

MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN SERIES

OVERVIEW

KN: Series of ceiling multidirectional square and rectangular diffusers.

These diffusers allow air to be released in four, three, two or one directions depending on the version with a high induction effect.

CHARACTERISTICS:

The KN series diffusers are made of aluminium, the central part is removable for easier installation by means of screws in the diffuser neck.

Standard finish anodized or painted white RAL 9010.

Different paints on request.

The KN series diffusers are normally fixed to the plenum by means of lateral screws.

The nominal size 450 corresponds to the external frame size 594x594mm which allows for easy insertion into modular ceilings.

FIELD OF USE AND REGULATION

KN diffusers are suitable for false ceiling installation in rooms with a height between 2.5 and 4,5 meters such as offices, shops, meeting rooms, corridors, surgeries and similar.

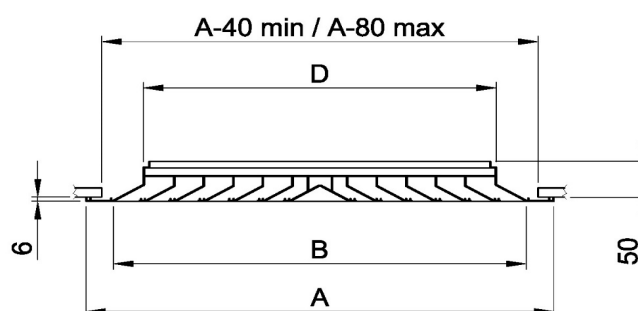
They are suitable for both supply and extract air.

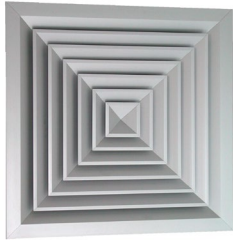
The SC series regulation damper can be installed in the diffuser neck.

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.

NOMINAL	A mm	B mm	D mm
150	294	224	148
225	369	299	223
300	444	374	298
375	519	449	373
450	594	524	448
525	669	599	523
600	744	674	598

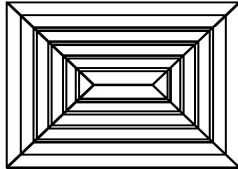




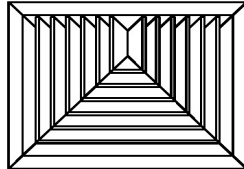
MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN
SERIES

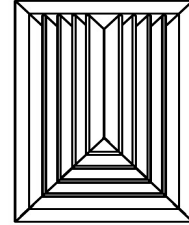
OVERVIEW



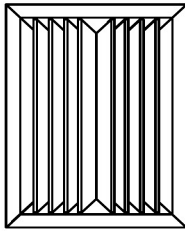
KN40



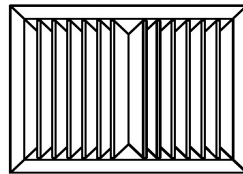
KN30



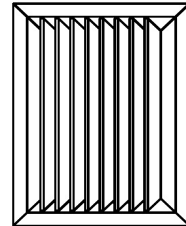
KN31



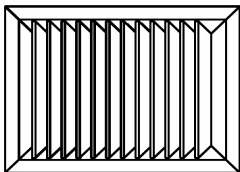
KN26



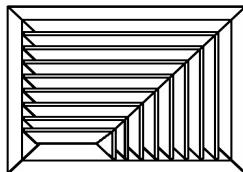
KN27



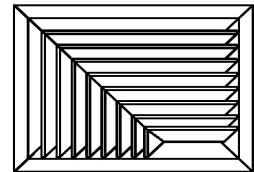
KN11



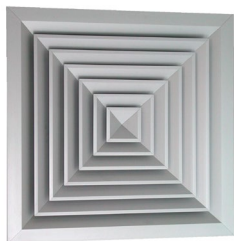
KN12



KN21



KN22

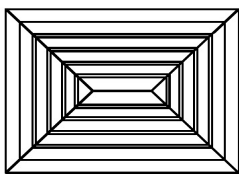


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

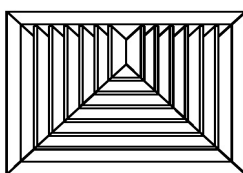
KN
SERIES

OVERVIEW

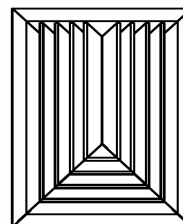
EFFECTIVE AREA	
MODEL	Ak m ²
KN40 225x150	0,014
KN40 300x150	0,018
KN40 300x225	0,027
KN40 375x225	0,034
KN40 450x225	0,041
KN40 525x225	0,047
KN40 375x300	0,045
KN40 450x300	0,054
KN40 525x300	0,063
KN40 600x300	0,073
KN40 450x375	0,068
KN40 600x375	0,091
KN40 600x450	0,110



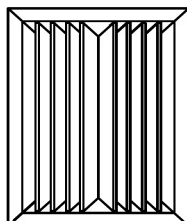
EFFECTIVE AREA	
MODEL	Ak m ²
KN30 225x150	0,014
KN30 300x150	0,018
KN30 300x225	0,027
KN30 375x225	0,034
KN30 375x300	0,047
KN30 450x300	0,055
KN30 450x375	0,065



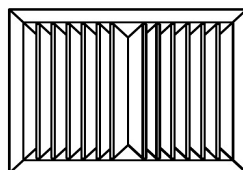
EFFECTIVE AREA	
MODEL	Ak m ²
KN31 150x225	0,014
KN31 150x300	0,018
KN31 225x300	0,027
KN31 225x375	0,034
KN31 300x375	0,047
KN31 300x450	0,055
KN31 375x450	0,065

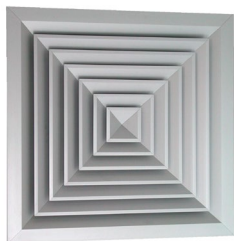


EFFECTIVE AREA	
MODEL	Ak m ²
KN26 225x150	0,012
KN26 300x150	0,016
KN26 375x150	0,020
KN26 300x225	0,024
KN26 375x225	0,030
KN26 450x225	0,036
KN26 525x225	0,041
KN26 375x300	0,039
KN26 450x300	0,047



EFFECTIVE AREA	
MODEL	Ak m ²
KN27 225x150	0,012
KN27 300x150	0,016
KN27 375x150	0,020
KN27 300x225	0,024
KN27 375x225	0,030
KN27 450x225	0,036
KN27 525x225	0,041
KN27 375x300	0,039
KN27 450x300	0,047





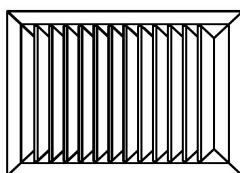
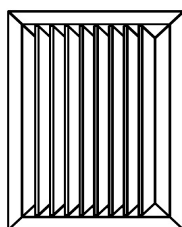
MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN
SERIES

OVERVIEW

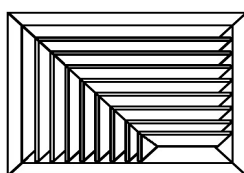
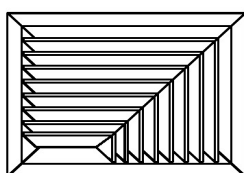
EFFECTIVE AREA	
MODEL	Ak m ²
KN11 225x150	0,014
KN11 300x150	0,019
KN11 375x150	0,024
KN11 300x225	0,029
KN11 375x225	0,036
KN11 450x225	0,043
KN11 525x225	0,050
KN11 375x300	0,048
KN11 450x300	0,058
KN11 525x300	0,067
KN11 600x300	0,077
KN11 450x375	0,072
KN11 600x375	0,096
KN11 600x450	0,115

EFFECTIVE AREA	
MODEL	Ak m ²
KN12 225x150	0,014
KN12 300x150	0,019
KN12 375x150	0,024
KN12 300x225	0,029
KN12 375x225	0,036
KN12 450x225	0,043
KN12 525x225	0,050
KN12 375x300	0,048
KN12 450x300	0,058
KN12 525x300	0,067
KN12 600x300	0,077
KN12 450x375	0,072
KN12 600x375	0,096
KN12 600x450	0,115



EFFECTIVE AREA	
MODEL	Ak m ²
KN21 225x150	0,012
KN21 300x150	0,016
KN21 300x225	0,025
KN21 375x225	0,031
KN21 450x225	0,036
KN21 375x300	0,039
KN21 450x300	0,047

EFFECTIVE AREA	
MODEL	Ak m ²
KN22 225x150	0,012
KN22 300x150	0,016
KN22 300x225	0,025
KN22 375x225	0,031
KN22 450x225	0,036
KN22 375x300	0,039
KN22 450x300	0,047

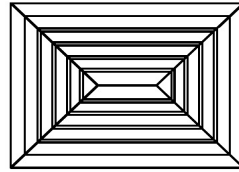




MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

QUICK SELECTION



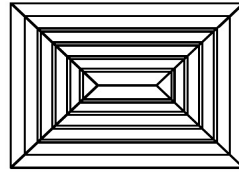
Model A _k [m²]			Air flow rate																		
			m³/h	100	175	250	325	400	475	550	625	700	800	900	1000	1100	1200	1300	1400	1500	1600
			l/s	(28)	(49)	(69)	(90)	(111)	(132)	(153)	(174)	(194)	(222)	(250)	(278)	(306)	(333)	(361)	(389)	(417)	(444)
KN40 225x150	L _{WA}	[dB(A)]	<20	26	35	42	47														
	V _k	[m/s]	2	3,5	4,9	6,4	7,9														
	Δp _t	[Pa]	2	7	14	24	36														
	LB 0,2	[m]	2	3,7	5,3	7,1	8,9														
	LH 0,2	[m]	1,5	2,6	3,7	4,8	6														
KN40 300x150	L _{WA}	[dB(A)]		<20	28	35	40	45	49												
	V _k	[m/s]		2,7	3,8	5	6,2	7,3	8,5												
	Δp _t	[Pa]		4	8	14	22	31	42												
	LB 0,2	[m]		3,2	4,5	5,9	7,2	8,5	9,9												
	LH 0,2	[m]		1,9	2,7	3,6	4,4	5,3	6,2												
KN40 300x225	L _{WA}	[dB(A)]			<20	25	30	34	38	42	44	48									
	V _k	[m/s]			2,6	3,3	4,1	4,9	5,7	6,4	7,2	8,2									
	Δp _t	[Pa]			4	6	10	14	19	24	30	39									
	LB 0,2	[m]			3,5	4,5	5,5	6,5	7,5	8,5	9,4	10,7									
	LH 0,2	[m]			2,7	3,4	4,2	5	5,8	6,6	7,3	8,3									
KN40 375x225	L _{WA}	[dB(A)]			<20	<20	24	28	32	36	38	42	45	48	50						
	V _k	[m/s]			2	2,6	3,3	3,9	4,5	5,1	5,7	6,5	7,4	8,2	9						
	Δp _t	[Pa]			2	4	6	9	12	15	19	25	31	39	47						
	LB 0,2	[m]			4,2	5,6	7,1	8,6	10,1	11,7	13,2	15,3	17,5	19,7	21,9						
	LH 0,2	[m]			2,1	2,8	3,4	4	4,6	5,2	5,8	6,6	7,5	8,3	9,1						
KN40 450x225	L _{WA}	[dB(A)]				<20	<20	24	27	31	34	37	40	43	45	48	50				
	V _k	[m/s]				2,2	2,7	3,2	3,7	4,2	4,7	5,4	6,1	6,8	7,5	8,1	8,8				
	Δp _t	[Pa]				3	4	6	8	10	13	17	21	27	32	38	45				
	LB 0,2	[m]				3,8	4,7	5,6	6,5	7,4	8,2	9,5	10,7	11,9	13,1	14,3	15,6				
	LH 0,2	[m]				2,2	2,7	3,3	3,8	4,3	4,8	5,6	6,3	7	7,7	8,4	9,1				
KN40 525x225	L _{WA}	[dB(A)]				<20	<20	20	24	27	30	34	37	39	42	44	46	48	50		
	V _k	[m/s]				1,9	2,4	2,8	3,3	3,7	4,1	4,7	5,3	5,9	6,5	7,1	7,7	8,3	8,9		
	Δp _t	[Pa]				2	3	5	6	8	10	13	16	20	25	29	34	40	46		
	LB 0,2	[m]				3,5	4,3	5,1	5,9	6,7	7,5	8,6	9,6	10,7	11,7	12,8	13,8	14,9	16		
	LH 0,2	[m]				1,9	2,4	2,8	3,2	3,7	4,1	4,7	5,2	5,8	6,3	6,9	7,4	8	8,5		
KN40 375x300	L _{WA}	[dB(A)]				<20	<20	21	25	28	31	35	38	41	43	45	47	49			
	V _k	[m/s]				2	2,5	2,9	3,4	3,9	4,3	4,9	5,6	6,2	6,8	7,4	8	8,6			
	Δp _t	[Pa]				2	4	5	7	9	11	14	18	22	27	32	37	43			
	LB 0,2	[m]				3,3	4	4,8	5,5	6,3	7	8	9	10	11	12	13	14			
	LH 0,2	[m]				2,7	3,3	3,9	4,5	5	5,6	6,4	7,2	7,9	8,7	9,5	10,2	11			
KN40 450x300	L _{WA}	[dB(A)]					<20	<20	20	24	26	30	33	36	38	40	43	45	46	48	
	V _k	[m/s]					2,1	2,4	2,8	3,2	3,6	4,1	4,6	5,1	5,7	6,2	6,7	7,2	7,7	8,2	
	Δp _t	[Pa]					2	3	5	6	7	10	12	15	19	22	26	30	34	39	
	LB 0,2	[m]					3,9	4,6	5,4	6,1	6,8	7,8	8,7	9,7	10,7	11,6	12,6	13,6	14,6	15,5	
	LH 0,2	[m]					2,8	3,4	3,9	4,4	4,9	5,6	6,2	6,9	7,6	8,2	8,9	9,6	10,3	10,9	



MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

QUICK SELECTION



Model A _k [m ²]		Air flow rate																		
		m ³ /h	500	625	750	875	1000	1125	1250	1375	1500	1625	1750	1875	2000	2250	2500	2750	3000	3250
		l/s	(139)	(174)	(208)	(243)	(278)	(313)	(347)	(382)	(417)	(451)	(486)	(521)	(556)	(625)	(694)	(764)	(833)	(903)
KN40 525x300	L _{WA}	[dB(A)]	<20	20	24	28	32	35	38	40	42	44	46	48	50					
	V _k	[m/s]	2,2	2,8	3,3	3,9	4,4	5	5,5	6,1	6,6	7,2	7,7	8,3	8,8					
	Δp _t	[Pa]	3	4	6	9	11	14	18	21	25	30	34	40	45					
	LB 0,2	[m]	4,6	5,8	6,9	8,1	9,3	10,4	11,5	12,7	13,8	15	16,1	17,3	18,4					
	LH 0,2	[m]	3	3,7	4,5	5,2	5,9	6,6	7,3	8,1	8,8	9,5	10,2	10,9	11,6					
KN40 600x300	L _{WA}	[dB(A)]	<20	<20	20	24	28	31	34	36	38	41	42	44	46	49				
	V _k	[m/s]	1,9	2,4	2,8	3,3	3,8	4,3	4,8	5,2	5,7	6,2	6,7	7,1	7,6	8,6				
	Δp _t	[Pa]	2	3	5	6	8	11	13	16	19	22	26	29	34	42				
	LB 0,2	[m]	4,7	5,9	7	8,1	9,2	10,4	11,5	12,6	13,7	14,8	15,9	17	18,2	20,3				
	LH 0,2	[m]	2,6	3,3	3,9	4,5	5,1	5,7	6,3	6,9	7,5	8,1	8,7	9,3	9,9	11				
KN40 450x375	L _{WA}	[dB(A)]	<20	<20	22	26	30	33	36	38	40	42	44	46	48					
	V _k	[m/s]	2	2,6	3,1	3,6	4,1	4,6	5,1	5,6	6,1	6,6	7,1	7,7	8,2					
	Δp _t	[Pa]	2	4	5	7	10	12	15	18	22	25	30	34	39					
	LB 0,2	[m]	4,1	5,1	6,1	7,2	8,2	9,3	10,3	11,4	12,4	13,5	14,5	15,6	16,6					
	LH 0,2	[m]	3,4	4,3	5,1	6	6,9	7,8	8,6	9,5	10,4	11,3	12,2	13,1	14					
KN40 600x375	L _{WA}	[dB(A)]		<20	<20	<20	22	25	28	31	33	35	37	39	40	43	46	48		
	V _k	[m/s]		1,9	2,3	2,7	3,1	3,4	3,8	4,2	4,6	5	5,3	5,7	6,1	6,9	7,6	8,4		
	Δp _t	[Pa]		2	3	4	5	7	8	10	12	14	16	19	22	27	34	41		
	LB 0,2	[m]		4,5	5,4	6,3	7,2	8,1	8,9	9,8	10,7	11,6	12,5	13,4	14,3	16	17,7	19,5		
	LH 0,2	[m]		3,3	3,9	4,5	5,2	5,8	6,4	7,1	7,7	8,4	9	9,6	10,3	11,5	12,8	14,1		
KN40 600x450	L _{WA}	[dB(A)]			<20	<20	<20	20	23	26	28	30	32	34	35	38	41	44	46	48
	V _k	[m/s]			1,9	2,2	2,5	2,8	3,2	3,5	3,8	4,1	4,4	4,7	5,1	5,7	6,3	6,9	7,6	8,2
	Δp _t	[Pa]			2	3	4	5	6	7	8	10	11	13	15	19	23	28	33	39
	LB 0,2	[m]			5	5,8	6,6	7,4	8,1	8,9	9,7	10,4	11,2	12	12,8	14,3	15,8	17,3	18,8	20,4
	LH 0,2	[m]			4	4,6	5,3	5,9	6,5	7,1	7,7	8,3	8,9	9,5	10,2	11,3	12,5	13,7	14,9	16,1

10 ≤ L_{WA} < 30

30 ≤ L_{WA} < 40

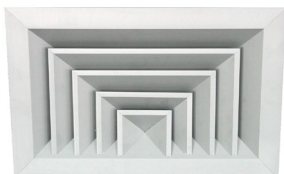
40 ≤ L_{WA} < 50

Data valid for:

- Supply air
- Isotherm conditions
- Throw with ceiling effect

Terminology:

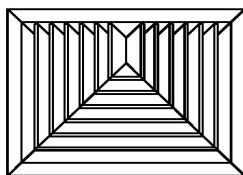
- A_k = effective free area
- V_k = effective face velocity
- Δp_t = total pressure loss
- L_{WA} = sound power level
- L_{0,2} = throw to terminal velocity at 0,2 m/s



MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

QUICK SELECTION

KN30
KN31
SERIES

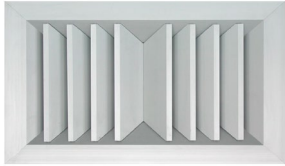


Model A _k [m²]		Air flow rate																		
		m³/h	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
		l/s	(28)	(56)	(83)	(111)	(139)	(167)	(194)	(222)	(250)	(278)	(306)	(333)	(361)	(389)	(417)	(444)	(472)	(500)
KN30 KN31 225x150	L _{WA}	[dB(A)]	<20	30	39	46														
	V _k	[m/s]	2	4	5,9	7,9														
	Δp _t	[Pa]	2	9	20	36														
	LB 0,2	[m]	1,7	3,4	5	6,6														
	LH 0,2	[m]	2,3	4,5	6,6	8,7														
KN30 KN31 300x150	L _{WA}	[dB(A)]		24	33	40	46	50												
	V _k	[m/s]		3,1	4,6	6,2	7,7	9,3												
	Δp _t	[Pa]		6	12	22	34	50												
	LB 0,2	[m]		2,7	3,9	5,3	6,6	7,9												
	LH 0,2	[m]		3,7	5,5	7,3	9	10,8												
KN30 KN31 300x225	L _{WA}	[dB(A)]		<20	23	30	36	40	44	47	50									
	V _k	[m/s]		2,1	3,1	4,1	5,1	6,2	7,2	8,2	9,3									
	Δp _t	[Pa]		2	5	10	15	22	30	39	50									
	LB 0,2	[m]		2,5	3,7	5	6,2	7,5	8,7	10	11,3									
	LH 0,2	[m]		3,4	5	6,6	8,2	9,7	11,2	12,8	14,3									
KN30 KN31 375x225	L _{WA}	[dB(A)]			<20	25	30	35	38	42	44	47	49							
	V _k	[m/s]			2,4	3,3	4,1	4,9	5,7	6,5	7,4	8,2	9							
	Δp _t	[Pa]			3	6	10	14	19	25	31	39	47							
	LB 0,2	[m]			2,9	3,9	4,9	6	6,9	7,9	8,9	10	11							
	LH 0,2	[m]			4,2	5,5	6,8	8,1	9,4	10,7	12	13,2	14,5							
KN30 KN31 375x300	L _{WA}	[dB(A)]			<20	<20	22	27	30	34	37	39	41	44	45	47	49	50		
	V _k	[m/s]			1,8	2,4	3	3,6	4,1	4,7	5,3	5,9	6,5	7,1	7,7	8,3	8,9	9,4		
	Δp _t	[Pa]			2	3	5	7	10	13	16	20	25	29	34	40	46	52		
	LB 0,2	[m]			3	4,1	5,2	6,2	7,3	8,3	9,4	10,5	11,6	12,7	13,8	14,9	16	17		
	LH 0,2	[m]			4	5,4	6,7	8,1	9,4	10,8	12,1	13,5	14,9	16,2	17,6	18,9	20,3	21,6		
KN30 KN31 450x300	L _{WA}	[dB(A)]				<20	<20	23	27	30	33	35	38	40	42	43	45	47	48	50
	V _k	[m/s]				2	2,5	3	3,5	4	4,5	5,1	5,6	6,1	6,6	7,1	7,6	8,1	8,6	9,1
	Δp _t	[Pa]				2	4	5	7	9	12	15	18	21	25	29	33	38	43	48
	LB 0,2	[m]				3,3	4,2	5	5,9	6,7	7,6	8,5	9,3	10,2	11,1	12	12,8	13,7	14,6	15,5
	LH 0,2	[m]				4,6	5,7	6,9	8,1	9,2	10,4	11,6	12,8	14	15,2	16,4	17,6	18,7	19,9	21,1
KN30 KN31 450x375	L _{WA}	[dB(A)]				<20	<20	23	26	29	31	34	36	38	39	41	43	44	46	
	V _k	[m/s]				2,1	2,6	3	3,4	3,8	4,3	4,7	5,1	5,6	6	6,4	6,8	7,3	7,7	
	Δp _t	[Pa]				4	5	7	9	12	15	18	21	25	29	33	38	43	48	
	LB 0,2	[m]				4,3	5,1	5,9	6,8	7,6	8,4	9,3	10	10,9	11,7	12,5	13,3	14,1	14,9	
	LH 0,2	[m]				5,7	6,8	7,9	9	10,1	11,3	12,4	13,5	14,6	15,7	16,8	17,9	19	20,1	

10 ≤ L_{WA} < 30

30 ≤ L_{WA} < 40

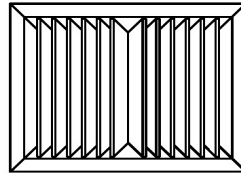
40 ≤ L_{WA} < 50



MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN26
KN27
SERIES

QUICK SELECTION



Model A _k [m²]		Air flow rate																		
		m³/h	100	150	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
		l/s	(28)	(42)	(56)	(69)	(83)	(111)	(139)	(167)	(194)	(222)	(250)	(278)	(306)	(333)	(361)	(389)	(417)	(444)
KN26	L _{WA} [dB(A)]	<20	26	33	38	42	49													
KN27	V _k [m/s]	2,3	3,5	4,7	5,8	6,9	9,3													
225x150	Δp _t [Pa]	3	7	13	19	28	50													
(0,012)	L 0,2 [m]	3,9	5,9	7,8	9,5	11,4	15,2													
KN26	L _{WA} [dB(A)]	<20	20	26	31	35	42	47												
KN27	V _k [m/s]	1,8	2,6	3,5	4,3	5,2	6,9	8,7												
300x150	Δp _t [Pa]	2	4	7	11	15	28	43												
(0,016)	L 0,2 [m]	3,3	4,9	6,6	8,1	9,8	13	16,3												
KN26	L _{WA} [dB(A)]		<20	21	26	30	37	42	46	50										
KN27	V _k [m/s]		2,1	2,8	3,5	4,2	5,6	7	8,4	9,7										
375x150	Δp _t [Pa]		3	4	7	10	18	28	40	54										
(0,02)	L 0,2 [m]		4,6	6	7,4	8,9	11,9	14,9	17,8	20,7										
KN26	L _{WA} [dB(A)]		<20	<20	22	26	33	38	42	46	49									
KN27	V _k [m/s]		1,8	2,3	2,9	3,5	4,6	5,8	7	8,1	9,3									
300x225	Δp _t [Pa]		2	3	5	7	12	19	28	38	49									
(0,024)	L 0,2 [m]		4,1	5,5	6,8	8,1	10,8	13,5	16,2	18,8	21,5									
KN26	L _{WA} [dB(A)]			<20	<20	21	28	33	37	40	44	46	49							
KN27	V _k [m/s]			1,9	2,3	2,8	3,7	4,6	5,6	6,5	7,4	8,3	9,3							
375x225	Δp _t [Pa]			2	3	4	8	12	18	24	31	40	49							
(0,03)	L 0,2 [m]			4,8	6	7,2	9,6	12,1	14,6	16,9	19,4	21,9	24,3							
KN26	L _{WA} [dB(A)]				<20	<20	24	29	33	36	39	42	45	47	49					
KN27	V _k [m/s]				1,9	2,3	3,1	3,9	4,6	5,4	6,2	6,9	7,7	8,5	9,3					
450x225	Δp _t [Pa]				2	3	5	9	12	17	22	28	34	42	49					
(0,036)	L 0,2 [m]				5,5	6,7	8,9	11,2	13,5	15,7	18	20,3	22,6	24,9	27,2					
KN26	L _{WA} [dB(A)]				<20	<20	21	26	30	33	36	39	42	44	46	48	49			
KN27	V _k [m/s]				1,7	2	2,7	3,4	4,1	4,7	5,4	6,1	6,8	7,5	8,1	8,8	9,5			
525x225	Δp _t [Pa]				2	2	4	7	10	13	17	21	27	32	38	45	52			
(0,041)	L 0,2 [m]				5,2	6,3	8,4	10,5	12,7	14,7	16,9	19	21,1	23,3	25,4	27,5	29,7			
KN26	L _{WA} [dB(A)]				<20	<20	22	27	31	34	38	40	43	45	47	49	50			
KN27	V _k [m/s]				1,8	2,1	2,8	3,6	4,3	5	5,7	6,4	7,1	7,8	8,5	9,3	10			
375x300	Δp _t [Pa]				2	3	5	7	11	14	19	24	29	35	42	49	57			
(0,039)	L 0,2 [m]				5,2	6,3	8,4	10,5	12,7	14,7	16,9	19	21,1	23,3	25,4	27,5	29,7			
KN26	L _{WA} [dB(A)]					<20	<20	23	27	30	33	36	38	41	43	44	46	48	49	
KN27	V _k [m/s]					1,8	2,4	3	3,6	4,1	4,7	5,3	5,9	6,5	7,1	7,7	8,3	8,9	9,4	
450x300	Δp _t [Pa]					2	3	5	7	10	13	16	20	24	29	34	39	45	51	
(0,047)	L 0,2 [m]					5,7	7,6	9,5	11,3	13,1	15	16,8	18,7	20,5	22,3	24,1	26	27,8	29,6	

10 ≤ L_{WA} < 30

30 ≤ L_{WA} < 40

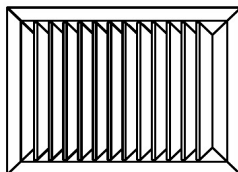
40 ≤ L_{WA} < 50



MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

QUICK SELECTION

KN11
KN12
SERIES



Model A _k [m²]		Air flow rate																		
		m³/h	100	125	150	175	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
		l/s	(28)	(35)	(42)	(49)	(56)	(83)	(111)	(139)	(167)	(194)	(222)	(250)	(278)	(306)	(333)	(361)	(389)	(417)
KN11	L _{WA} [dB(A)]	<20	<20	23	27	31	43													
KN12	V _k [m/s]	1,9	2,4	2,9	3,4	3,9	5,8													
225x150	Δp _t [Pa]	3	4	6	8	11	23													
(0,014)	L 0,2 [m]	1,9	2,3	2,8	3,2	3,7	5,4													
KN11	L _{WA} [dB(A)]			<20	<20	23	34	43	50											
KN12	V _k [m/s]			2,2	2,6	2,9	4,3	5,8	7,2											
300x150	Δp _t [Pa]			3	5	6	13	23	37											
(0,019)	L 0,2 [m]			2,4	2,8	3,2	4,7	6,3	7,9											
KN11	L _{WA} [dB(A)]				<20	<20	28	36	43	48										
KN12	V _k [m/s]				2	2,3	3,5	4,6	5,8	7										
375x150	Δp _t [Pa]				3	4	8	15	23	34										
(0,024)	L 0,2 [m]				2,5	2,9	4,2	5,6	7	8,4										
KN11	L _{WA} [dB(A)]					<20	23	31	38	43	48									
KN12	V _k [m/s]					2	2,9	3,9	4,8	5,8	6,8									
300x225	Δp _t [Pa]					3	6	10	16	24	32									
(0,029)	L 0,2 [m]					2,6	3,9	5,2	6,5	7,7	9									
KN11	L _{WA} [dB(A)]						<20	25	31	37	41	45	48							
KN12	V _k [m/s]						2,3	3,1	3,9	4,7	5,4	6,2	7							
375x225	Δp _t [Pa]						4	7	11	15	20	27	34							
(0,036)	L 0,2 [m]						3,5	4,6	5,8	6,9	8,1	9,2	10,3							
KN11	L _{WA} [dB(A)]						<20	<20	26	31	36	40	43	46	49					
KN12	V _k [m/s]						1,9	2,6	3,2	3,9	4,5	5,2	5,8	6,5	7,1					
450x225	Δp _t [Pa]						3	5	7	11	14	19	24	29	35					
(0,043)	L 0,2 [m]						3,2	4,2	5,3	6,4	7,4	8,4	9,5	10,5	11,6					
KN11	L _{WA} [dB(A)]							<20	21	27	31	35	39	42	44	47	49			
KN12	V _k [m/s]							2,2	2,8	3,3	3,9	4,4	5	5,5	6,1	6,6	7,2			
525x225	Δp _t [Pa]							3	5	8	10	14	17	21	26	31	36			
(0,05)	L 0,2 [m]							3,9	4,9	5,9	6,8	7,8	8,8	9,7	10,7	11,6	12,6			
KN11	L _{WA} [dB(A)]							<20	23	28	32	36	40	43	46	48				
KN12	V _k [m/s]							2,3	2,9	3,5	4,1	4,6	5,2	5,8	6,4	7				
375x300	Δp _t [Pa]							4	6	8	11	15	19	23	28	34				
(0,048)	L 0,2 [m]							4	5	6	7	8	9	10	11	11,9				
KN11	L _{WA} [dB(A)]							<20	<20	23	27	31	35	38	41	43	45	48	50	
KN12	V _k [m/s]							1,9	2,4	2,9	3,4	3,9	4,3	4,8	5,3	5,8	6,3	6,8	7,3	
450x300	Δp _t [Pa]							3	4	6	8	10	13	16	20	23	27	32	37	
(0,058)	L 0,2 [m]							3,7	4,6	5,5	6,4	7,3	8,2	9,1	10	10,9	11,8	12,7	13,6	

10 ≤ L_{WA} < 30

30 ≤ L_{WA} < 40

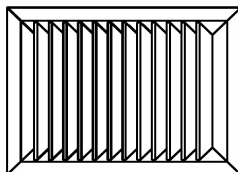
40 ≤ L_{WA} < 50



MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

QUICK SELECTION

KN11
KN12
SERIES



Model A _k [m ²]		Air flow rate																
		m ³ /h	500	600	700	800	900	1000	1150	1300	1450	1600	1700	1800	1900	2000	2100	2200
		l/s	(139)	(167)	(194)	(222)	(250)	(278)	(319)	(361)	(403)	(444)	(472)	(500)	(528)	(556)	(583)	(611)
KN11 KN12 525x300 (0,067)	L _{WA} [dB(A)]	<20	<20	23	27	30	33	37	41	44	47	49	50					
	V _k [m/s]	2,1	2,5	2,9	3,3	3,7	4,1	4,8	5,4	6	6,6	7	7,5					
	Δp _t [Pa]	3	4	6	8	10	12	16	20	25	31	35	39					
	L 0,2 [m]	4,3	5,1	5,9	6,8	7,6	8,5	9,7	11	12,2	13,4	14,3	15,1					
KN11 KN12 600x300 (0,077)	L _{WA} [dB(A)]		<20	<20	23	26	29	33	37	40	43	45	46	48	50			
	V _k [m/s]		2,2	2,5	2,9	3,3	3,6	4,2	4,7	5,3	5,8	6,2	6,5	6,9	7,3			
	Δp _t [Pa]		3	4	6	7	9	12	15	19	23	26	30	33	37			
	L 0,2 [m]		4,8	5,6	6,4	7,1	7,9	9,1	10,3	11,4	12,6	13,4	14,2	14,9	15,7			
KN11 KN12 450x375 (0,072)	L _{WA} [dB(A)]	<20	<20	21	25	28	31	35	39	42	45	47	48	50				
	V _k [m/s]	1,9	2,3	2,7	3,1	3,5	3,9	4,4	5	5,6	6,2	6,6	7	7,4				
	Δp _t [Pa]	3	4	5	7	8	10	14	18	22	27	30	34	38				
	L 0,2 [m]	4,1	4,9	5,7	6,6	7,4	8,2	9,4	10,6	11,8	13	13,8	14,6	15,4				
KN11 KN12 600x375 (0,096)	L _{WA} [dB(A)]			<20	<20	20	23	27	30	34	36	38	40	42	43	44	46	47
	V _k [m/s]			2	2,3	2,6	2,9	3,3	3,8	4,2	4,6	4,9	5,2	5,5	5,8	6,1	6,4	6,7
	Δp _t [Pa]			3	4	5	6	8	10	12	15	17	19	21	24	26	28	31
	L 0,2 [m]			5	5,7	6,4	7,1	8,1	9,2	10,3	11,3	12	12,7	13,4	14,1	14,8	15,5	16,2



10 ≤ L_{WA} < 30



30 ≤ L_{WA} < 40



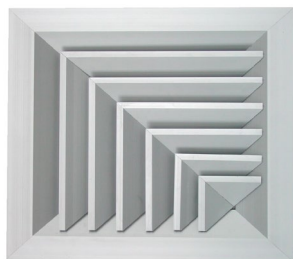
40 ≤ L_{WA} < 50

Data valid for:

- Supply air
- Isotherm conditions
- Throw with ceiling effect

Terminology:

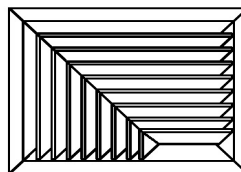
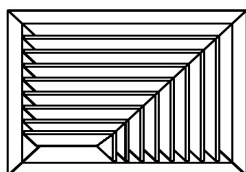
- A_k = effective free area
- V_k = effective face velocity
- Δp_t = total pressure loss
- L_{WA} = sound power level
- L_{0,2} = throw to terminal velocity at 0,2 m/s



MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

QUICK SELECTION

KN21
KN22
SERIES



Model A _k [m²]		Air flow rate																		
		m³/h	100	150	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
		l/s	(28)	(42)	(56)	(69)	(83)	(111)	(139)	(167)	(194)	(222)	(250)	(278)	(306)	(333)	(361)	(389)	(417)	(444)
KN21 KN22 225x150	L _{WA}	[dB(A)]	<20	26	33	38	43	50												
	V _k	[m/s]	2,3	3,5	4,7	5,8	6,9	9,3												
	Δp _t	[Pa]	3	7	13	19	28	50												
	LB 0,2	[m]	4,7	7,1	9,5	11,8	14,2	19,1												
	LH 0,2	[m]	3,3	5	6,6	8,2	9,8	13,1												
KN21 KN22 300x150	L _{WA}	[dB(A)]	<20	20	26	32	36	43	48											
	V _k	[m/s]	1,8	2,6	3,5	4,3	5,2	6,9	8,7											
	Δp _t	[Pa]	2	4	7	11	15	28	43											
	LB 0,2	[m]	4,4	6,6	8,8	10,8	13	17,4	21,9											
	LH 0,2	[m]	2,5	3,8	5,1	6,2	7,5	10,1	12,7											
KN21 KN22 300x225	L _{WA}	[dB(A)]			<20	21	25	32	38	42	46	49								
	V _k	[m/s]			2,2	2,8	3,3	4,4	5,6	6,7	7,8	8,9								
	Δp _t	[Pa]			3	4	6	11	18	26	35	46								
	LB 0,2	[m]			6,5	8	9,6	12,8	16	19,1	22,2	25,3								
	LH 0,2	[m]			5	6,1	7,3	9,6	11,9	14,2	16,4	18,7								
KN21 KN22 375x225	L _{WA}	[dB(A)]			<20	<20	20	27	32	37	41	44	47	49						
	V _k	[m/s]			1,8	2,2	2,7	3,6	4,5	5,4	6,3	7,2	8,1	9						
	Δp _t	[Pa]			2	3	4	7	12	17	23	30	38	47						
	LB 0,2	[m]			6,1	7,4	8,9	11,7	14,5	17,3	20	22,8	25,5	28,3						
	LH 0,2	[m]			4,1	5	5,9	7,9	9,8	11,6	13,4	15,3	17,1	19						
KN21 KN22 450x225	L _{WA}	[dB(A)]				<20	<20	23	29	33	37	40	43	46	48	50				
	V _k	[m/s]				1,9	2,3	3,1	3,9	4,6	5,4	6,2	6,9	7,7	8,5	9,3				
	Δp _t	[Pa]				2	3	5	9	12	17	22	28	34	42	49				
	LB 0,2	[m]				7,2	8,6	11,4	14,1	16,8	19,3	22	24,6	27,3	29,9	>30				
	LH 0,2	[m]				4,2	5	6,6	8,3	9,9	11,5	13,1	14,7	16,3	18	19,5				
KN21 KN22 375x300	L _{WA}	[dB(A)]				<20	<20	21	27	31	35	38	41	44	46	48	50			
	V _k	[m/s]				1,8	2,1	2,8	3,6	4,3	5	5,7	6,4	7,1	7,8	8,5	9,3			
	Δp _t	[Pa]				2	3	5	7	11	14	19	24	29	36	42	49			
	LB 0,2	[m]				6	7,2	9,6	12	14,4	16,7	19,1	21,5	23,9	26,3	28,6	>30			
	LH 0,2	[m]				4,8	5,8	7,8	9,8	11,8	13,7	15,7	17,7	19,8	21,8	23,8	25,8			
KN21 KN22 450x300	L _{WA}	[dB(A)]					<20	<20	22	27	30	34	37	39	41	44	45	47	49	50
	V _k	[m/s]					1,8	2,4	3	3,6	4,1	4,7	5,3	5,9	6,5	7,1	7,7	8,3	8,9	9,4
	Δp _t	[Pa]					2	3	5	7	10	13	16	20	25	29	34	40	46	52
	LB 0,2	[m]					7	9,3	11,6	13,8	16	18,3	20,5	22,8	25	27,2	29,4	>30	>30	>30
	LH 0,2	[m]					4,9	6,5	8,2	9,9	11,5	13,1	14,8	16,5	18,2	19,8	21,5	23,1	24,8	26,4



