HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

OVERVIEW

KLN: series linear diffusers designed to manage high air flows with minimum pressure drop and generated noise.
They allow to fully make us of the induction principle, guaranteeing optimum comfort conditions, no noticeable air currents and temperature uniformity, even in large areas by positioning the diffusers along the perimeter of the ceiling.

The big innovation on the KLN series is the double flow deflector system: for horizontal throw two settings are available and fully adjustable on constrcution site. The first setting allow supply air horizontally with a big ceiling effect, while the second setting still allow horizontal air supply but for biggest air flow and low pressure loss and noise level.

CHARACTERISTICS AND OPERATION
The KLN series diffusers are constructed from an aluminium diffuser body lots and a series of deflectors, also in aluminium, for the horizontal or vertical air though. The change of direction of the air through can be easily made without removing the diffuser.

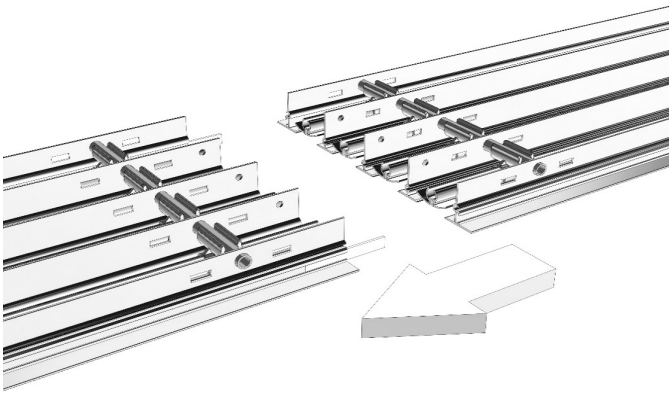
APPLICATIONS
The KLN series diffusers are ideal in application with a ceiling height between 3 and 6 meters like open space offices, commercial galleries hospital wards or hotel rooms.

VERSIONS
Standard, with or without filter holder
Fineline, with or without filter holder
Fitted, without filter holder
With panel, with or without filter holder

DIFFUSER INSTALLATION:
The KLN series diffusers are installed inside special plenum boxes, by suspension using quick fix connectors.
This solution allows a quick installation even at the end of work carried out on the building site.
Possibilty of installation in continuos lines.

FINISH :
The KLN diffusers are constructed from an aluminium body anodized or painted white RAL 9010.
The deflectors cam be anodized, painted white RAL 9010 or black painted.
The KLN diffusers with panel are constructed from an aluminium body and a carbon steel panel .
Special finishes for the diffuser body can be made 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.



installation in continuos lines

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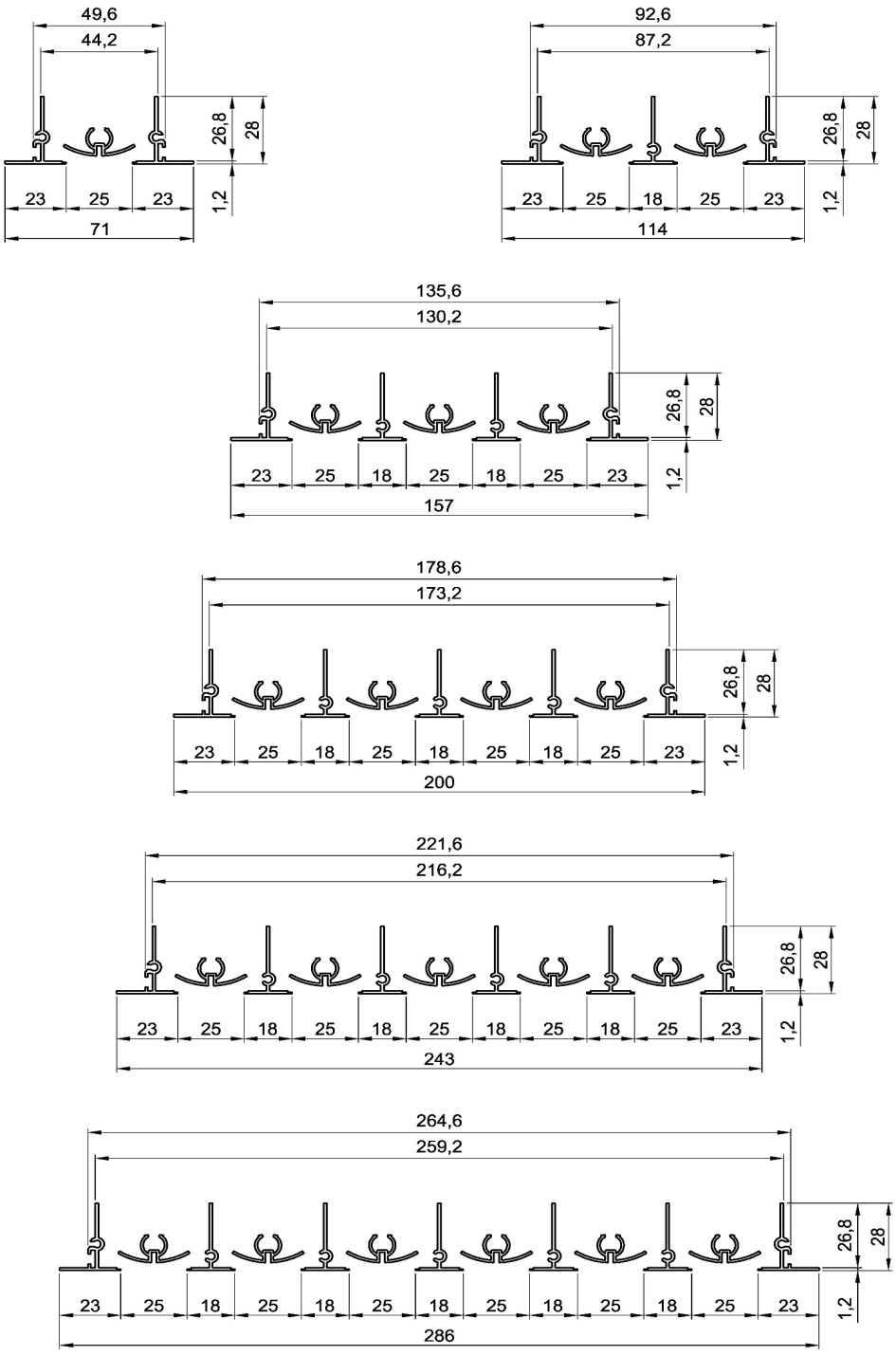
OVERALL SIZES



Ak Effective area for diffuser L=1 m (m²)						
	1 slot	2 slots	3 slots	4 slots	5 slots	6 slots
Horizontal throw high Coandă effect	0,00944	0,01888	0,02832	0,03776	0,04720	0,05664
Horizontal throw high air flow	0,01544	0,03088	0,04632	0,06176	0,0772	0,09264
Vertical throw	0,01500	0,03000	0,04500	0,06000	0,07500	0,09000

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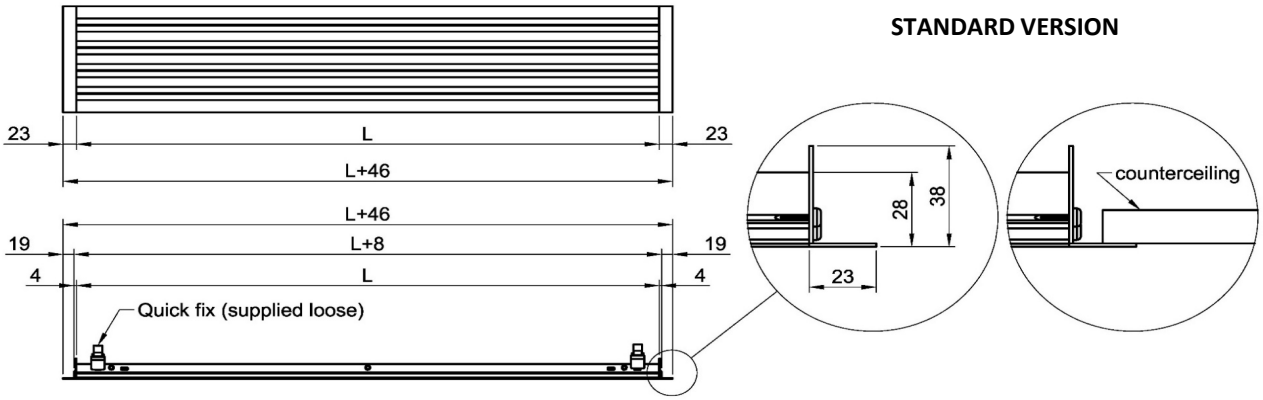
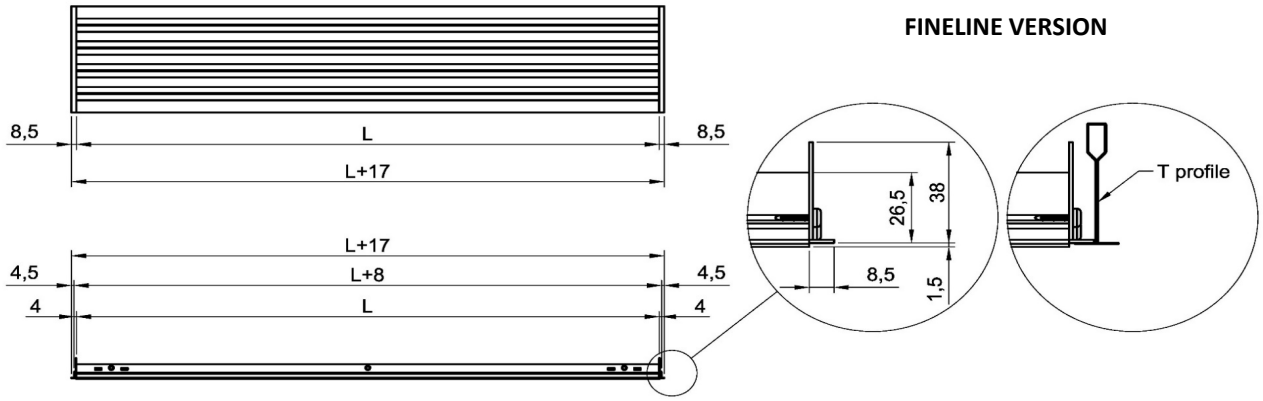
VERSIONS

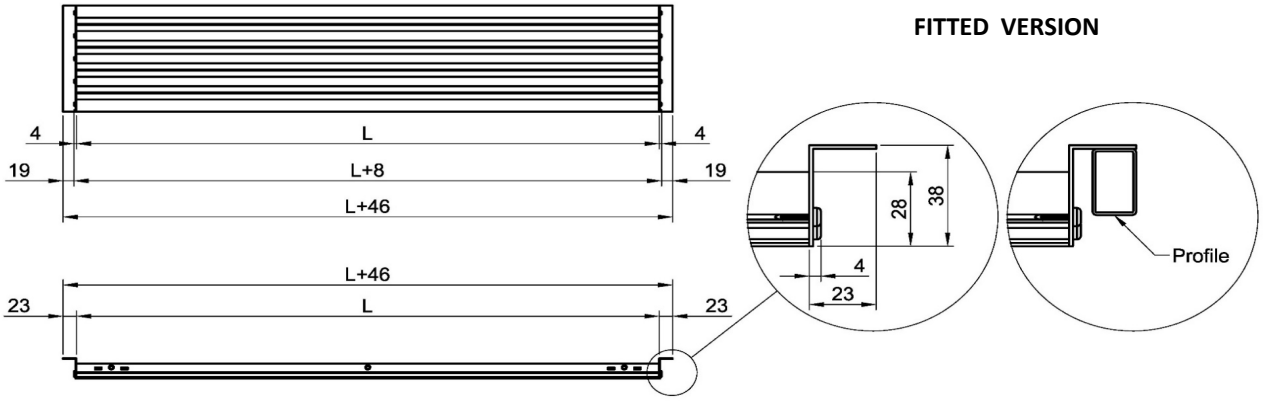
STANDARD VERSION

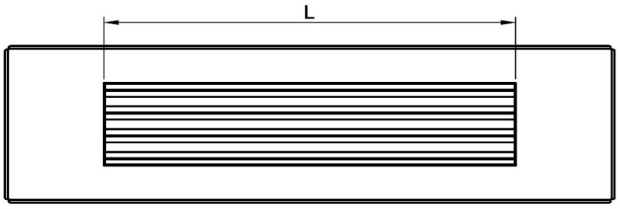


FINELINE VERSION



FITTED VERSION





VERSION WITH PANEL
Plenum P94B - plenum fixing with rivets
Dimensions of the panel on request

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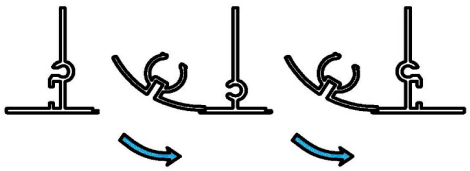
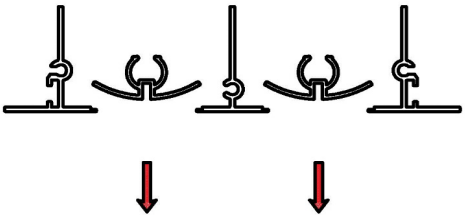
SETTING

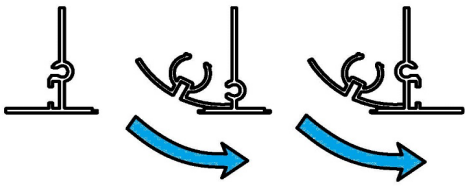
Horizontal throw configuration
for high Coandă effect
The throw moves along the ceiling
It guarantees the complete absence of air currents both in heating and cooling.



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



Horizontal throw configuration
for high air flow
The throw moves along the ceiling
It guarantees the possibility of supply high air flow with minimal levels of pressure drop and spund power



CHOICE OF AIR THROW ORIENTATION :
The horizontal throw represents the most common use of this type of diffuser, both for heating and cooling. The throw follows the ceiling and expands horizontally within the room. This generates a vertical recall of air present in the room, guaranteeing a perfect mixture of air without the presence of air currents within the occupied area.
The vertical throw, used when heating, allows to send the hot air directly within the occupied area to hinder the formation of layers of hot air in higher parts of the room caused by the lesser density.
The change of orientation of the air throw is obtained by rotating the deflector blade from an inclined position to a horizontal one, and vice versa.
The deflector is rotated from within the diffuser, with the use of a leaver at both extremities of the air slot.

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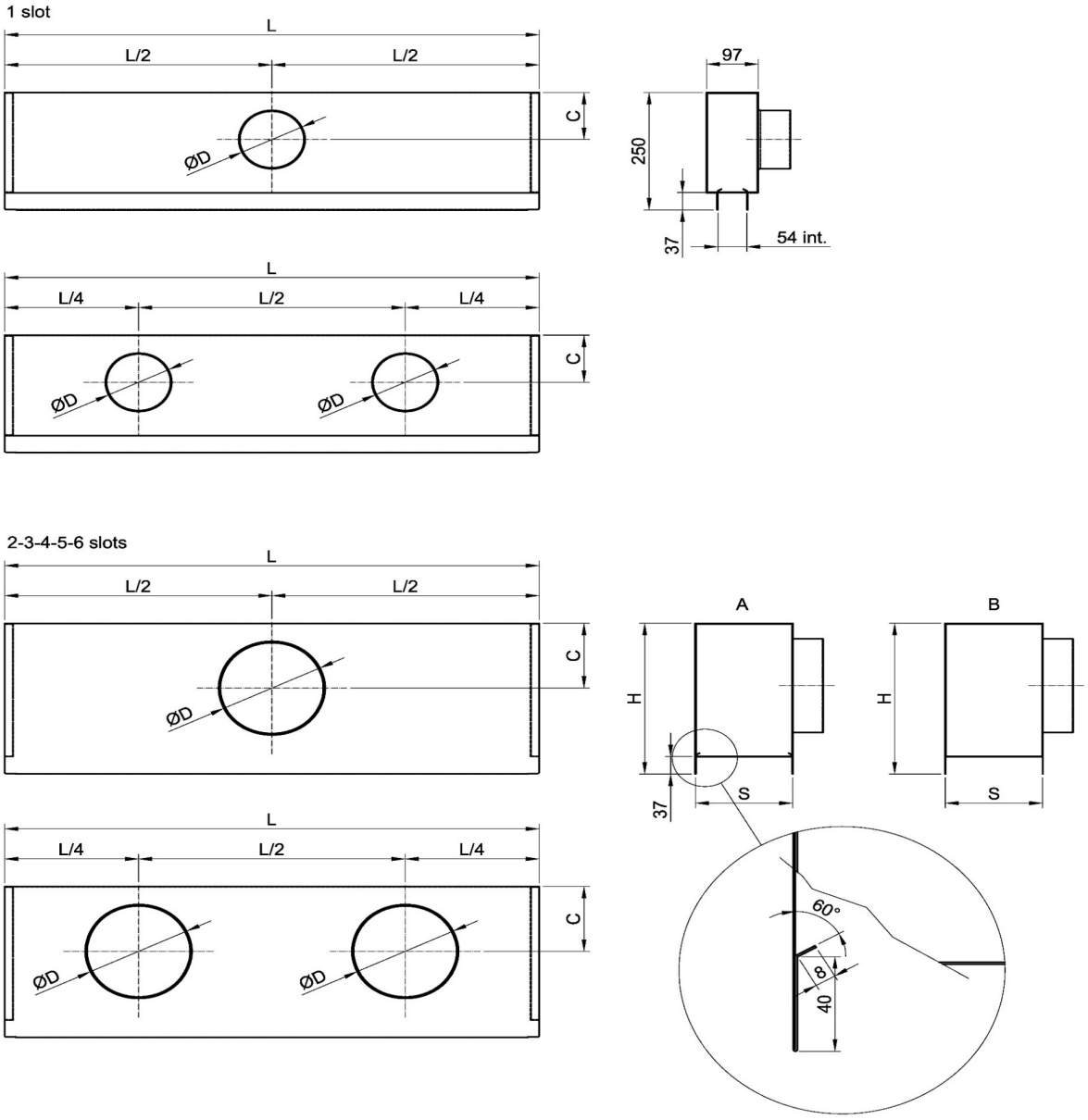
PLENUM



L Nominal length of the diffuser
A Version for installation with quick fix connectors (standard version without filter holder)
B Version for installation with rivets (filter holder, fineline, fitted and with panel versions)

				L ≤ 1200 mm		1201≤ L ≤ 2000 mm		Holes in the counterceiling KLN standard version
Slots	H (mm)	S (mm)	C (mm)	connector qty	ØD (mm)	connector qty	ØD (mm)	
1	250	54	100	1	124	2	124	L+15 x 61
2	250	95	115	1	158	2	158	L+15 x 104
3	320	138	135	1	198	2	198	L+15 x 147
4	320	181	135	1	198	2	198	L+15 x 190
5	370	224	160	1	248	2	248	L+15 x 233
6	370	267	160	1	248	2	248	L+15 x 276

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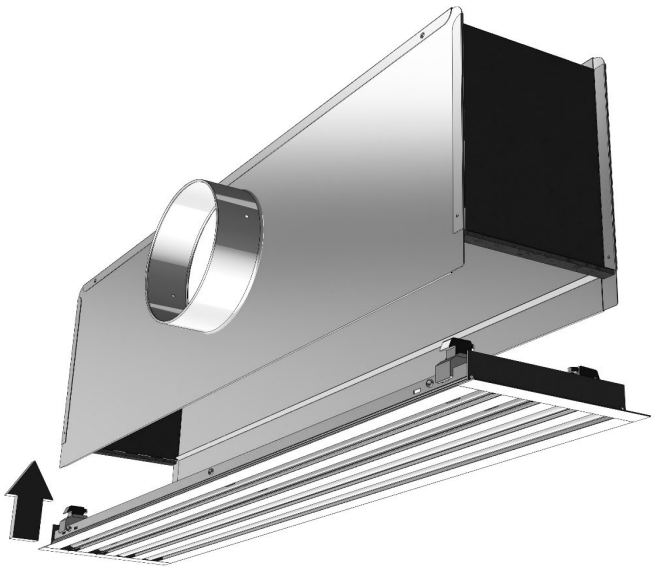
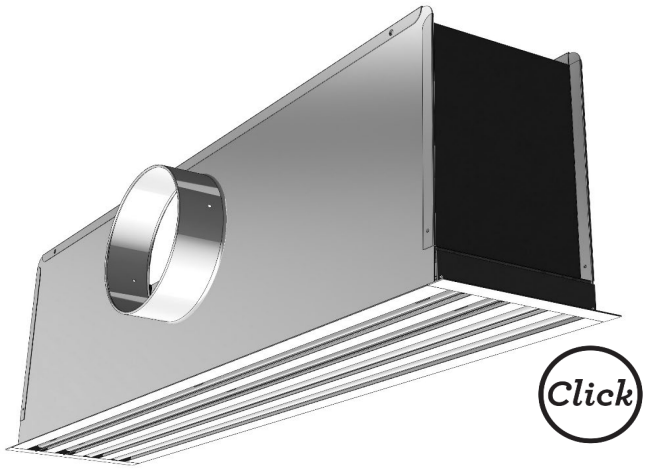
INSTALLATION
WITH QUICK FIX CONNECTORS
STANDARD DIFFUSER

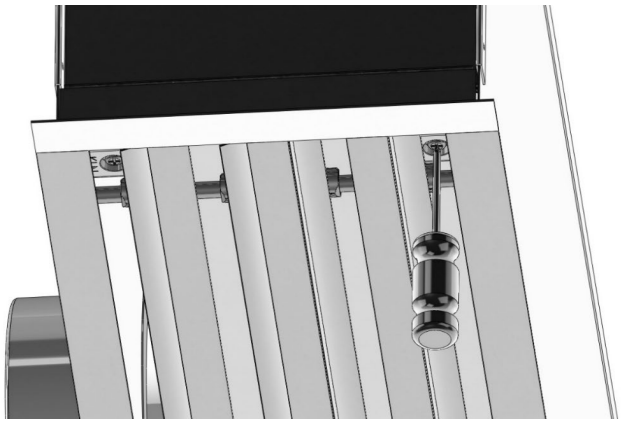


Insert the diffuser into the plenum

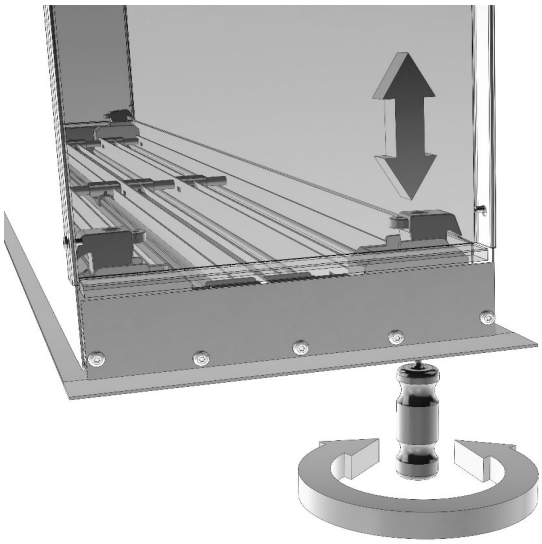


The diffuser will remain suspended

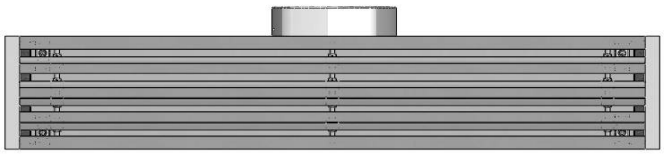
Open the deflectors



Insert a screwdriver



Tight the screws of the quick fix connectors



All done

One slot diffuser
Length up to 1500mm: 2 quick-fixes
Length over 1500mm: 4 quick-fixes

Diffuser with 2-3-4-5-6 slots
Length up to 1500mm: 4 quick-fixes
Length over 1500mm: 6 quick-fixes

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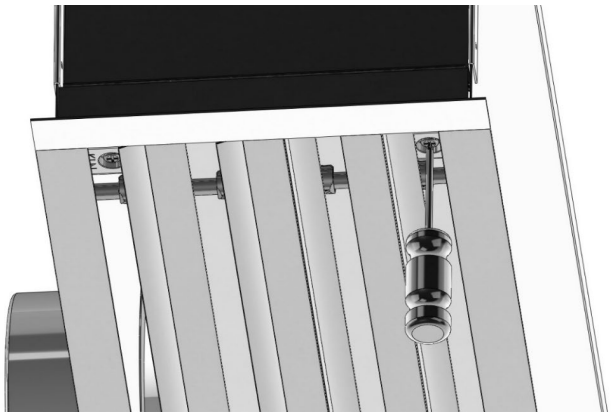
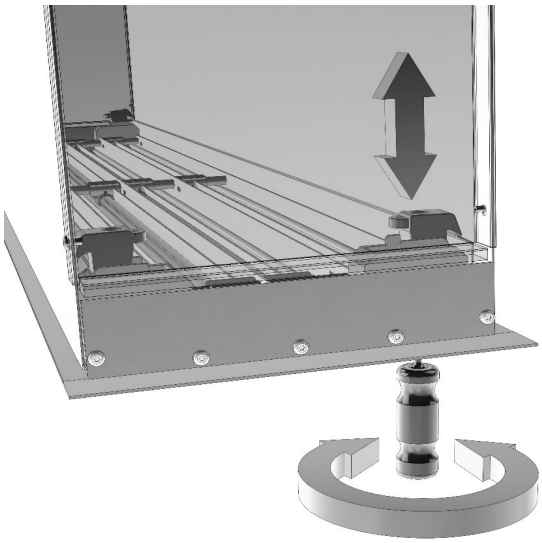
REMOVE THE DIFFUSER
FIXED WITH QUICK FIX CONNECTORS
STANDARD DIFFUSER

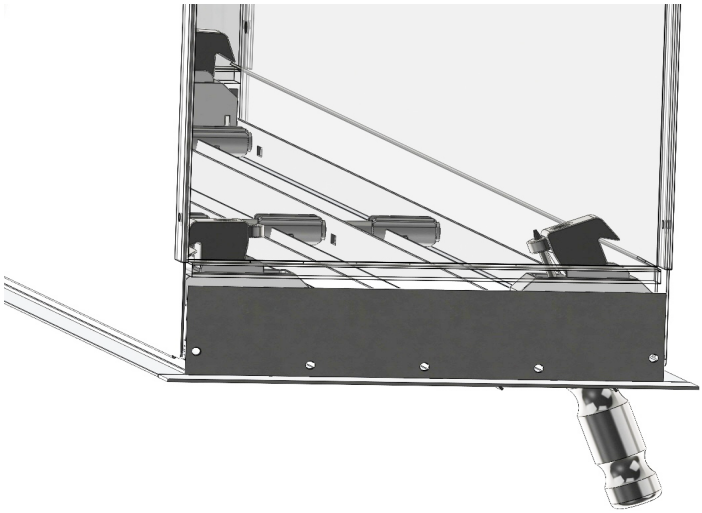
Open the deflectors



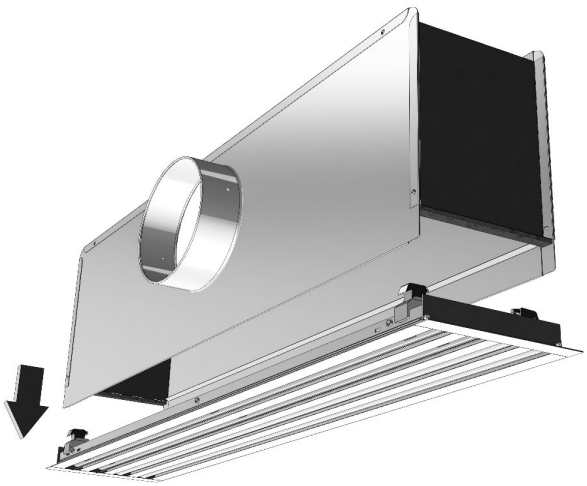
Insert a screwdriver



Loose the screws



Off-hook using the screwdriver



Estract the diffuser

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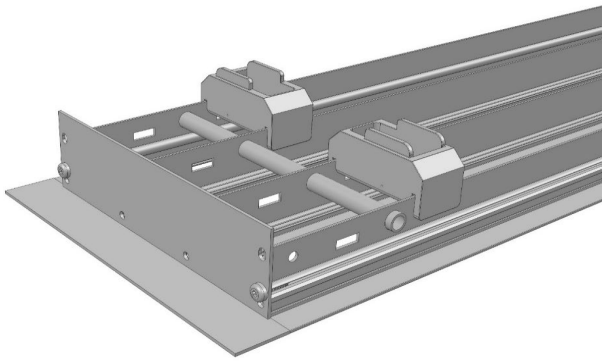
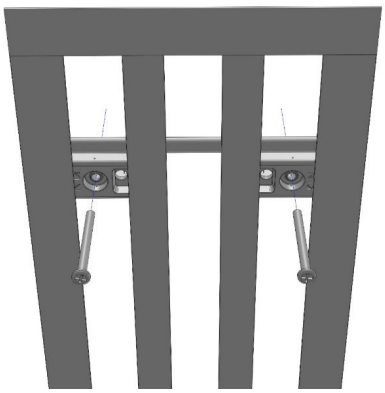
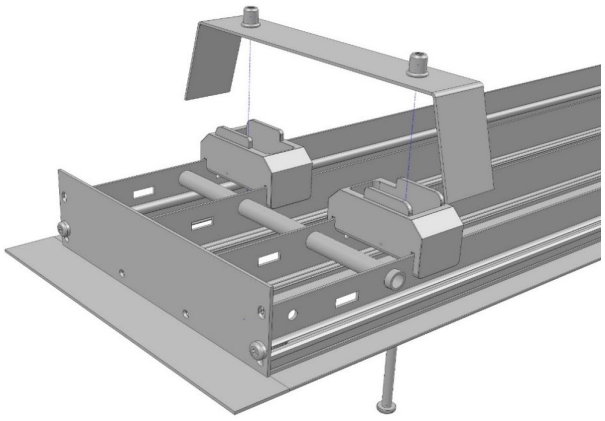
INSTALLATION
IN PALSTERBOARD COUNTERCEILING
STANDARD DIFFUSER WITHOUT PLENUM



