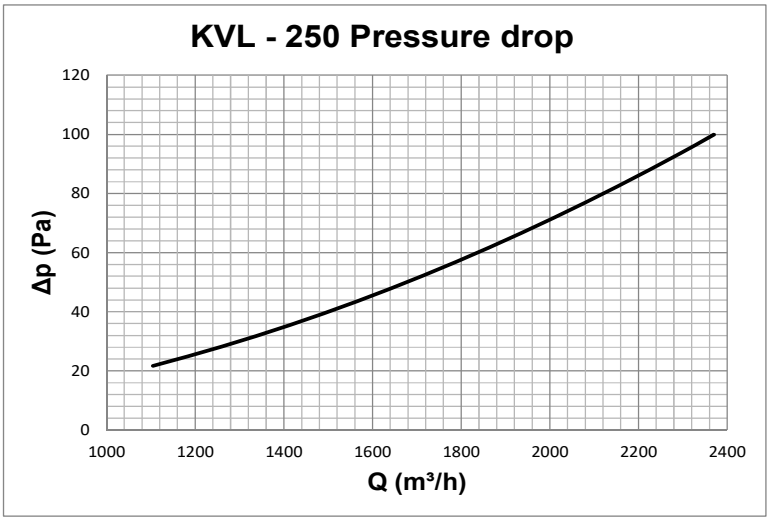

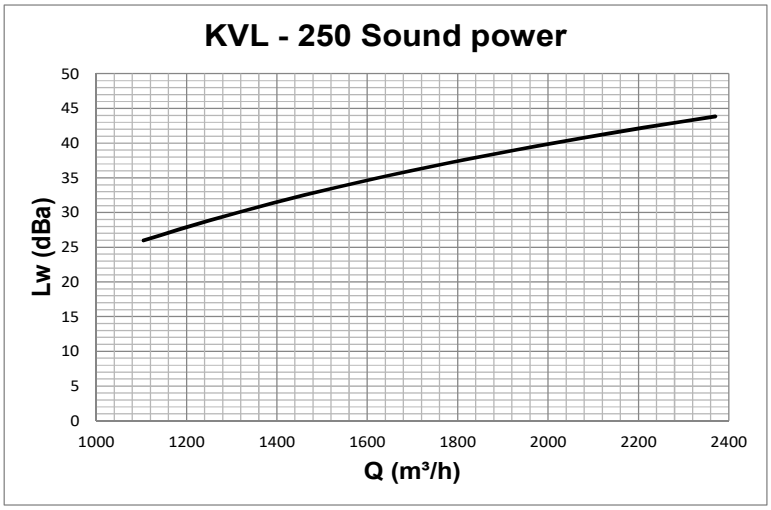

Data measured in reverberation room in accordance with international standards:
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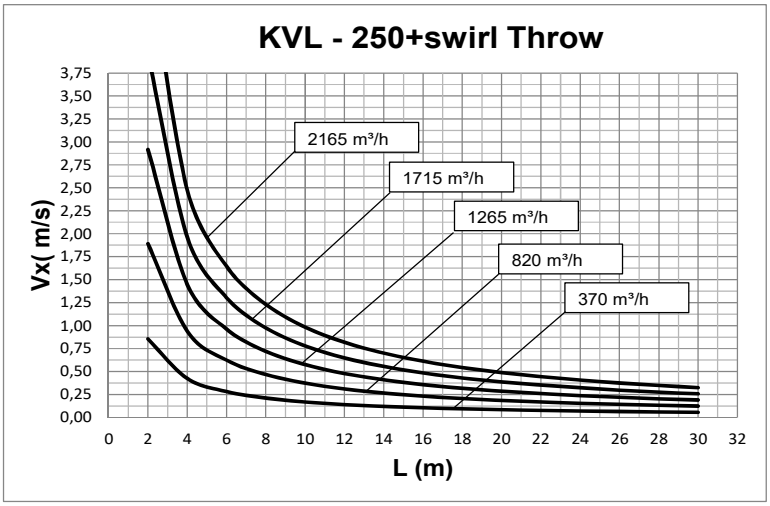
HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 250