10 ≤ L_{WA} < 30



30 ≤ L_{WA} < 40



40 ≤ L_{WA} < 50

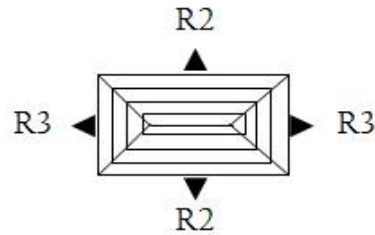
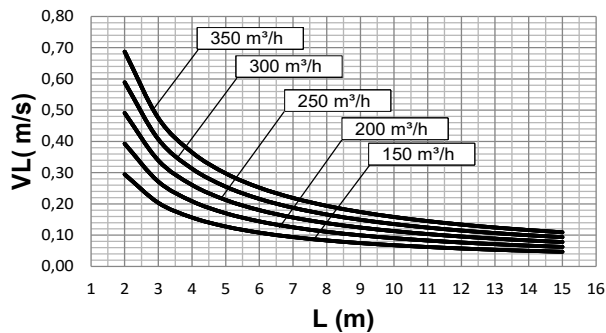


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 225x150

KN40 225x150 Throw R2

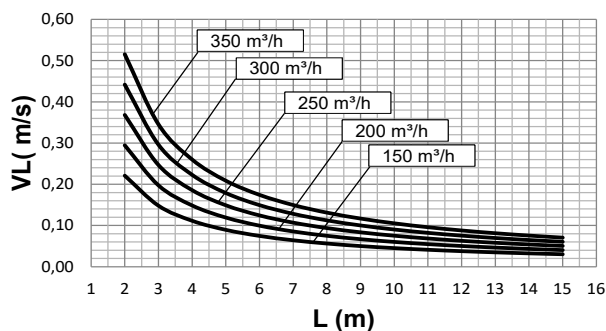


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

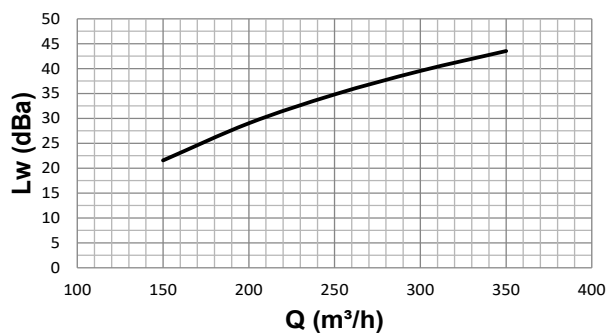
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 225x150 Throw R3



KN40 225x150 Sound power



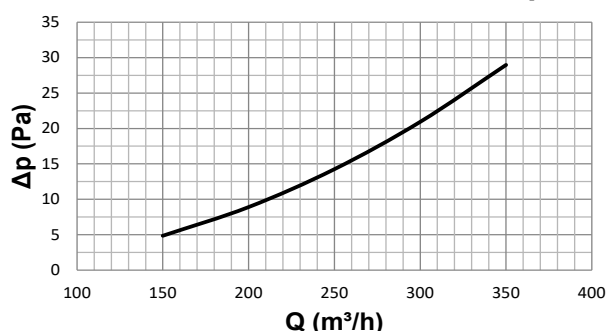
Data measured in reverberation room in accordance with international standards:

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.

KN40 225x150 Pressure drop



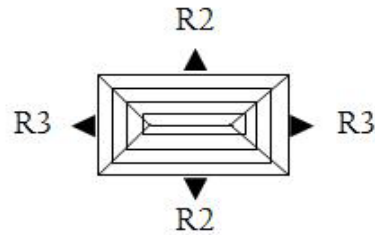
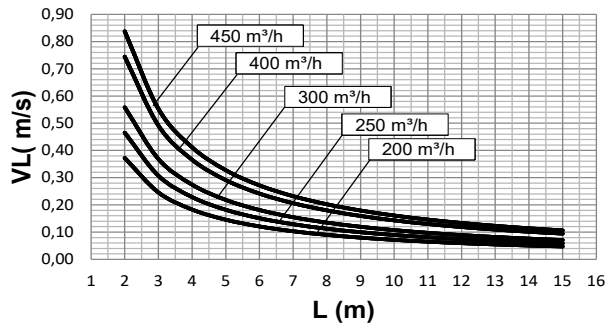


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 300x150

KN40 300x150 Throw R2

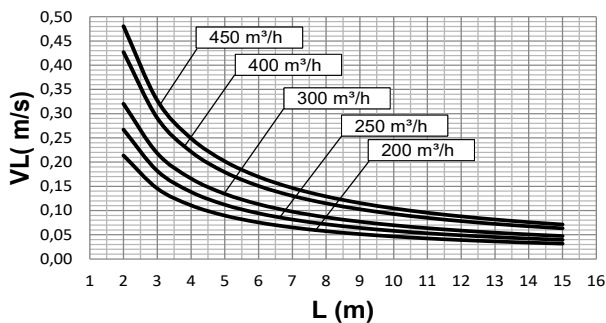


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

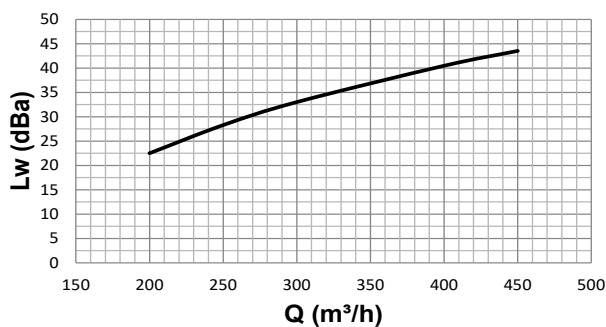
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 300x150 Throw R3



KN40 300x150 Sound power



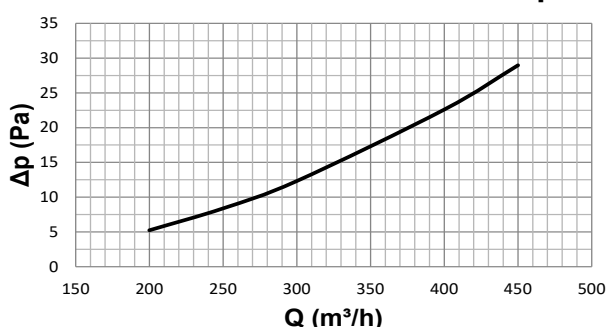
Data measured in reverberation room in accordance with international standards:

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

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

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KN40 300x150 Pressure drop



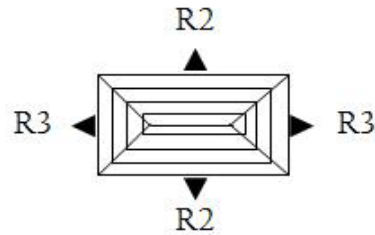
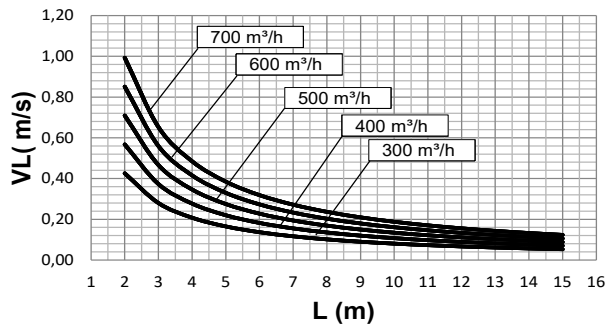


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 300x225

KN40 300x225 Throw R2

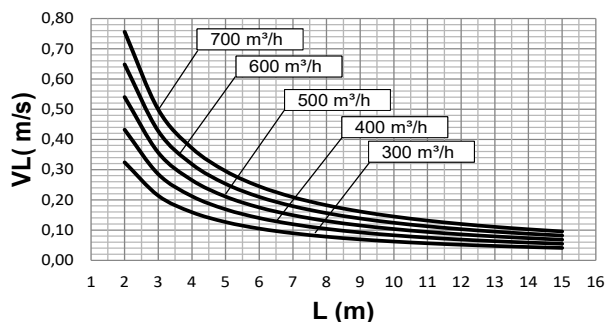


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

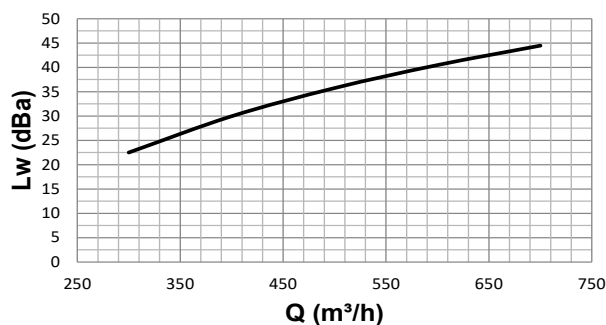
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 300x225 Throw R3



KN40 300x225 Sound power



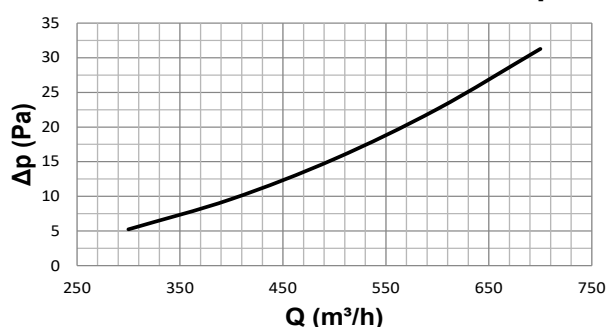
Data measured in reverberation room in accordance with international standards:

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

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KN40 300x225 Pressure drop



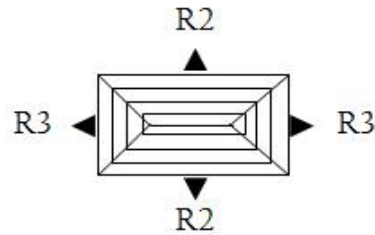
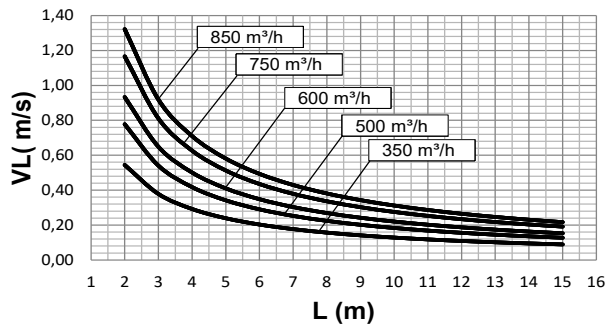


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 375x225

KN40 375x225 Throw R2

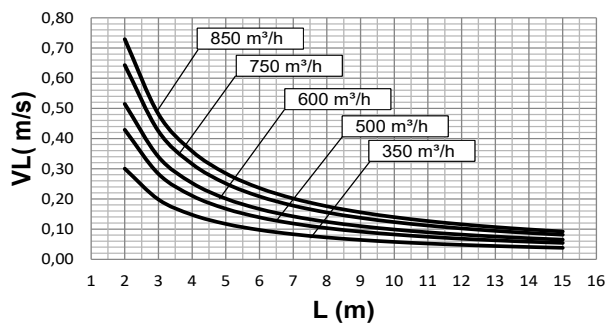


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

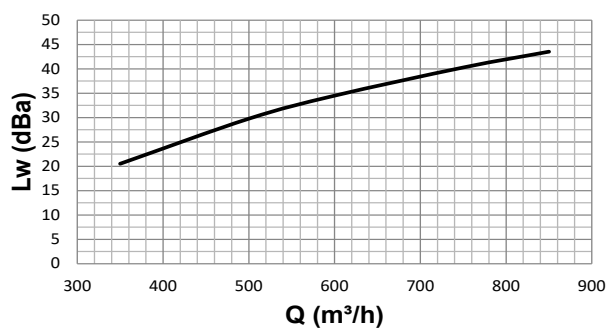
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 375x225 Throw R3



KN40 375x225 Sound power



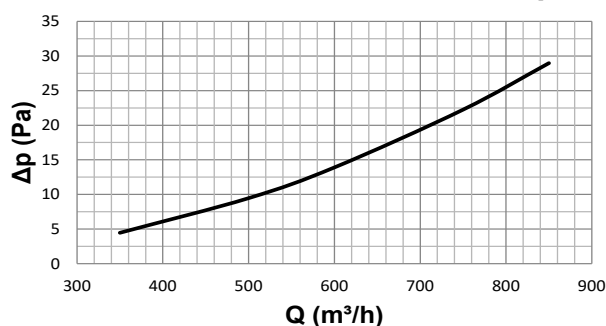
Data measured in reverberation room in accordance with international standards:

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

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KN40 375x225 Pressure drop



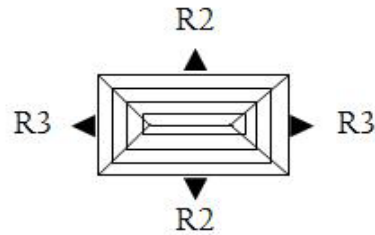
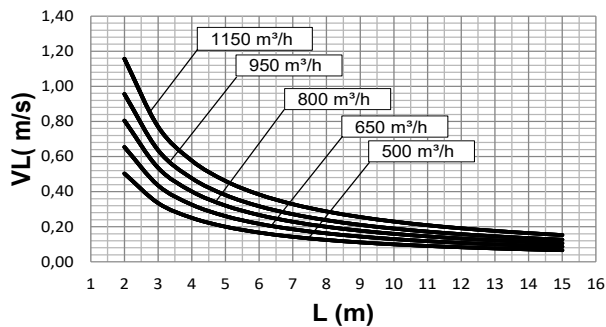


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 450x225

KN40 450x225 Throw R2

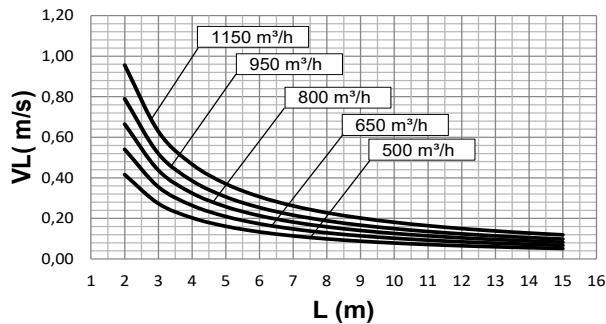


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

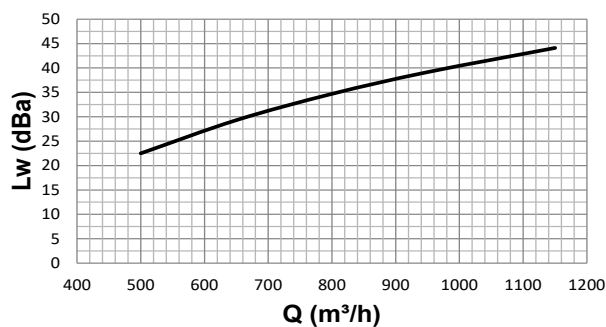
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 450x225 Throw R3



KN40 450x225 Sound power



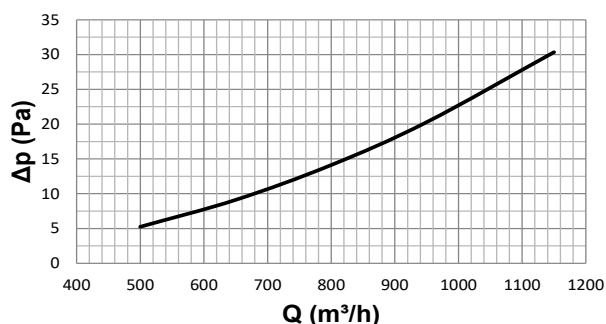
Data measured in reverberation room in accordance with international standards:

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

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KN40 450x225 Pressure drop



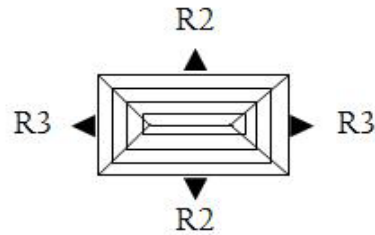
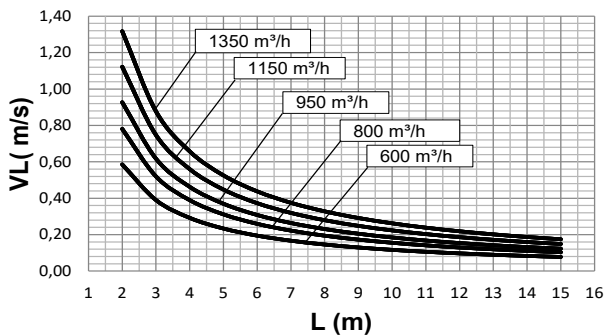


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 525x225

KN40 525x225 Throw R2

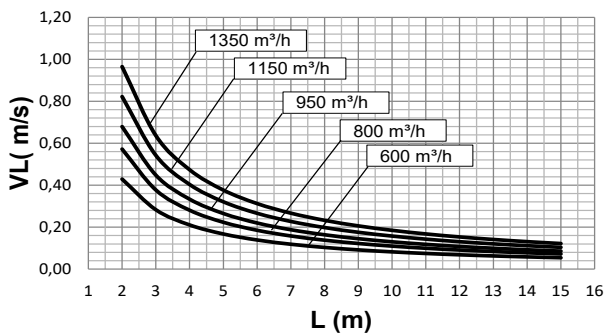


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

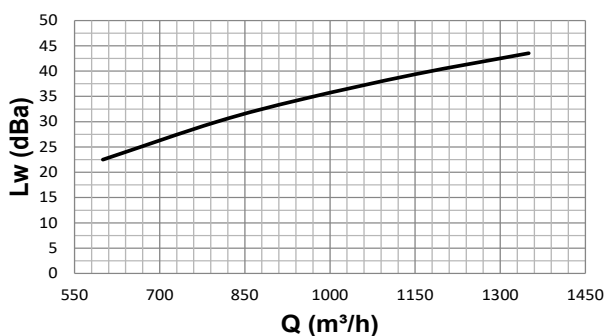
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 525x225 Throw R3