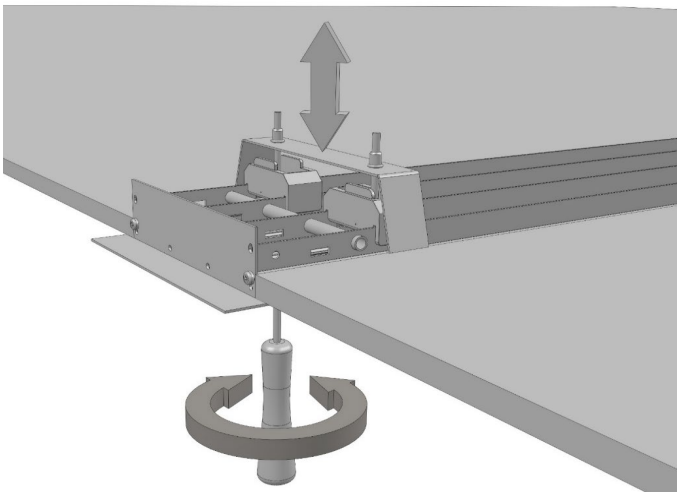
Fix the plastic elements



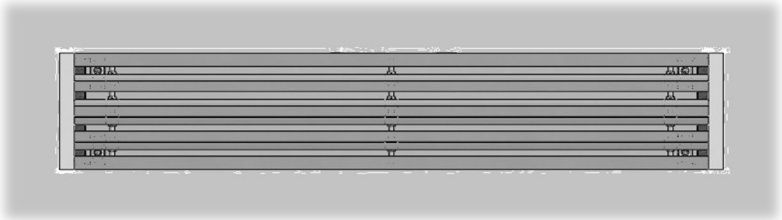
Insert the screws



Fix the metallic bridge



Insert the diffuser into the counterceiling and tight the screws



All done

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LINEAR SLOT DIFFUSERS

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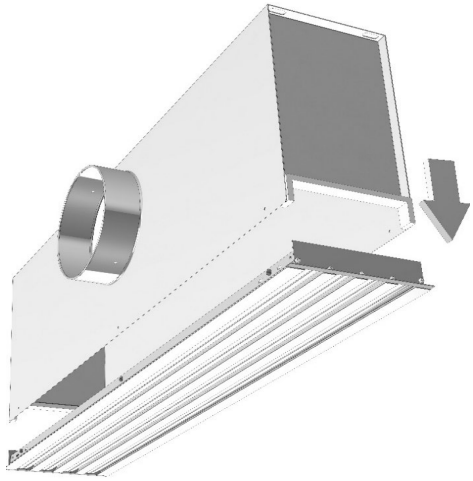
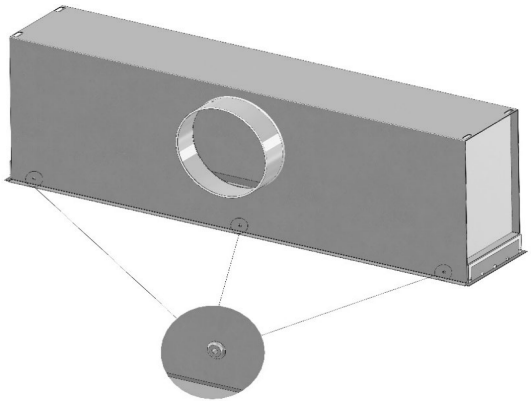
INSTALLATION
WITH RIVETS

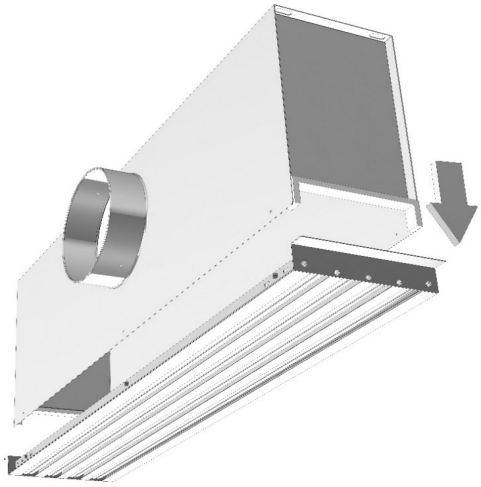
FINELINE VERSION

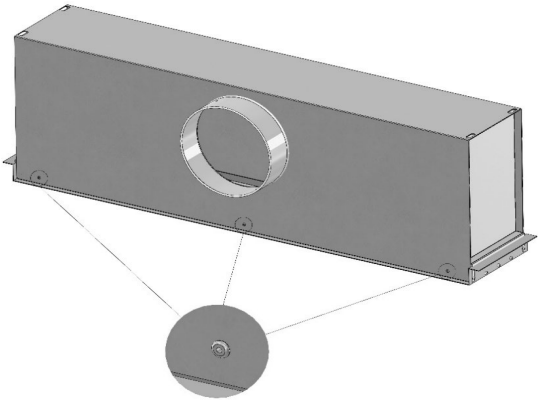




Fix both sides with rivets Ø4,8x10
aligning them with each pipe placed on the diffuser frame

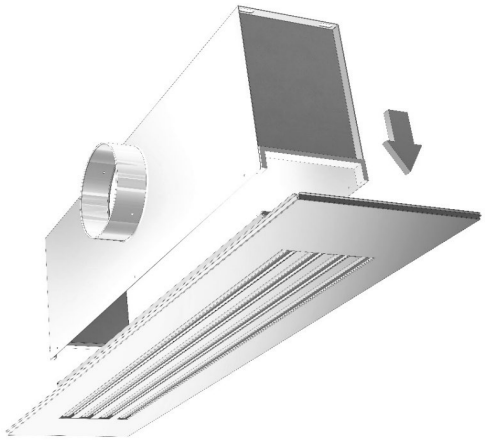
FITTED VERSION

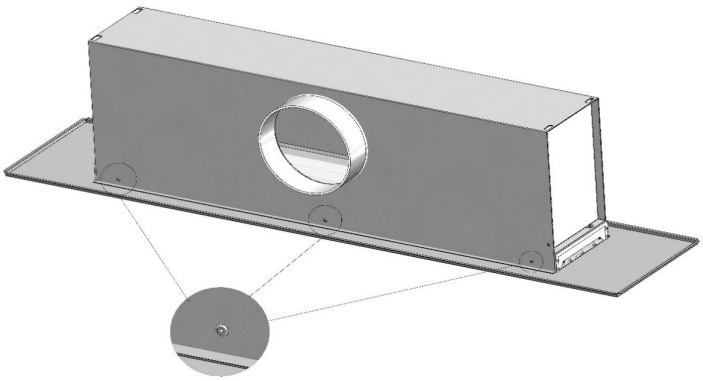




Fix both sides with rivets Ø4,8x10
aligning them with each pipe placed on the diffuser frame

VERSION WITH PANEL





Fix both sides with rivets Ø4,8x10
aligning them with each pipe placed on the diffuser frame

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

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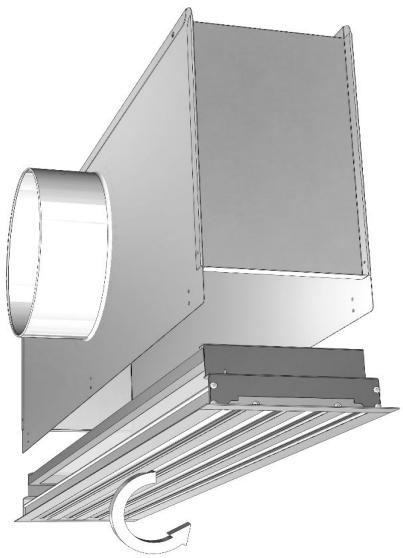
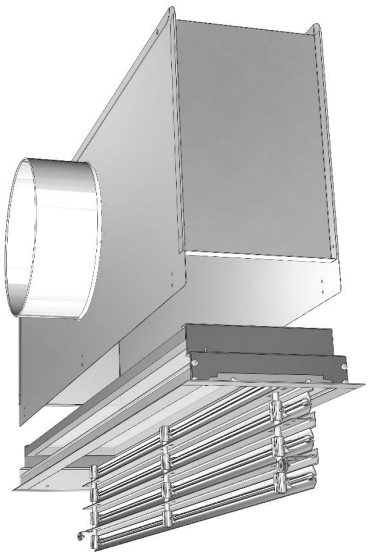
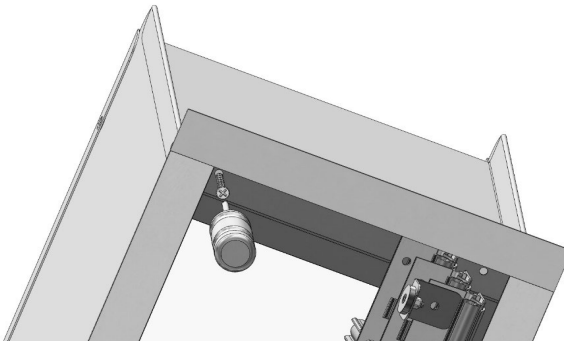
INSTALLATION
FILTER HOLDER VERSION WITHOUT PANEL

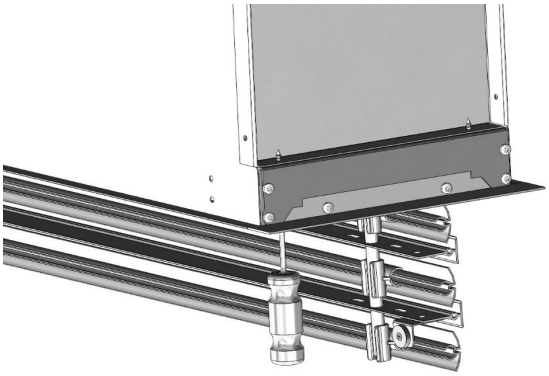


Open the diffuser

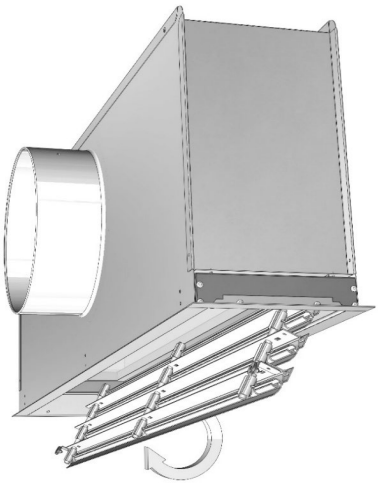


Insert the diffuser into the plenum

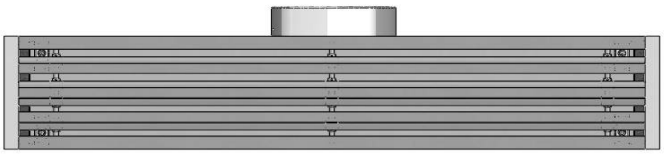




Fix the diffuser to the plenum using self-drilling screws



Close the diffuser



All done

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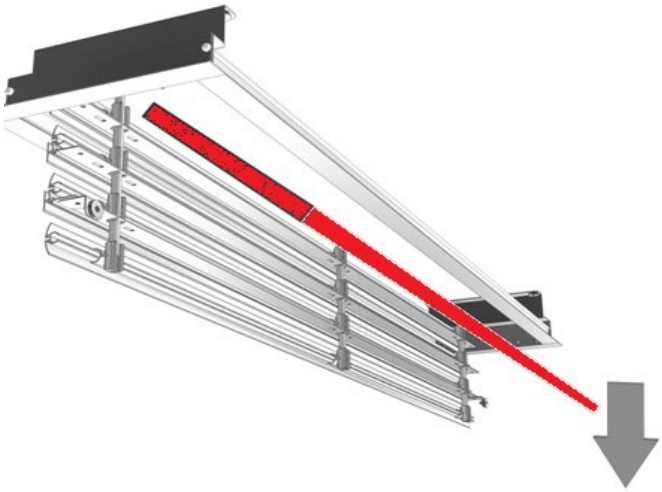
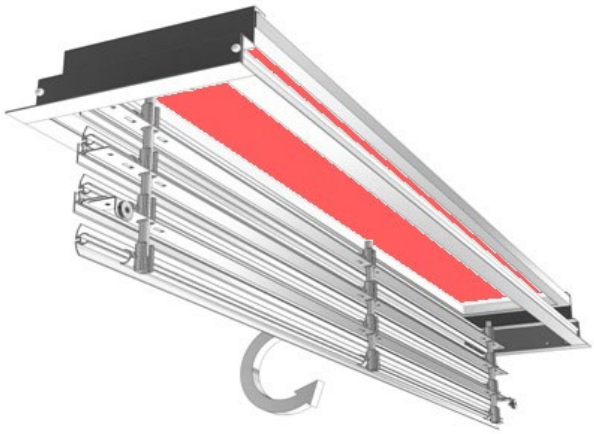
HOW TO CHANGE THE FILTER

Open the diffuser



Pull the old filter in oder to extract it
insert the new filter and fix it to the magnets



Close the diffuser

All done

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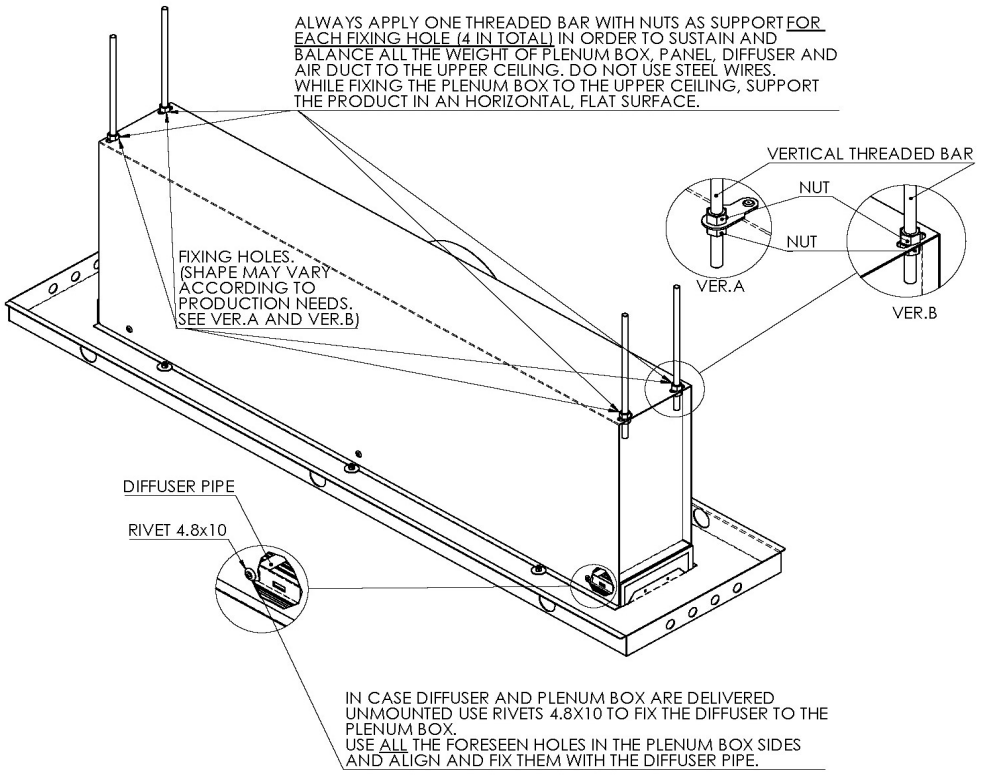
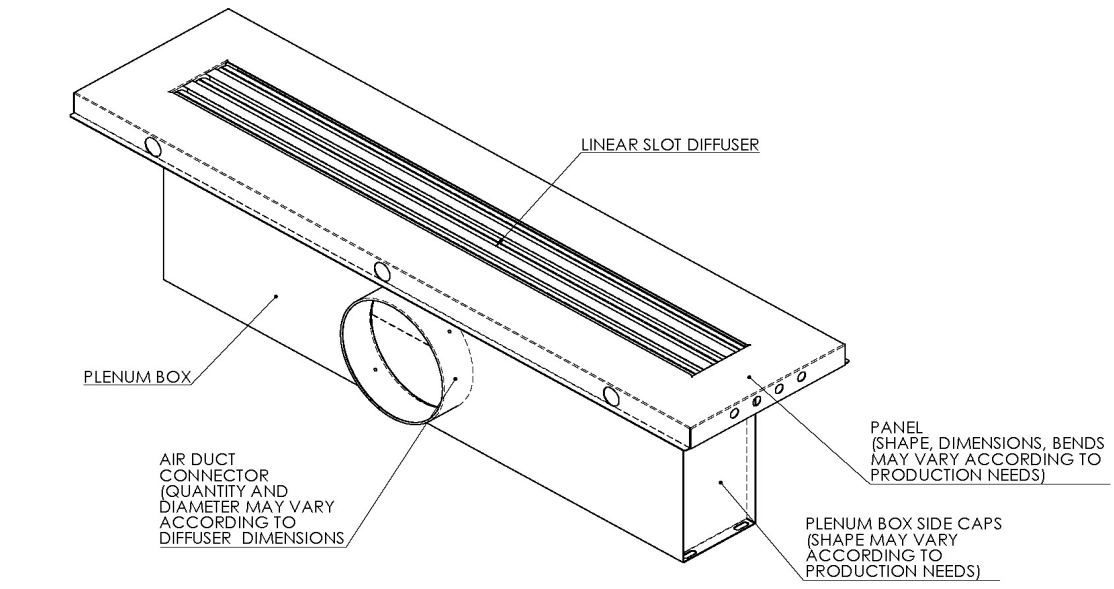
CAUTIONS FOR VERSIONS WITH PANEL

Never apply forces of any kind on panel, this may imply panel deformation.
The weight of the panel itself, of the diffuser, of the plenum box and of the air duct has to be supported by plenum box hangers and not by the panel.
Always handle with care. never lift or handle the product using the panel.
To lift or handle the product please hold the plenum box body.
The manufacturer does not assume any responsibility in the event of uncorrect use.





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QUICK SELECTION
1 - 2 SLOTS
SETTING HIGH COANDA EFFECT

Model A_k [m²]			Air flow rate																		
		m³/h	50	75	100	125	150	175	200	225	275	300	350	400	450	500	550	600	650	700
		l/s	(14)	(21)	(28)	(35)	(42)	(49)	(56)	(63)	(76)	(83)	(97)	(111)	(125)	(139)	(153)	(167)	(181)	(194)
KLN - 1 sl	L_{WA}	[dB(A)	21	32	39	45															
L=600	V_k	[m/s]	2,5	3,7	4,9	6,2															
(0,0057)	Δp_t	[Pa]	9	21	37	58															
	L 0,2	[m]	1,7	2,5	3,2	3,9															
KLN - 1 sl	L_{WA}	[dB(A)	<20	20	28	34	39	43	46	49											
L=1000	V_k	[m/s]	1,5	2,2	3	3,7	4,4	5,2	5,9	6,7											
(0,0094)	Δp_t	[Pa]	3	7	13	21	30	41	53	67											
	L 0,2	[m]	1,4	2	2,6	3,2	3,8	4,3	4,9	5,4											
KLN - 1 sl	L_{WA}	[dB(A)		<20	24	30	35	39	42	45	50										
L=1200	V_k	[m/s]		1,9	2,5	3,1	3,7	4,3	4,9	5,6	6,7										
(0,0113)	Δp_t	[Pa]		5	9	14	21	28	37	47	68										
	L 0,2	[m]		1,9	2,4	3	3,5	4	4,5	5	6										
KLN - 1 sl	L_{WA}	[dB(A)		<20	<20	25	30	34	37	40	45	48									
L=1500	V_k	[m/s]		1,5	2	2,5	3	3,5	4	4,4	5,4	5,9									
(0,0142)	Δp_t	[Pa]		3	6	9	13	18	24	30	43	52									
	L 0,2	[m]		1,7	2,2	2,7	3,2	3,7	4,1	4,6	5,5	5,9									
KLN - 1 sl	L_{WA}	[dB(A)			<20	<20	23	27	31	34	39	41	46	49							
L=2000	V_k	[m/s]			1,5	1,9	2,2	2,6	3	3,3	4	4,4	5,1	5,9							
(0,0189)	Δp_t	[Pa]			3	5	7	10	13	17	24	29	40	52							
	L 0,2	[m]			2	2,4	2,9	3,3	3,7	4,1	4,9	5,3	6,1	6,8							
KLN - 2 sl	L_{WA}	[dB(A)		<20	24	30	35	39	42	45	50										
L=600	V_k	[m/s]		1,9	2,5	3,1	3,7	4,3	4,9	5,6	6,7										
(0,0113)	Δp_t	[Pa]		5	9	14	21	28	37	47	68										
	L 0,2	[m]		1,9	2,4	3	3,5	4	4,5	5	6										
KLN - 2 sl	L_{WA}	[dB(A)			<20	<20	23	27	31	34	39	41	46	49							
L=1000	V_k	[m/s]			1,5	1,9	2,2	2,6	3	3,3	4	4,4	5,1	5,9							
(0,0189)	Δp_t	[Pa]			3	5	7	10	13	17	24	29	40	52							
	L 0,2	[m]			2	2,4	2,9	3,3	3,7	4,1	4,9	5,3	6,1	6,8							
KLN - 2 sl	L_{WA}	[dB(A)				<20	<20	23	27	30	35	37	42	45	48						
L=1200	V_k	[m/s]				1,5	1,9	2,2	2,5	2,8	3,4	3,7	4,3	4,9	5,5						
(0,0227)	Δp_t	[Pa]				4	5	7	9	12	17	20	28	36	46						
	L 0,2	[m]				2,2	2,7	3	3,4	3,8	4,5	4,9	5,6	6,4	7,1						
KLN - 2 sl	L_{WA}	[dB(A)				<20	<20	<20	22	25	30	32	37	40	43	46	49				
L=1500	V_k	[m/s]				1,2	1,5	1,7	2	2,2	2,7	2,9	3,4	3,9	4,4	4,9	5,4				
(0,0283)	Δp_t	[Pa]				2	3	5	6	7	11	13	18	23	29	36	44				
	L 0,2	[m]				2,1	2,4	2,8	3,1	3,5	4,1	4,5	5,1	5,8	6,5	7,1	7,8				
KLN - 2 sl	L_{WA}	[dB(A)						<20	<20	<20	24	26	30	34	37	40	42	45	47	49	
L=2000	V_k	[m/s]						1,3	1,5	1,7	2	2,2	2,6	2,9	3,3	3,7	4,1	4,4	4,8	5,1	
(0,0378)	Δp_t	[Pa]						3	3	4	6	7	10	13	16	20	25	29	35	40	
	L 0,2	[m]						2,5	2,8	3,1	3,7	4	4,6	5,2	5,8	6,3	6,9	7,5	8	8,6	

10 ≤ LwA < 30 | 30 ≤ LwA < 40 | 40 ≤ LwA < 50

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

QUICK SELECTION
3 - 4 SLOTS
SETTING HIGH COANDA EFFECT

Model		Air flow rate																			
A_k [m²]		m³/h	100	150	200	250	300	350	400	450	500	550	600	650	700	800	900	1000	1100	1200
		l/s	(28)	(42)	(56)	(69)	(83)	(97)	(111)	(125)	(139)	(153)	(167)	(181)	(194)	(222)	(250)	(278)	(306)	(333)
KLN - 3 sl	L_{WA}	[dB(A)]	<20	26	33	39	44	48												
L=600	V_k	[m/s]	1,6	2,5	3,3	4,1	4,9	5,7												
(0,017)	Δp_t	[Pa]	4	9	16	25	36	49												
	L 0,2	[m]	2,1	3	3,9	4,6	5,5	6,3												
KLN - 3 sl	L_{WA}	[dB(A)]		<20	22	28	32	37	40	43	46	49								
L=1000	V_k	[m/s]		1,5	2	2,4	2,9	3,4	3,9	4,4	4,9	5,4								
(0,0283)	Δp_t	[Pa]		3	6	9	13	18	23	29	36	44								
	L 0,2	[m]		2,4	3,1	3,8	4,5	5,1	5,8	6,5	7,1	7,8								
KLN - 3 sl	L_{WA}	[dB(A)]		<20	<20	24	28	33	36	39	42	45	47	49						
L=1200	V_k	[m/s]		1,2	1,6	2	2,4	2,9	3,3	3,7	4,1	4,5	4,9	5,3						
(0,034)	Δp_t	[Pa]		2	4	6	9	12	16	20	25	31	36	43						
	L 0,2	[m]		2,3	2,9	3,5	4,2	4,8	5,4	6	6,6	7,2	7,8	8,4						
KLN - 3 sl	L_{WA}	[dB(A)]			<20	<20	24	28	31	34	37	40	42	44	46	50				
L=1500	V_k	[m/s]			1,3	1,6	2	2,3	2,6	2,9	3,3	3,6	3,9	4,3	4,6	5,2				
(0,0425)	Δp_t	[Pa]			3	4	6	8	10	13	16	20	23	27	31	41				
	L 0,2	[m]			2,7	3,2	3,8	4,4	4,9	5,5	6,1	6,6	7,1	7,7	8,2	9,2				
KLN - 3 sl	L_{WA}	[dB(A)]				<20	<20	21	25	28	31	33	36	38	40	43	46	49		
L=2000	V_k	[m/s]				1,2	1,5	1,7	2	2,2	2,5	2,7	2,9	3,2	3,4	3,9	4,4	4,9		
(0,0566)	Δp_t	[Pa]				2	3	4	6	7	9	11	13	15	18	23	29	36		
	L 0,2	[m]				2,9	3,4	3,9	4,4	4,9	5,4	5,9	6,4	6,8	7,3	8,2	9,1	10,1		
KLN - 4 sl	L_{WA}	[dB(A)]		<20	27	33	37	42	45	48										
L=600	V_k	[m/s]		1,9	2,5	3	3,7	4,3	4,9	5,5										
(0,0227)	Δp_t	[Pa]		5	9	14	20	28	36	46										
	L 0,2	[m]		2,7	3,4	4,1	4,9	5,6	6,4	7,1										
KLN - 4 sl	L_{WA}	[dB(A)]			<20	21	26	30	34	37	40	42	45	47	49					
L=1000	V_k	[m/s]			1,5	1,8	2,2	2,6	2,9	3,3	3,7	4,1	4,4	4,8	5,1					
(0,0378)	Δp_t	[Pa]			3	5	7	10	13	16	20	25	29	35	40					
	L 0,2	[m]			2,8	3,4	4	4,6	5,2	5,8	6,3	6,9	7,5	8	8,6					
KLN - 4 sl	L_{WA}	[dB(A)]			<20	<20	22	26	30	33	36	38	41	43	45	48				
L=1200	V_k	[m/s]			1,2	1,5	1,8	2,1	2,4	2,8	3,1	3,4	3,7	4	4,3	4,9				
(0,0453)	Δp_t	[Pa]			2	3	5	7	9	11	14	17	20	24	28	36				
	L 0,2	[m]			2,6	3,1	3,7	4,3	4,8	5,4	5,9	6,4	7	7,5	8	9				
KLN - 4 sl	L_{WA}	[dB(A)]				<20	<20	21	25	28	31	33	36	38	40	43	46	49		
L=1500	V_k	[m/s]				1,2	1,5	1,7	2	2,2	2,5	2,7	2,9	3,2	3,4	3,9	4,4	4,9		
(0,0566)	Δp_t	[Pa]				2	3	4	6	7	9	11	13	15	18	23	29	36		
	L 0,2	[m]				2,9	3,4	3,9	4,4	4,9	5,4	5,9	6,4	6,8	7,3	8,2	9,1	10,1		
KLN - 4 sl	L_{WA}	[dB(A)]					<20	<20	<20	22	24	27	29	31	33	37	40	43	45	48
L=2000	V_k	[m/s]					1,1	1,3	1,5	1,7	1,8	2	2,2	2,4	2,6	2,9	3,3	3,7	4,1	4,4
(0,0755)	Δp_t	[Pa]					2	2	3	4	5	6	7	9	10	13	16	20	25	29
	L 0,2	[m]					3	3,5	3,9	4,4	4,8	5,2	5,7	6,1	6,5	7,3	8,2	9	9,8	10,6