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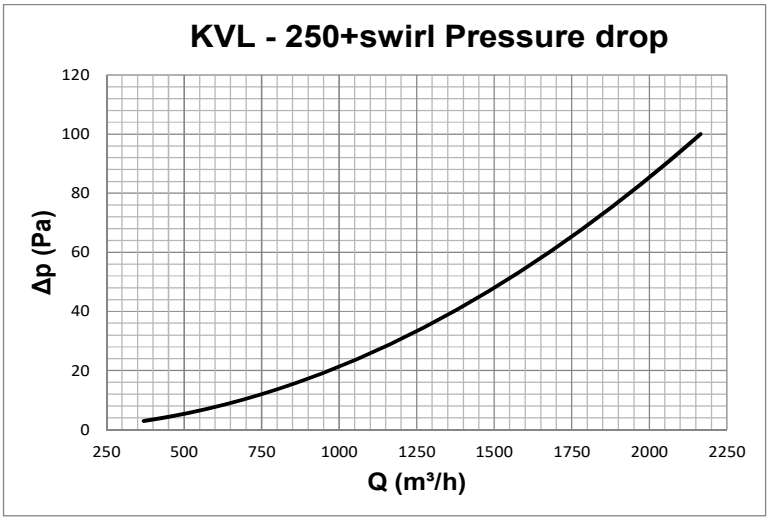

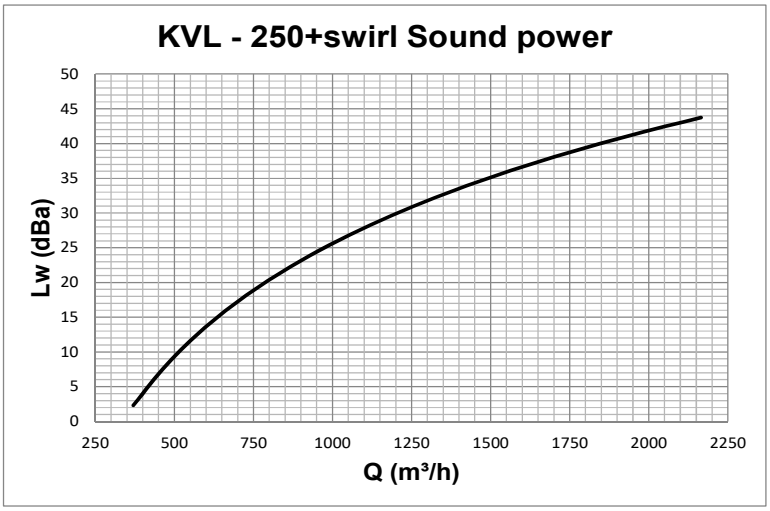

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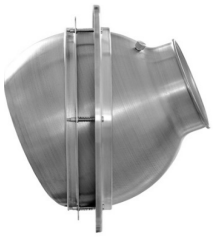
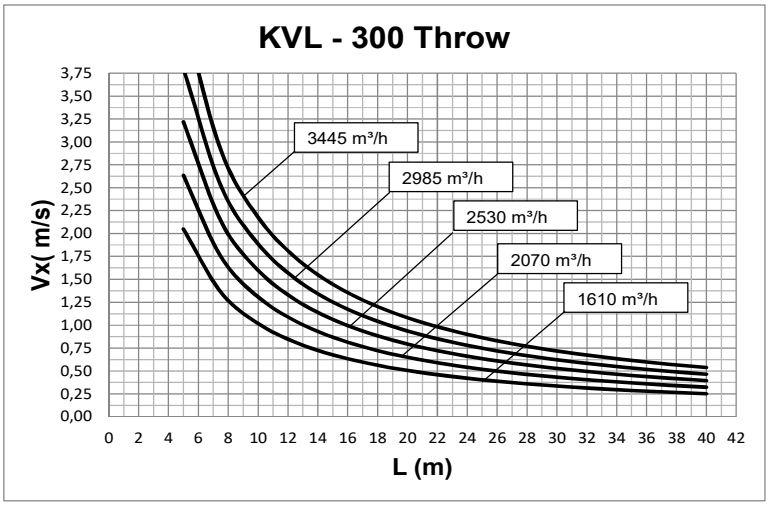


HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 300



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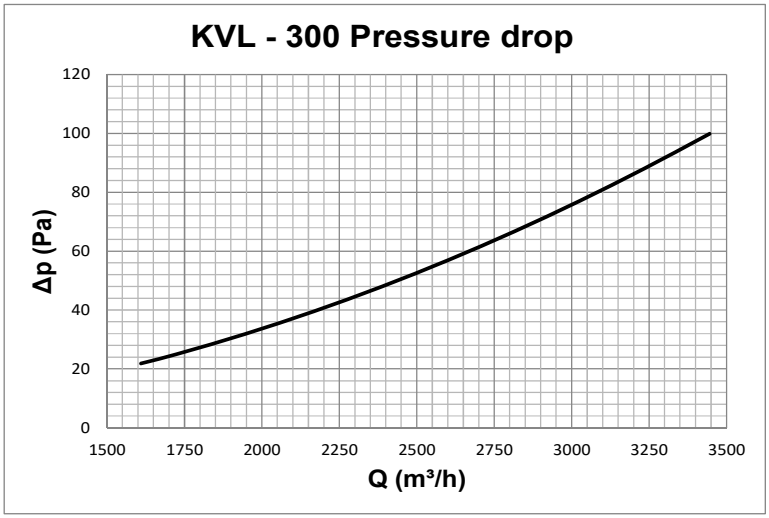