KN40 525x225 Sound power



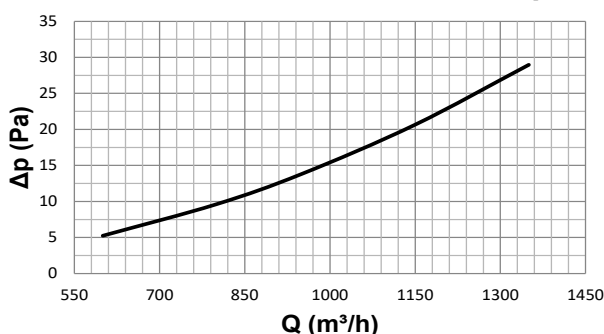
Data measured in reverberation room in accordance with international standards:

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

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

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KN40 525x225 Pressure drop



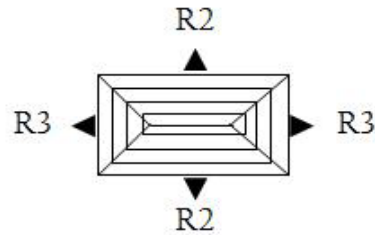
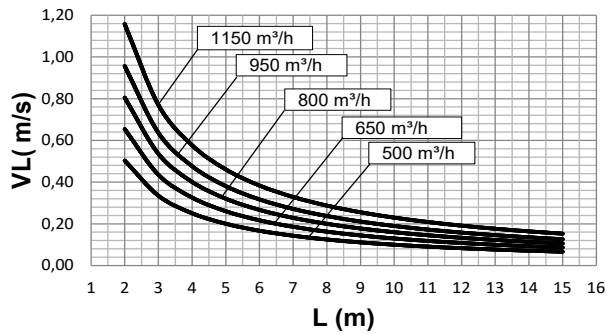


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 375x300

KN40 375x300 Throw R2

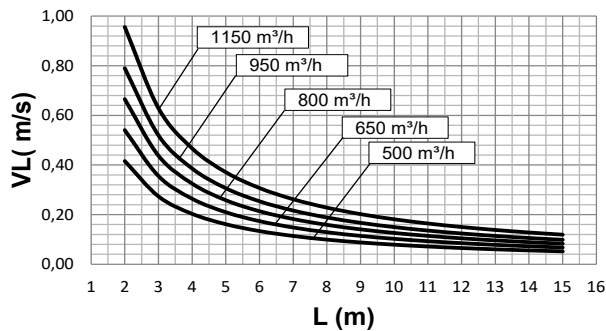


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

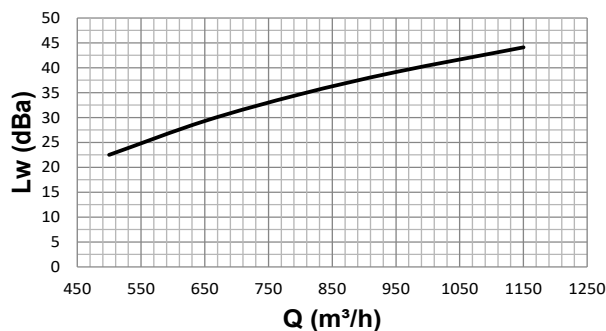
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 375x300 Throw R3



KN40 375x300 Sound power



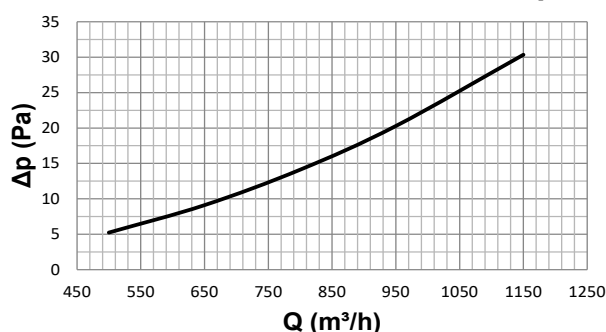
Data measured in reverberation room in accordance with international standards:

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

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

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KN40 375x300 Pressure drop



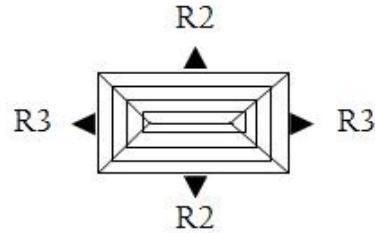
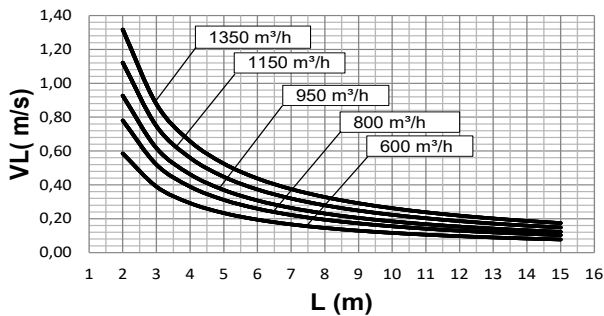


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 450x300

KN40 450x300 Throw R2

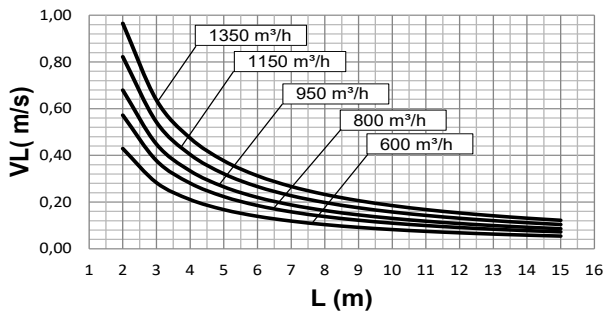


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

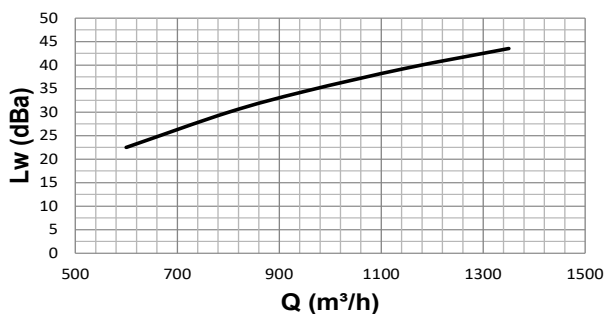
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 450x300 Throw R3



KN40 450x300 Sound power



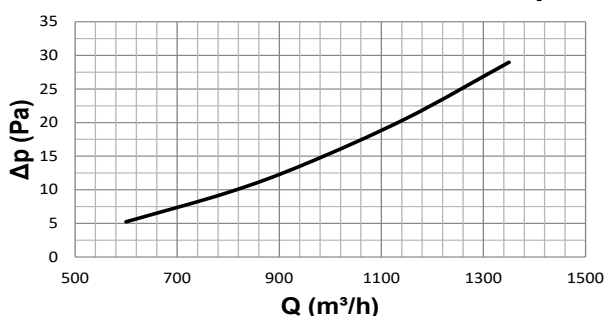
Data measured in reverberation room in accordance with international standards:

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

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KN40 450x300 Pressure drop



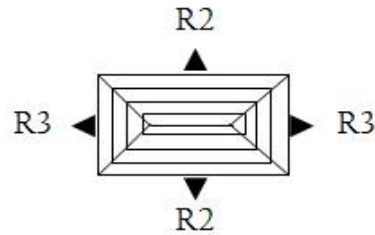
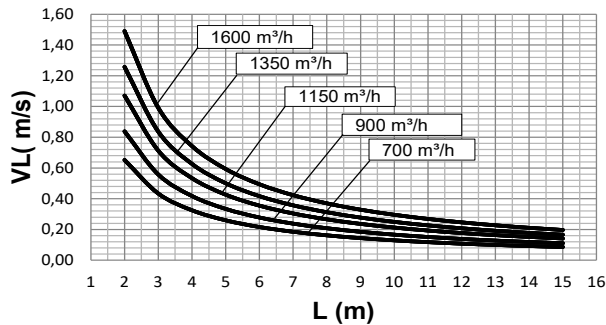


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 525x300

KN40 525x300 Throw R2

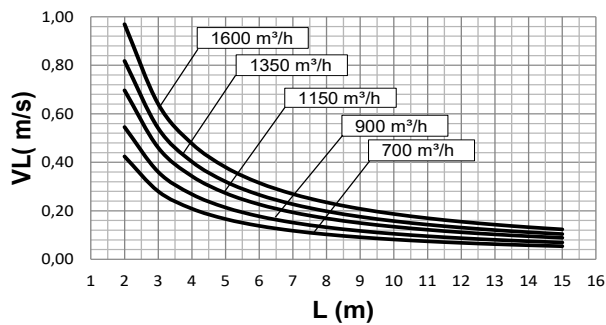


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

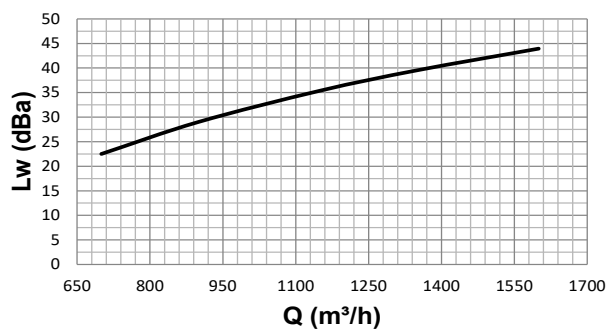
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 525x300 Throw R3



KN40 525x300 Sound power



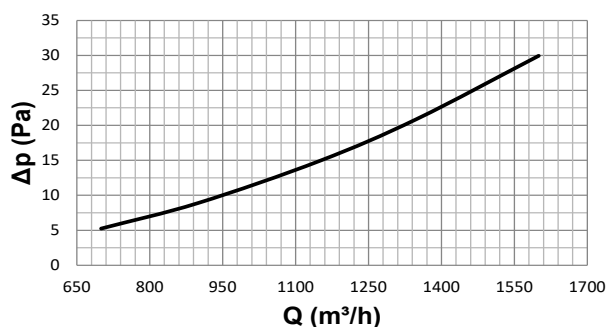
Data measured in reverberation room in accordance with international standards:

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

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KN40 525x300 Pressure drop



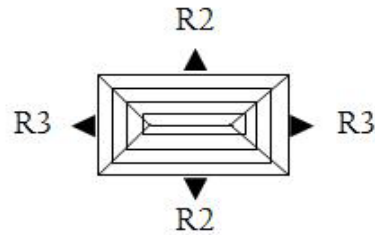
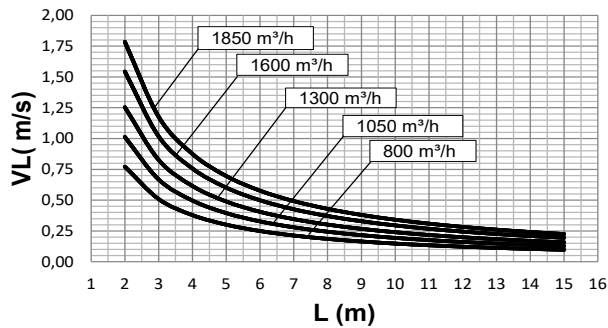


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 600x300

KN40 600x300 Throw R2

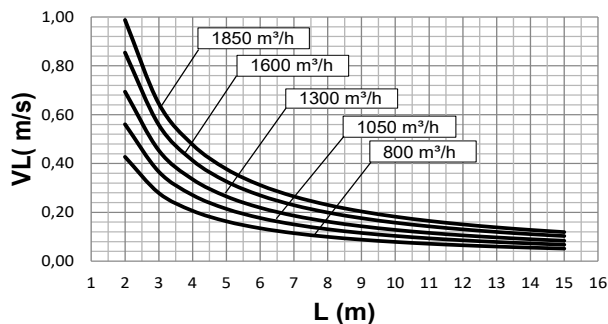


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

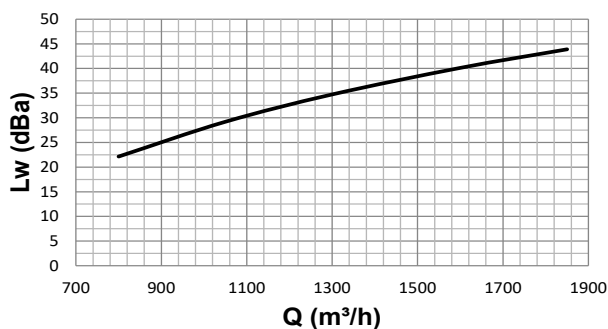
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 600x300 Throw R3



KN40 600x300 Sound power



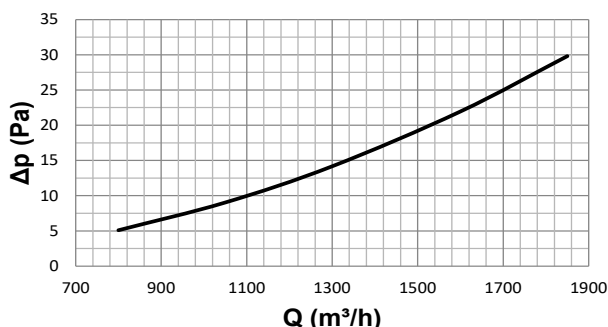
Data measured in reverberation room in accordance with international standards:

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

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

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KN40 600x300 Pressure drop



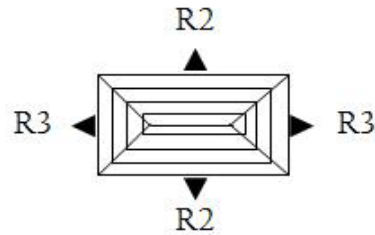
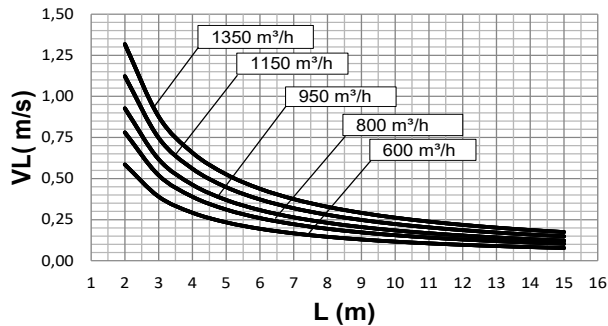


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 450x375

KN40 450x375 Throw R2

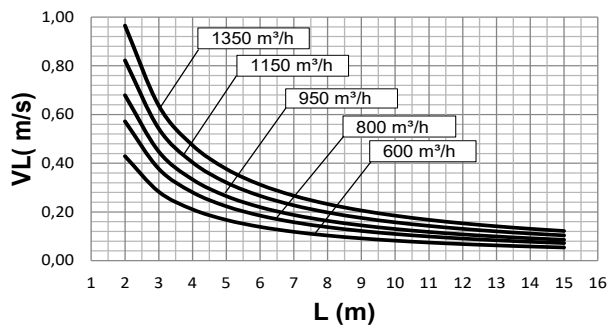


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

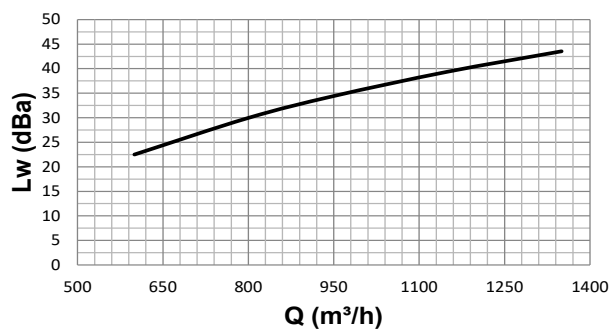
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 450x375 Throw R3



KN40 450x375 Sound power



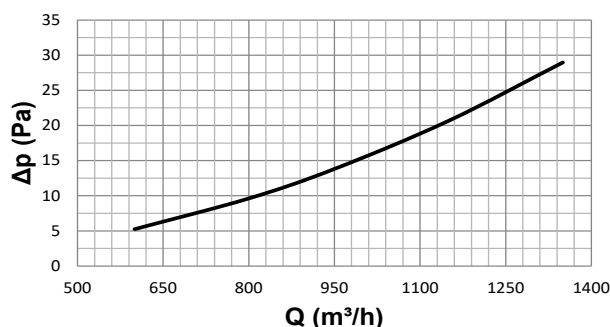
Data measured in reverberation room in accordance with international standards:

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

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

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KN40 450x375 Pressure drop



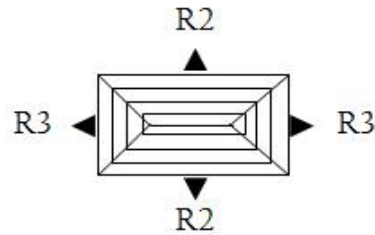
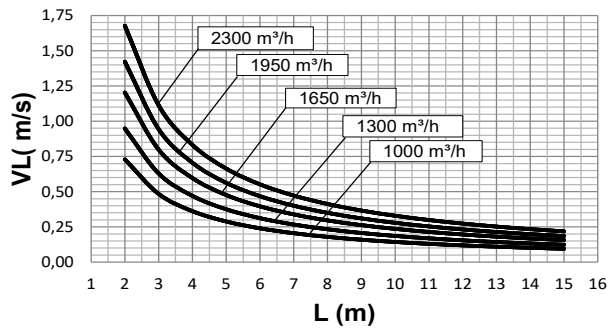


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 600x375

KN40 600x375 Throw R2

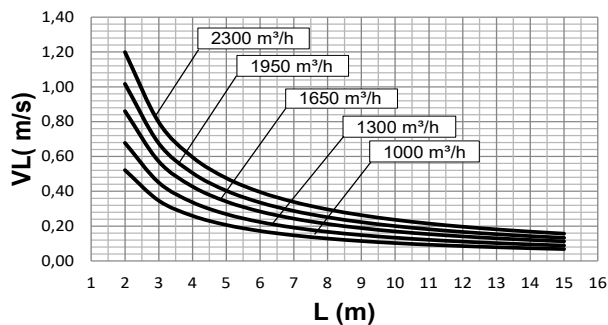


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

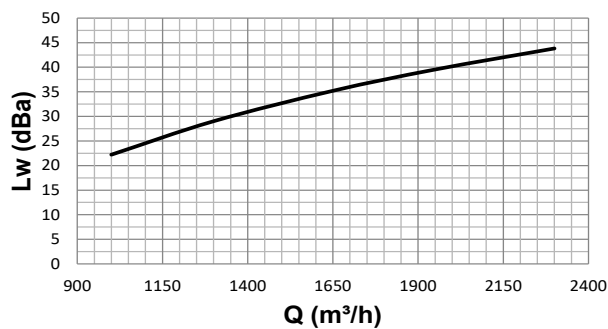
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 600x375 Throw R3



KN40 600x375 Sound power



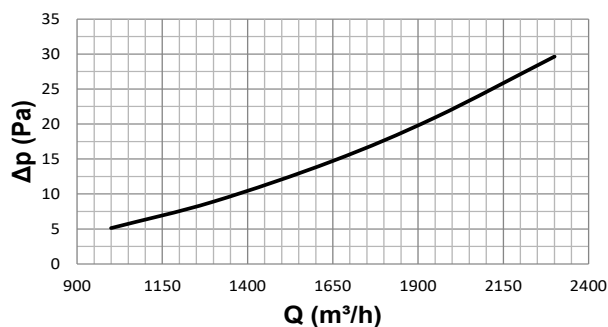
Data measured in reverberation room in accordance with international standards:

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.