10 ≤ LwA < 30 **30 ≤ LwA < 40** **40 ≤ LwA < 50**

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

QUICK SELECTION
5 - 6 SLOTS
SETTING HIGH COANDA EFFECT

Model		Air flow rate																			
		m³/h	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300	1400
A_k [m²]		l/s	(42)	(56)	(69)	(83)	(97)	(111)	(125)	(139)	(153)	(167)	(194)	(222)	(250)	(278)	(306)	(333)	(361)	(389)
KLN - 5 sl	L_{WA} [dB(A)		<20	22	28	32	37	40	43	46	49									
L=600	V_k [m/s]		1,5	2	2,4	2,9	3,4	3,9	4,4	4,9	5,4									
(0,0283)	Δp_t [Pa]		3	6	9	13	18	23	29	36	44									
	L 0,2 [m]		2,4	3,1	3,8	4,5	5,1	5,8	6,5	7,1	7,8									
KLN - 5 sl	L_{WA} [dB(A)			<20	<20	21	25	29	32	35	37	40	44	47	50					
L=1000	V_k [m/s]			1,2	1,5	1,8	2,1	2,4	2,6	2,9	3,2	3,5	4,1	4,7	5,3					
(0,0472)	Δp_t [Pa]			2	3	5	6	8	11	13	16	19	25	33	42					
	L 0,2 [m]			2,6	3,1	3,6	4,2	4,7	5,3	5,8	6,3	6,8	7,8	8,8	9,8					
KLN - 5 sl	L_{WA} [dB(A)				<20	<20	21	25	28	31	33	36	40	43	46	49				
L=1200	V_k [m/s]				1,2	1,5	1,7	2	2,2	2,5	2,7	2,9	3,4	3,9	4,4	4,9				
(0,0566)	Δp_t [Pa]				2	3	4	6	7	9	11	13	18	23	29	36				
	L 0,2 [m]				2,9	3,4	3,9	4,4	4,9	5,4	5,9	6,4	7,3	8,2	9,1	10,1				
KLN - 5 sl	L_{WA} [dB(A)					<20	<20	20	23	26	28	31	35	38	41	44	47	49		
L=1500	V_k [m/s]					1,2	1,4	1,6	1,8	2	2,2	2,4	2,7	3,1	3,5	3,9	4,3	4,7		
(0,0708)	Δp_t [Pa]					2	3	4	5	6	7	8	11	15	19	23	28	33		
	L 0,2 [m]					3,1	3,6	4	4,5	4,9	5,4	5,8	6,7	7,5	8,4	9,2	10	10,8		
KLN - 5 sl	L_{WA} [dB(A)						<20	<20	<20	20	22	24	28	32	35	38	40	43	45	47
L=2000	V_k [m/s]						1	1,2	1,3	1,5	1,6	1,8	2,1	2,4	2,6	2,9	3,2	3,5	3,8	4,1
(0,0944)	Δp_t [Pa]						2	2	3	3	4	5	6	8	11	13	16	19	22	25
	L 0,2 [m]						3,2	3,6	4	4,4	4,8	5,2	5,9	6,7	7,5	8,2	8,9	9,7	10,4	11,1
KLN - 6 sl	L_{WA} [dB(A)		<20	<20	24	28	33	36	39	42	45	47								
L=600	V_k [m/s]		1,2	1,6	2	2,4	2,9	3,3	3,7	4,1	4,5	4,9								
(0,034)	Δp_t [Pa]		2	4	6	9	12	16	20	25	31	36								
	L 0,2 [m]		2,3	2,9	3,5	4,2	4,8	5,4	6	6,6	7,2	7,8								
KLN - 6 sl	L_{WA} [dB(A)				<20	<20	21	25	28	31	33	36	40	43	46	49				
L=1000	V_k [m/s]				1,2	1,5	1,7	2	2,2	2,5	2,7	2,9	3,4	3,9	4,4	4,9				
(0,0566)	Δp_t [Pa]				2	3	4	6	7	9	11	13	18	23	29	36				
	L 0,2 [m]				2,9	3,4	3,9	4,4	4,9	5,4	5,9	6,4	7,3	8,2	9,1	10,1				
KLN - 6 sl	L_{WA} [dB(A)					<20	<20	21	24	27	29	32	36	39	42	45	48	50		
L=1200	V_k [m/s]					1,2	1,4	1,6	1,8	2	2,3	2,5	2,9	3,3	3,7	4,1	4,5	4,9		
(0,068)	Δp_t [Pa]					2	3	4	5	6	8	9	12	16	20	25	30	36		
	L 0,2 [m]					3,2	3,6	4,1	4,6	5	5,5	5,9	6,8	7,6	8,5	9,4	10,2	11		
KLN - 6 sl	L_{WA} [dB(A)						<20	<20	<20	22	24	27	31	34	37	40	43	45	47	49
L=1500	V_k [m/s]						1,1	1,3	1,5	1,6	1,8	2	2,3	2,6	2,9	3,3	3,6	3,9	4,2	4,6
(0,085)	Δp_t [Pa]						2	3	3	4	5	6	8	10	13	16	19	23	27	31
	L 0,2 [m]						3,3	3,7	4,2	4,6	5	5,4	6,2	7	7,8	8,6	9,3	10,1	10,8	11,6
KLN - 6 sl	L_{WA} [dB(A)							<20	<20	<20	<20	20	24	28	31	34	36	39	41	43
L=2000	V_k [m/s]							1	1,1	1,2	1,4	1,5	1,7	2	2,2	2,5	2,7	2,9	3,2	3,4
(0,1133)	Δp_t [Pa]							1	2	2	3	3	4	6	7	9	11	13	15	18
	L 0,2 [m]							3,3	3,7	4,1	4,5	4,8	5,5	6,2	6,9	7,6	8,3	9	9,6	10,3

10 ≤ LwA < 30 | 30 ≤ LwA < 40 | 40 ≤ LwA < 50

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

QUICK SELECTION
1 - 2 SLOTS
SETTING HIGH AIR FLOW

Model		Air flow rate																			
A_k [m²]		m³/h	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	900	1000
		l/s	(14)	(28)	(42)	(56)	(69)	(83)	(97)	(111)	(125)	(139)	(153)	(167)	(181)	(194)	(208)	(222)	(250)	(278)
KLN - 1 sl	L_{WA}	[dB(A)]	<20	28	39	47														
L=600	V_k	[m/s]	1,5	3	4,5	6														
(0,0093)	Δp_t	[Pa]	3	14	31	55														
	L 0,2	[m]	1,4	2,6	3,8	4,9														
KLN - 1 sl	L_{WA}	[dB(A)]		<20	28	35	41	46	50											
L=1000	V_k	[m/s]		1,8	2,7	3,6	4,5	5,4	6,3											
(0,0154)	Δp_t	[Pa]		5	11	20	30	44	60											
	L 0,2	[m]		2,1	3,1	4	4,8	5,7	6,6											
KLN - 1 sl	L_{WA}	[dB(A)]		<20	24	31	37	42	46	50										
L=1200	V_k	[m/s]		1,5	2,3	3	3,7	4,5	5,2	6										
(0,0185)	Δp_t	[Pa]		3	8	14	21	30	41	54										
	L 0,2	[m]		2	2,9	3,7	4,5	5,3	6,1	6,9										
KLN - 1 sl	L_{WA}	[dB(A)]			<20	26	32	37	41	45	48									
L=1500	V_k	[m/s]			1,8	2,4	3	3,6	4,2	4,8	5,4									
(0,0232)	Δp_t	[Pa]			5	9	13	19	26	35	44									
	L 0,2	[m]			2,6	3,4	4,1	4,8	5,6	6,3	7									
KLN - 1 sl	L_{WA}	[dB(A)]			<20	20	26	31	35	38	41	44	47	49						
L=2000	V_k	[m/s]			1,4	1,8	2,2	2,7	3,1	3,6	4	4,5	5	5,4						
(0,0309)	Δp_t	[Pa]			3	5	8	11	15	19	25	31	37	44						
	L 0,2	[m]			2,3	3	3,7	4,3	5	5,6	6,2	6,9	7,5	8,1						
KLN - 2 sl	L_{WA}	[dB(A)]		<20	24	31	37	42	46	50										
L=600	V_k	[m/s]		1,5	2,3	3	3,7	4,5	5,2	6										
(0,0185)	Δp_t	[Pa]		3	8	14	21	30	41	54										
	L 0,2	[m]		2	2,9	3,7	4,5	5,3	6,1	6,9										
KLN - 2 sl	L_{WA}	[dB(A)]			<20	20	26	31	35	38	41	44	47	49						
L=1000	V_k	[m/s]			1,4	1,8	2,2	2,7	3,1	3,6	4	4,5	5	5,4						
(0,0309)	Δp_t	[Pa]			3	5	8	11	15	19	25	31	37	44						
	L 0,2	[m]			2,3	3	3,7	4,3	5	5,6	6,2	6,9	7,5	8,1						
KLN - 2 sl	L_{WA}	[dB(A)]				<20	22	27	31	34	37	40	43	45	47	49				
L=1200	V_k	[m/s]				1,5	1,9	2,2	2,6	3	3,4	3,8	4,1	4,5	4,9	5,2				
(0,0371)	Δp_t	[Pa]				3	5	8	10	14	17	21	26	31	36	41				
	L 0,2	[m]				2,8	3,4	4	4,6	5,2	5,8	6,4	7	7,5	8,1	8,6				
KLN - 2 sl	L_{WA}	[dB(A)]				<20	<20	22	26	29	32	35	38	40	42	44	46	48		
L=1500	V_k	[m/s]				1,2	1,5	1,8	2,1	2,4	2,7	3	3,3	3,6	3,9	4,2	4,5	4,8		
(0,0463)	Δp_t	[Pa]				2	3	5	7	9	11	14	16	20	23	26	30	35		
	L 0,2	[m]				2,6	3,1	3,7	4,2	4,8	5,3	5,8	6,4	6,9	7,4	7,9	8,4	8,9		
KLN - 2 sl	L_{WA}	[dB(A)]					<20	<20	<20	23	26	29	31	34	36	38	40	41	44	47
L=2000	V_k	[m/s]					1,1	1,3	1,6	1,8	2	2,3	2,5	2,7	2,9	3,1	3,4	3,6	4	4,5
(0,0618)	Δp_t	[Pa]					2	3	4	5	6	8	9	11	13	15	17	19	25	30
	L 0,2	[m]					2,8	3,3	3,8	4,3	4,7	5,2	5,7	6,1	6,6	7	7,5	7,9	8,8	9,7

10 ≤ LwA < 30 | 30 ≤ LwA < 40 | 40 ≤ LwA < 50

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

QUICK SELECTION
3 - 4 SLOTS
SETTING HIGH AIR FLOW

Model		Air flow rate																			
	m³/h	150	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
A_k [m²]	l/s	(42)	(56)	(83)	(111)	(139)	(167)	(194)	(222)	(250)	(278)	(306)	(333)	(361)	(389)	(417)	(444)	(472)	(500)
KLN - 3 sl	L_{WA} [dB(A)]	<20	22	33	41	47													
L=600	V_k [m/s]	1,5	2	3	4	5													
(0,0278)	Δp_t [Pa]	3	6	13	24	38													
	L 0,2 [m]	2,4	3,2	4,5	5,9	7,2													
KLN - 3 sl	L_{WA} [dB(A)]		<20	22	29	35	40	44	48										
L=1000	V_k [m/s]		1,2	1,8	2,4	3	3,6	4,2	4,8										
(0,0463)	Δp_t [Pa]		2	5	9	14	20	26	35										
	L 0,2 [m]		2,6	3,7	4,8	5,8	6,9	7,9	8,9										
KLN - 3 sl	L_{WA} [dB(A)]			<20	25	31	36	40	44	47	50								
L=1200	V_k [m/s]			1,5	2	2,5	3	3,5	4	4,5	5								
(0,0556)	Δp_t [Pa]			3	6	9	14	18	24	30	38								
	L 0,2 [m]			3,4	4,4	5,4	6,4	7,3	8,3	9,2	10,1								
KLN - 3 sl	L_{WA} [dB(A)]			<20	20	26	31	35	39	42	45	47	49						
L=1500	V_k [m/s]			1,2	1,6	2	2,4	2,8	3,2	3,6	4	4,4	4,8						
(0,0695)	Δp_t [Pa]			2	4	6	9	12	15	19	24	29	35						
	L 0,2 [m]			3,1	4,1	5	5,9	6,7	7,6	8,4	9,3	10,1	10,9						
KLN - 3 sl	L_{WA} [dB(A)]				<20	20	25	29	32	36	38	41	43	45	47	49			
L=2000	V_k [m/s]				1,2	1,5	1,8	2,1	2,4	2,7	3	3,3	3,6	3,9	4,2	4,5			
(0,0926)	Δp_t [Pa]				2	3	5	7	9	11	14	16	19	23	26	30			
	L 0,2 [m]				3,6	4,4	5,2	6	6,8	7,5	8,3	9	9,7	10,5	11,2	11,9			
KLN - 4 sl	L_{WA} [dB(A)]		<20	27	34	40	45	49											
L=600	V_k [m/s]		1,5	2,2	3	3,8	4,5	5,2											
(0,0371)	Δp_t [Pa]		3	8	14	21	31	41											
	L 0,2 [m]		2,8	4	5,2	6,4	7,5	8,6											
KLN - 4 sl	L_{WA} [dB(A)]			<20	23	29	34	38	41	44	47	50							
L=1000	V_k [m/s]			1,3	1,8	2,3	2,7	3,1	3,6	4	4,5	5							
(0,0618)	Δp_t [Pa]			3	5	8	11	15	19	25	30	37							
	L 0,2 [m]			3,3	4,3	5,2	6,1	7	7,9	8,8	9,7	10,6							
KLN - 4 sl	L_{WA} [dB(A)]			<20	<20	25	30	34	37	40	43	46	48	50					
L=1200	V_k [m/s]			1,1	1,5	1,9	2,3	2,6	3	3,4	3,8	4,1	4,5	4,9					
(0,0741)	Δp_t [Pa]			2	3	5	8	10	13	17	21	26	30	36					
	L 0,2 [m]			3	4	4,8	5,7	6,5	7,4	8,2	9	9,9	10,6	11,4					
KLN - 4 sl	L_{WA} [dB(A)]				<20	20	25	29	32	36	38	41	43	45	47	49			
L=1500	V_k [m/s]				1,2	1,5	1,8	2,1	2,4	2,7	3	3,3	3,6	3,9	4,2	4,5			
(0,0926)	Δp_t [Pa]				2	3	5	7	9	11	14	16	19	23	26	30			
	L 0,2 [m]				3,6	4,4	5,2	6	6,8	7,5	8,3	9	9,7	10,5	11,2	11,9			
KLN - 4 sl	L_{WA} [dB(A)]					<20	<20	22	26	29	32	35	37	39	41	43	44	46	48
L=2000	V_k [m/s]					1,1	1,4	1,6	1,8	2	2,3	2,5	2,7	2,9	3,1	3,4	3,6	3,8	4
(0,1235)	Δp_t [Pa]					2	3	4	5	6	8	9	11	13	15	17	19	22	25
	L 0,2 [m]					3,9	4,7	5,3	6	6,7	7,4	8	8,7	9,3	10	10,6	11,2	11,9	12,5

10 ≤ LwA < 30 | 30 ≤ LwA < 40 | 40 ≤ LwA < 50

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

QUICK SELECTION
5 - 6 SLOTS
SETTING HIGH AIR FLOW

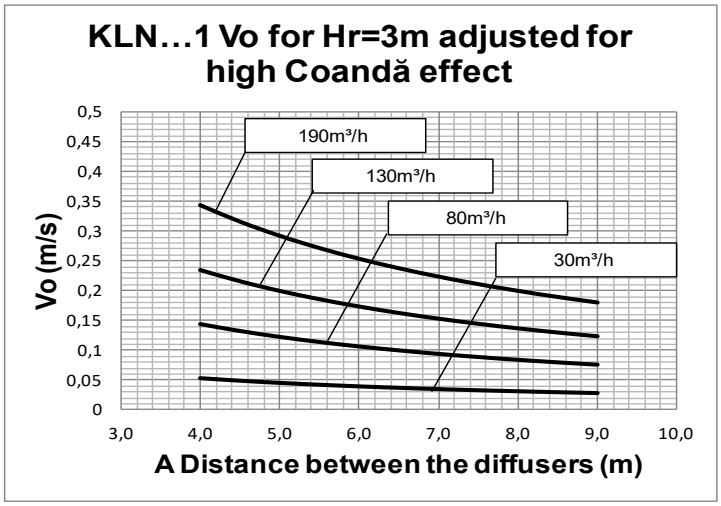
Model			Air flow rate																		
		m³/h	200	300	400	500	600	700	800	900	1000	1150	1300	1450	1600	1750	1900	2050	2200	2350
A_k [m²]		l/s	(56)	(83)	(111)	(139)	(167)	(194)	(222)	(250)	(278)	(319)	(361)	(403)	(444)	(486)	(528)	(569)	(611)	(653)
KLN - 5 sl	L_{WA} [dB(A)		<20	22	29	35	40	44	48											
L=600	V_k [m/s]		1,2	1,8	2,4	3	3,6	4,2	4,8											
(0,0463)	Δp_t [Pa]		2	5	9	14	20	26	35											
	L 0,2 [m]		2,6	3,7	4,8	5,8	6,9	7,9	8,9											
KLN - 5 sl	L_{WA} [dB(A)			<20	<20	24	29	33	36	40	42	46	49							
L=1000	V_k [m/s]			1,1	1,4	1,8	2,2	2,5	2,9	3,2	3,6	4,1	4,7							
(0,0772)	Δp_t [Pa]			2	3	5	7	9	12	16	19	26	33							
	L 0,2 [m]			3	3,9	4,8	5,6	6,4	7,3	8,1	8,9	10,1	11,2							
KLN - 5 sl	L_{WA} [dB(A)				<20	20	25	29	32	36	38	42	45	48						
L=1200	V_k [m/s]				1,2	1,5	1,8	2,1	2,4	2,7	3	3,4	3,9	4,4						
(0,0926)	Δp_t [Pa]				2	3	5	7	9	11	14	18	23	28						
	L 0,2 [m]				3,6	4,4	5,2	6	6,8	7,5	8,3	9,4	10,5	11,5						
KLN - 5 sl	L_{WA} [dB(A)					<20	20	24	27	31	33	37	40	43	46	48	50			
L=1500	V_k [m/s]					1,2	1,4	1,7	1,9	2,2	2,4	2,8	3,1	3,5	3,8	4,2	4,6			
(0,1158)	Δp_t [Pa]					2	3	4	6	7	9	11	15	18	22	26	31			
	L 0,2 [m]					4,1	4,8	5,5	6,2	6,9	7,6	8,6	9,6	10,6	11,5	12,5	13,5			
KLN - 5 sl	L_{WA} [dB(A)						<20	<20	21	24	27	31	34	37	39	42	44	46	48	50
L=2000	V_k [m/s]						1,1	1,3	1,4	1,6	1,8	2,1	2,3	2,6	2,9	3,1	3,4	3,7	4	4,2
(0,1544)	Δp_t [Pa]						2	2	3	4	5	6	8	10	12	15	18	20	23	27
	L 0,2 [m]						4,3	4,9	5,5	6,1	6,7	7,6	8,5	9,4	10,3	11,1	12	12,8	13,7	14,5
KLN - 6 sl	L_{WA} [dB(A)			<20	25	31	36	40	44	47	50									
L=600	V_k [m/s]			1,5	2	2,5	3	3,5	4	4,5	5									
(0,0556)	Δp_t [Pa]			3	6	9	14	18	24	30	38									
	L 0,2 [m]			3,4	4,4	5,4	6,4	7,3	8,3	9,2	10,1									
KLN - 6 sl	L_{WA} [dB(A)				<20	20	25	29	32	36	38	42	45	48						
L=1000	V_k [m/s]				1,2	1,5	1,8	2,1	2,4	2,7	3	3,4	3,9	4,4						
(0,0926)	Δp_t [Pa]				2	3	5	7	9	11	14	18	23	28						
	L 0,2 [m]				3,6	4,4	5,2	6	6,8	7,5	8,3	9,4	10,5	11,5						
KLN - 6 sl	L_{WA} [dB(A)				<20	<20	21	25	28	31	34	38	41	44	47	49				
L=1200	V_k [m/s]				1	1,3	1,5	1,7	2	2,2	2,5	2,9	3,2	3,6	4	4,4				
(0,1112)	Δp_t [Pa]				1	2	3	5	6	8	9	12	16	20	24	29				
	L 0,2 [m]				3,4	4,1	4,9	5,6	6,3	7	7,7	8,7	9,7	10,7	11,7	12,7				
KLN - 6 sl	L_{WA} [dB(A)					<20	<20	20	23	27	29	33	36	39	42	44	46	48	50	
L=1500	V_k [m/s]					1	1,2	1,4	1,6	1,8	2	2,3	2,6	2,9	3,2	3,5	3,8	4,1	4,4	
(0,139)	Δp_t [Pa]					2	2	3	4	5	6	8	10	13	15	18	22	25	29	
	L 0,2 [m]					3,8	4,4	5,1	5,7	6,4	7	8	8,9	9,8	10,7	11,6	12,5	13,4	14,3	
KLN - 6 sl	L_{WA} [dB(A)						<20	<20	<20	20	23	27	30	33	35	38	40	42	44	46
L=2000	V_k [m/s]						0,9	1	1,2	1,3	1,5	1,7	1,9	2,2	2,4	2,6	2,8	3,1	3,3	3,5
(0,1853)	Δp_t [Pa]						1	2	2	3	3	4	6	7	9	10	12	14	16	19
	L 0,2 [m]						4	4,5	5,1	5,7	6,3	7,1	7,9	8,8	9,5	10,4	11,2	11,9	12,7	13,5

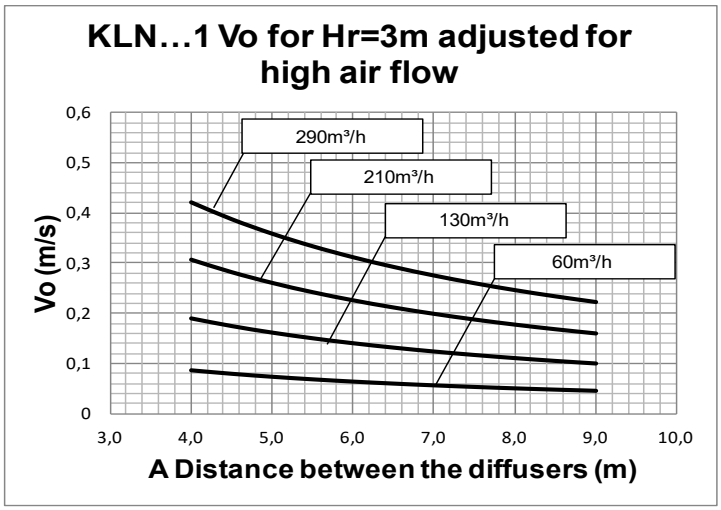
10 ≤ LwA < 30 | 30 ≤ LwA < 40 | 40 ≤ LwA < 50

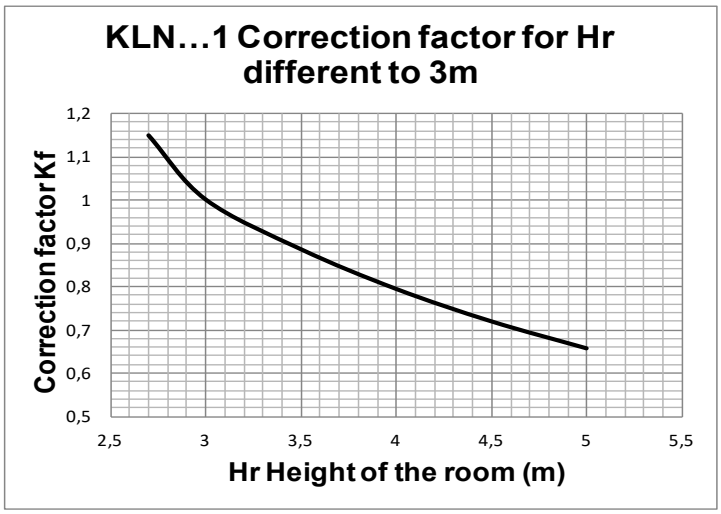
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

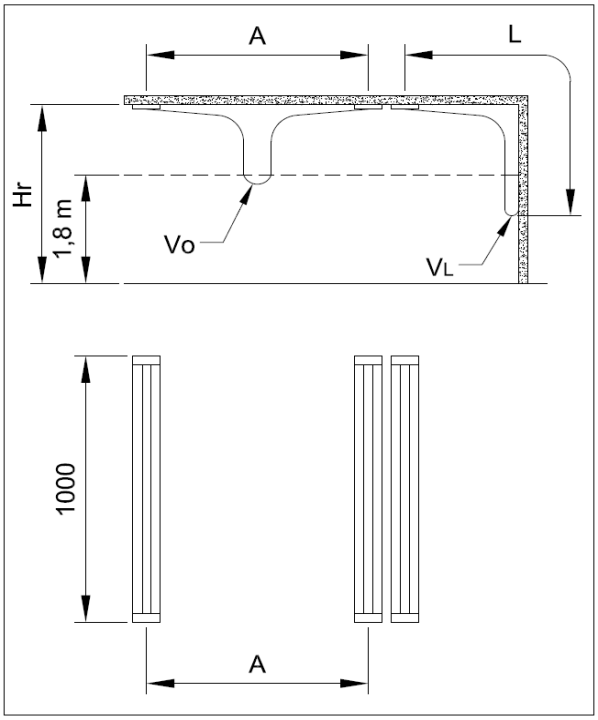
KLN
SERIES

PERFORMANCE KLN 1 SLOT L=1000mm









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.*

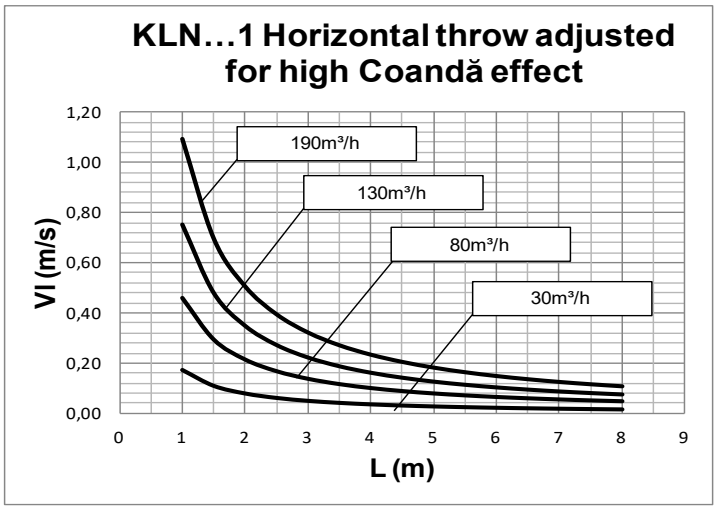
A (m) distance between diffusers
Vo (m/s) speed at limit of occupied area

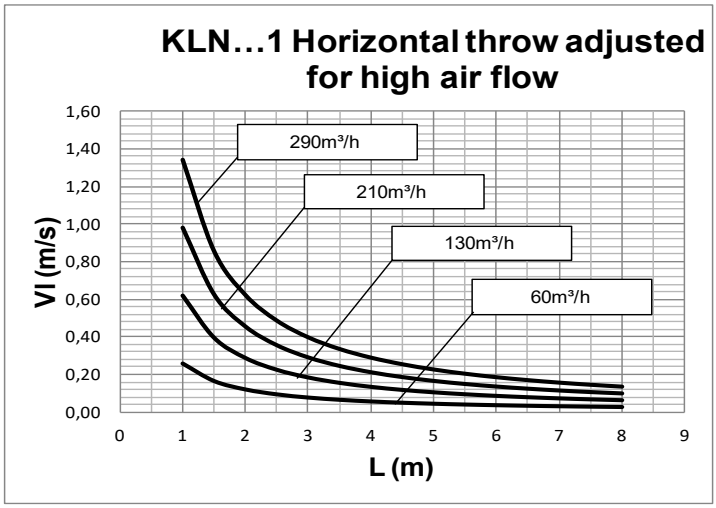
For Hr different to 3m, use the multiplier factor KF:
Vo (h) = Vo x Kf

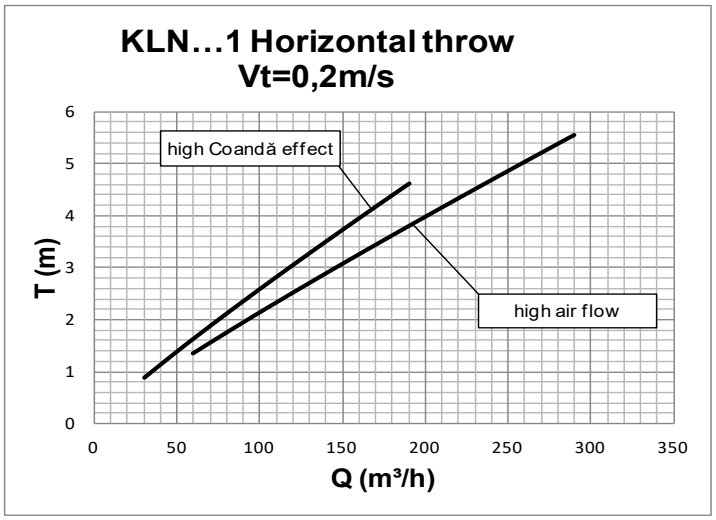
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

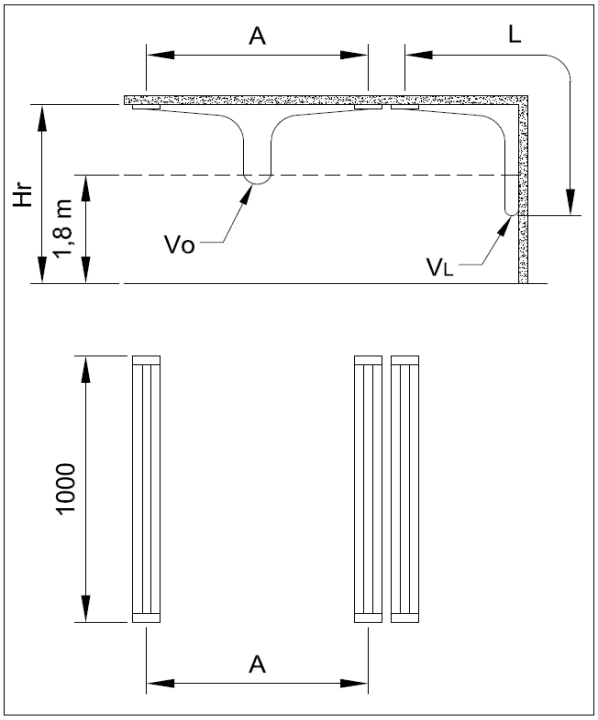
KLN
SERIES

PERFORMANCE KLN 1 SLOT L=1000mm









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 (m) horizontal distance in meters from the centre of diffuser
VL (m/s) maximum speed in air stream at distance L
T0,2 (m) throw for an isothermal air jet with a Coandă effect for a terminal speed of Vt=0,20m/s.

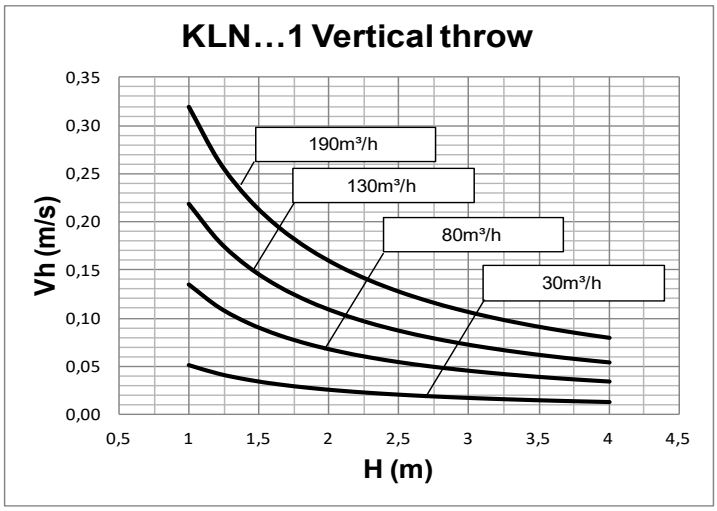
Correction factor for non isotermal conditions

	ΔT	x Kf
Cooling	-10	0,90
	-8	0,92
	-6	0,94
	-4	0,96
	-2	0,98
Heating	2	1,02
	4	1,04
	6	1,06
	8	1,08
	10	1,10

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

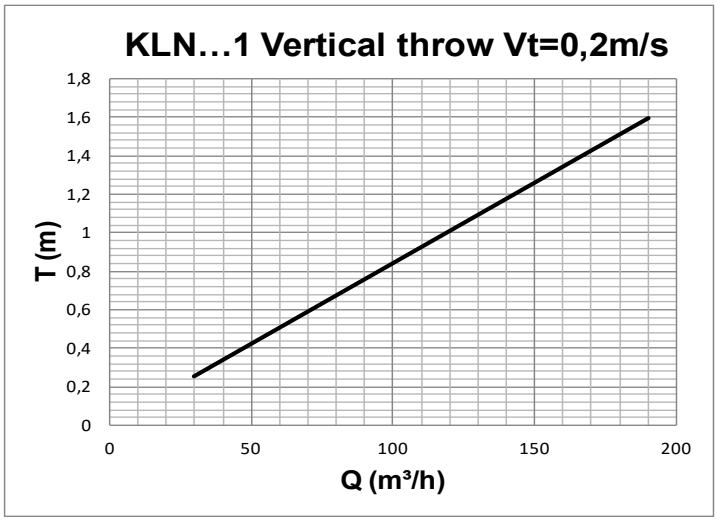
KLN
SERIES

PERFORMANCE KLN 1 SLOT L=1000mm



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.*

H (m) vertical distance in meters from ceiling
Vh (m/s) maximum speed in air stream at distance H
T0,2 (m) throw for an isothermal air jet for a terminal speed of Vt=0,20m/s.