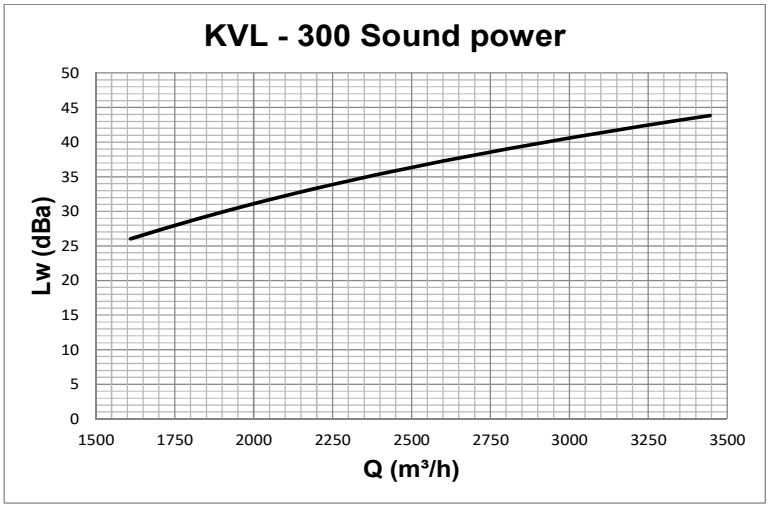

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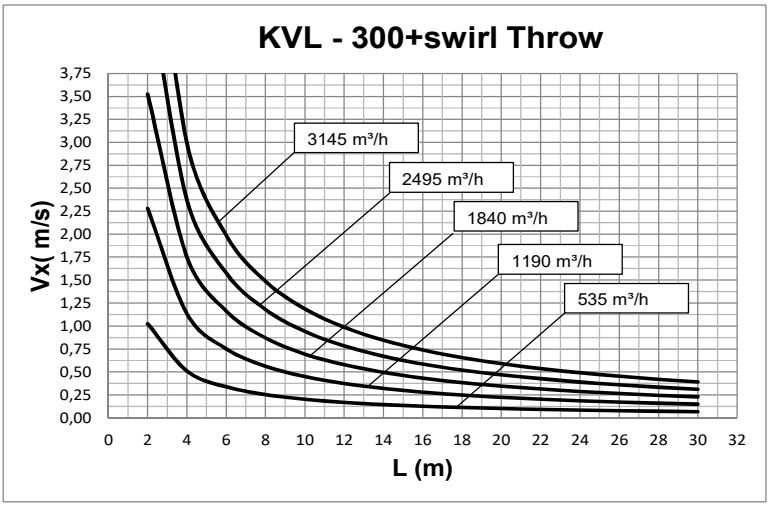
HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

PERFORMANCE
KVL 300



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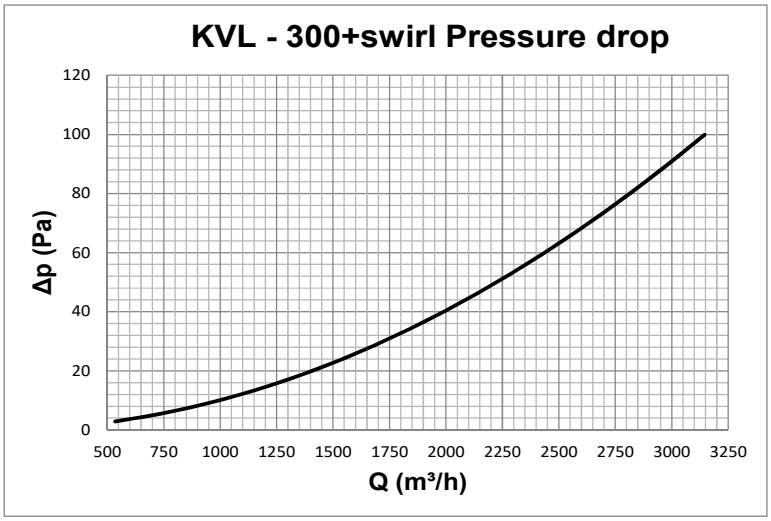