KN40 600x375 Pressure drop



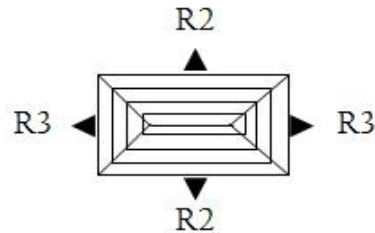
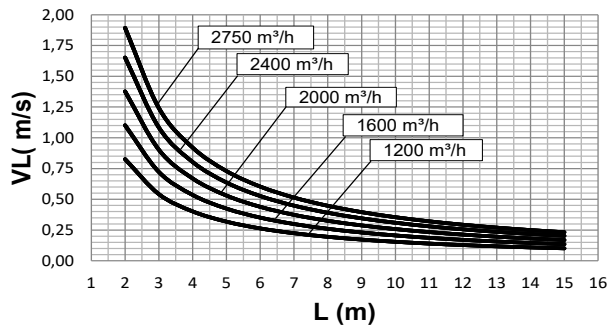


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN40
SERIES

PERFORMANCE KN40 600x450

KN40 600x450 Throw R2

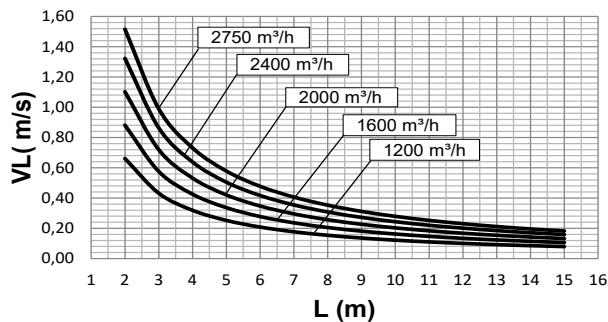


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

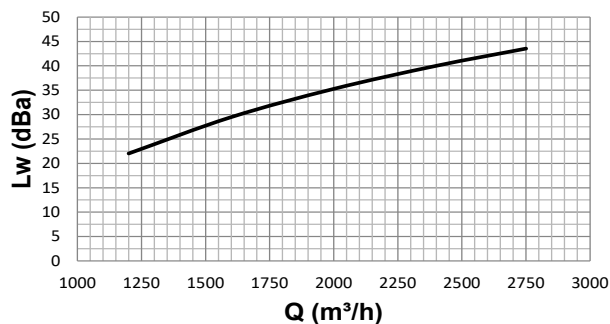
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN40 600x450 Throw R3



KN40 600x450 Sound power



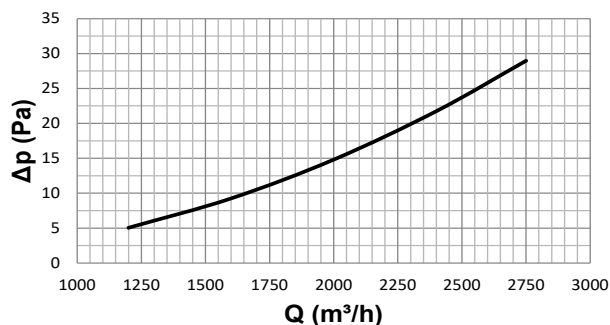
Data measured in reverberation room in accordance with international standards:

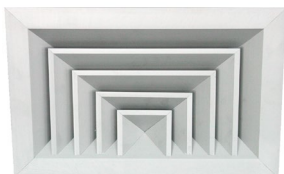
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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.

KN40 600x450 Pressure drop



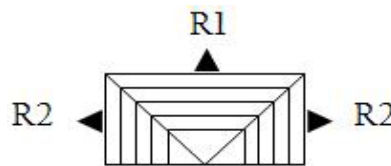
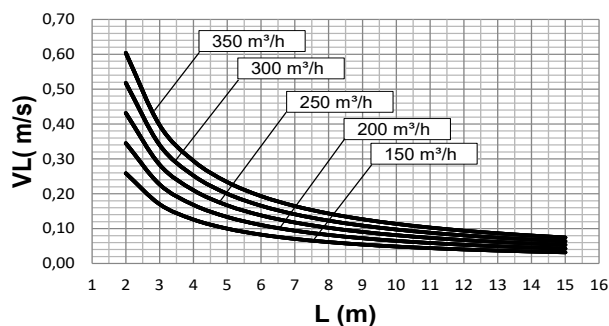


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN 30
SERIES

PERFORMANCE KN30 225x150

KN30 225x150 Throw R1

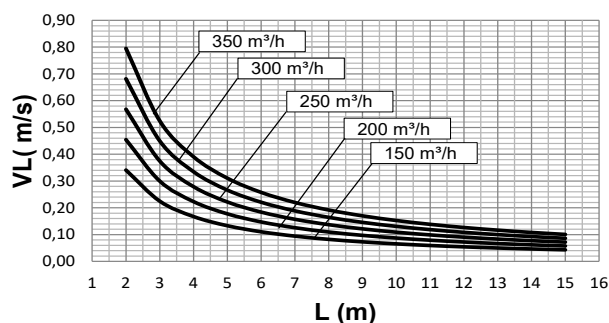


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

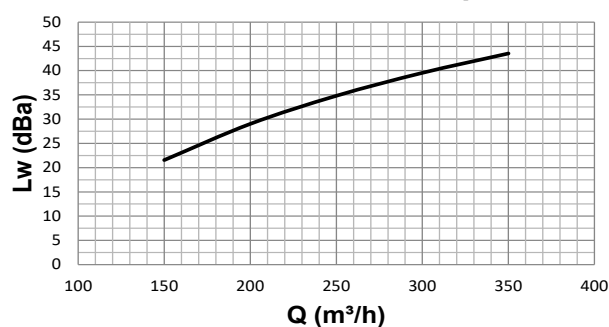
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN30 225x150 Throw R2



KN30 225x150 Sound power



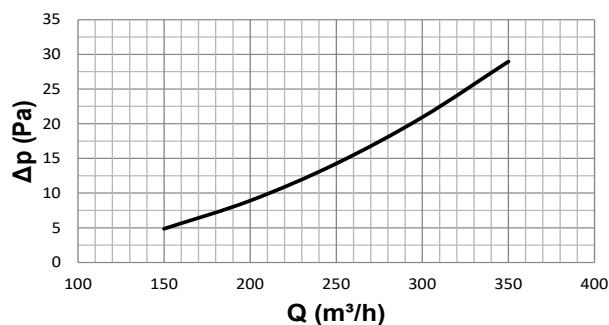
Data measured in reverberation room in accordance with international standards:

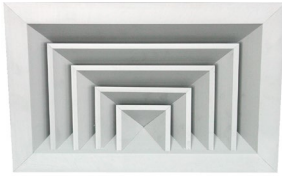
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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.

KN30 225x150 Pressure drop



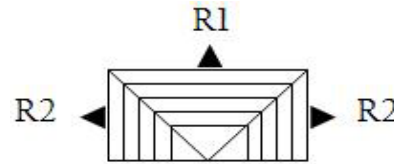
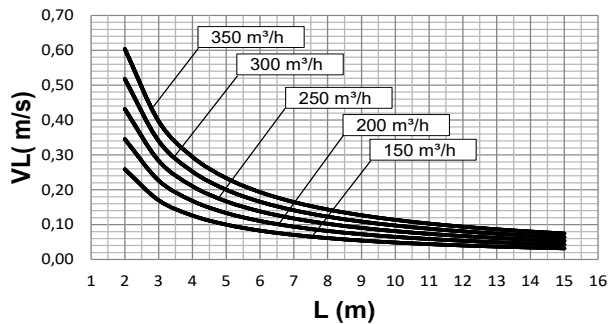


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN 30
SERIES

PERFORMANCE KN30 225x150

KN30 225x150 Throw R1

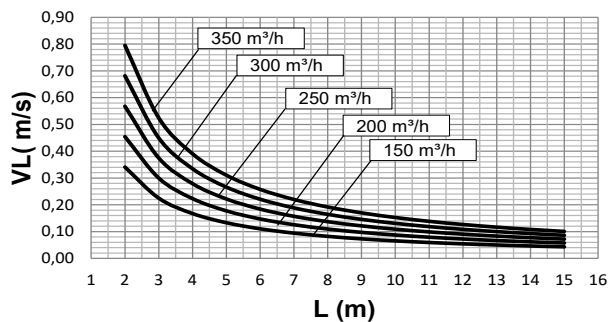


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

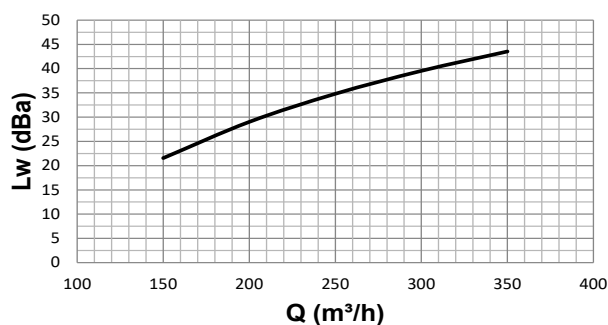
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN30 225x150 Throw R2



KN30 225x150 Sound power



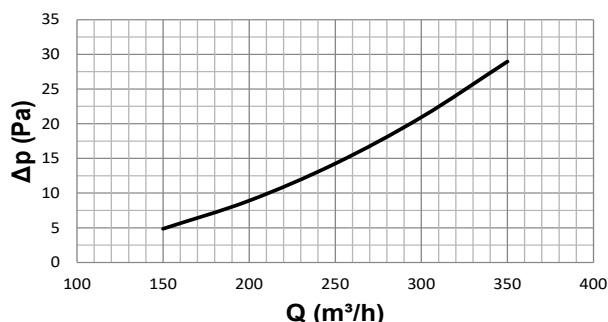
Data measured in reverberation room in accordance with international standards:

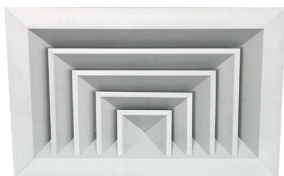
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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

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KN30 225x150 Pressure drop



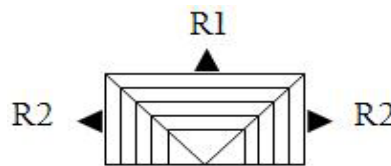
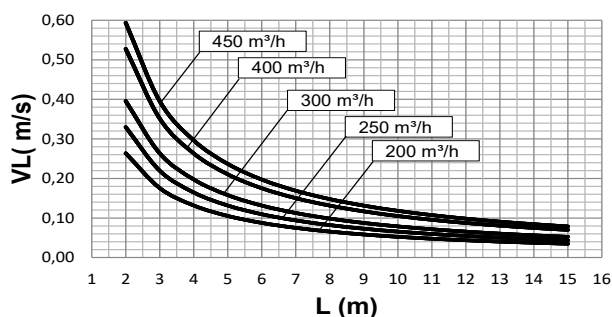


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN 30
SERIES

PERFORMANCE KN30 300x150

KN30 300x150 Throw R1

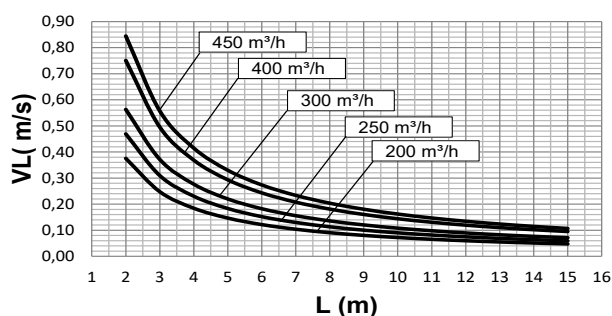


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

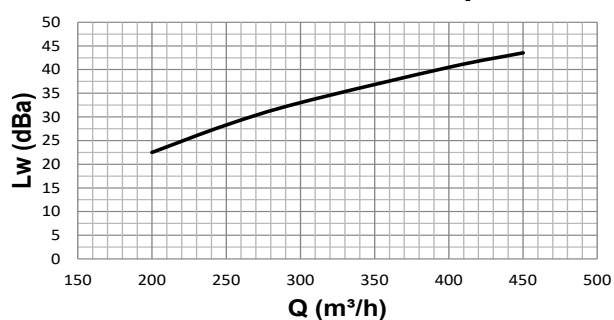
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN30 300x150 Throw R2



KN30 300x150 Sound power



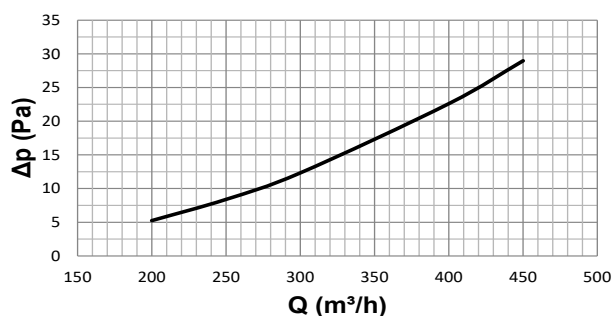
Data measured in reverberation room in accordance with international standards:

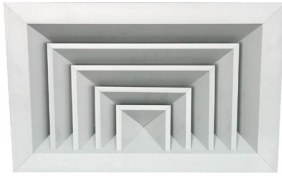
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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

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KN30 300x150 Pressure drop



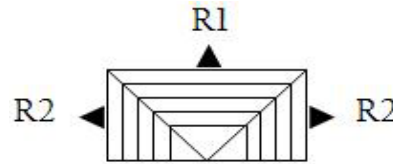
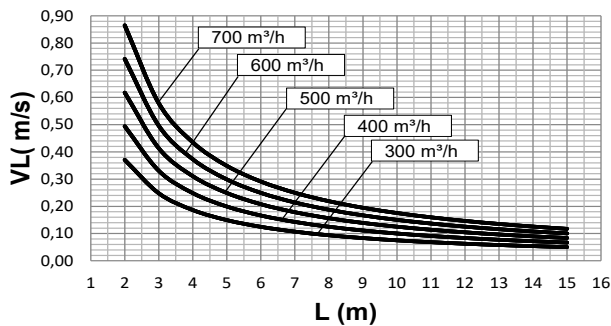


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN 30
SERIES

PERFORMANCE KN30 300x225

KN30 300x225 Throw R1

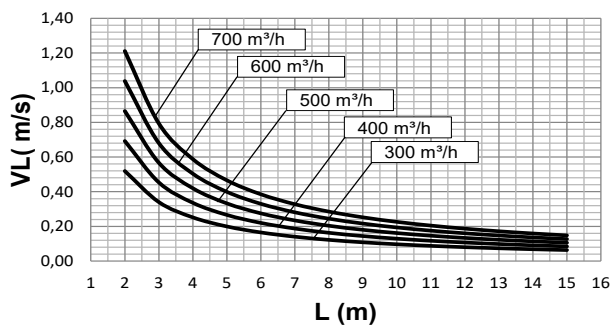


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

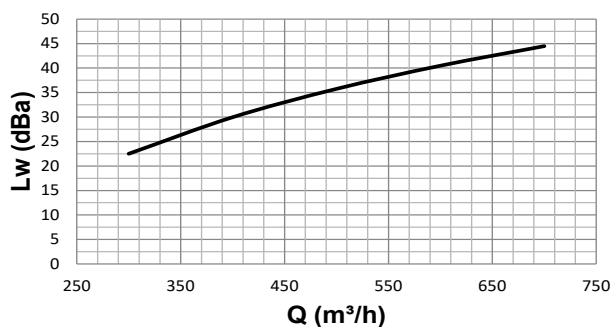
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN30 300x225 Throw R2



KN30 300x225 Sound power



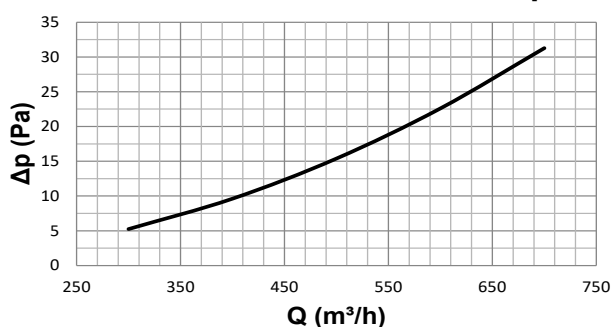
Data measured in reverberation room in accordance with international standards:

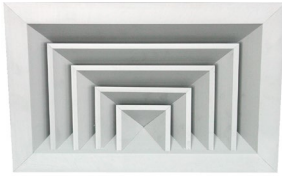
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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

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KN30 300x225 Pressure drop



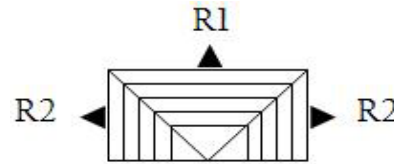
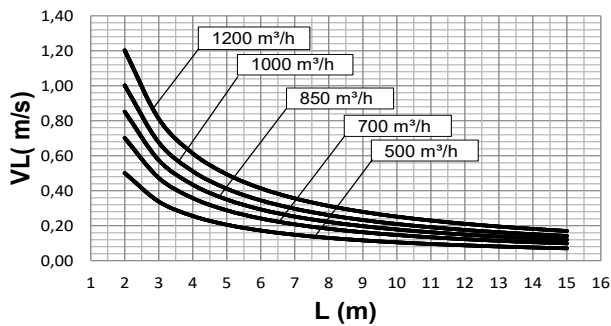


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN 30
SERIES

PERFORMANCE KN30 375x300

KN30 375x300 Throw R1

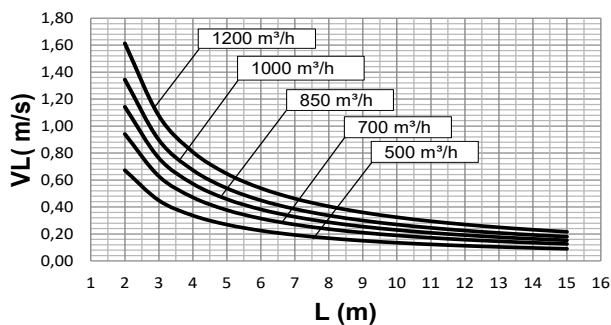


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

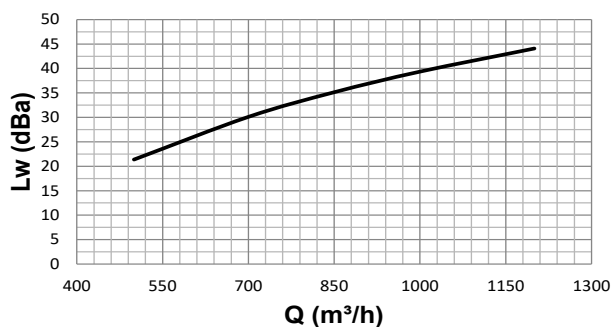
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN30 375x300 Throw R2