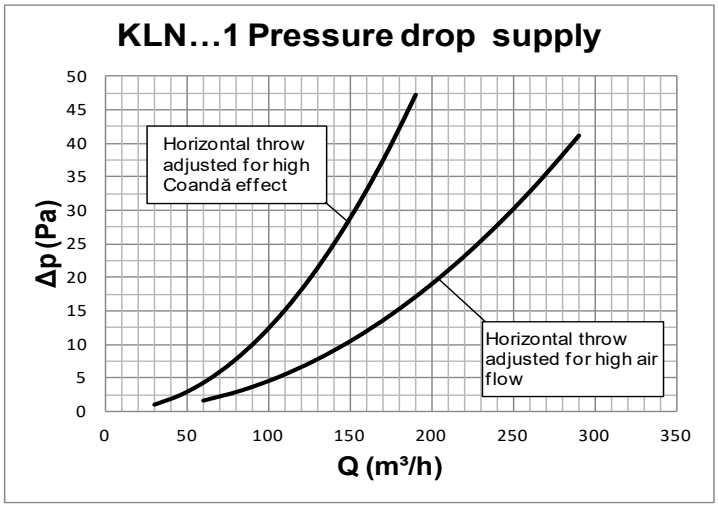
Correction factor for non isotermal conditions

	ΔT	x Kf
Cooling	-10	1,11
	-8	1,09
	-6	1,06
	-4	1,04
	-2	1,02
Heating	2	0,98
	4	0,96
	6	0,94
	8	0,93
	10	0,91

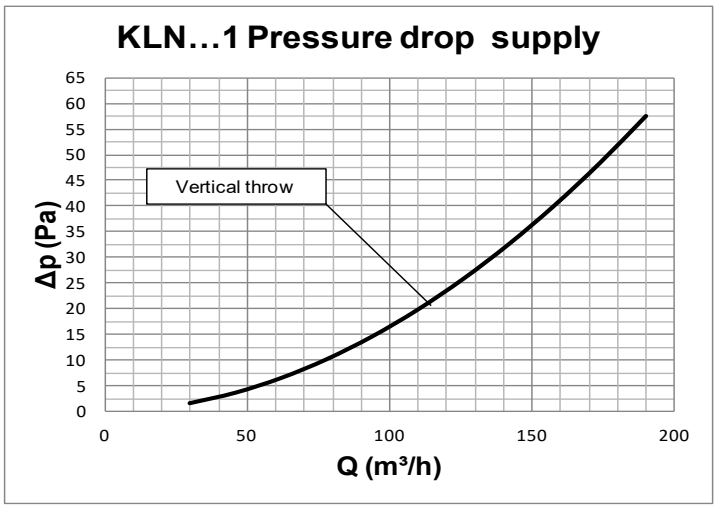
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

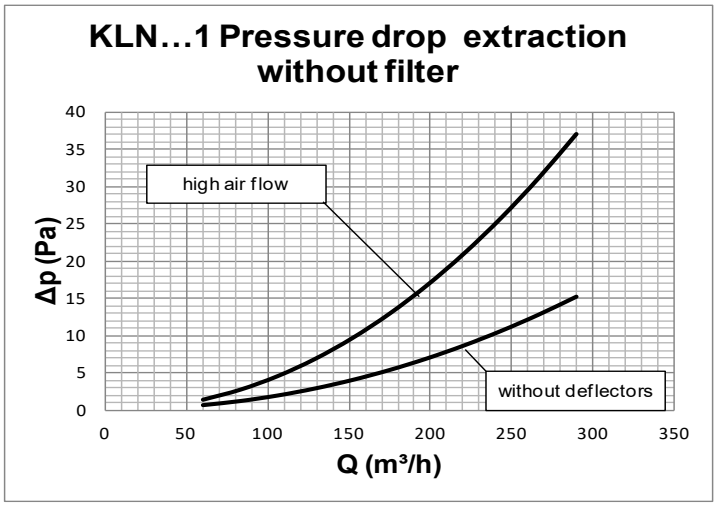
KLN
SERIES

PERFORMANCE KLN 1 SLOT L=1000mm



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.*

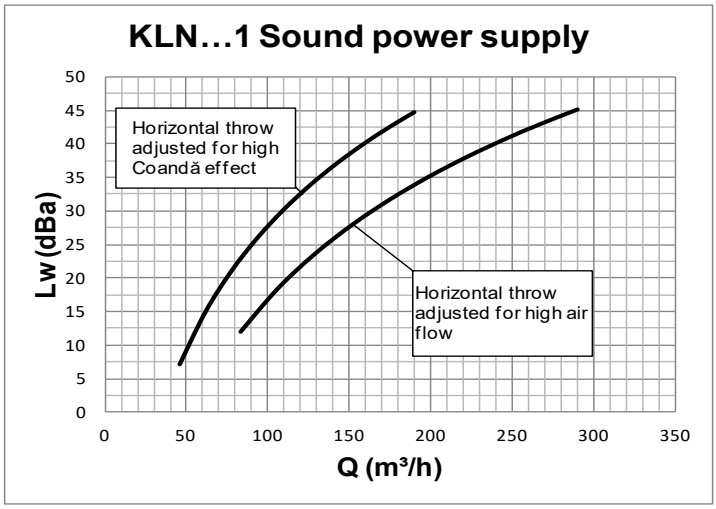




HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

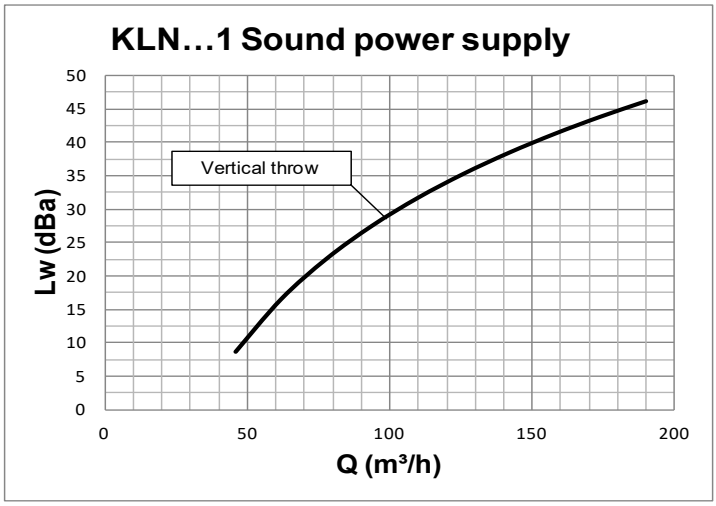
PERFORMANCE KLN 1 SLOT L=1000mm



Acoustic 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*

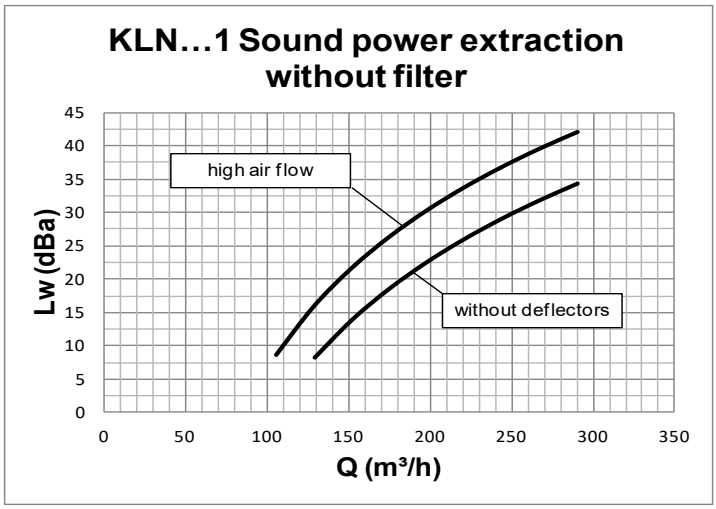
ISO 5135 1997: *Acoustic - determination of sound power levels of noise from air-terminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.*

The data presented does not consider the attenuation given by the area of installation. This attenuation is normally between 6 and 10 dBA and is determined by the room size, the shape of the environment and the interior features.



Correction factor for different length same flow rate per meter of diffuser

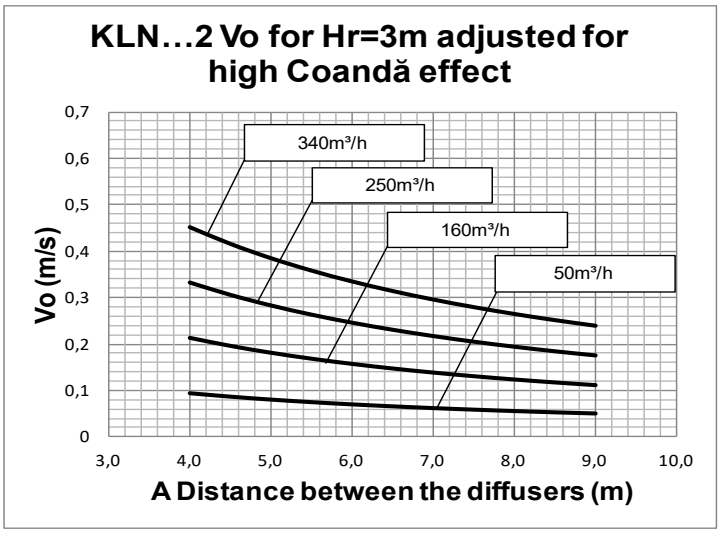
L	+Kf
600	-2,2
800	-1,0
1000	0,0
1200	0,8
1500	1,8
2000	3,0

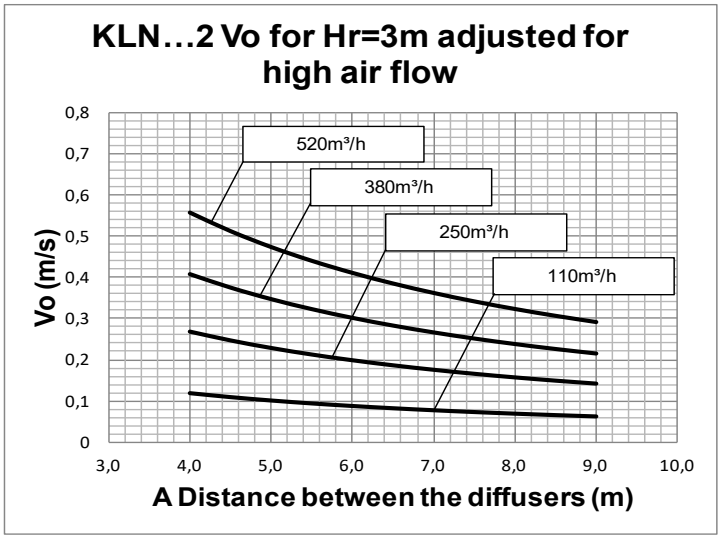


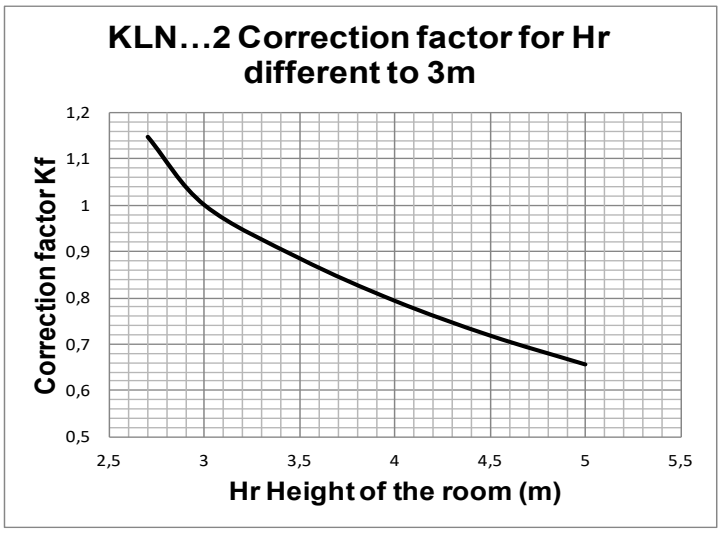
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

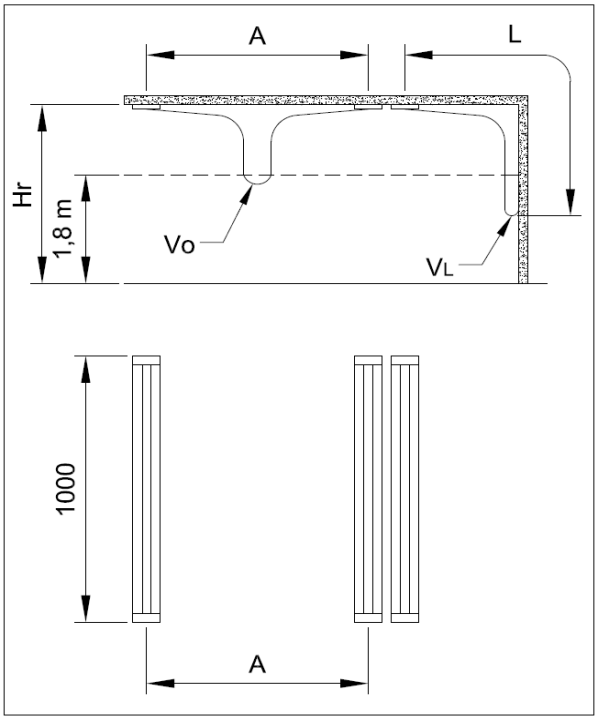
KLN
SERIES

PERFORMANCE KLN 2 SLOTS L=1000mm









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A (m) distance between diffusers
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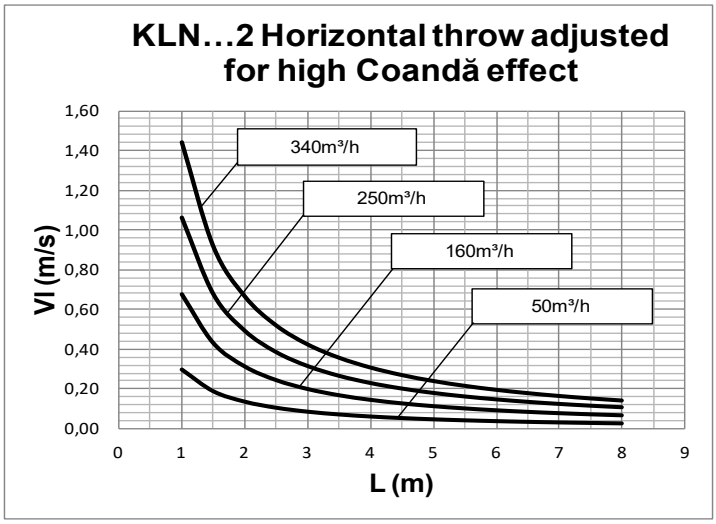
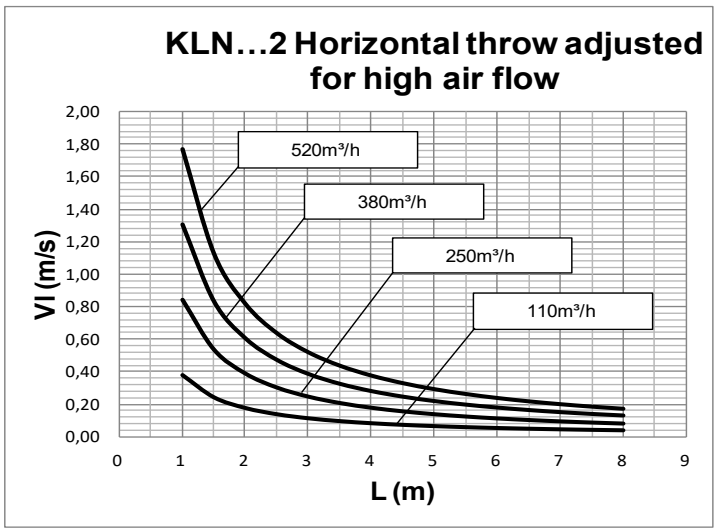
For Hr different to 3m, use the multiplier factor KF:
Vo (h) = Vo x Kf

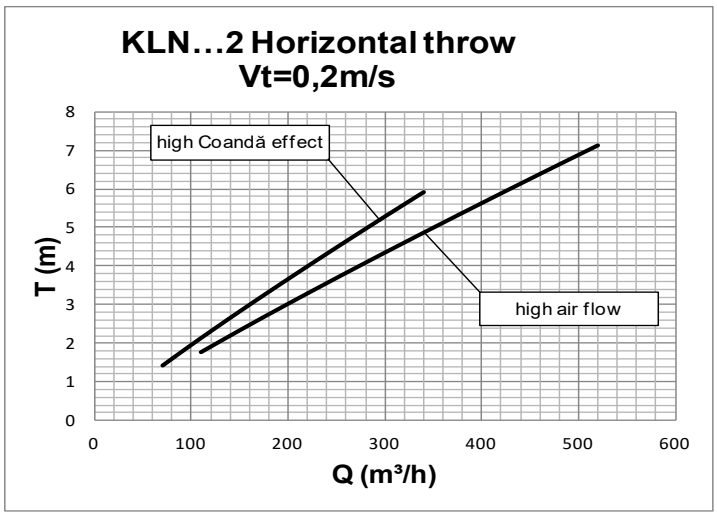
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

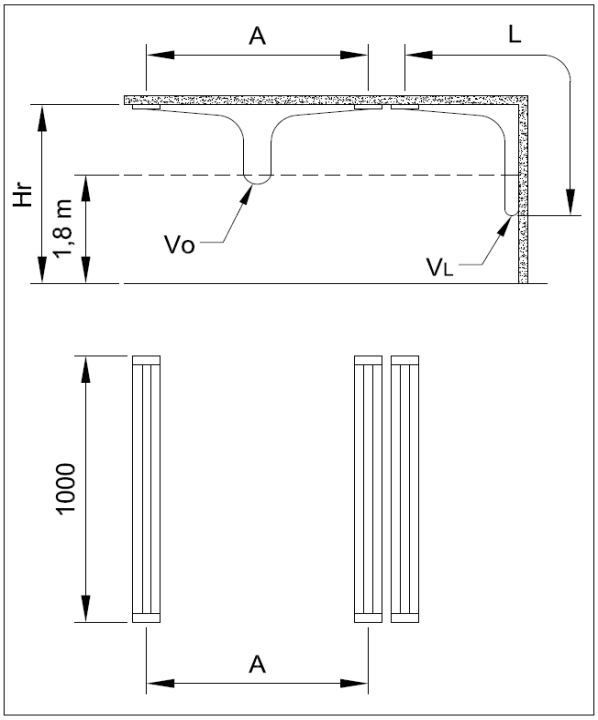
KLN
SERIES

PERFORMANCE KLN 2 SLOTS L=1000mm









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Correction factor for non isotermal conditions

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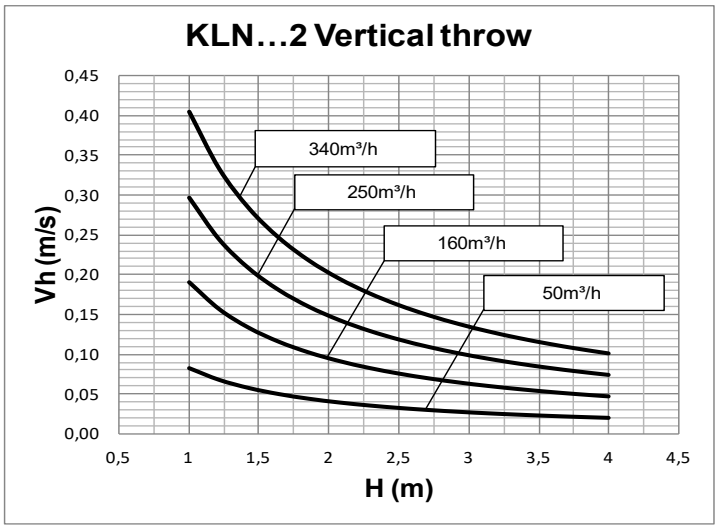
	-6	0,94
	-4	0,96
	-2	0,98
Heating	2	1,02
	4	1,04
	6	1,06
	8	1,08
	10	1,10

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

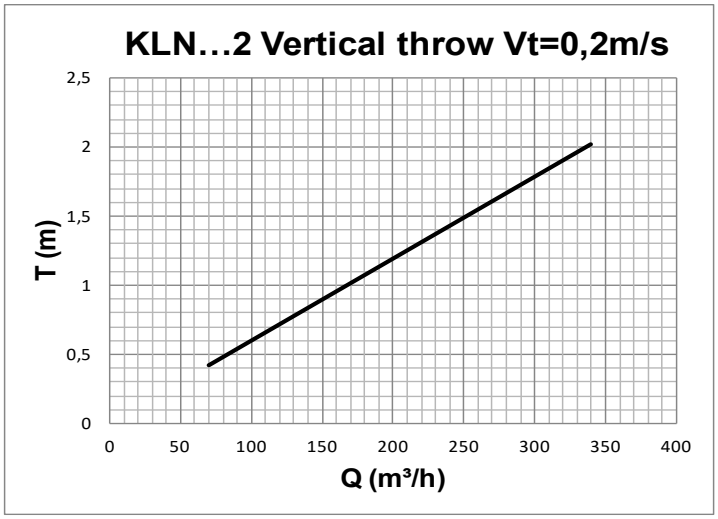
KLN
SERIES

PERFORMANCE KLN 2 SLOTS L=1000mm



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.*

H (m) vertical distance in meters from ceiling
Vh (m/s) maximum speed in air stream at distance H
T0,2 (m) throw for an isothermal air jet for a terminal speed of Vt=0,20m/s.



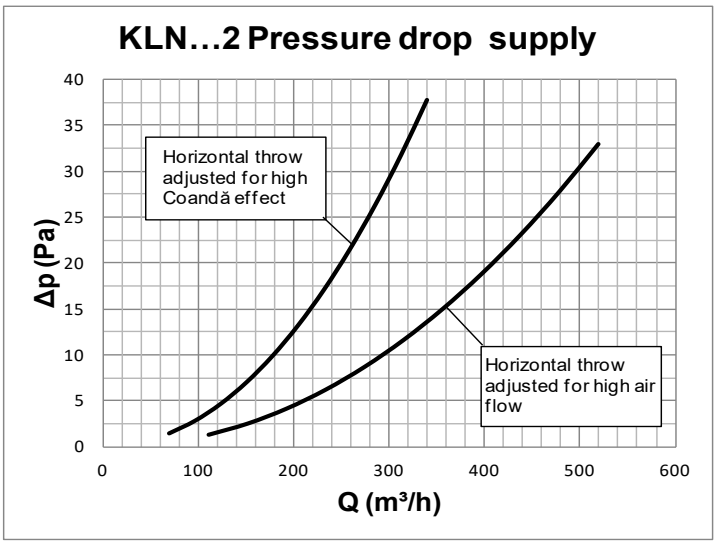
Correction factor for non isotermal conditions

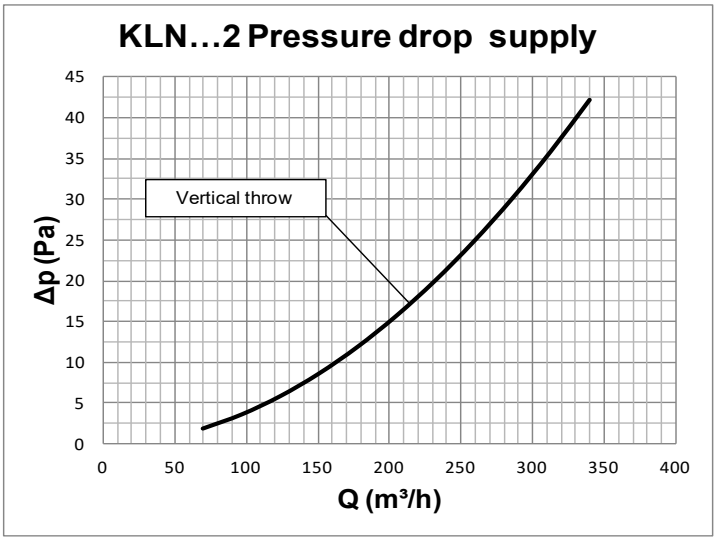
	ΔT	x Kf
Cooling	-10	1,11
	-8	1,09
	-6	1,06
	-4	1,04
	-2	1,02
Heating	2	0,98
	4	0,96
	6	0,94
	8	0,93
	10	0,91

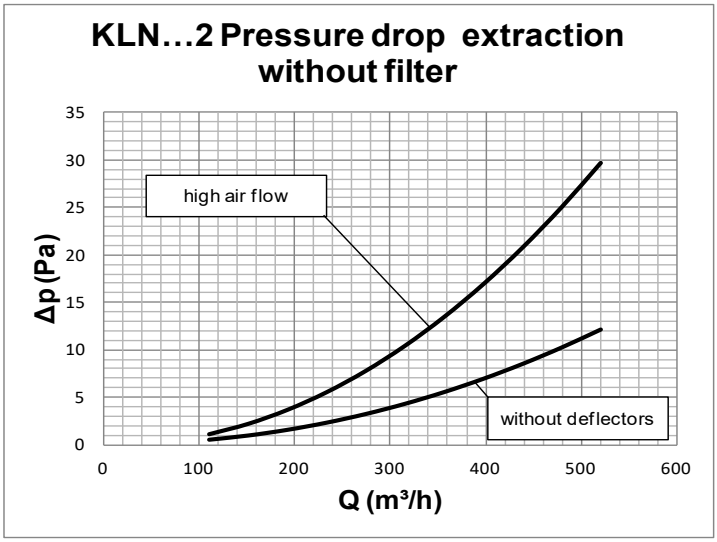
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 2 SLOTS L=1000mm







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HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
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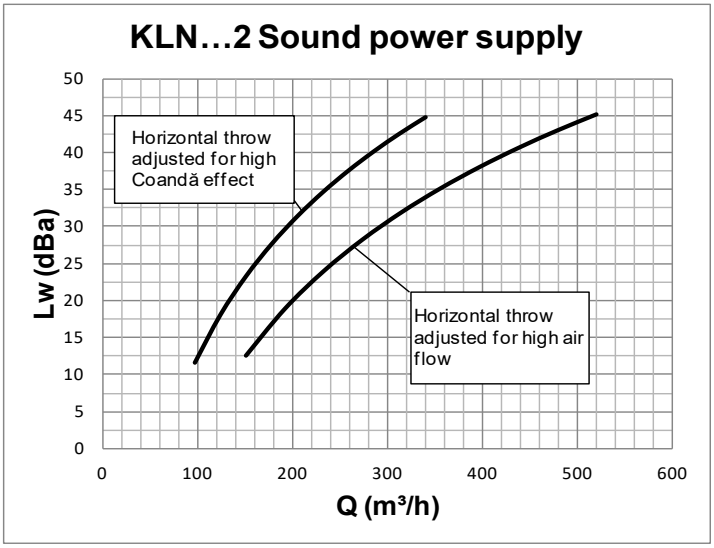

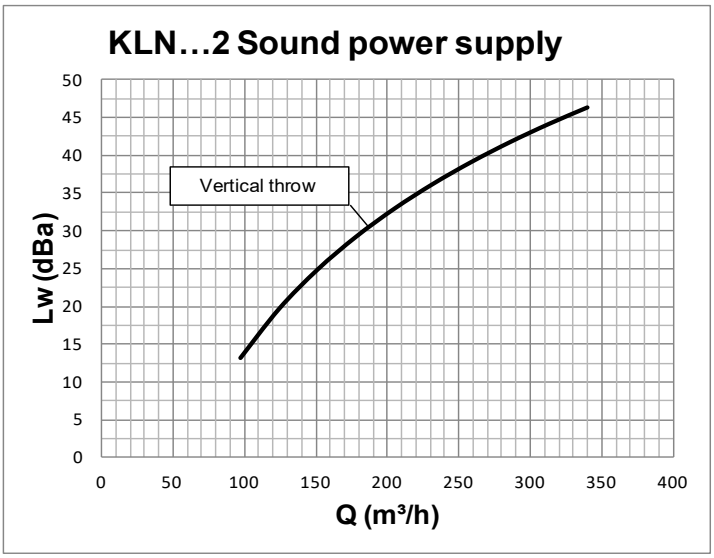

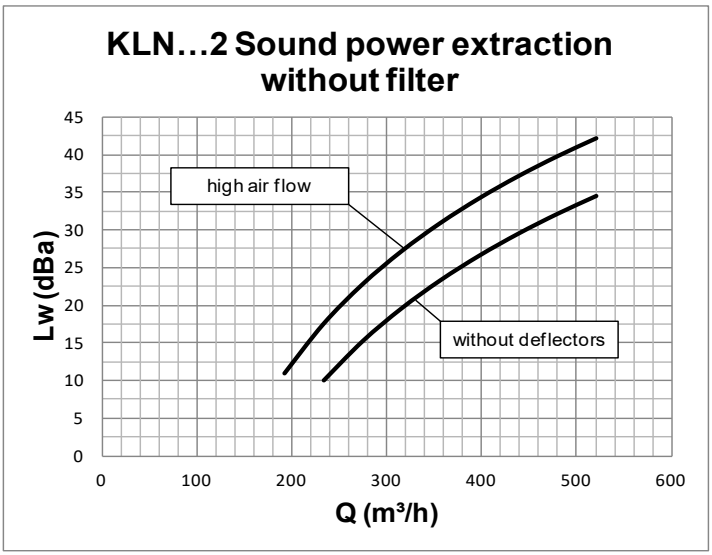

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ISO 5135 1997: *Acoustic - determination of sound power levels of noise from air-terminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.*

The data presented does not consider the attenuation given by the area of installation. This attenuation is normally between 6 and 10 dBA and is determined by the room size, the shape of the environment and the interior features.