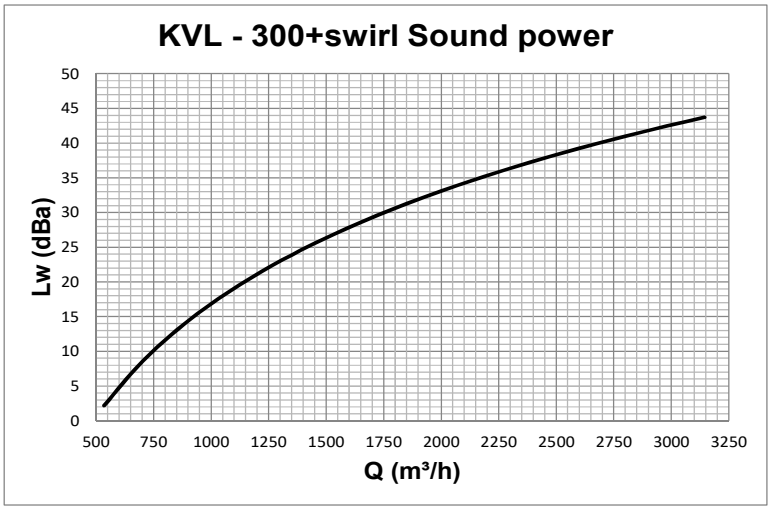

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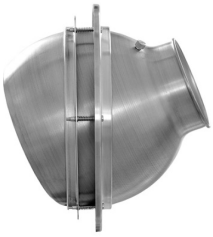


HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

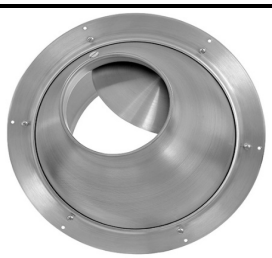
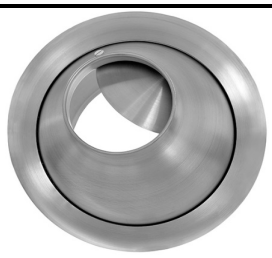
KVL
SERIES

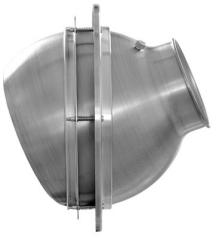
how to order

KV		Long throw diffusers
	--	standard
	1	adapted for external motor
	2	adapted for internalternal motor
	CT	with thermostatic control
size		
	L	with extended exit
	--	without front damper (*)
	S	with front damper (*)
	--	natural aluminium
	R	painted RAL 9010

KV CT 150 L S R

(*) Front regulation damper must be fitted at the factory, not available aftermarket

			
KV ... L version without front damper	KV ... L version without front damper with cover screws flange	KV ... LS version with front damper	KV ... LS + KV-C ... version with front damper with cover screws flange



HIGH INDUCTION LONG THROW DIFFUSERS FOR DEEP JET

KVL
SERIES

accessories

Model	Cover screws flange		Connector	
	Anodized	RAL 9010	Circular duct	Flexible duct
KV080L	KV-C80	KVR-C80	KV-RC80*	KV-RF80
KV110L	KV-C110	KVR-C110	KV-RC110*	KV-RF110
KV150L	KV-C150	KVR-C150	KV-RC150*	KV-RF150
KV200L	KV-C200	KVR-C200	KV-RC200*	KV-RF200
KV230L	KV-C230	KVR-C230	KV-RC230*	KV-RF230
KV250L	KV-C230	KVR-C230	KV-RC230*	KV-RF230
KV300L	KV-C230	KVR-C230	KV-RC230*	KV-RF230

* when ordering, it is important to speify the duct diameter required

Model	Regulation damper		Swirl deflector	
KV80L	KV-S080		KV-T080	
KV110L	KV-S110		KV-T110	
KV150L	KV-S150		KV-T150	
KV200L	KV-S200		KV-T200	
KV230L	KV-S230		KV-T230	

Model	ON / OFF MOTOR		PROPORTIONAL MOTOR	
	24V	230V	24V	230V
KV1-80L KV2-80L	CM24-L	CM230-1-L	CM24-SR-L	~~~~~~~~~~~~~
KV1-110L KV2-110L	NM24 A	NM230 A	NM24 A SR	NM230 A SR
KV1-150L KV2-150L	NM24 A	NM230 A	NM24 A SR	NM230 A SR
KV1-200L KV2-200L	NM24 A	NM230 A	NM24 A SR	NM230 A SR
KV1-230L KV2-230L	NM24 A	NM230 A	NM24 A SR	NM230 A SR