KN30 375x300 Sound power



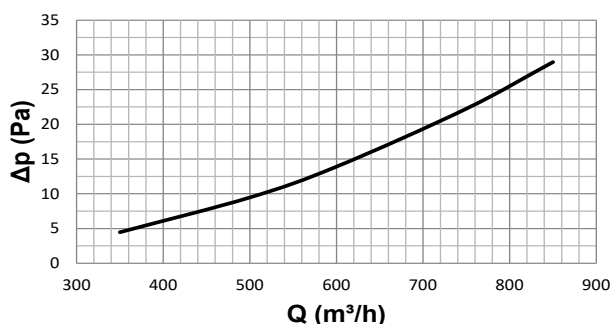
Data measured in reverberation room in accordance with international standards:

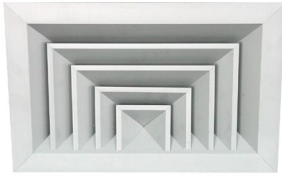
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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

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KN30 375x225 Pressure drop



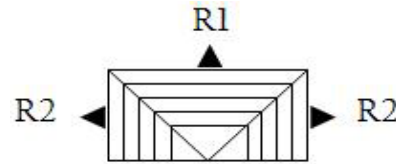
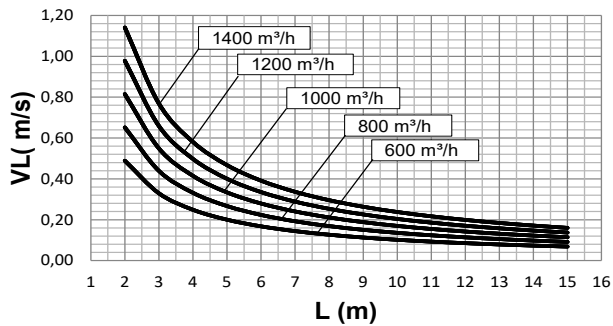


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN 30
SERIES

PERFORMANCE KN30 450x300

KN30 450x300 Throw R1

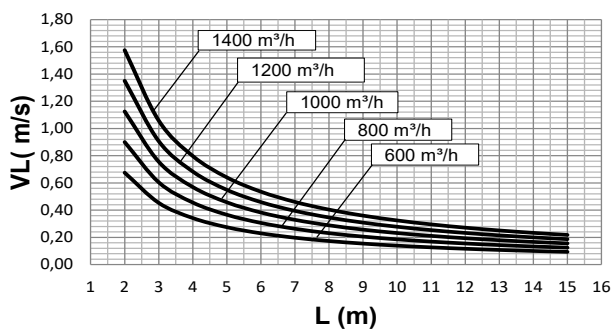


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

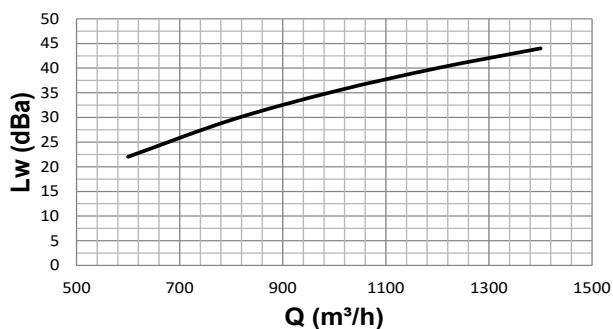
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN30 450x300 Throw R2



KN30 450x300 Sound power



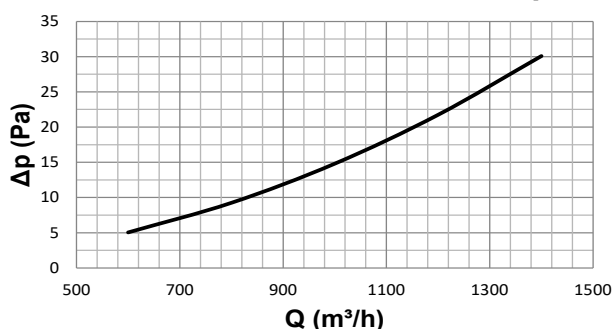
Data measured in reverberation room in accordance with international standards:

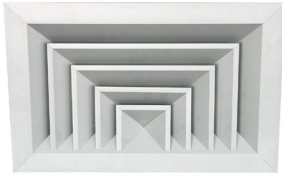
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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

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KN30 450x300 Pressure drop



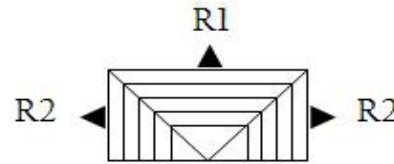
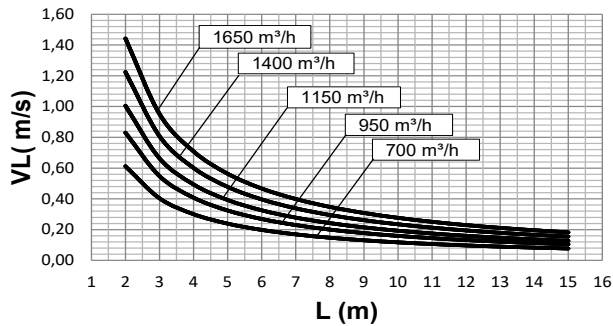


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN 30
SERIES

PERFORMANCE KN30 450x375

KN30 450x375 Throw R1

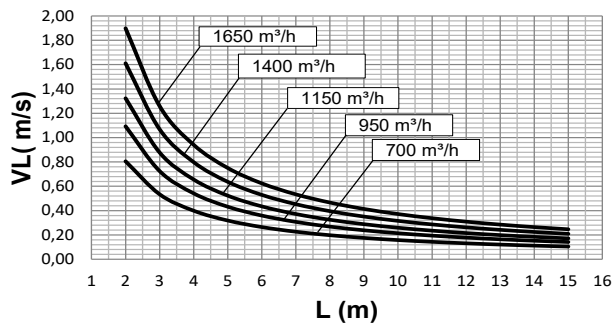


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

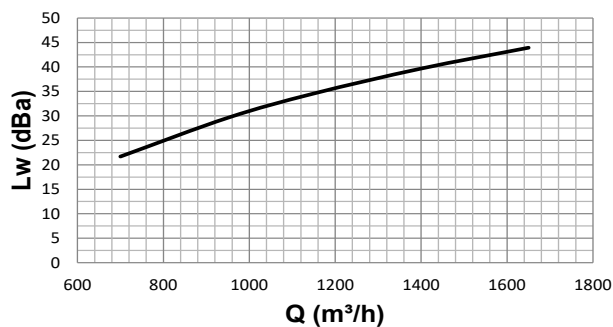
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN30 450x375 Throw R2



KN30 450x375 Sound power



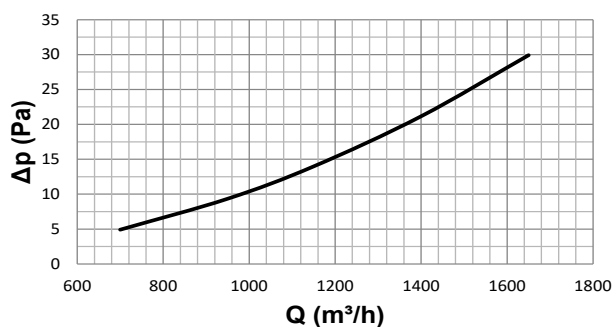
Data measured in reverberation room in accordance with international standards:

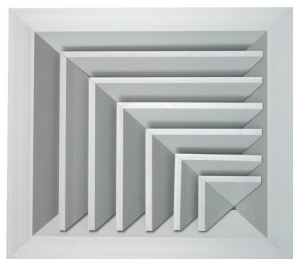
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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

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KN30 450x375 Pressure drop



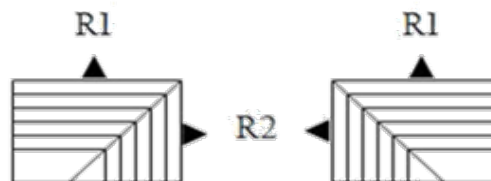
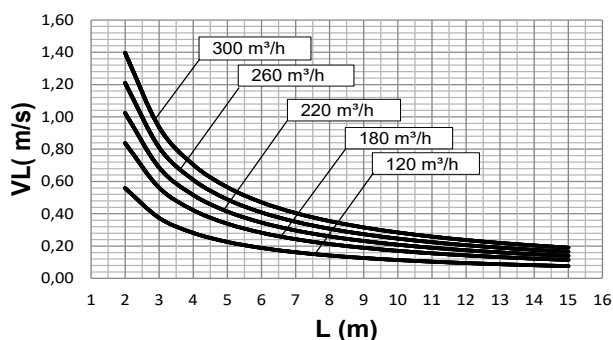


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN21 - KN22 225x150

KN21
KN22
SERIES

KN21-22 225x150 Throw R1

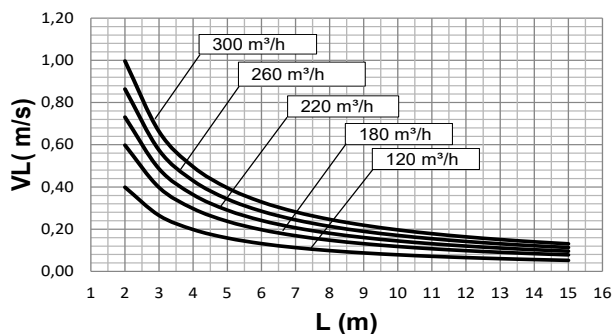


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

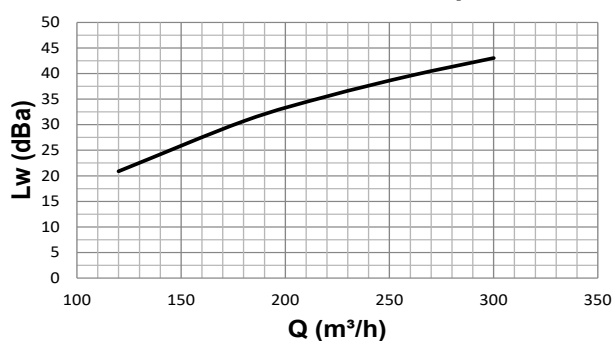
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN21-22 225x150 Throw R2



KN21-22 225x150 Sound power



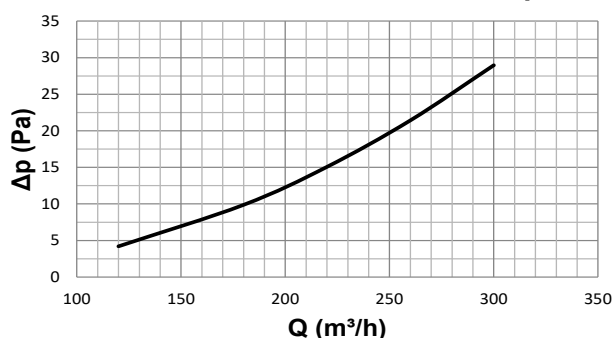
Data measured in reverberation room in accordance with international standards:

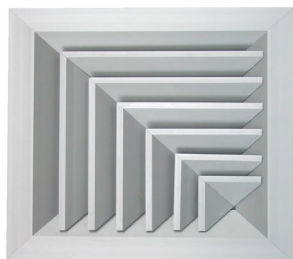
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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

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KN21-22 225x150 Pressure drop



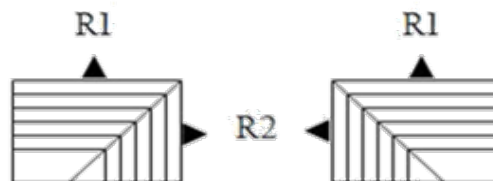
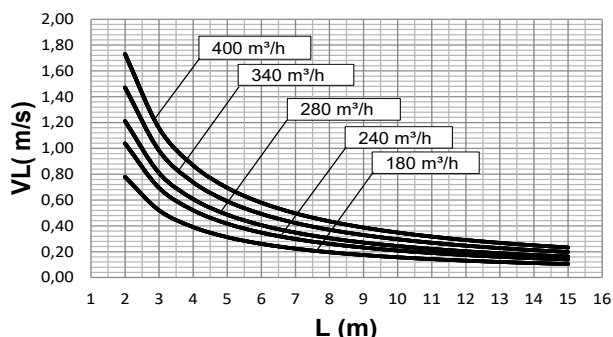


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN21 - KN22 300x150

KN21
KN22
SERIES

KN21-22 300x150 Throw R1

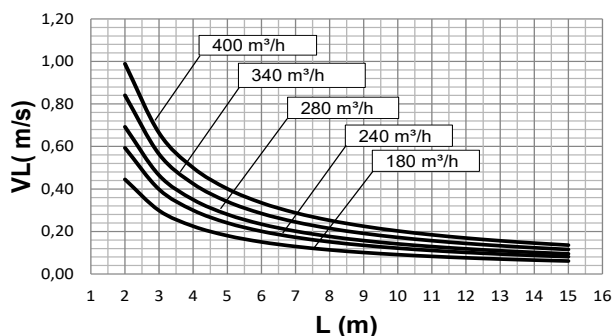


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

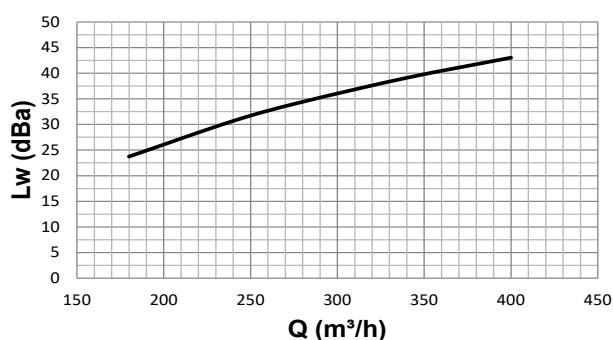
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN21-22 300x150 Throw R2



KN21-22 300x150 Sound power



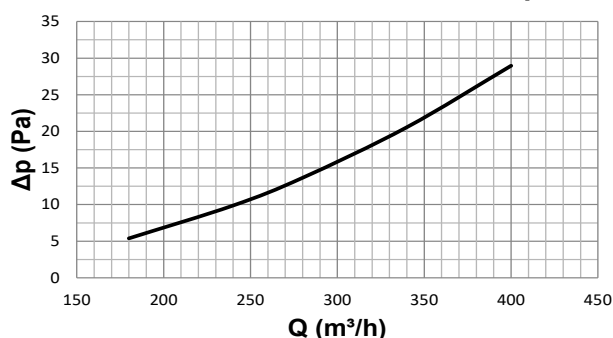
Data measured in reverberation room in accordance with international standards:

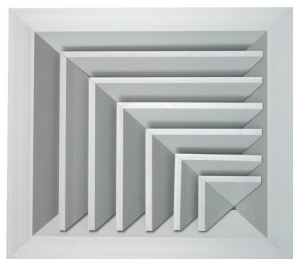
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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.

KN21-22 300x150 Pressure drop



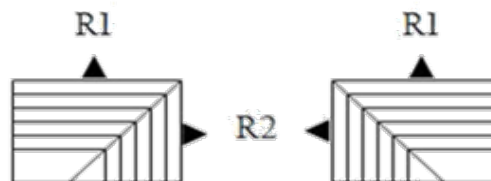
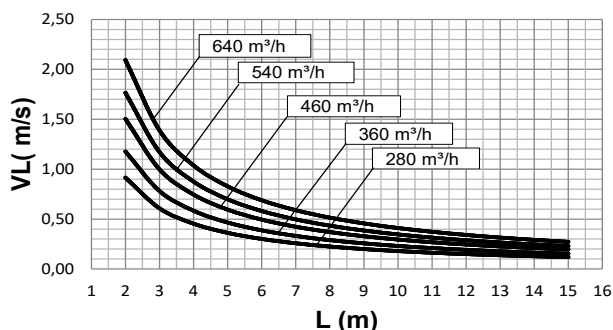


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN21 - KN22 300x225

KN21
KN22
SERIES

KN21-22 300x225 Throw R1

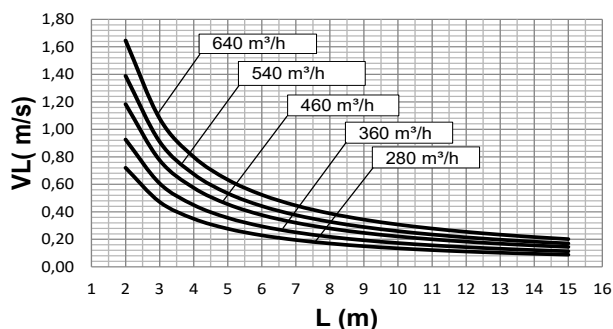


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

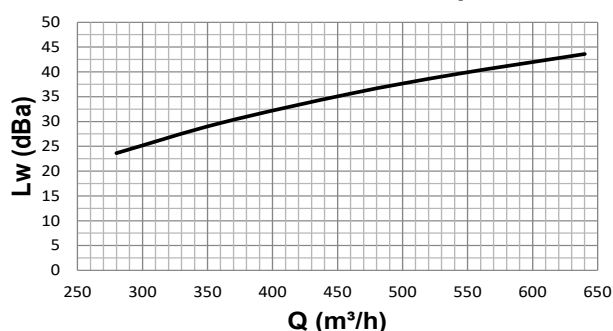
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN21-22 300x225 Throw R2



KN21-22 300x225 Sound power



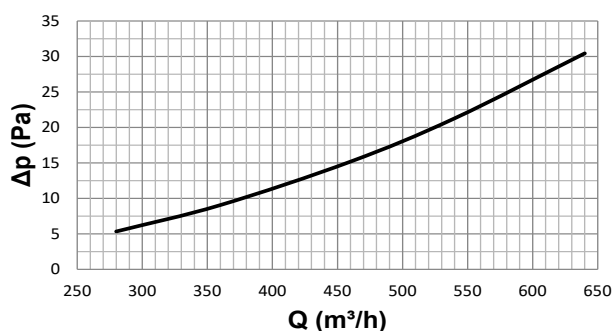
Data measured in reverberation room in accordance with international standards:

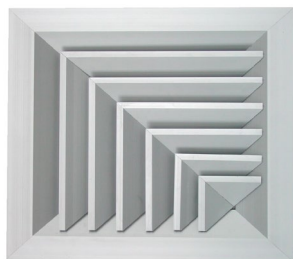
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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

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KN21-22 300x225 Pressure drop



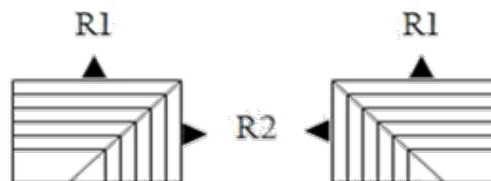
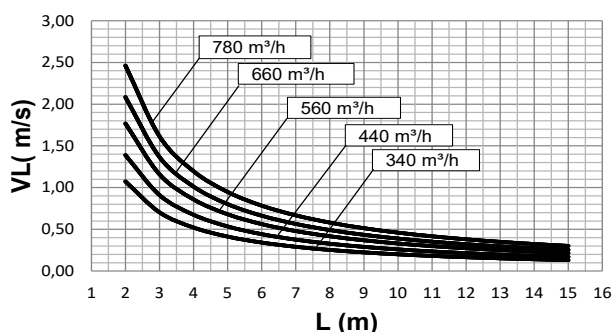