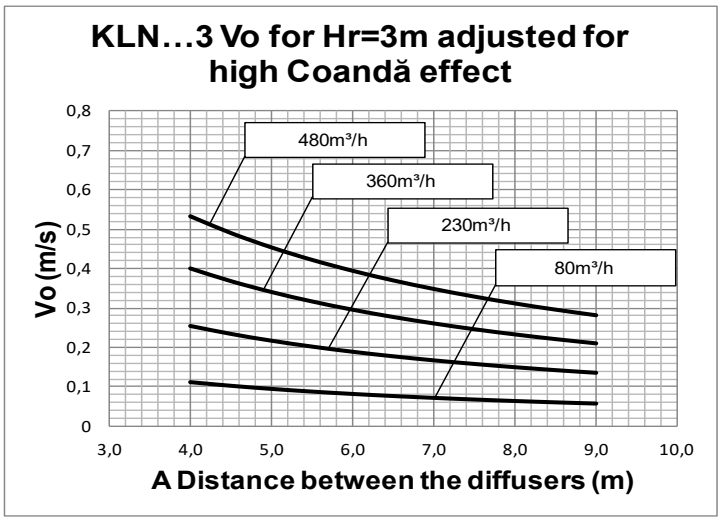
Correction factor for different length same flow rate per meter of diffuser

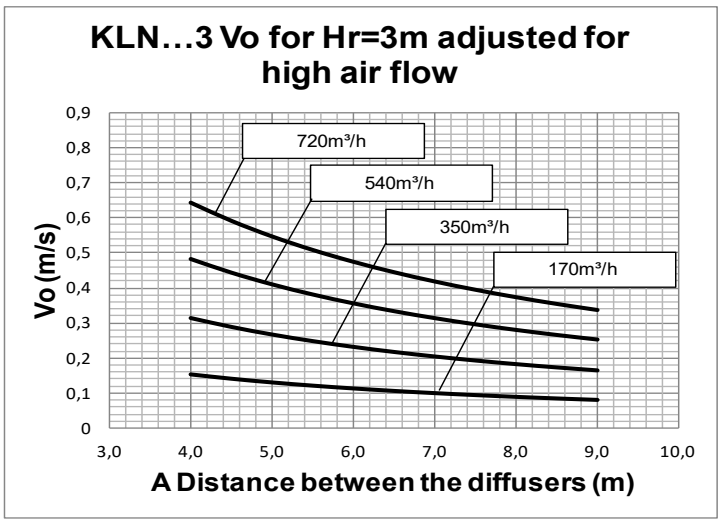
L	+Kf
600	-2,2
800	-1,0
1000	0,0
1200	0,8
1500	1,8
2000	3,0

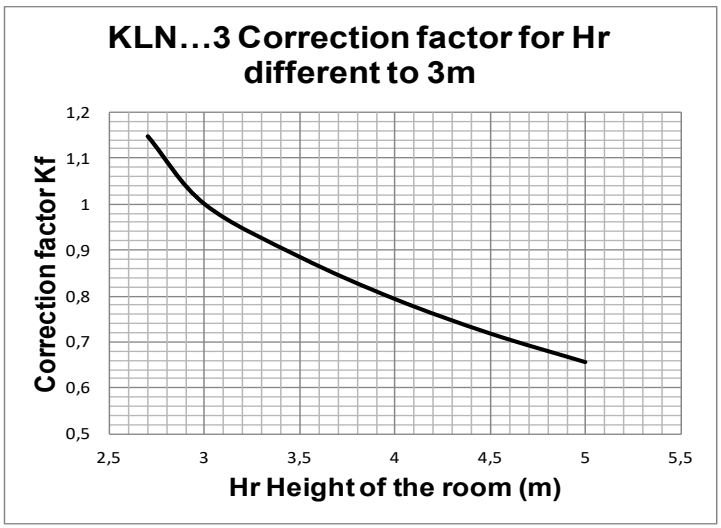
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

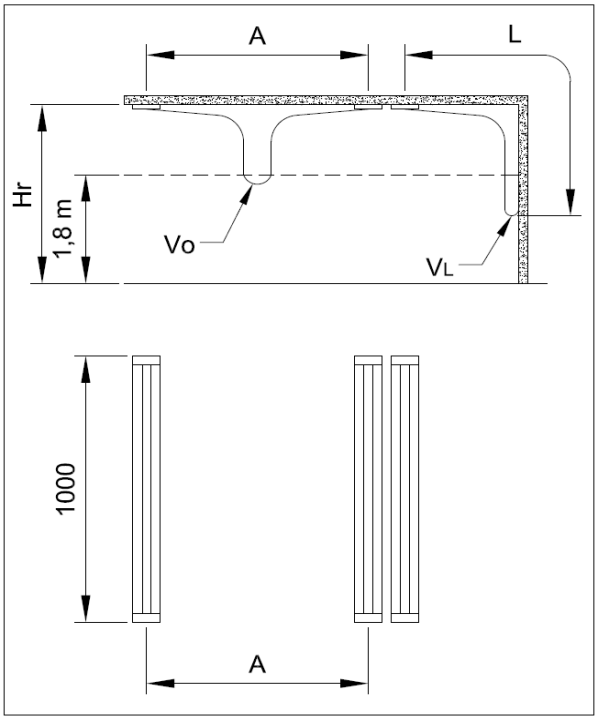
KLN
SERIES

PERFORMANCE KLN 3 SLOTS L=1000mm









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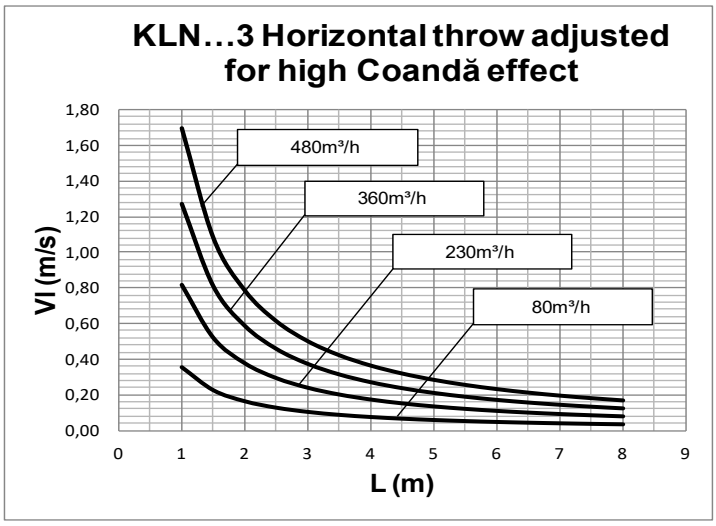
A (m) distance between diffusers
Vo (m/s) speed at limit of occupied area

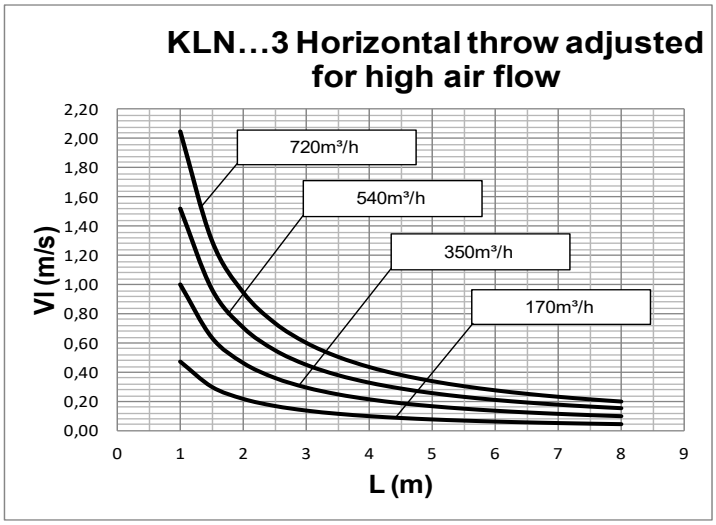
For Hr different to 3m, use the multiplier factor KF:
Vo (h) = Vo x Kf

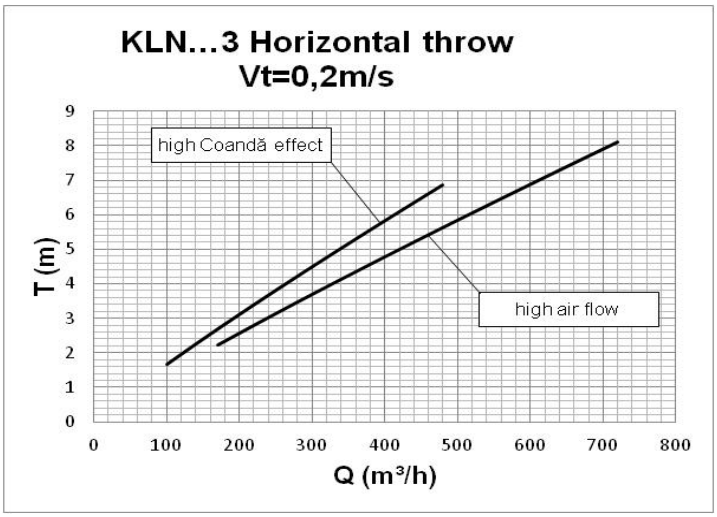
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

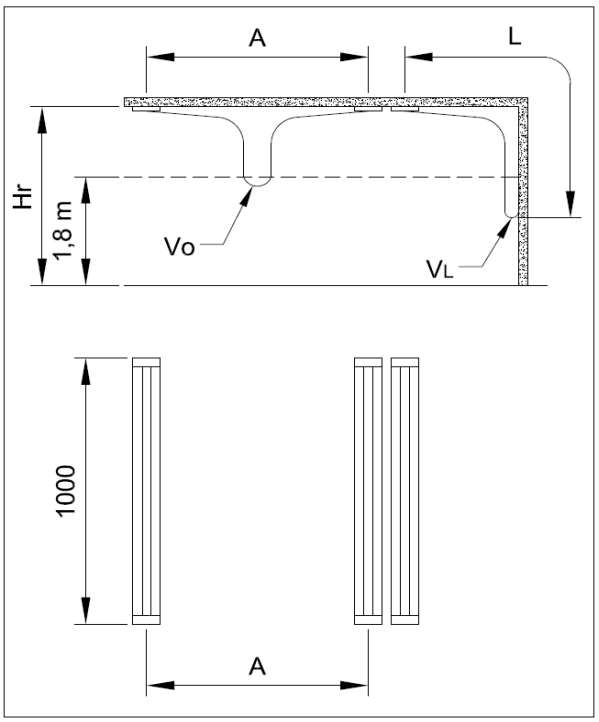
KLN
SERIES

PERFORMANCE KLN 3 SLOTS L=1000mm









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L (m) horizontal distance in meters from the centre of diffuser
VL (m/s) maximum speed in air stream at distance L
T0,2 (m) throw for an isothermal air jet with a Coandă effect for a terminal speed of Vt=0,20m/s.

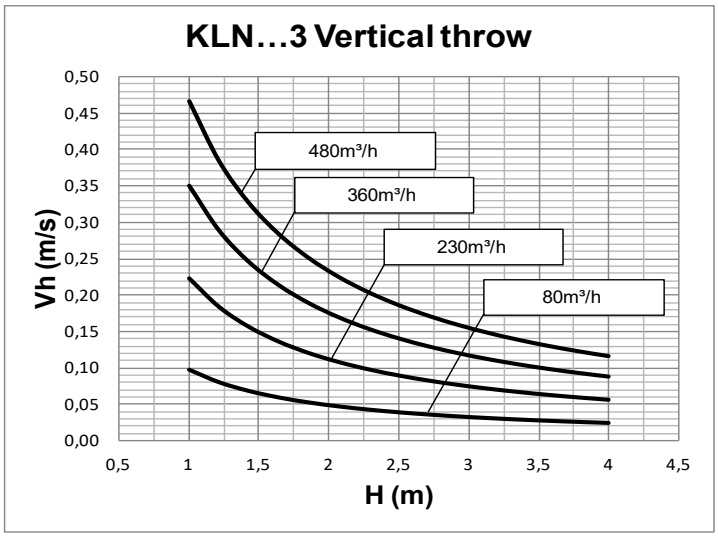
Correction factor for non isotermal conditions

	ΔT	x Kf
Cooling	-10	0,90
	-8	0,92
	-6	0,94
	-4	0,96
	-2	0,98
Heating	2	1,02
	4	1,04
	6	1,06
	8	1,08
	10	1,10

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 3 SLOTS L=1000mm



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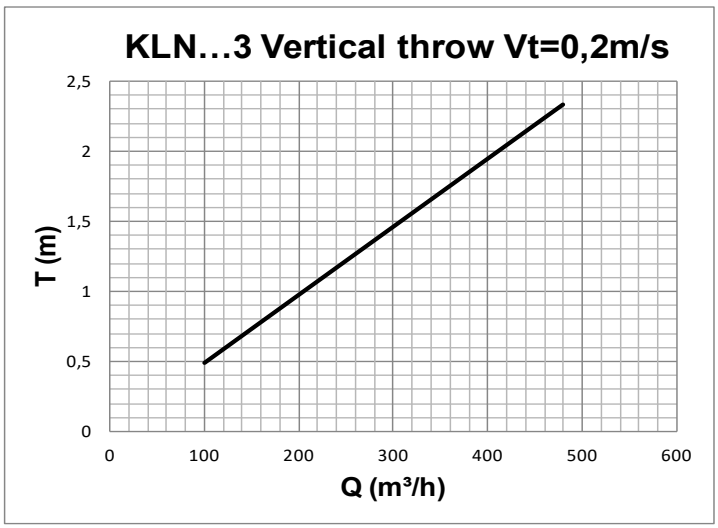

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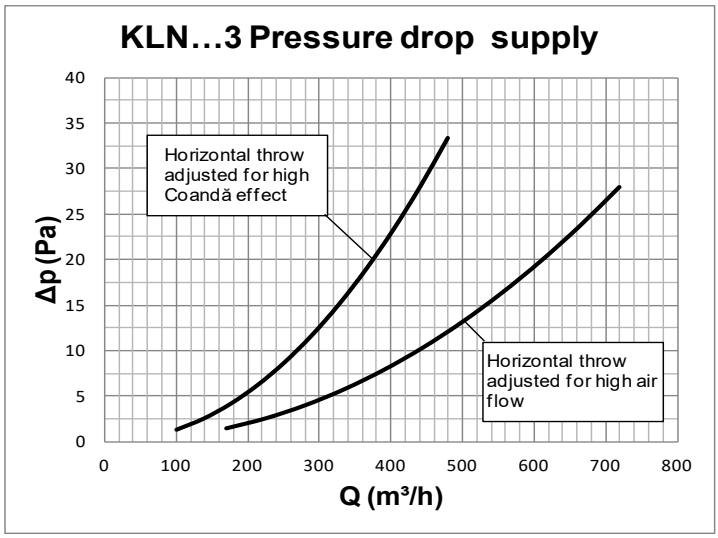
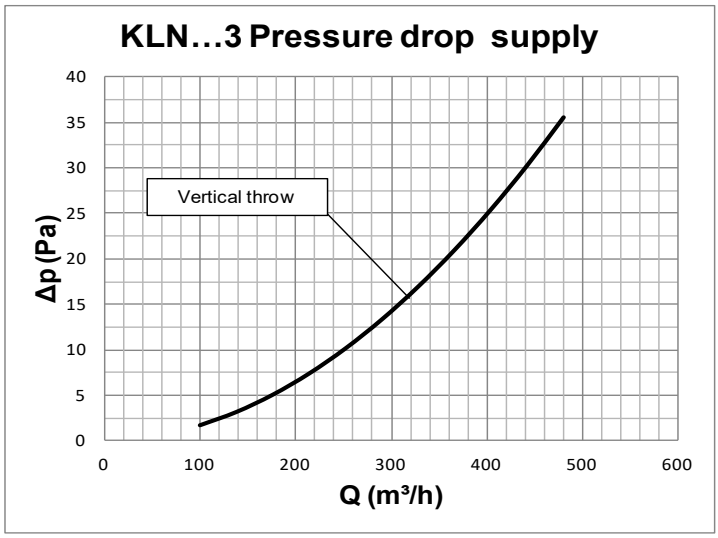
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 3 SLOTS L=1000mm





Aeraulic data measured in isothermic conditions for a one meter long diffuser in accordance with the international standard:
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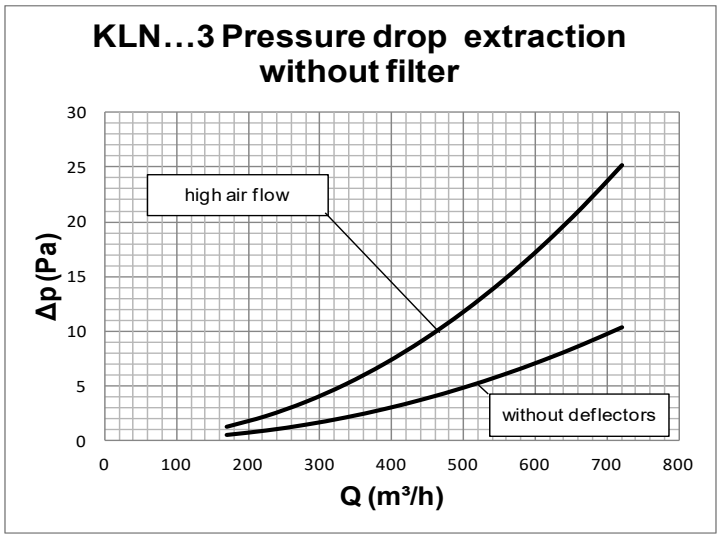
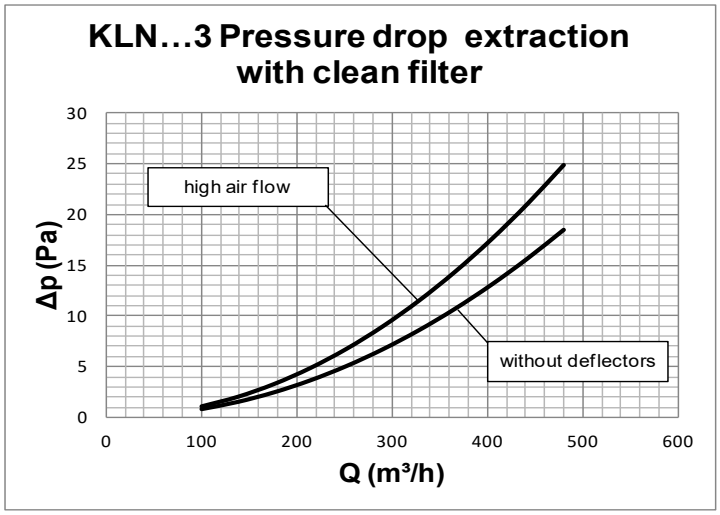
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 3 SLOTS L=1000mm





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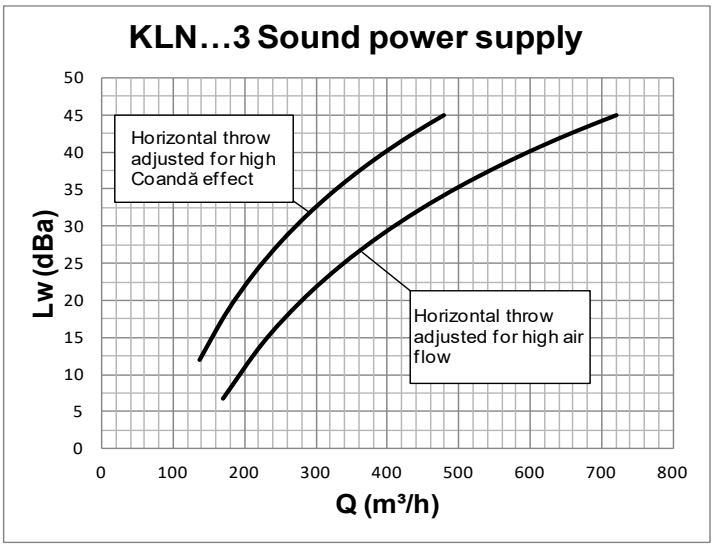
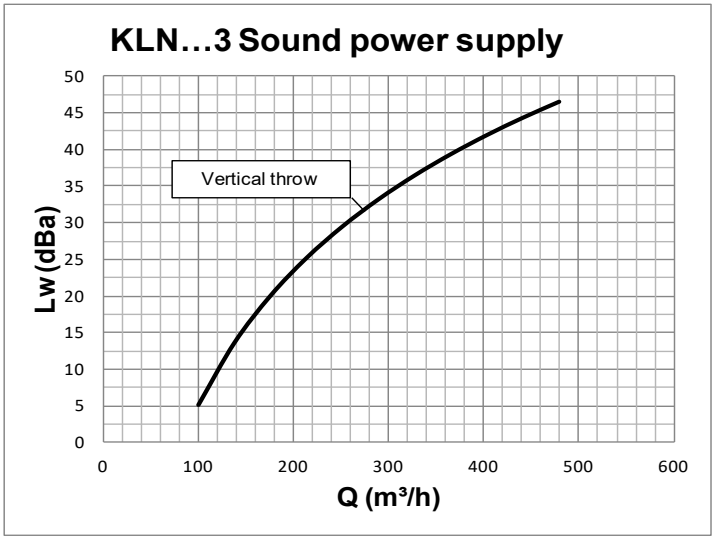
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 3 SLOTS L=1000mm





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The data presented does not consider the attenuation given by the area of installation. This attenuation is normally between 6 and 10 dBA and is determined by the room size, the shape of the environment and the interior features.

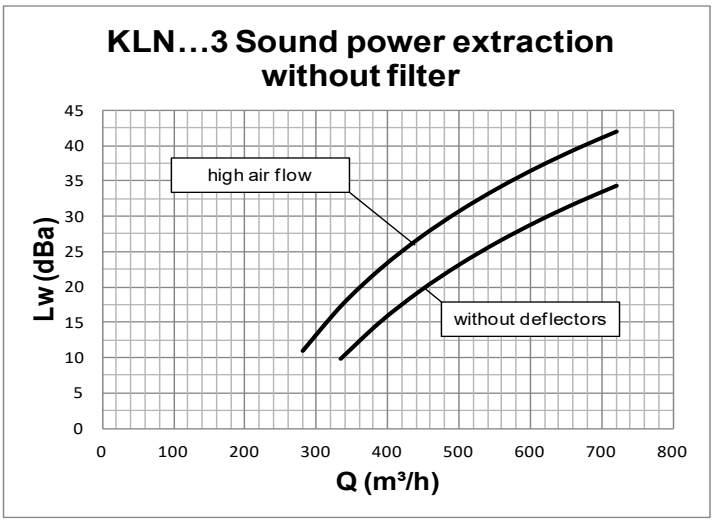
Correction factor for different length same flow rate per meter of diffuser

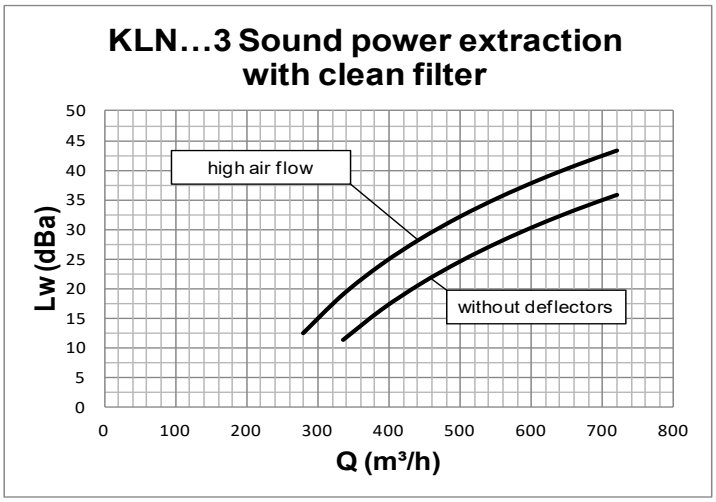
L	+Kf
600	-2,2
800	-1,0
1000	0,0
1200	0,8
1500	1,8
2000	3,0

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 3 SLOTS L=1000mm





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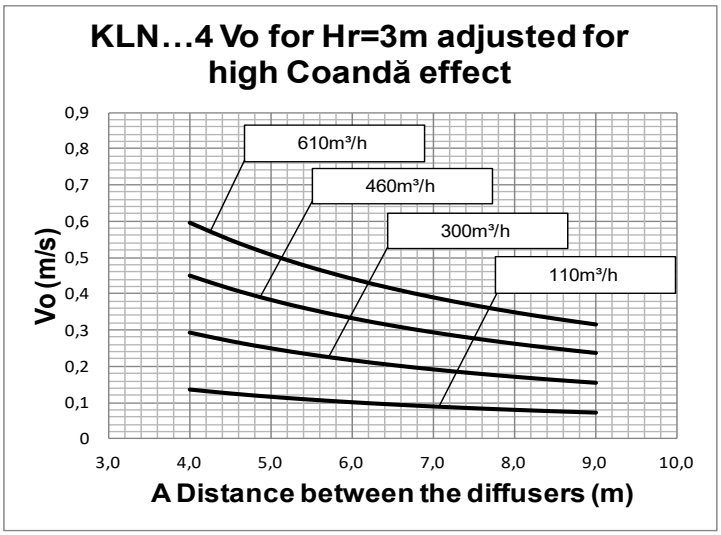
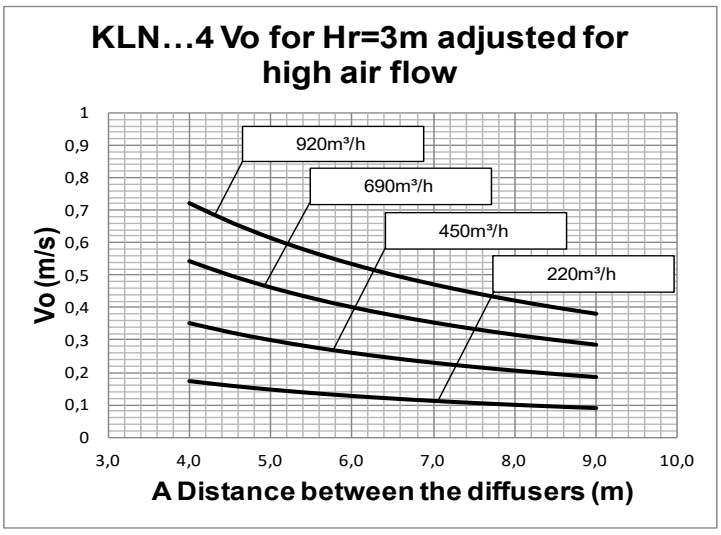
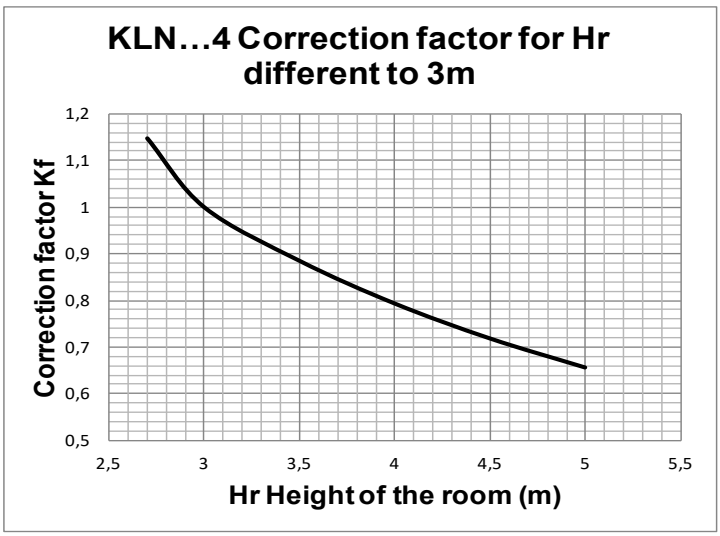
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

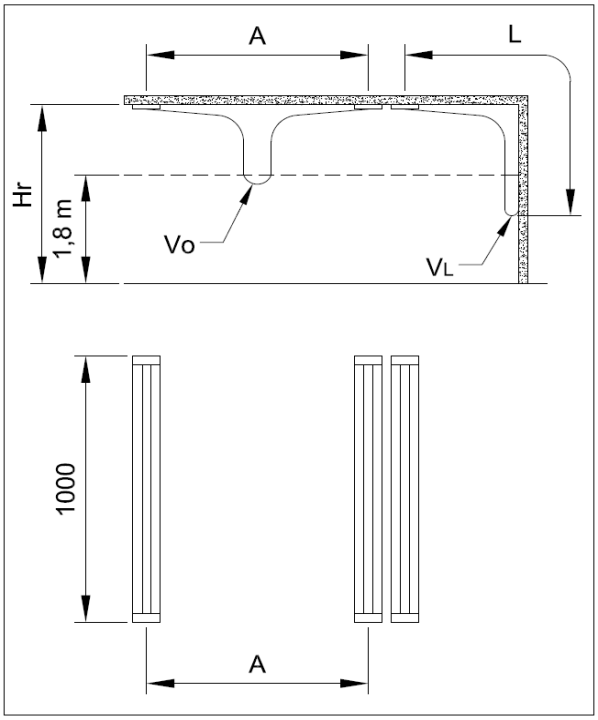
KLN
SERIES

PERFORMANCE KLN 4 SLOTS L=1000mm









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HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
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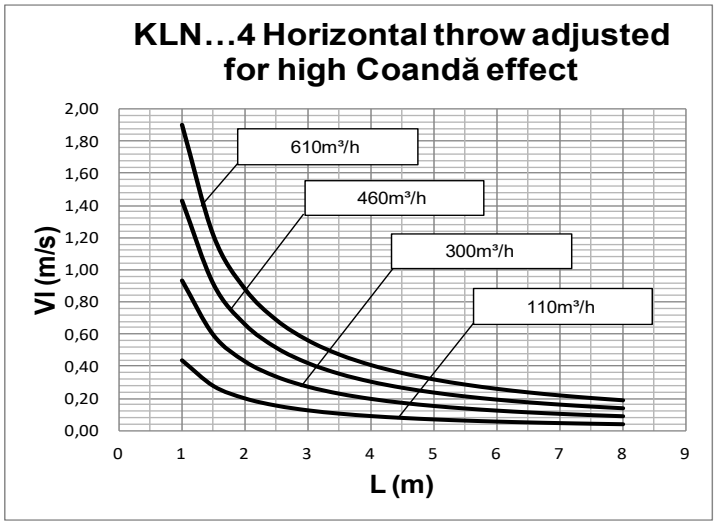

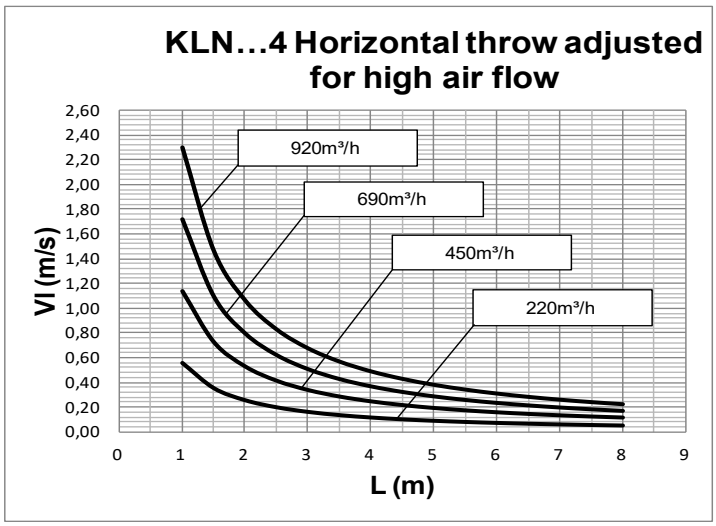

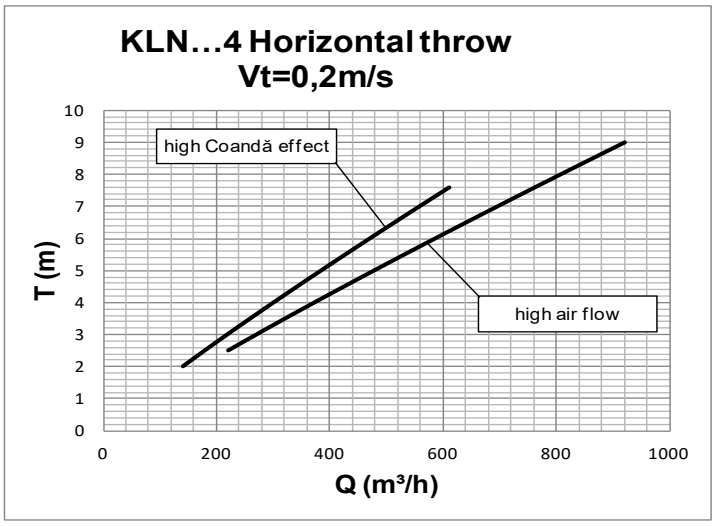

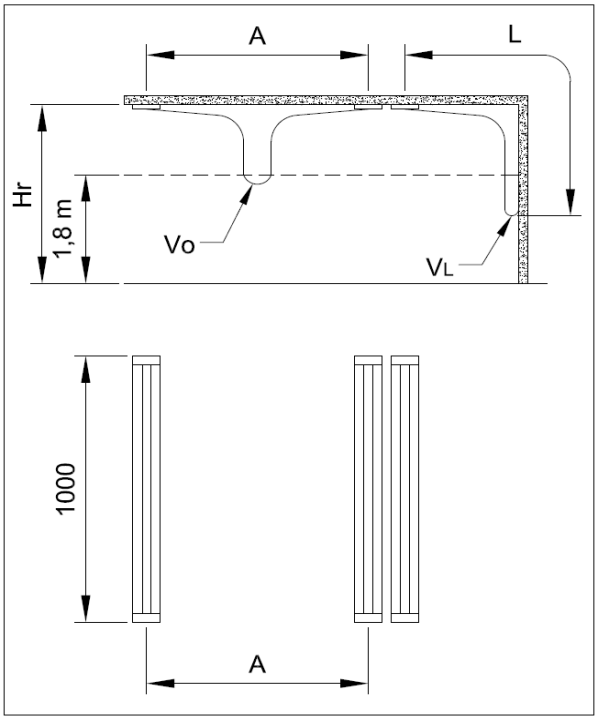

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	-6	0,94
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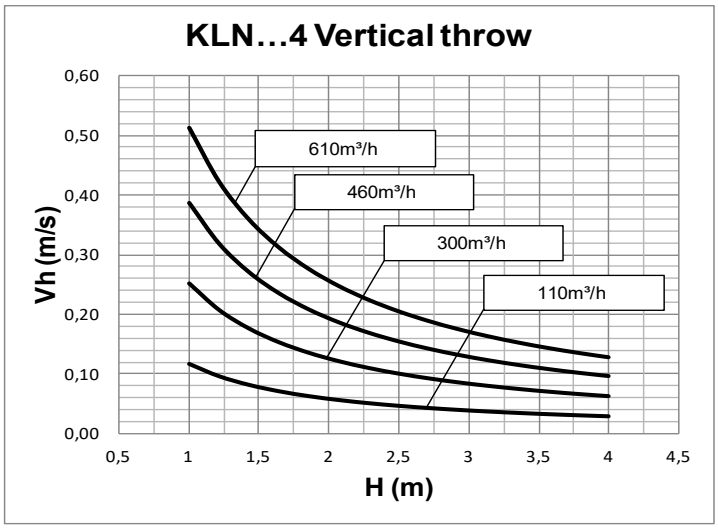
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 4 SLOTS L=1000mm



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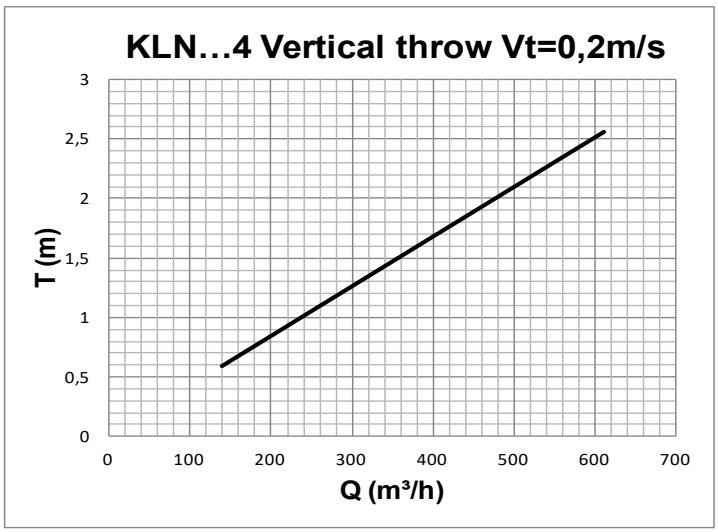

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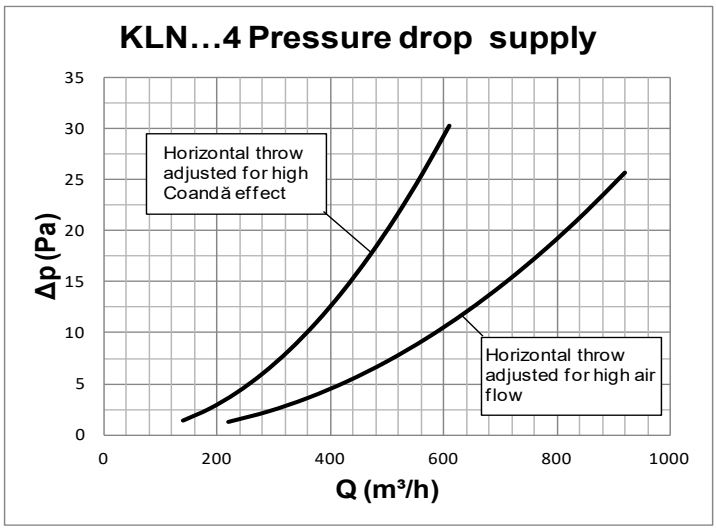
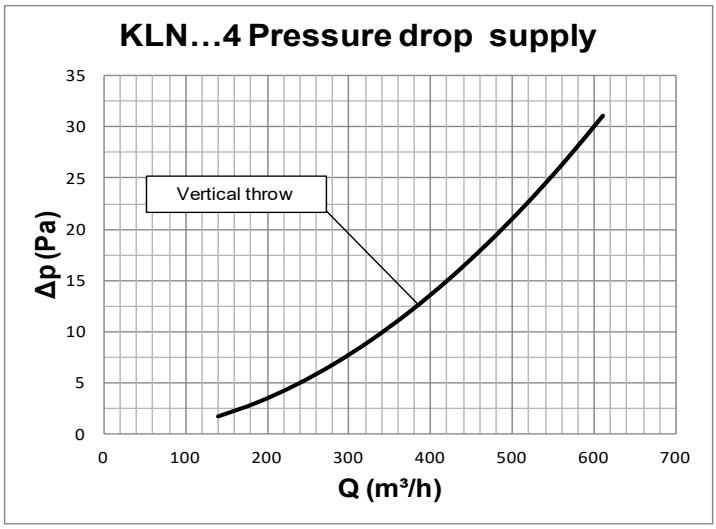
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 4 SLOTS L=1000mm





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HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

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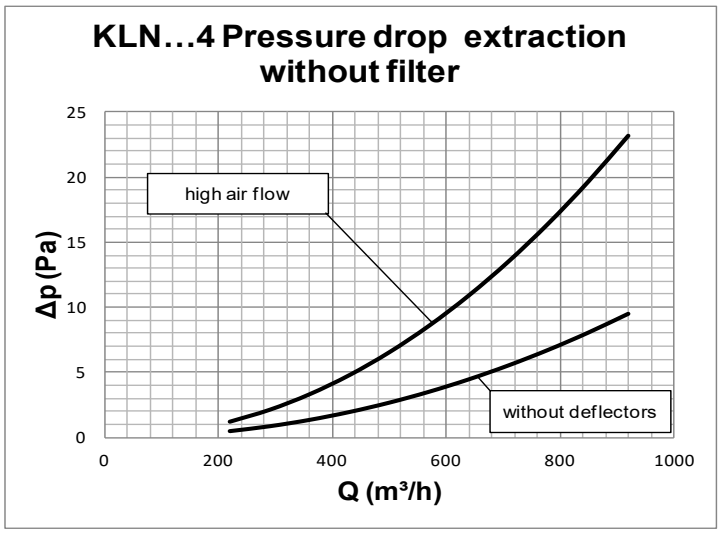

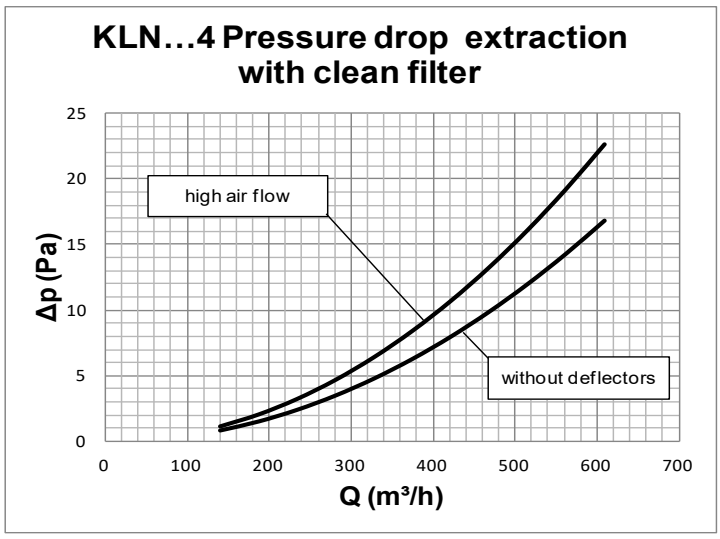

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HIGH AIR FLOW
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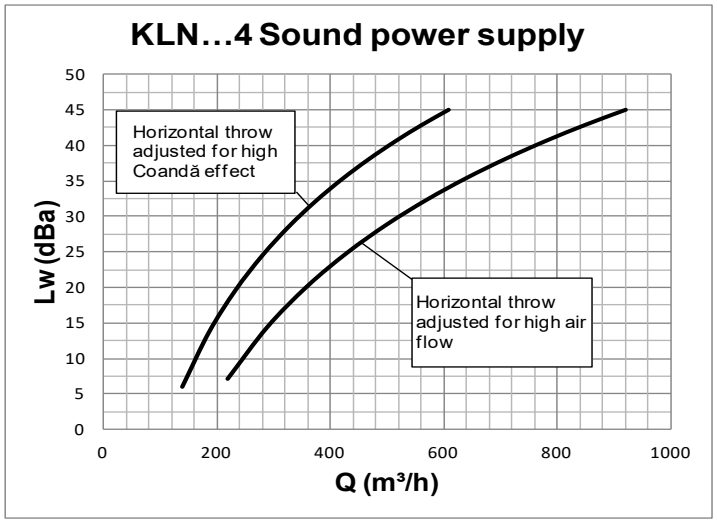
SERIES

PERFORMANCE KLN 4 SLOTS L=1000mm



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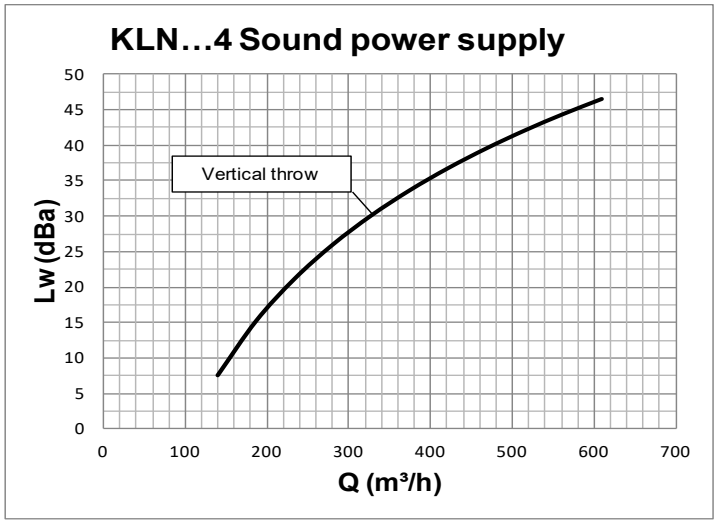


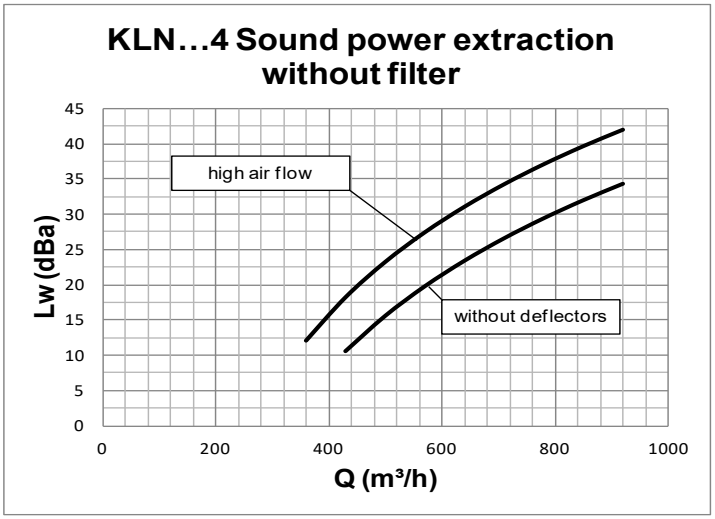
Correction factor for different length same flow rate per meter of diffuser

L	+Kf
600	-2,2
800	-1,0
1000	0,0
1200	0,8
1500	1,8
2000	3,0

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 4 SLOTS L=1000mm



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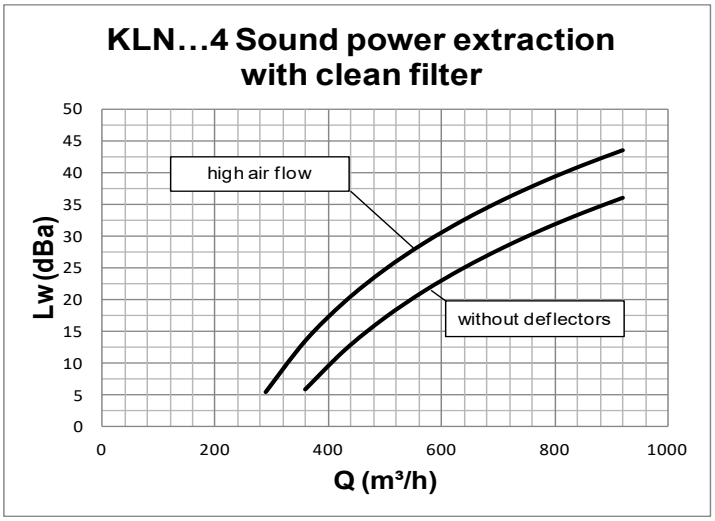

Correction factor for different length same flow rate per meter of diffuser

L	+Kf
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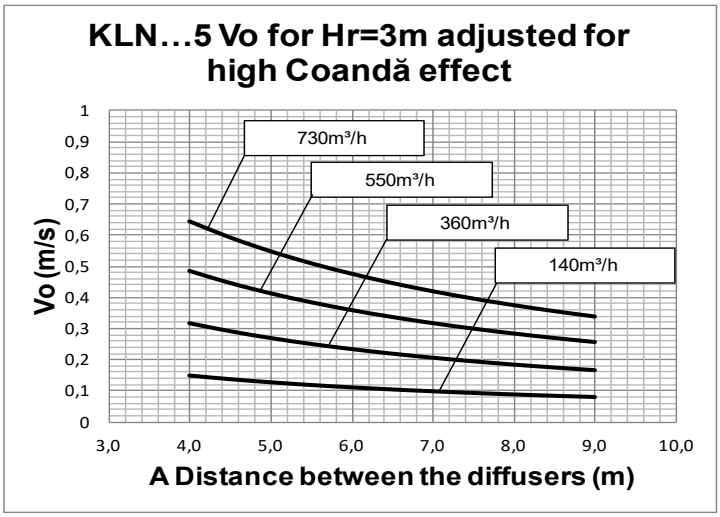
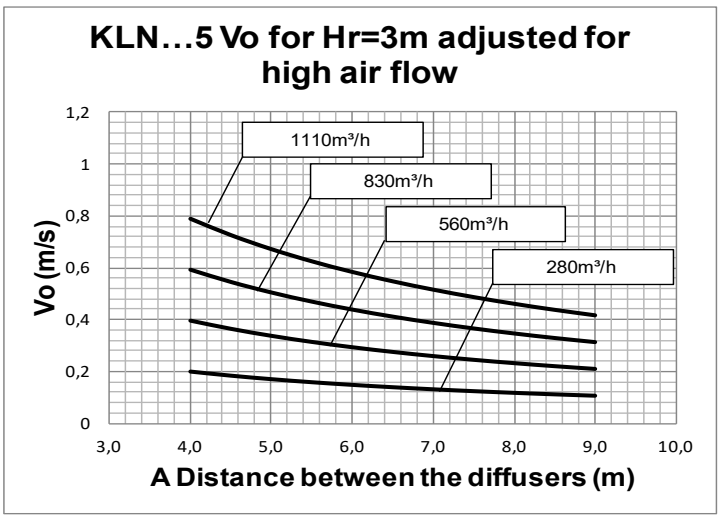
800	-1,0
1000	0,0
1200	0,8
1500	1,8
2000	3,0

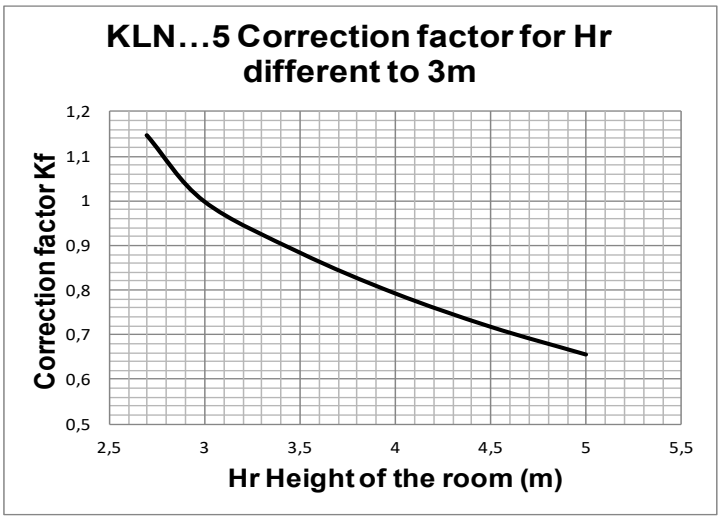
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

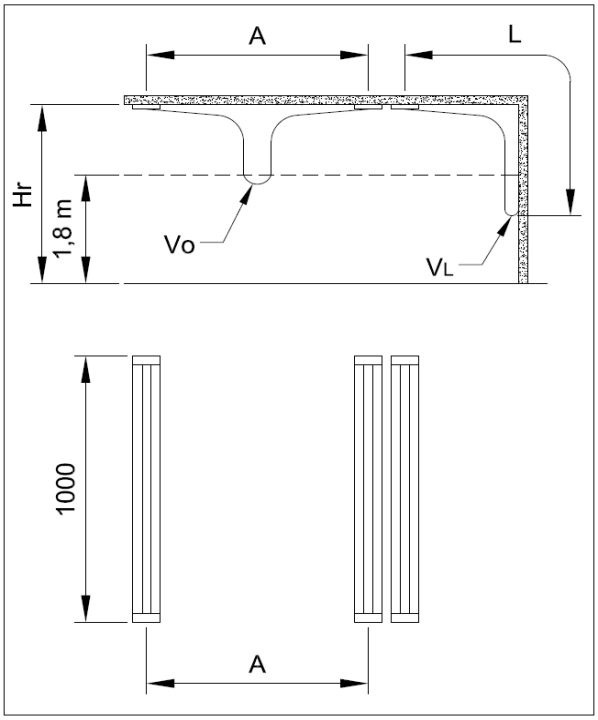
KLN
SERIES

PERFORMANCE KLN 5 SLOTS L=1000mm









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.*

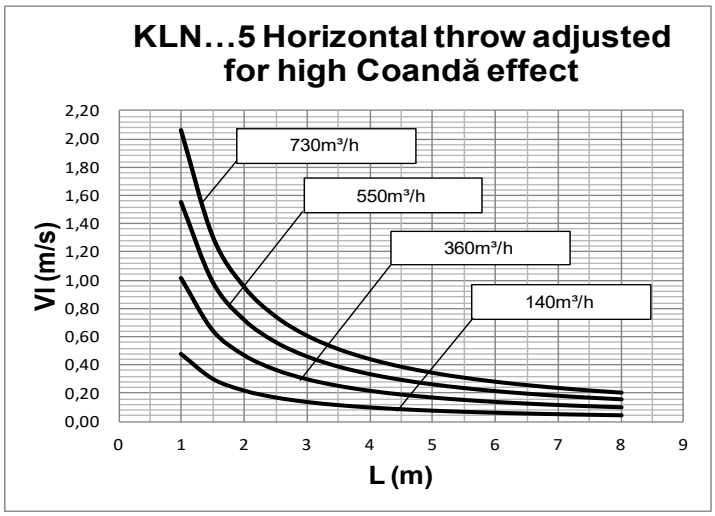
A (m) distance between diffusers
Vo (m/s) speed at limit of occupied area

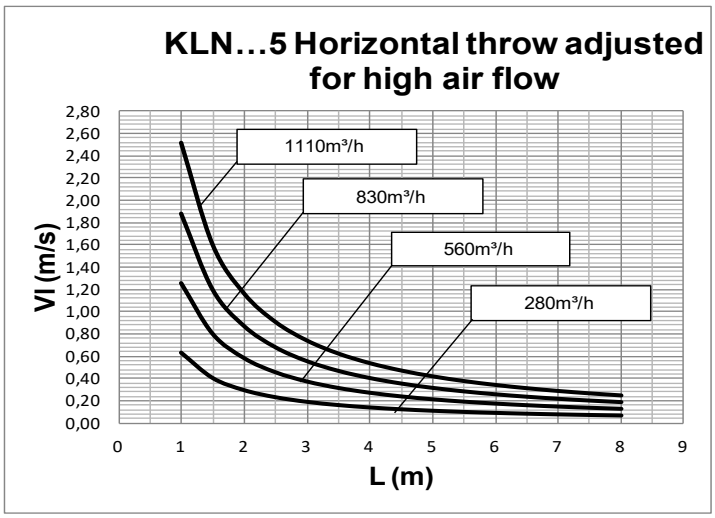
For Hr different to 3m, use the multiplier factor KF:
Vo (h) = Vo x Kf

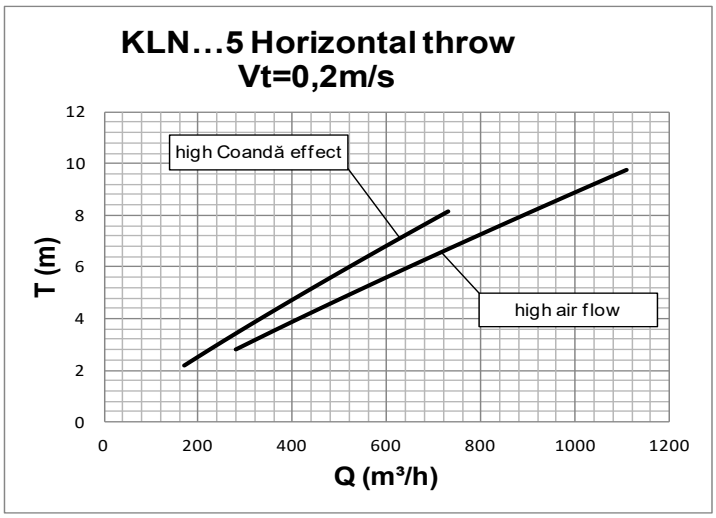
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

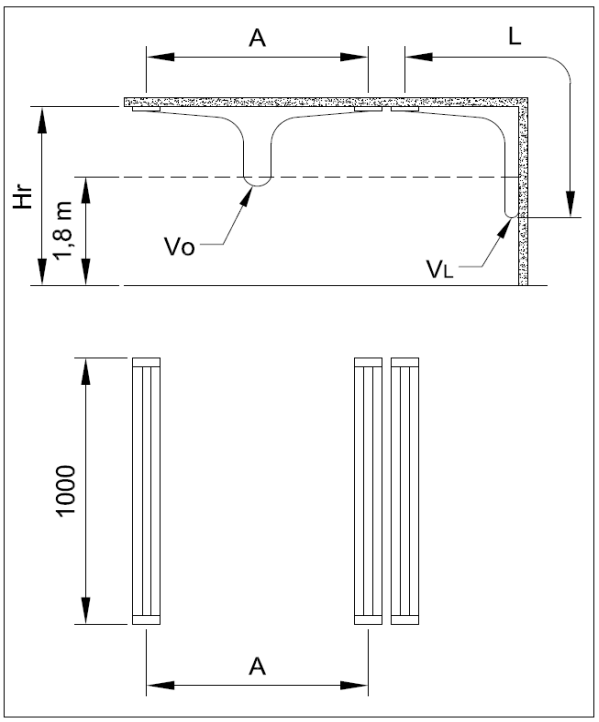
KLN
SERIES

PERFORMANCE KLN 5 SLOTS L=1000mm









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L (m) horizontal distance in meters from the centre of diffuser
VL (m/s) maximum speed in air stream at distance L
T0,2 (m) throw for an isothermal air jet with a Coandă effect for a terminal speed of Vt=0,20m/s.

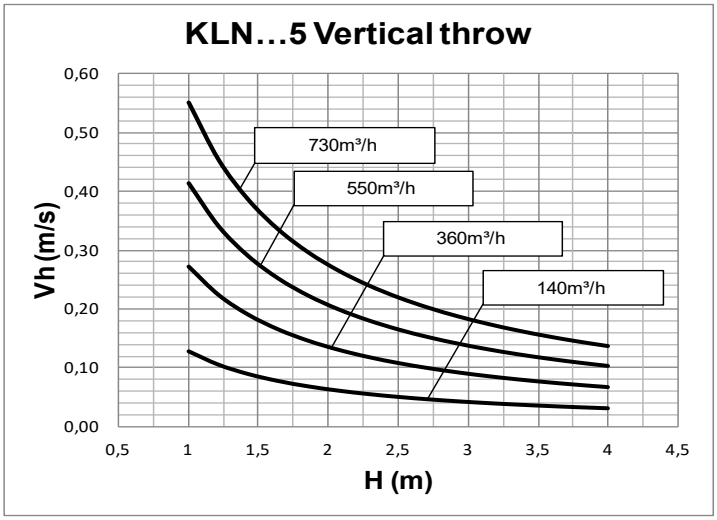
Correction factor for non isotermal conditions

	ΔT	x Kf
Cooling	-10	0,90
	-8	0,92
	-6	0,94
	-4	0,96
	-2	0,98
Heating	2	1,02
	4	1,04
	6	1,06
	8	1,08
	10	1,10

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 5 SLOTS L=1000mm



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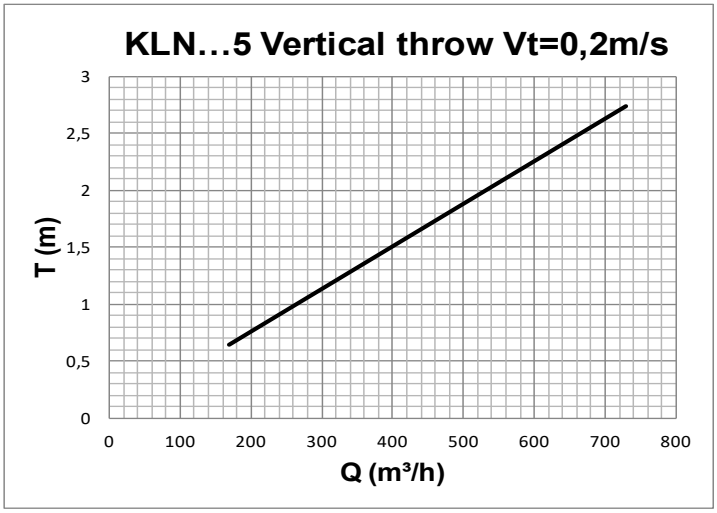
H (m) vertical distance in meters from ceiling
Vh (m/s) maximum speed in air stream at distance H
T0,2 (m) throw for an isothermal air jet for a terminal speed of Vt=0,20m/s.