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN21 - KN22 375x225

KN21
KN22
SERIES

KN21-22 375x225 Throw R1

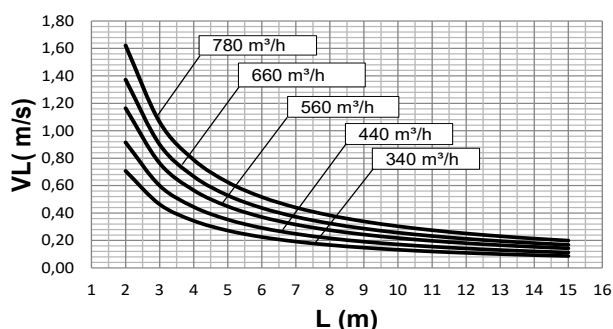


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

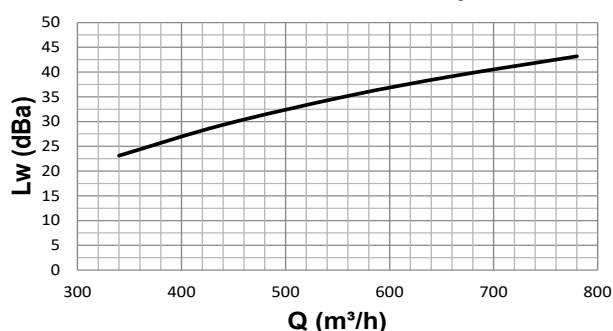
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN21-22 375x225 Throw R2



KN21-22 375x225 Sound power



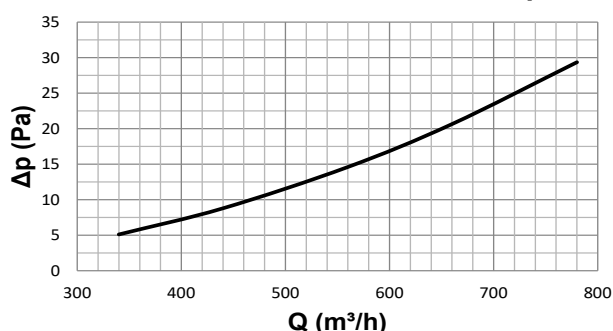
Data measured in reverberation room in accordance with international standards:

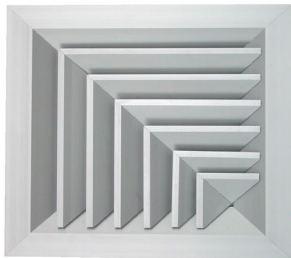
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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

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KN21-22 375x225 Pressure drop



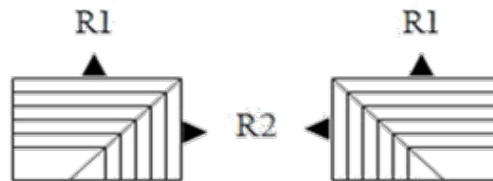
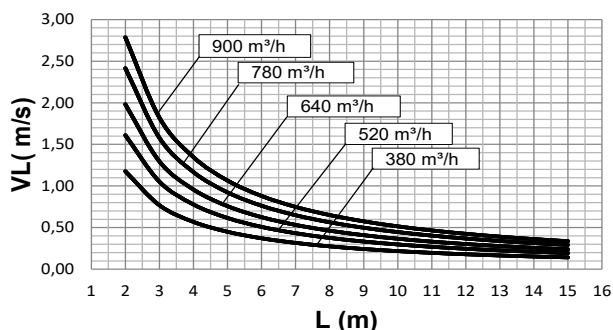


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN21 - KN22 450x225

KN21
KN22
SERIES

KN21-22 450x225 Throw R1

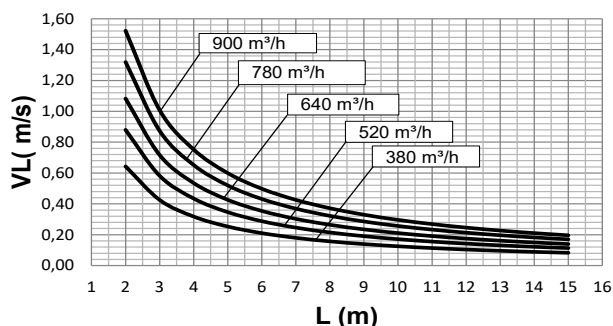


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

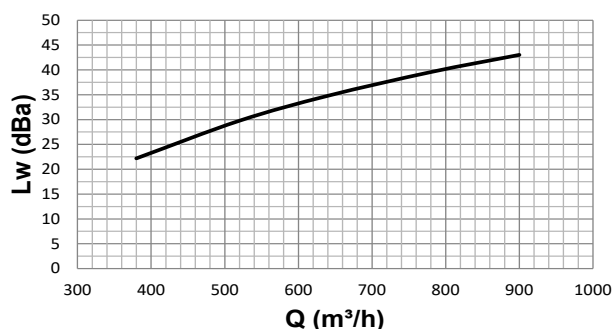
L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN21-22 450x225 Throw R2



KN21-22 450x225 Sound power



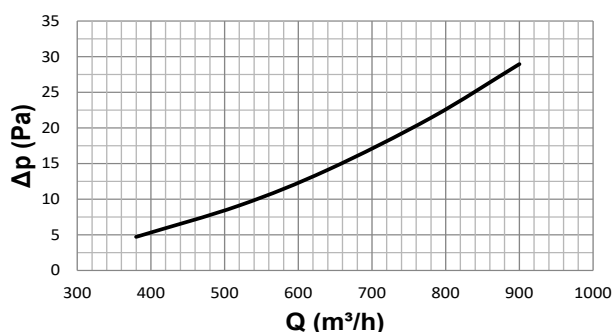
Data measured in reverberation room in accordance with international standards:

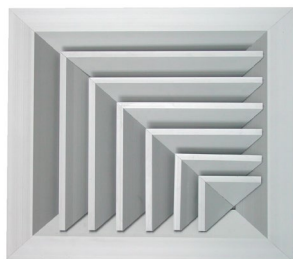
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

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

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KN21-22 450x225 Pressure drop

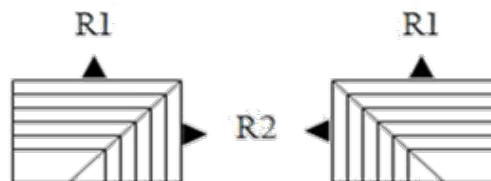
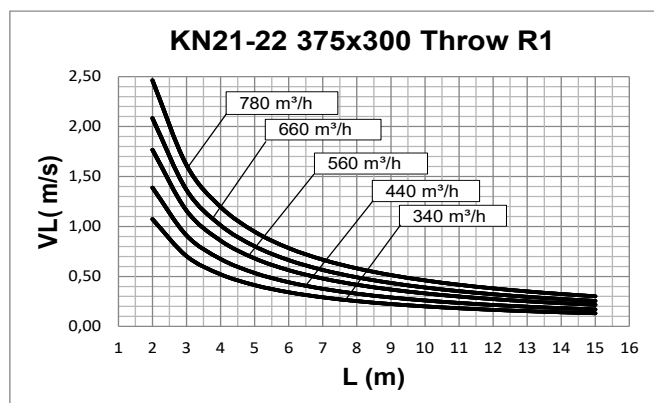




MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN21 - KN22 375x300

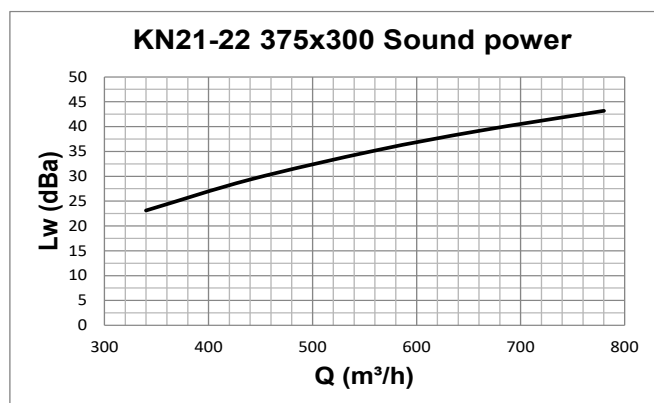
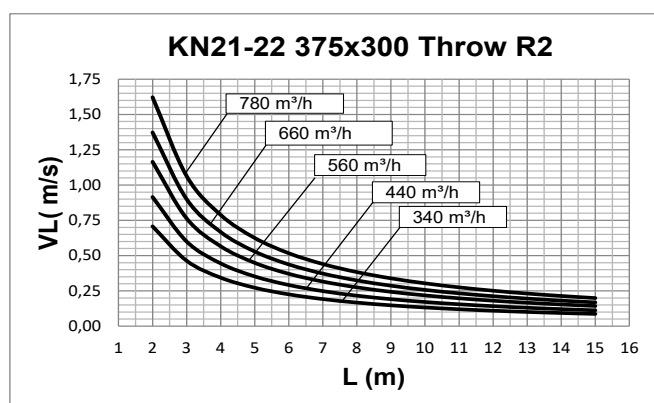
KN21
KN22
SERIES



Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

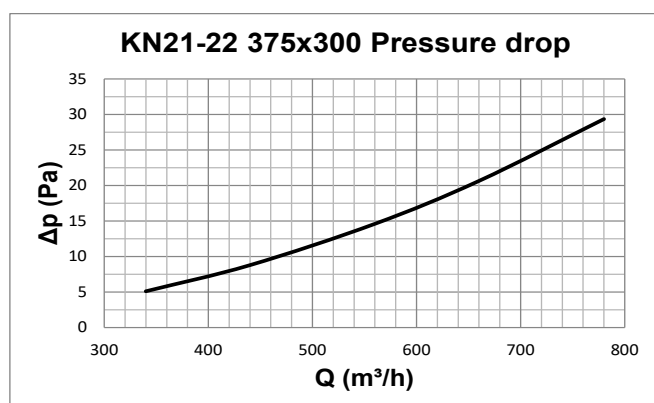


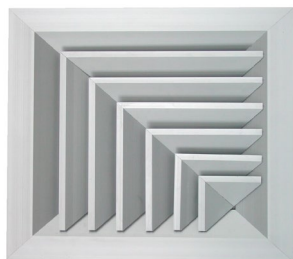
Data measured in reverberation room in accordance with international standards:

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

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

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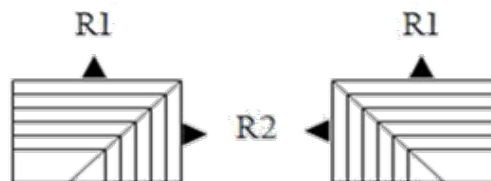
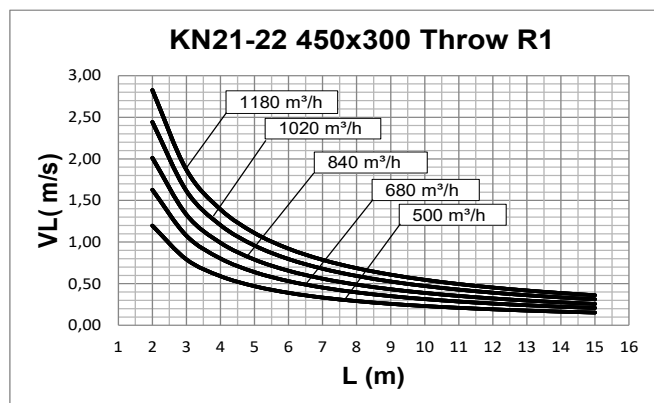




MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN21 - KN22 450x300

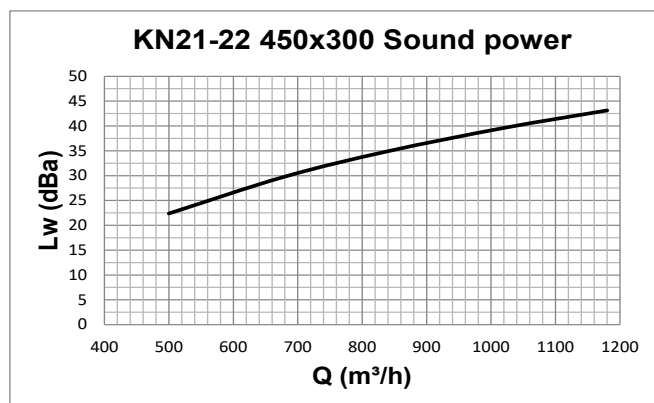
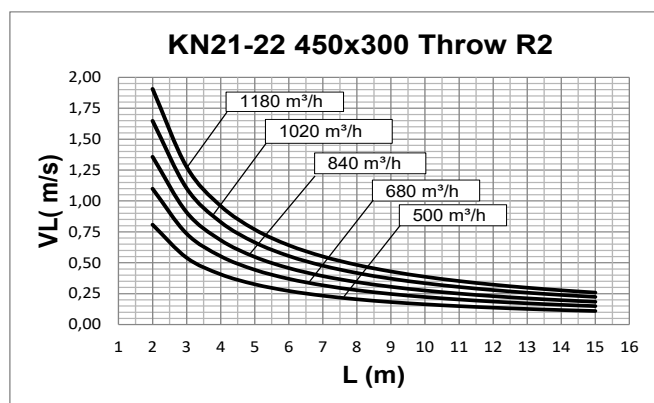
KN21
KN22
SERIES



Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

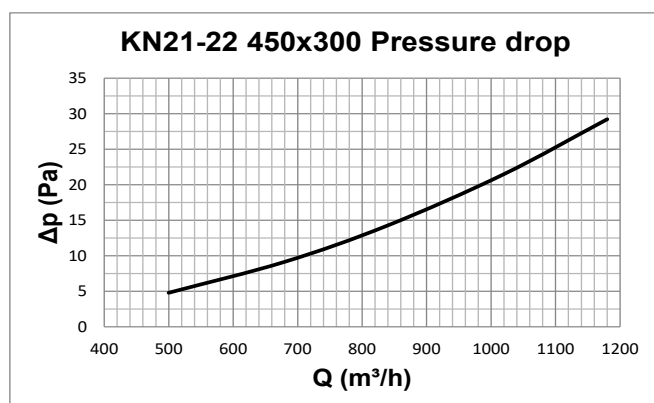


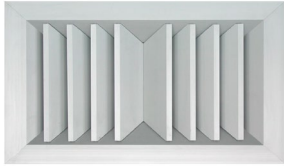
Data measured in reverberation room in accordance with international standards:

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

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

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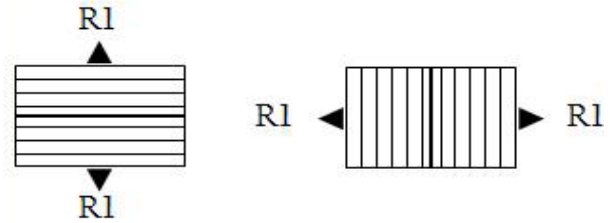
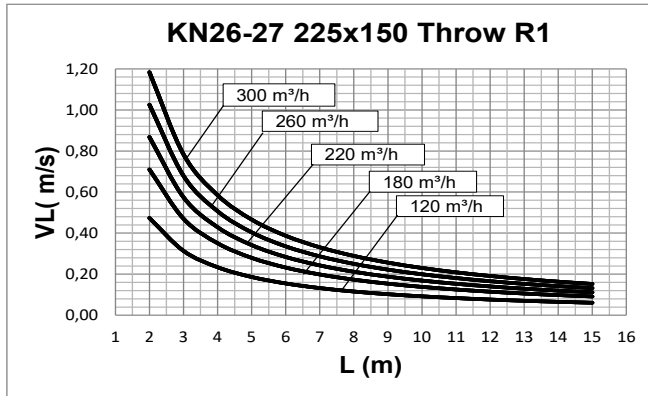




MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN26 - KN27 225x150

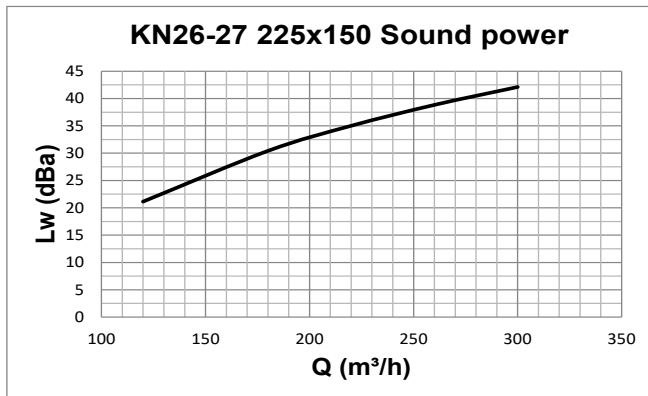
KN26
KN27
SERIES



Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

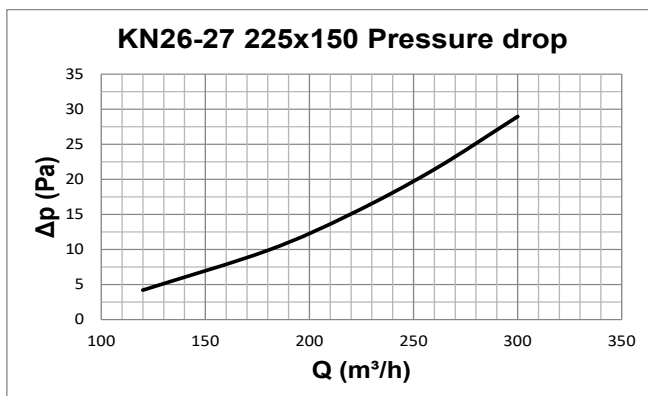


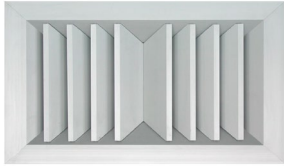
Data measured in reverberation room in accordance with international standards:

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

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

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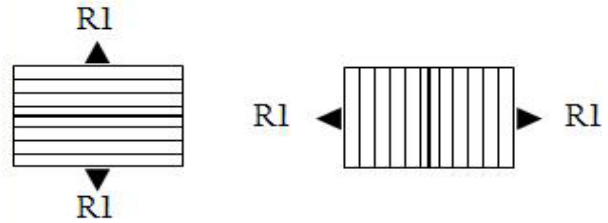
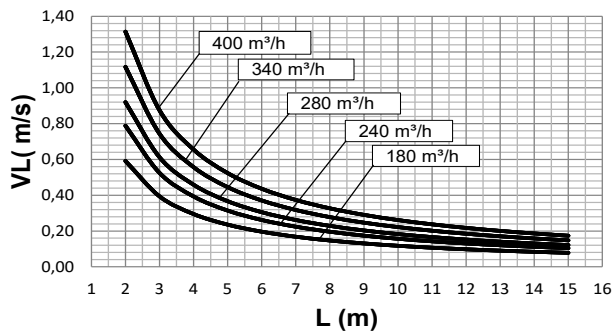


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN26 - KN27 300x150

KN26
KN27
SERIES

KN26-27 300x150 Throw R1

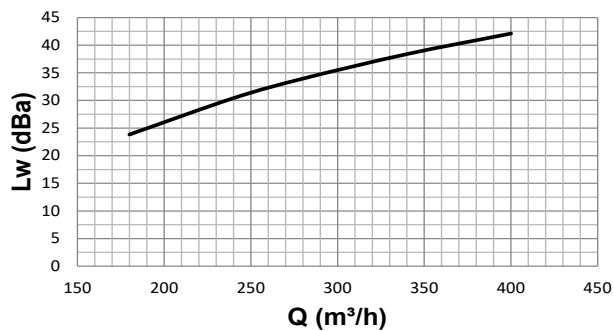


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN26-27 300x150 Sound power



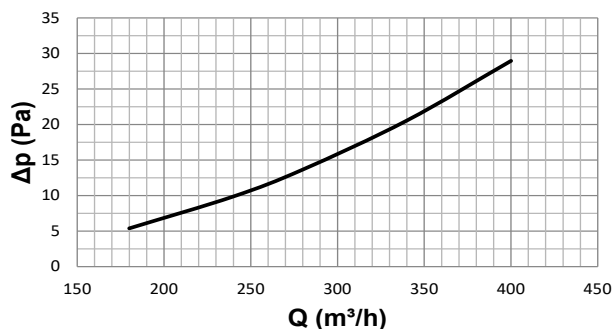
Data measured in reverberation room in accordance with international standards:

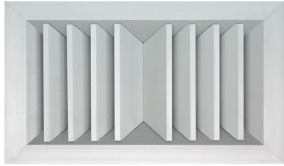
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ISO 5135 1997: Acoustic - determination of sound power levels of noise from air-terminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.