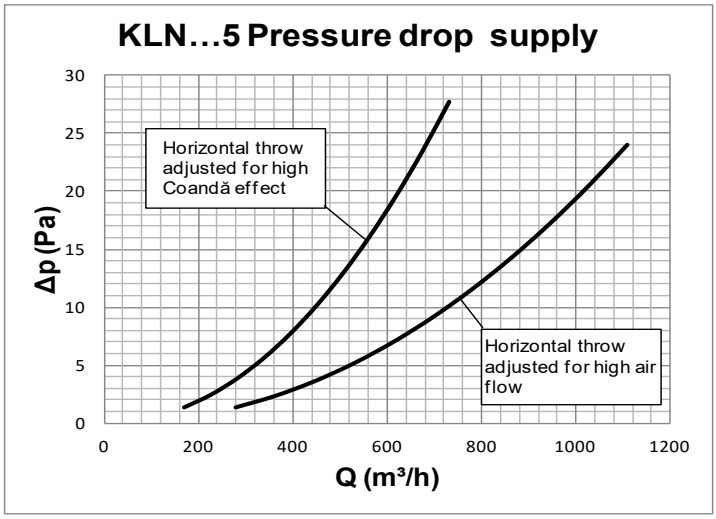
Correction factor for non isotermal conditions

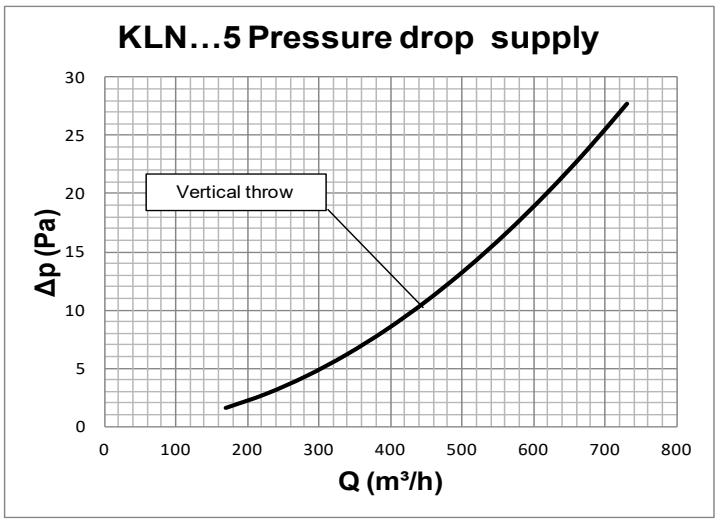
	ΔT	x Kf
Cooling	-10	1,11
	-8	1,09
	-6	1,06
	-4	1,04
	-2	1,02
Heating	2	0,98
	4	0,96
	6	0,94
	8	0,93
	10	0,91

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 5 SLOTS L=1000mm





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HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

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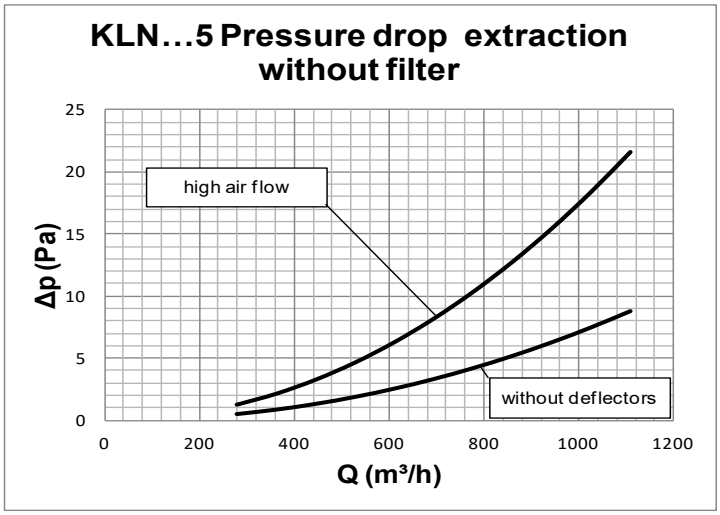

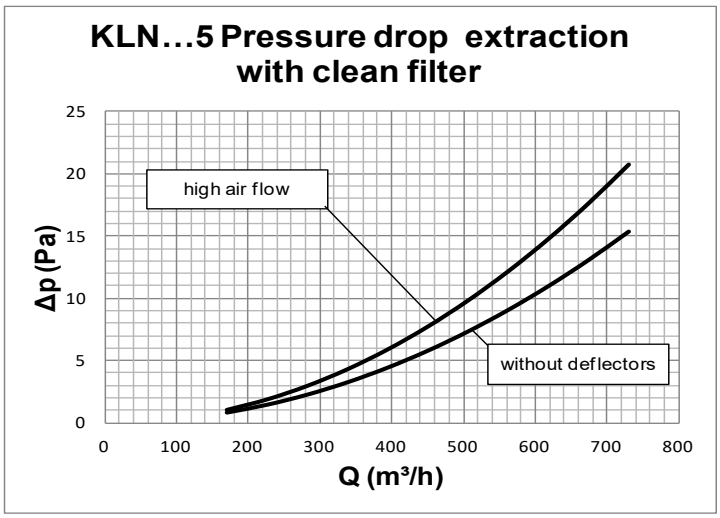

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HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

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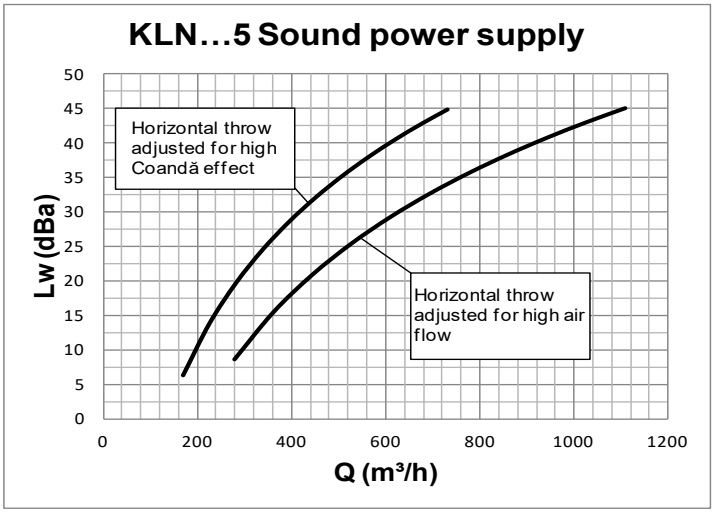

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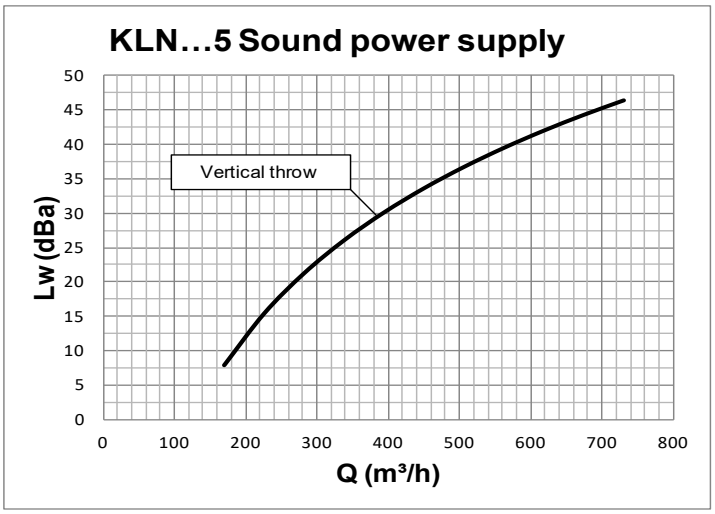

Correction factor for different length same flow rate per meter of diffuser

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HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

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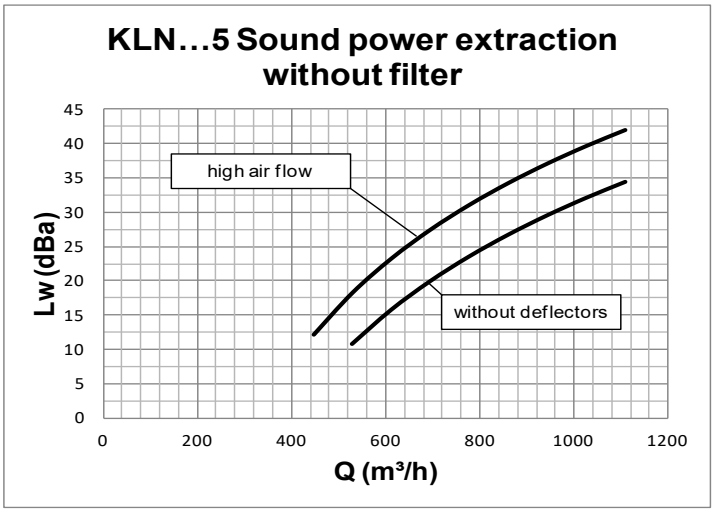

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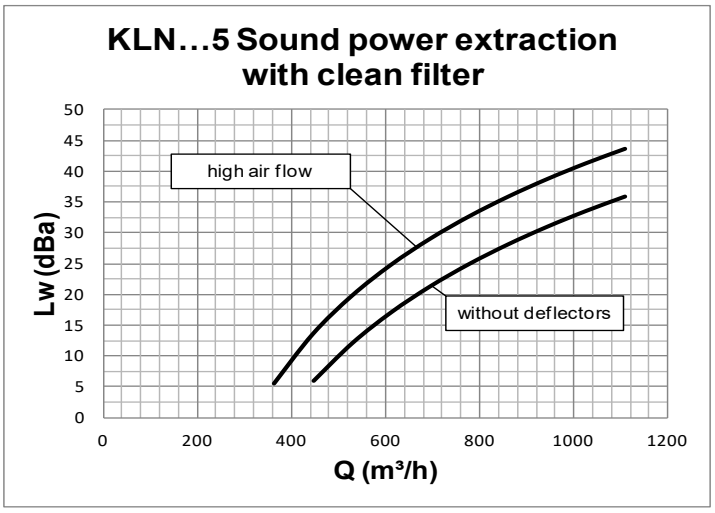

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HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

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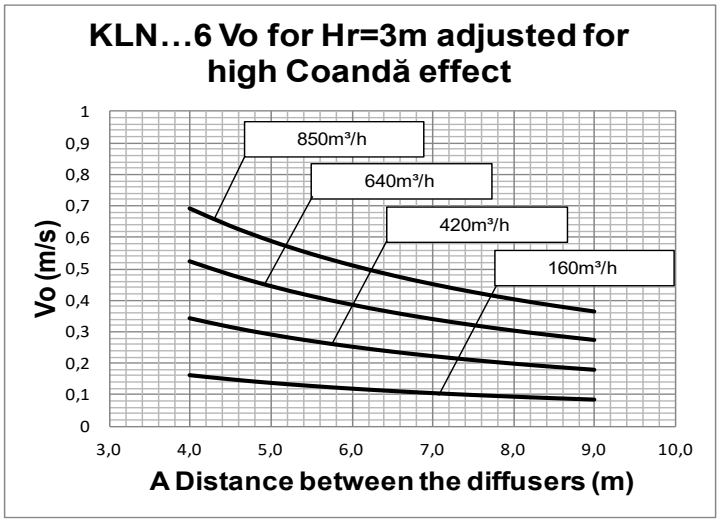

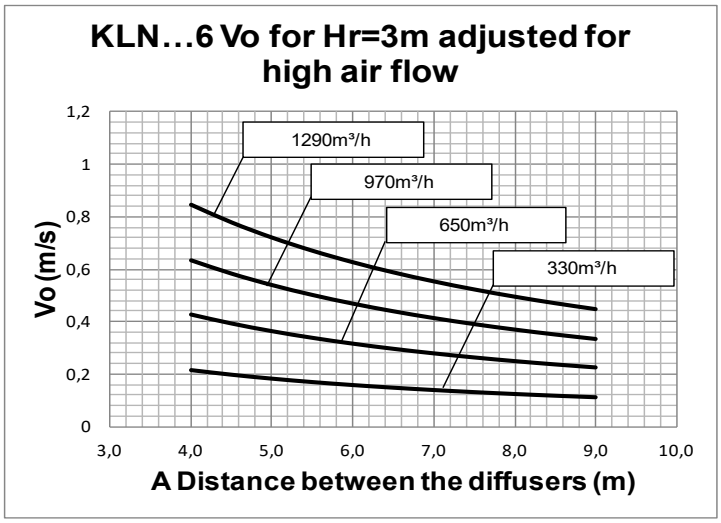

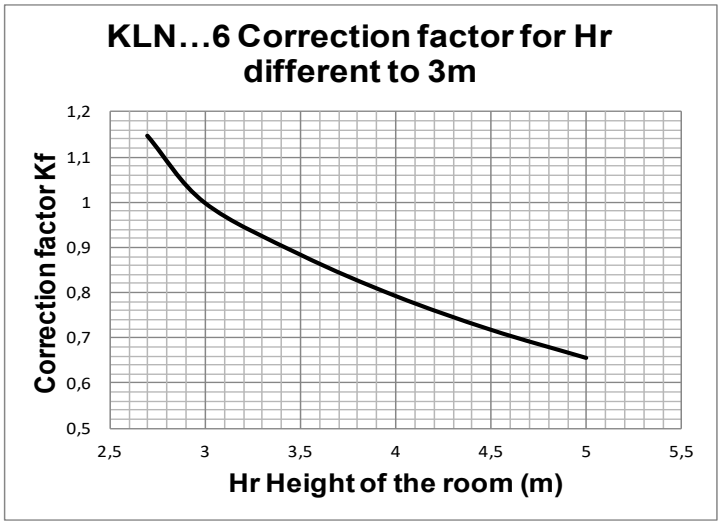

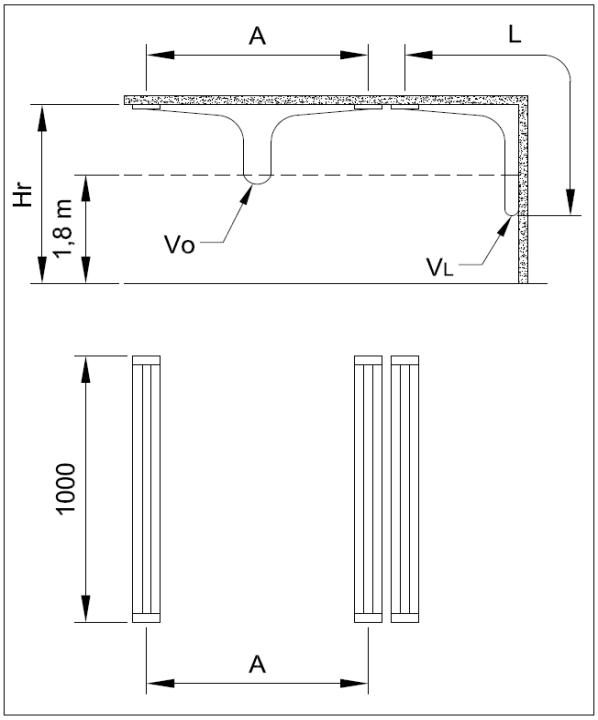

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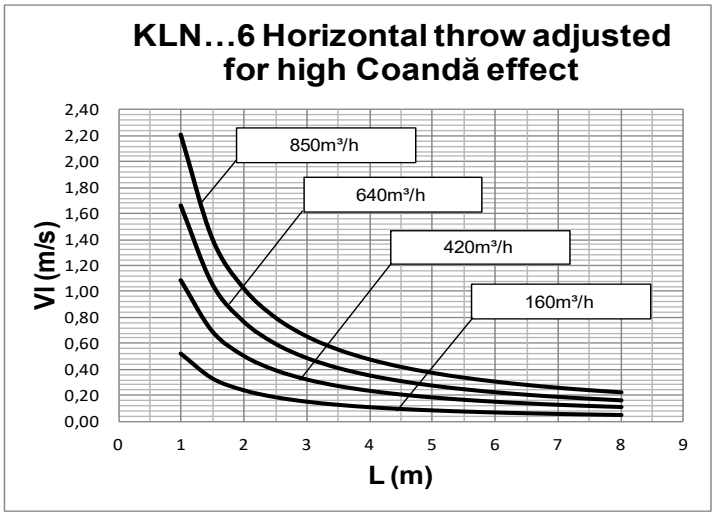
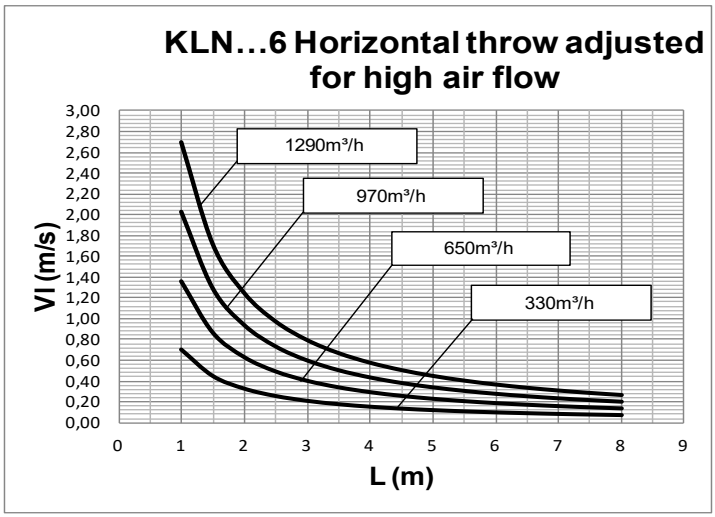
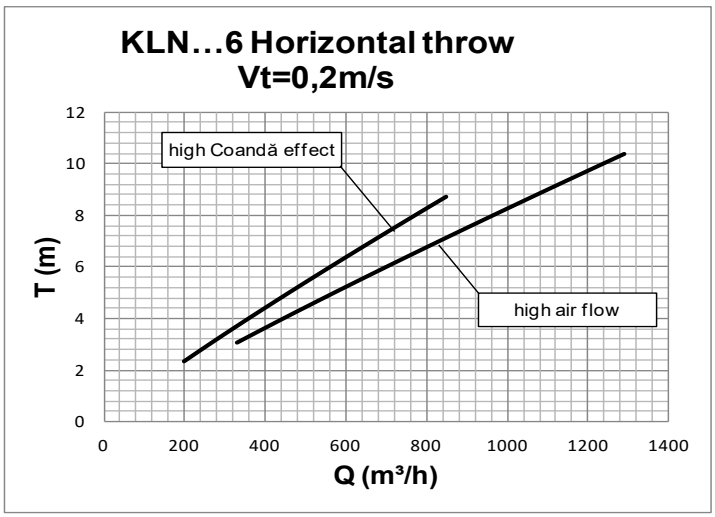
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

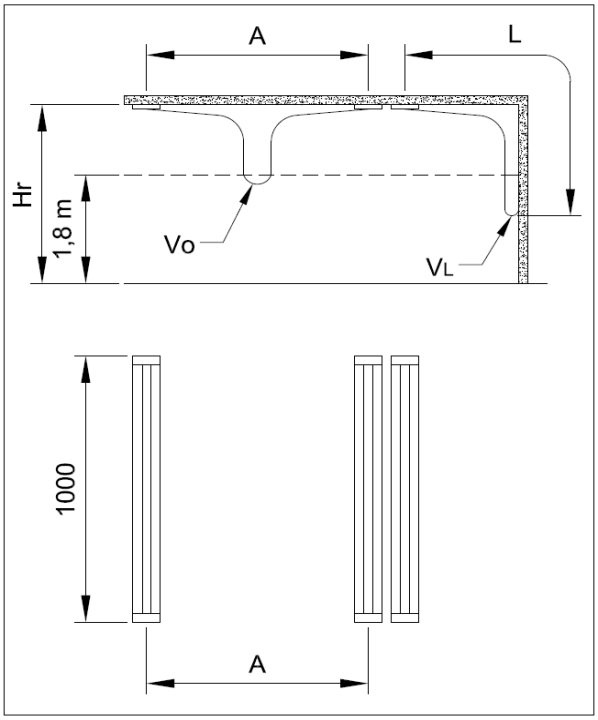
KLN
SERIES

PERFORMANCE KLN 6 SLOTS L=1000mm









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Cooling	-10	0,90
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	6	1,06
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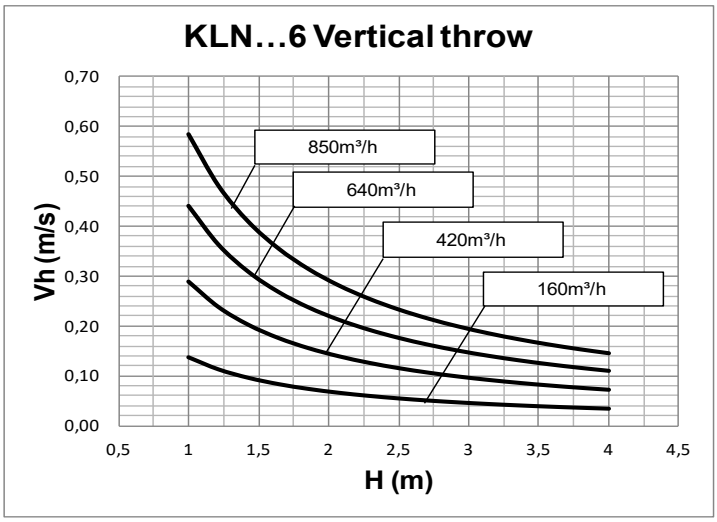
HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 6 SLOTS L=1000mm



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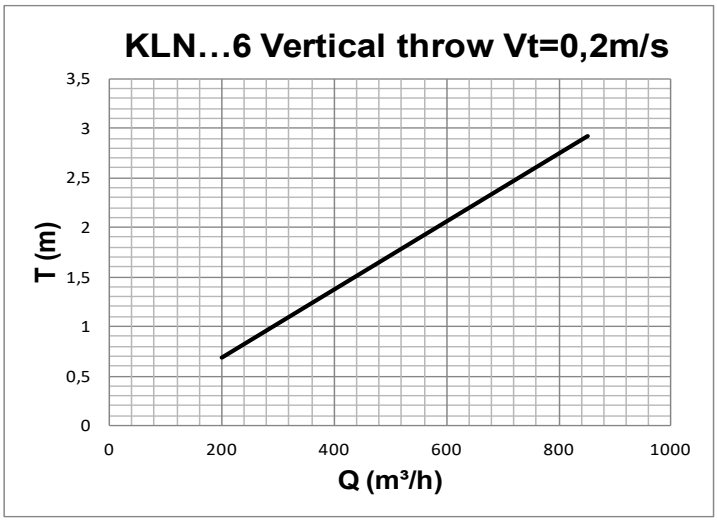

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	4	0,96
	6	0,94
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HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

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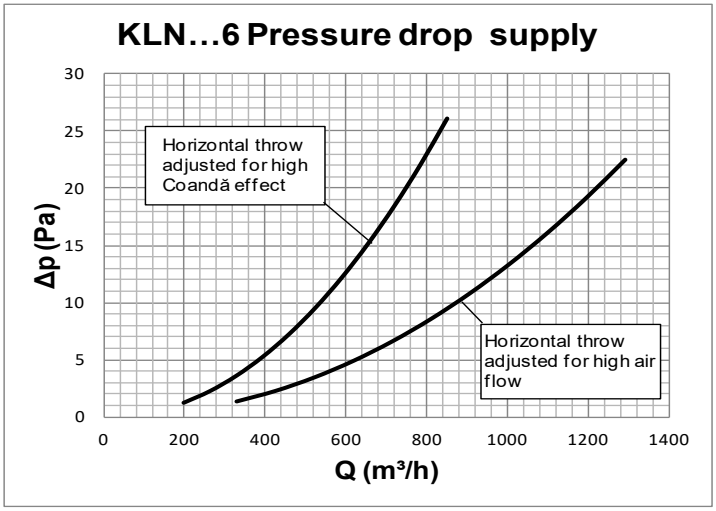

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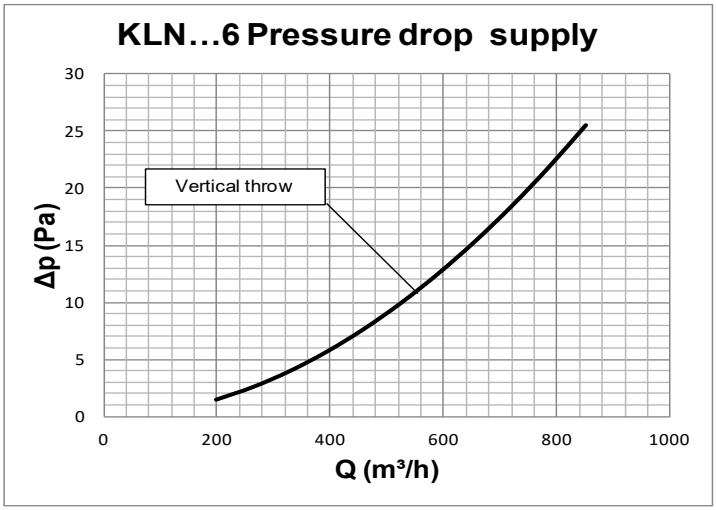

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

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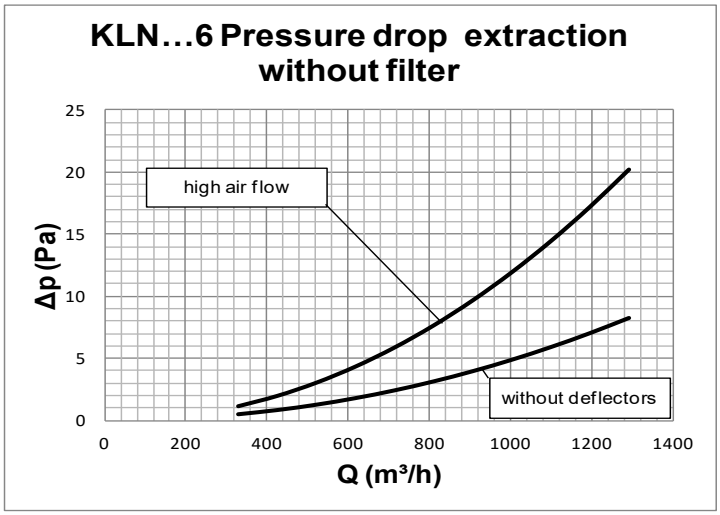

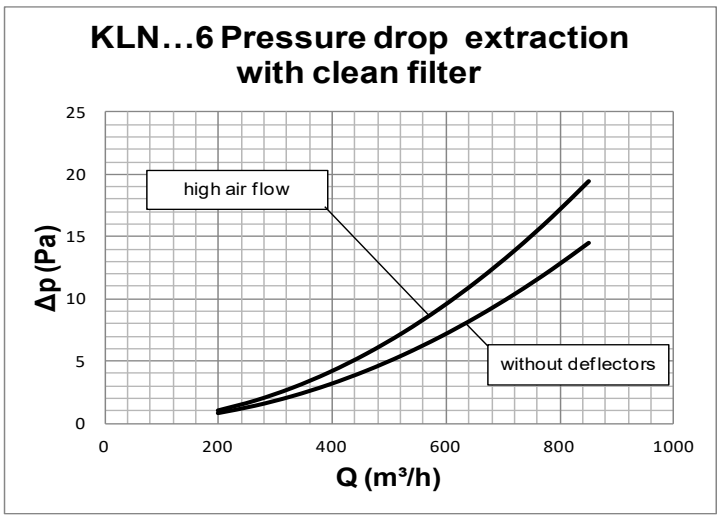

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HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

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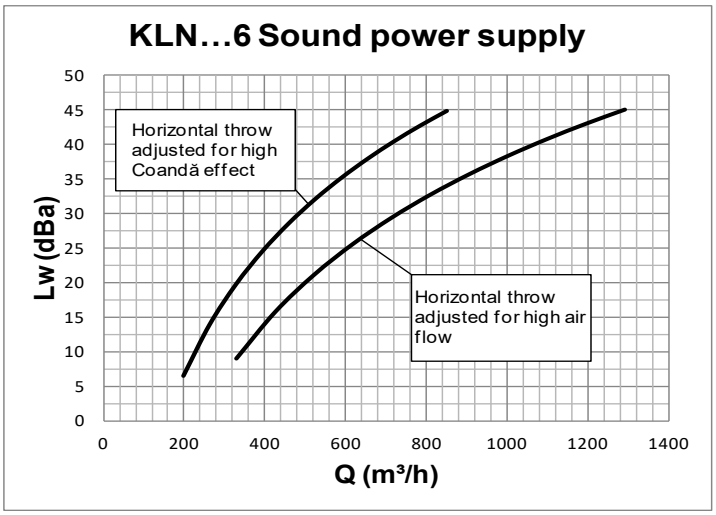

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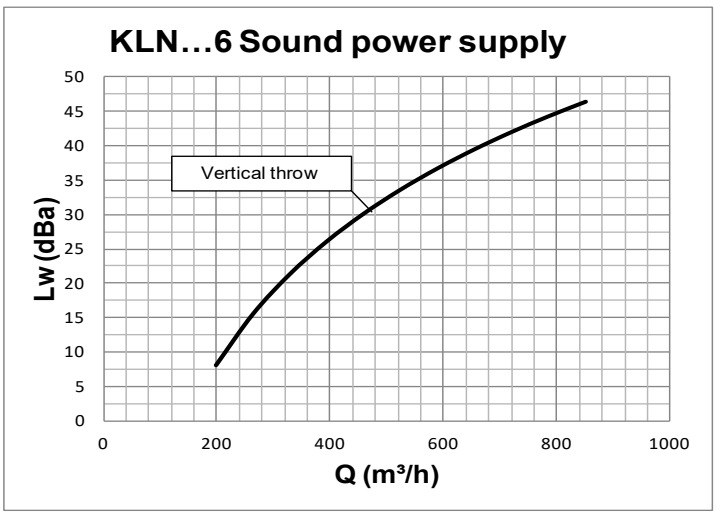


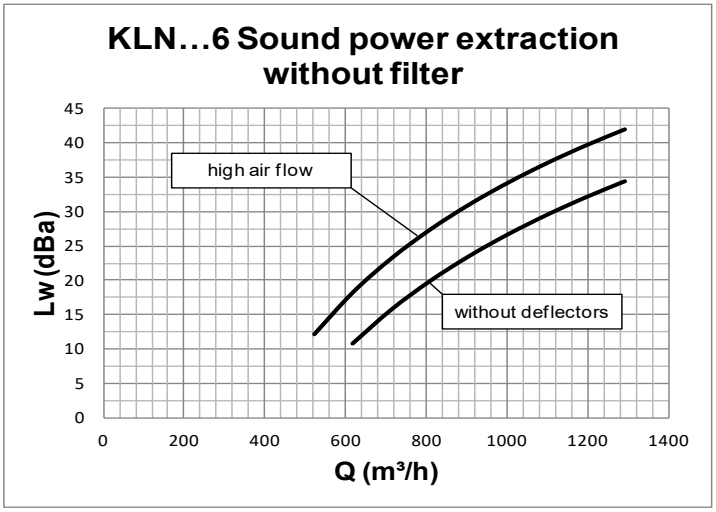
Correction factor for different length same flow rate per meter of diffuser

L	+Kf
600	-2,2
800	-1,0
1000	0,0
1200	0,8
1500	1,8
2000	3,0

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

KLN
SERIES

PERFORMANCE KLN 6 SLOTS L=1000mm



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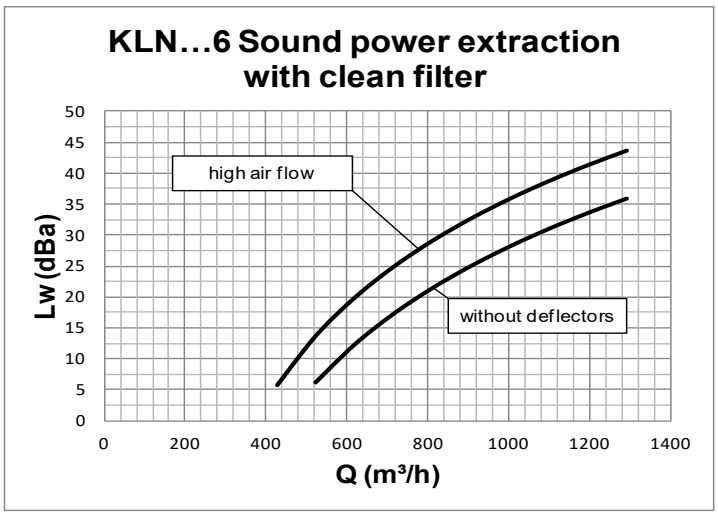
ISO 5135 1997: *Acoustic - determination of sound power levels of noise from air-terminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.*

The data presented does not consider the attenuation given by the area of installation. This attenuation is normally between 6 and 10 dBA and is determined by the room size, the shape of the environment and the interior features.



Correction factor for different length same flow rate per meter of diffuser

L	+Kf
600	-2,2
800	-1,0
1000	0,0
1200	0,8
1500	1,8
2000	3,0

HIGH AIR FLOW
LINEAR SLOT DIFFUSERS

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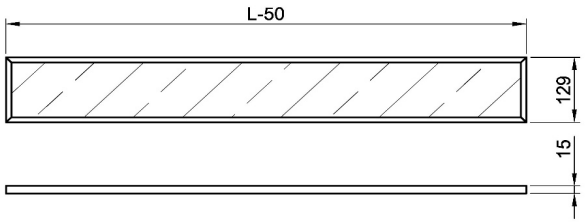
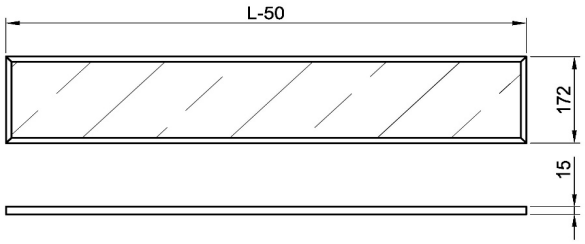
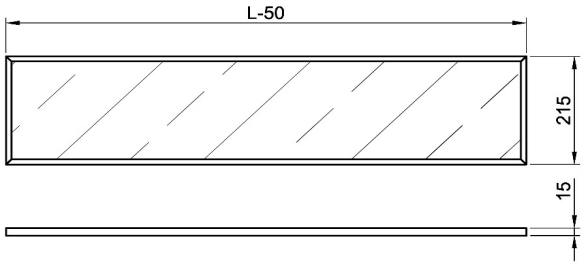
FILTERS



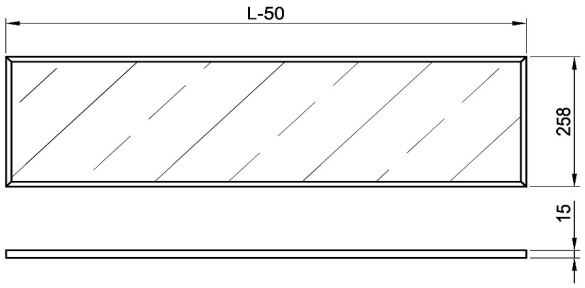
Filter for 3 slots diffuser
Filtering class G3.
Polyester fiber material.
Galvanized steel containment frame .
Metal net on both sides.



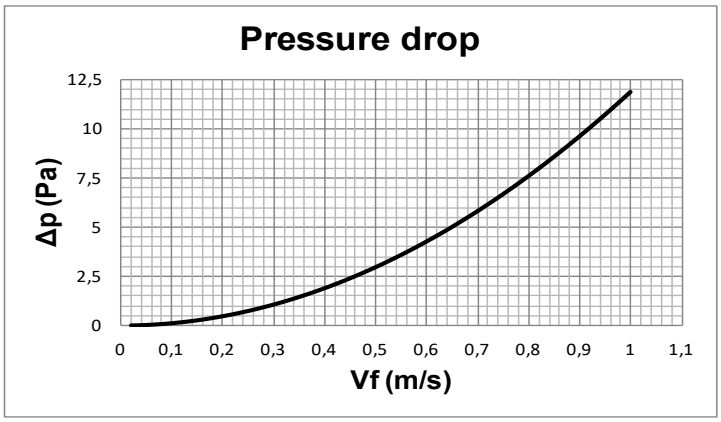
Filter for 4 slots diffuser
Filtering class G3.
Polyester fiber material.
Galvanized steel containment frame .
Metal net on both sides.



Filter for 5 slots diffuser
Filtering class G3.
Polyester fiber material.
Galvanized steel containment frame .
Metal net on both sides.



Filter for 6 slots diffuser
Filtering class G3.
Polyester fiber material.
Galvanized steel containment frame .
Metal net on both sides.



Vf = frontal velocity

B = length of the filter (mm)
H = height of the filter (mm)
Q = air flow (m^3/h)

S = B x H / 1000000
Vf = Q / 3600 / S

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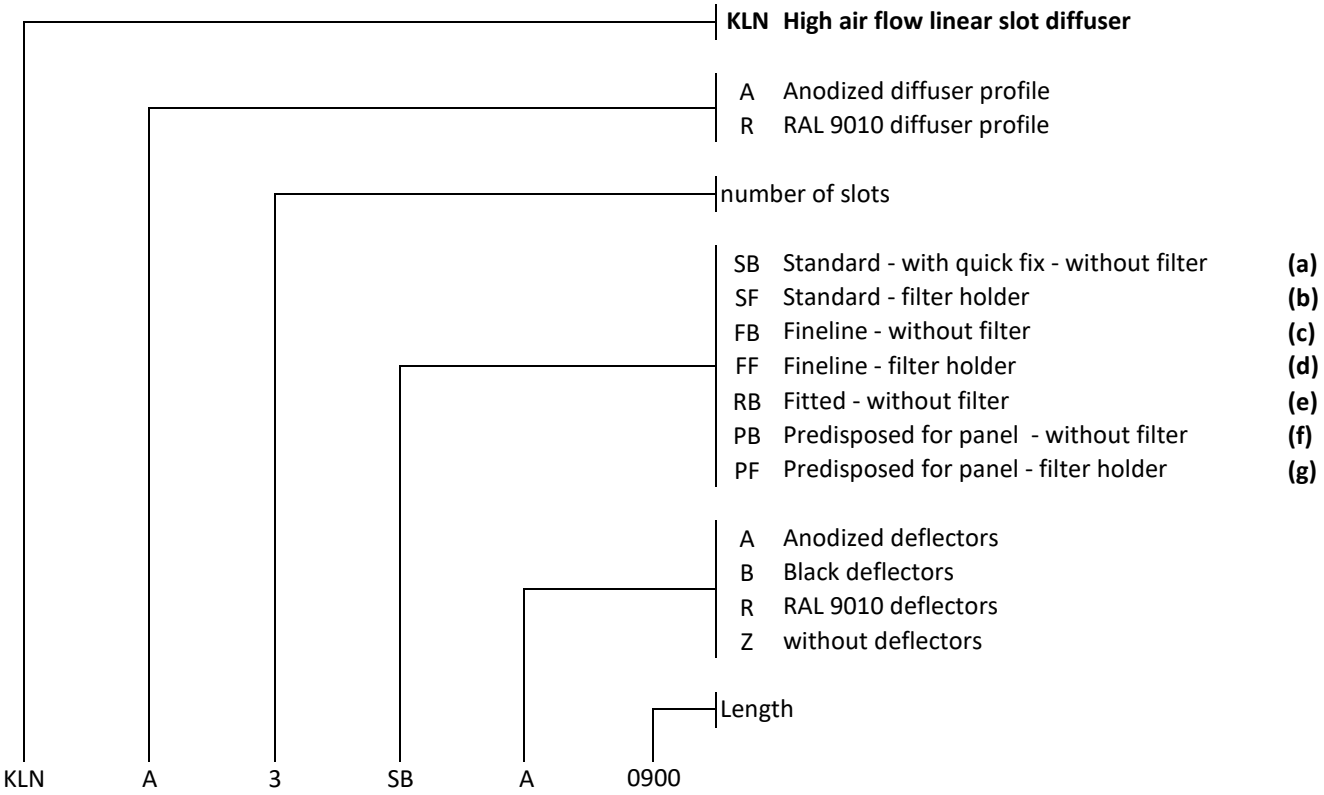
HOW TO ORDER
DIFFUSERS



(a) From one up to 6 slots, length from 300mm up to 2000mm

(b) From 3 up to 6 slots, length from 300mm up to 1200mm, filter to be ordered separately

(c) From one up to 6 slots, length from 300mm up to 2000mm

(d) From 3 up to 6 slots, length from 300mm up to 1200mm, filter to be ordered separately

(e) From one up to 6 slots, length from 300mm up to 2000mm

(f) From 3 up to 6 slots, size of the panel on request, panel to be ordered separately
Length of the diffuser from 300mm up to 1200mm

(g) From 3 up to 6 slots, size of the panel on request, panel to be ordered separately
Length of the diffuser from 300mm up to 1200mm, Filter to be ordered separately

Standard one slot diffuser
Length up to 1500mm: 2 quick-fixes
Length over 1500mm: 4 quick-fixes

Standard 2-3-4-5-6 slot diffuser
Length up to 1500mm: 4 quick-fixes
Length over 1500mm: 6 quick-fixes

HIGH AIR FLOW
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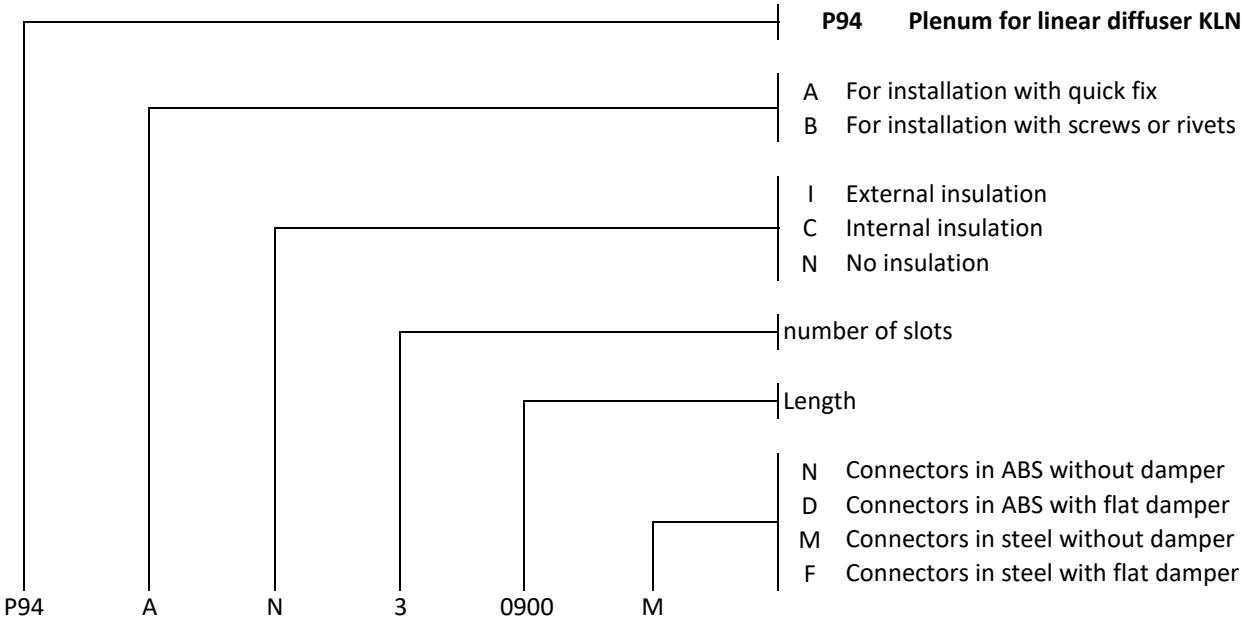
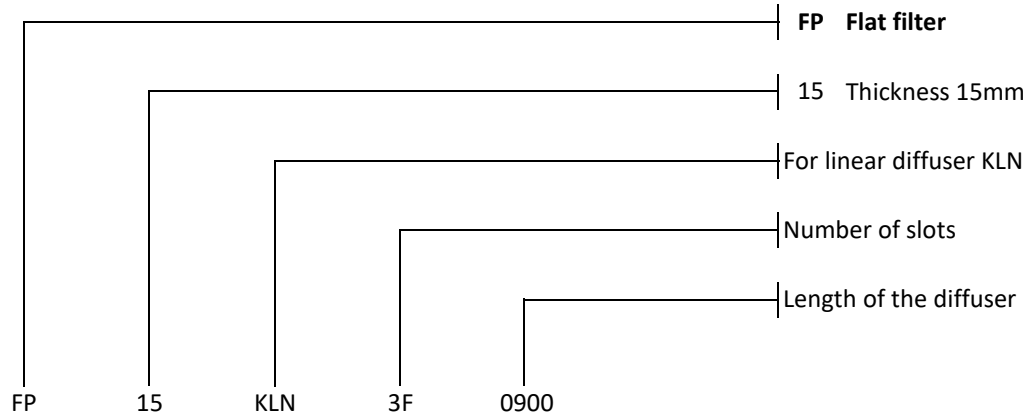
HOW TO ORDER
PLENUMS AND FILTERS



Di standard i plenum sono forniti non montati sul diffusore

Per ricevere il plenum già montato aggiungere il codice
KLN-PLNMONT montaggio del plenum sul diffusore



INSPECTION AND MAINTENANCE:

We recommend to check the filter condition at least every six months.
Replace the filter if necessary and dispose of in accordance to local legislation separating the metal structure from the filter media.

HIGH AIR FLOW
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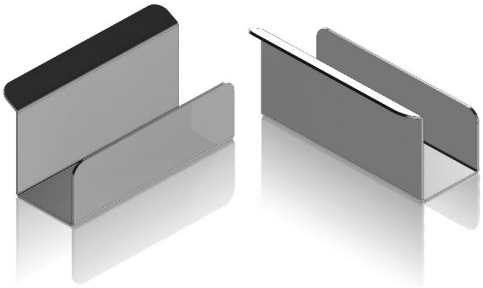
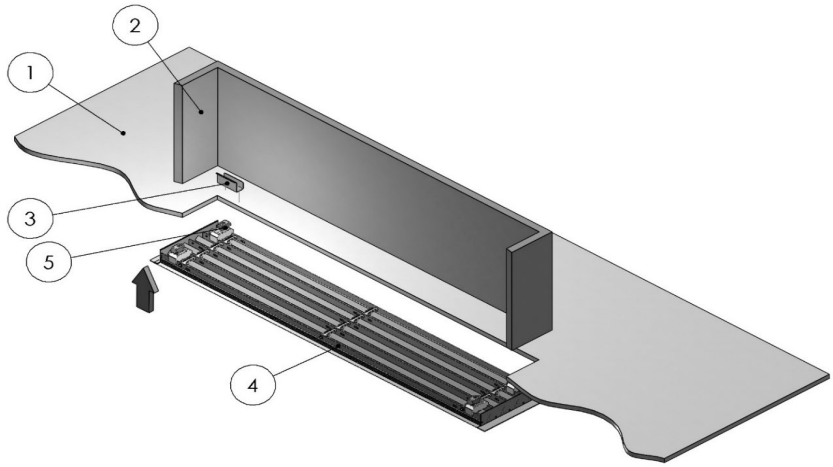


KLN-SW2 **Pair of brackets for quick fix**

Brackets KLN-SW2 let you use the quick fix method to install the diffuser KLN with the plenum (not supplied by MP3) made on site with 20mm thick sandwich panel in plasterboard ceilings thickness 12.5mm thick.

Diffuser length up to 1500mm : order two pairs of brackets.
Diffuser length more than 1500mm: order three pairs of brackets.

It is recommended to attach the brackets with the same sealant used for joining panels.



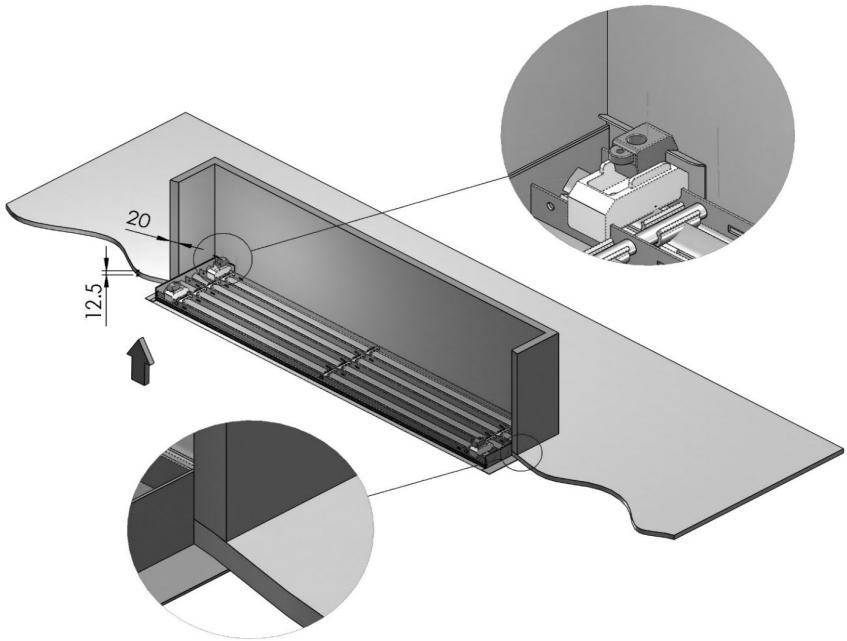
1 Coumterceiling in plasterboard 12,5mm thick

2 Sandwich panel 20 mm thick

3 Bracket for quick fix

4 KLN diffuser

5 Quick fix



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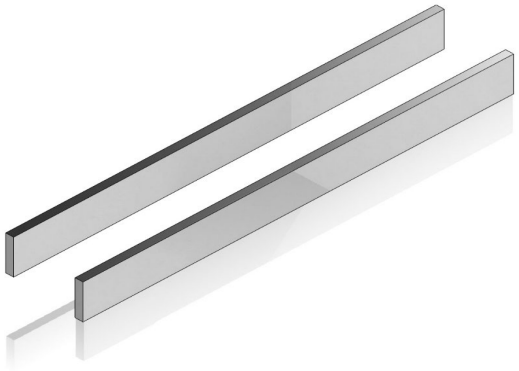
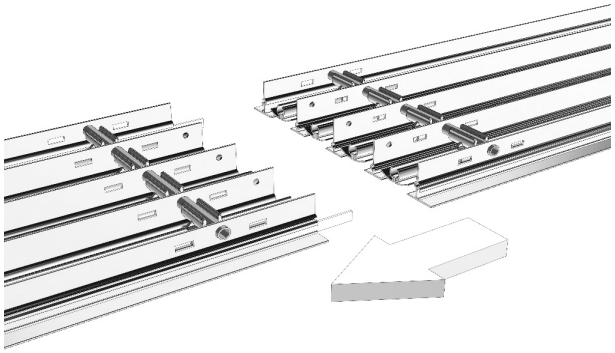
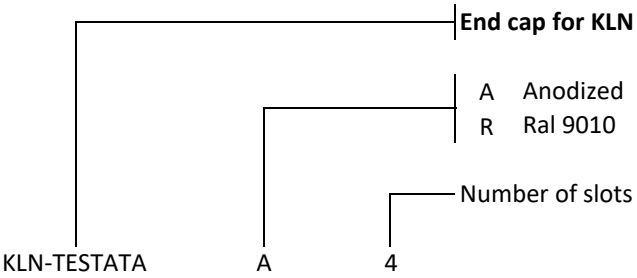
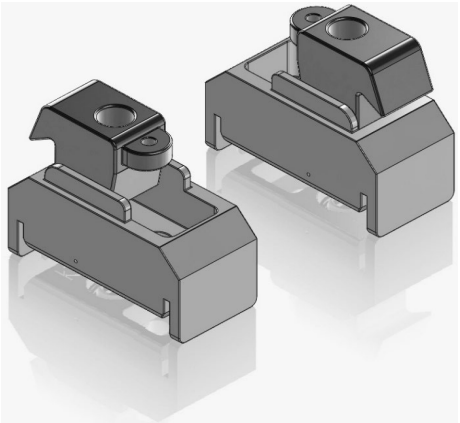


KLN-BAIONETTE **Pair of bayonets for line mounting**

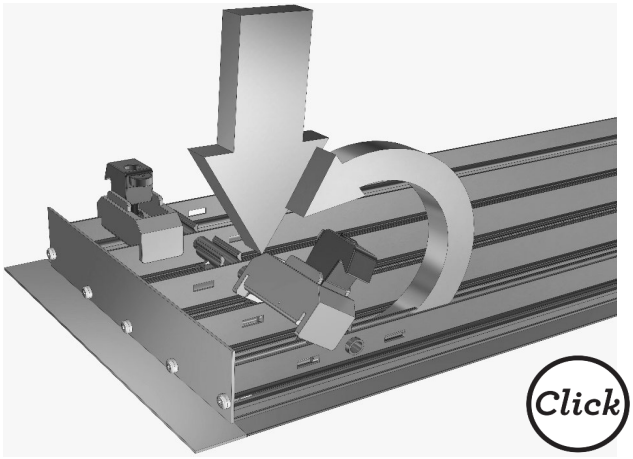


KLN-TESTATA **Standard end cap in aluminum**





KLN-QF2 **Couple of Quick fix hooks**



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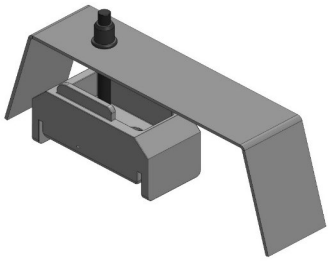
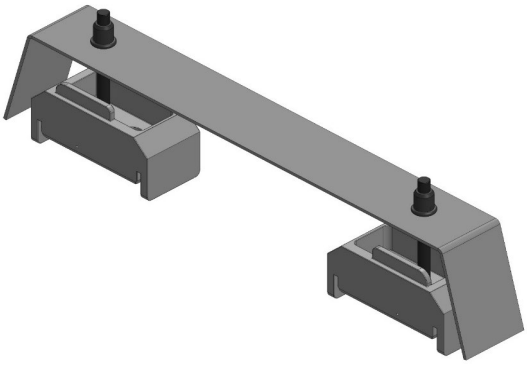
KLN-BRIDGE Pair of mounting bridges for installation in plasterboard counterceilings without plenum



from 1 up to 2 slots one screw



from 3 up to 6 slots two screws

Pair of mounting bridges for KLN

Number of slots

KLN-BRIDGE 4

Only for installation witout plenum
Only for standard version KLN … SB (no filterholder, no panel)
For diffusers with a length equal or higher to 1650 mm it is suggested to use two pairs of mounting bridges

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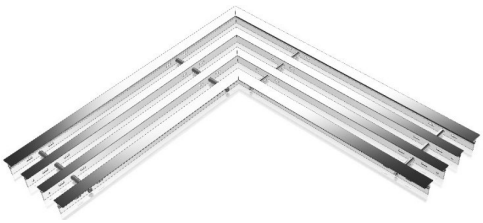
KLNCA Corner connection



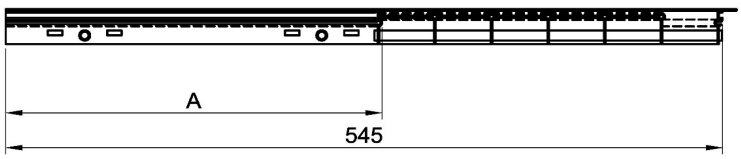
Corner connection for KLN

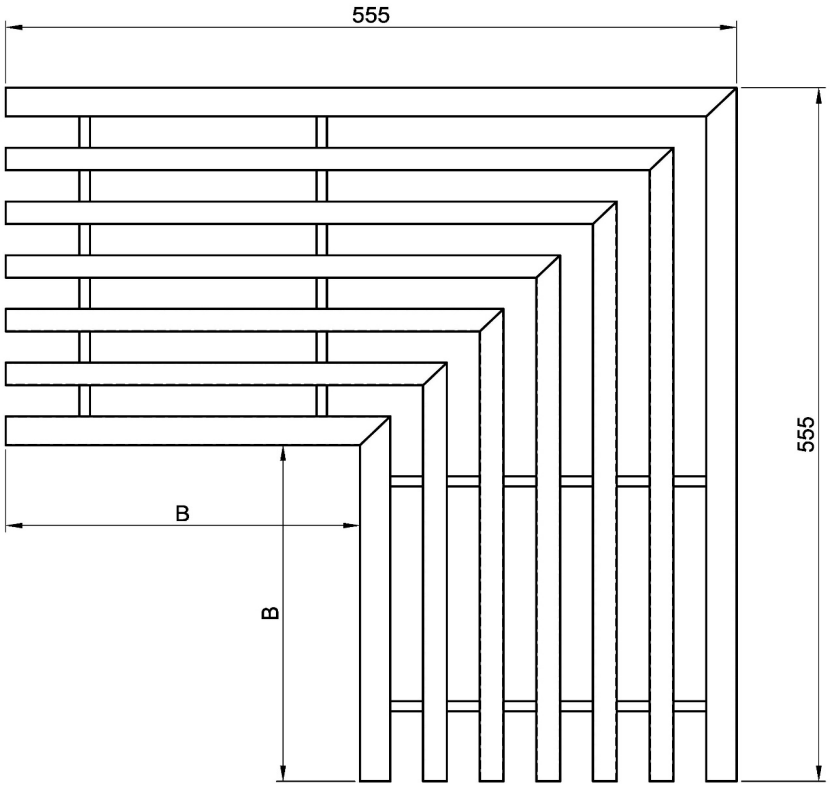
A Without deflectors
D With deflectors

A Anodized
R Ral 9010

4 Number of slots

KLNC D A 4





number of Slots	A mm	B mm
1	501	484
2	458	441
3	415	398
4	372	355
5	329	312
6	286	269

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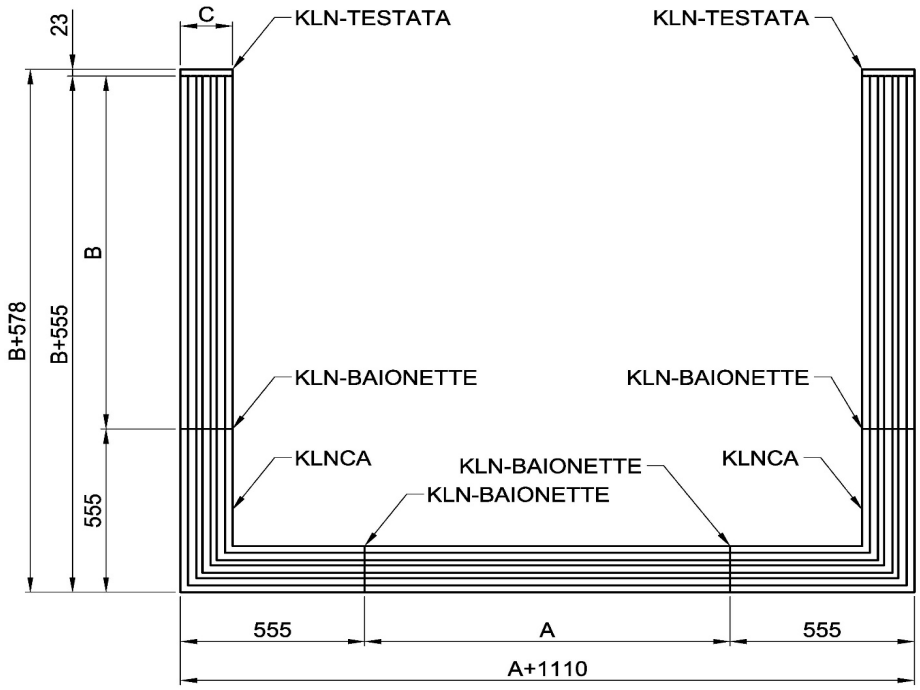
Example of installation in continuos lines with corners



Number of slots	C (mm)
1	71
2	114
3	157
4	200
5	243
6	286