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KN26-27 300x150 Pressure drop

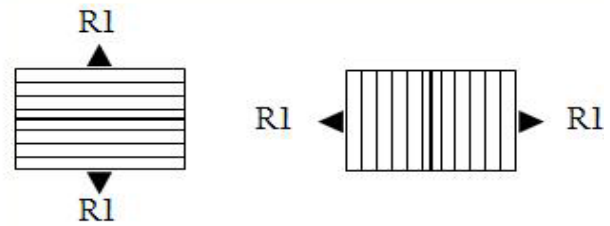
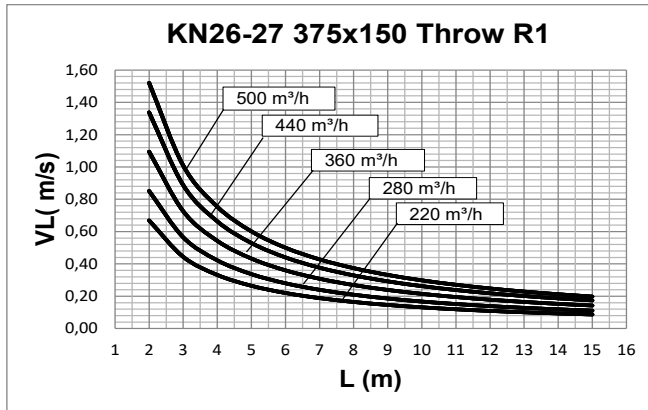




MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN26 - KN27 375x150

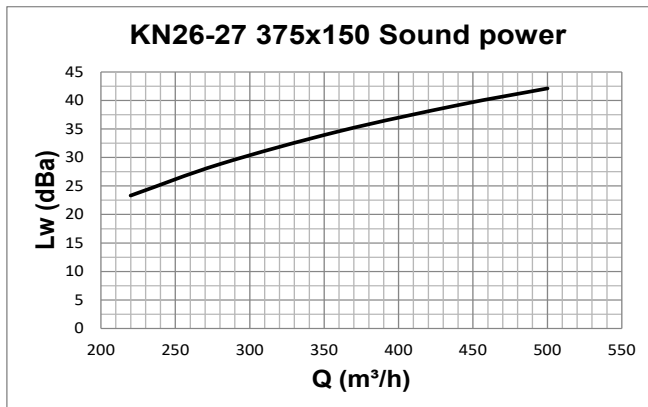
KN26
KN27
SERIES



Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

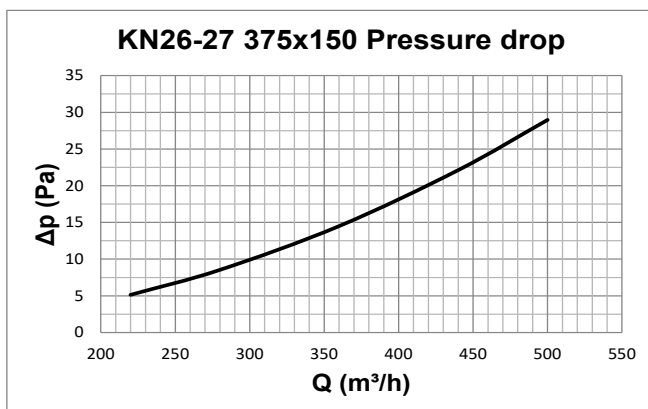


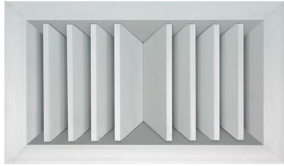
Data measured in reverberation room in accordance with international standards:

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

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

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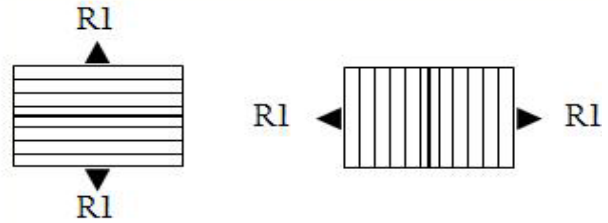
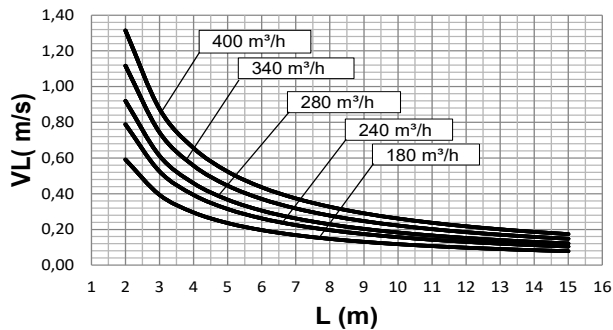


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN26 - KN27 300x225

KN26
KN27
SERIES

KN26-27 300x225 Throw R1

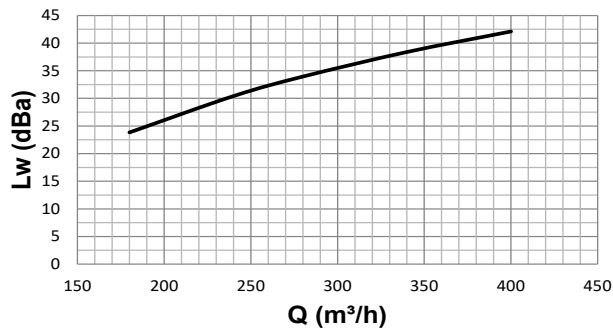


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN26-27 300x225 Sound power



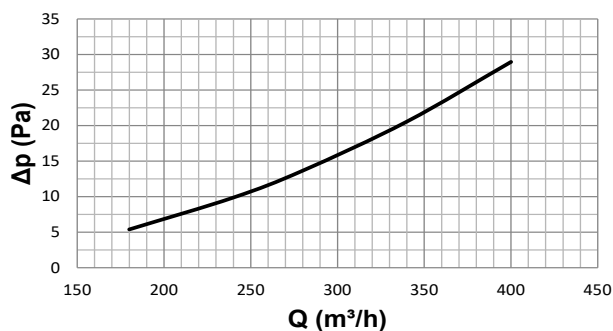
Data measured in reverberation room in accordance with international standards:

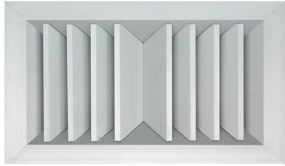
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

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

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KN26-27 300x225 Pressure drop



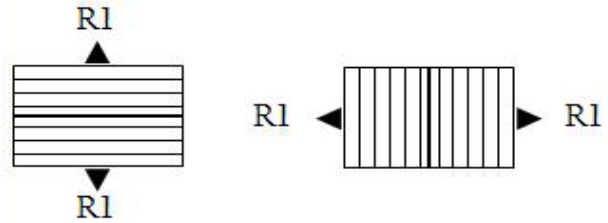
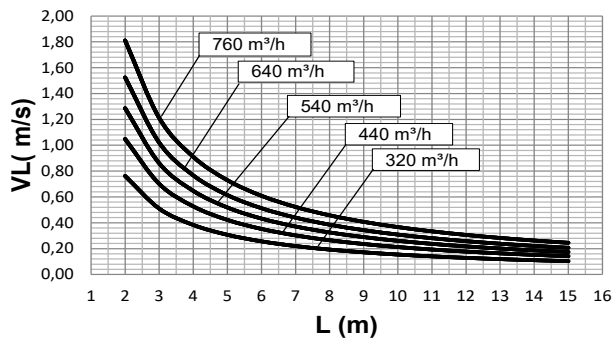


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN26 - KN27 375x225

KN26
KN27
SERIES

KN26-27 375x225 Throw R1

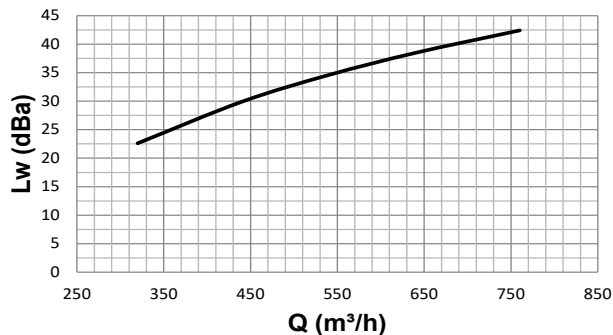


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN26-27 375x225 Sound power



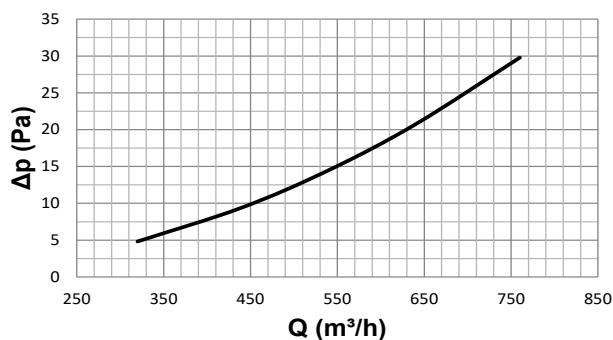
Data measured in reverberation room in accordance with international standards:

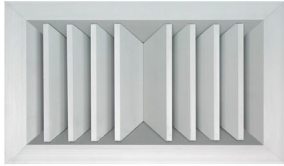
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

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KN26-27 375x225 Pressure drop



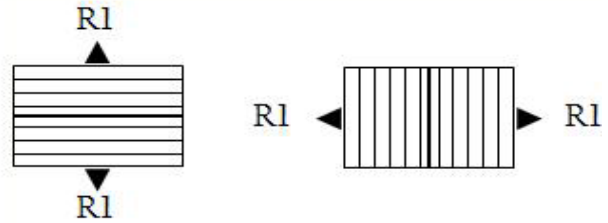
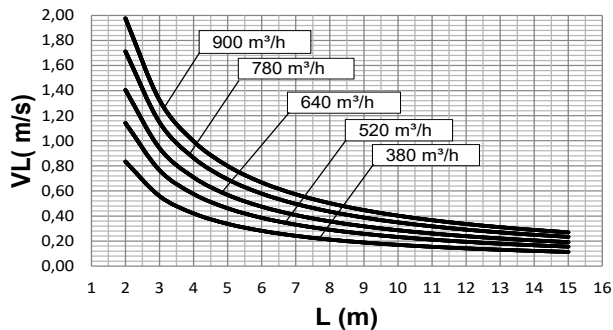


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN26 - KN27 450x225

KN26
KN27
SERIES

KN26-27 450x225 Throw R1

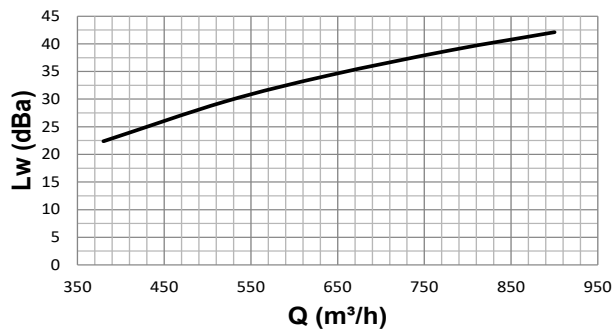


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN26-27 450x225 Sound power



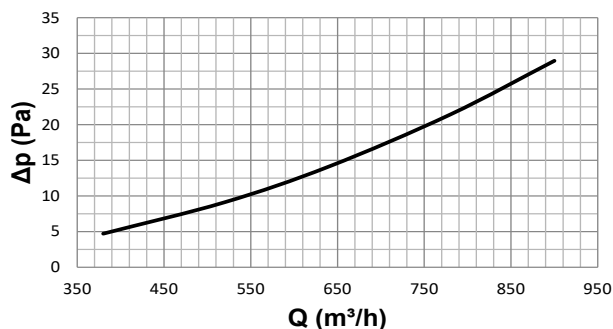
Data measured in reverberation room in accordance with international standards:

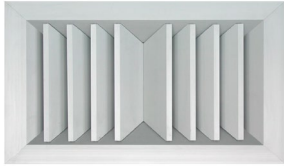
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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.

KN26-27 450x225 Pressure drop



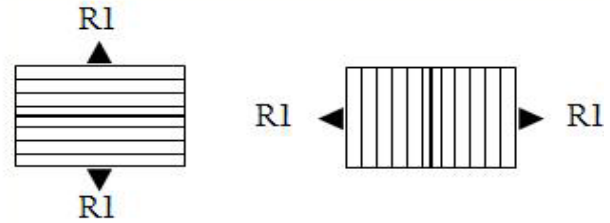
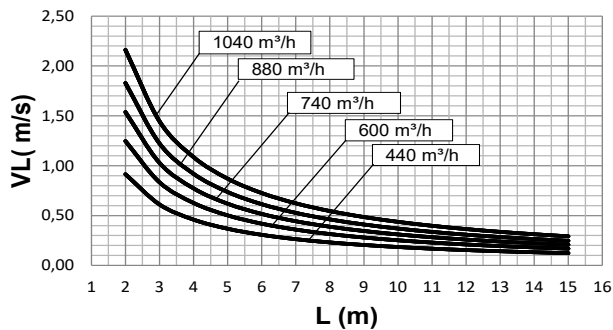


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN26 - KN27 525x225

KN26
KN27
SERIES

KN26-27 525x225 Throw R1

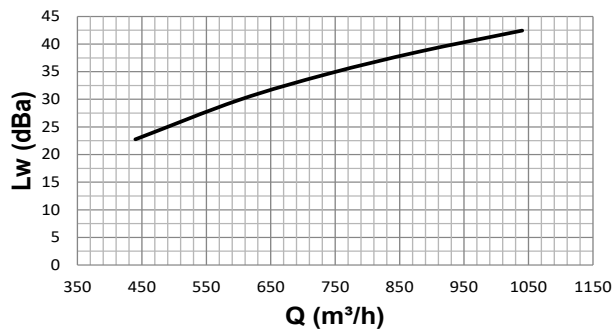


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN26-27 525x225 Sound power



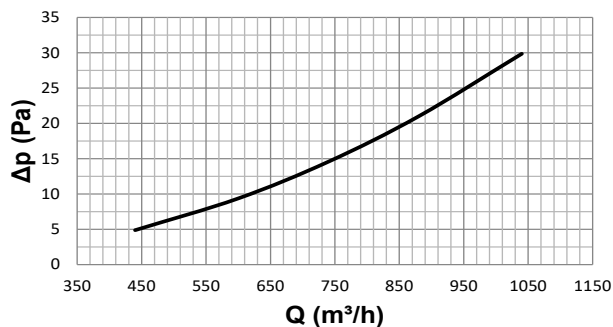
Data measured in reverberation room in accordance with international standards:

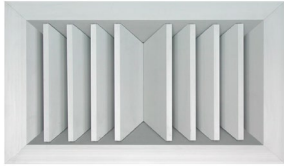
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

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.

KN26-27 525x225 Pressure drop



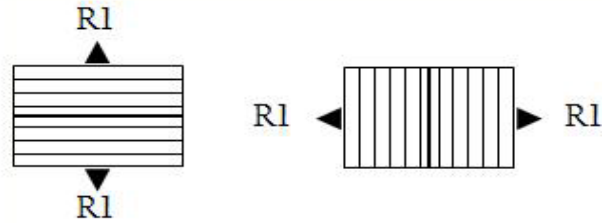
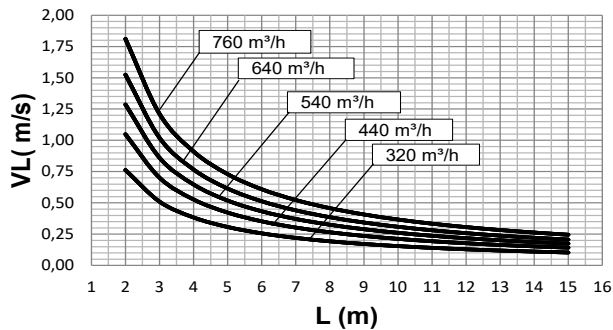


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN26 - KN27 375x300

KN26
KN27
SERIES

KN26-27 375x300 Throw R1

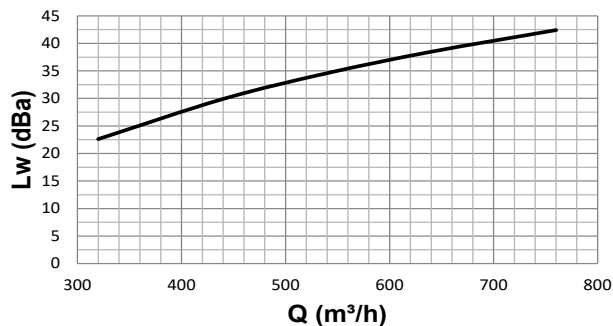


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN26-27 375x300 Sound power



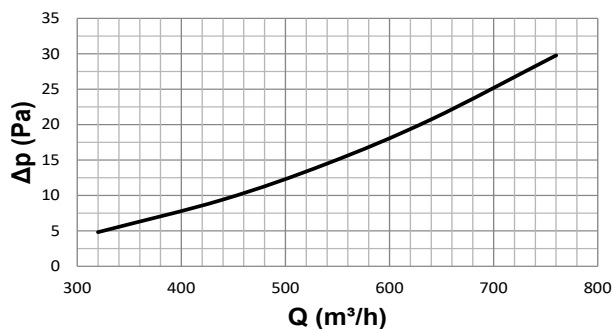
Data measured in reverberation room in accordance with international standards:

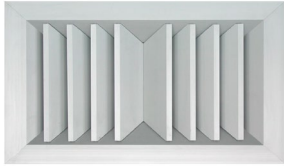
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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.

KN26-27 375x300 Pressure drop



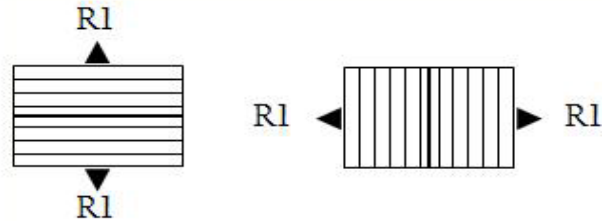
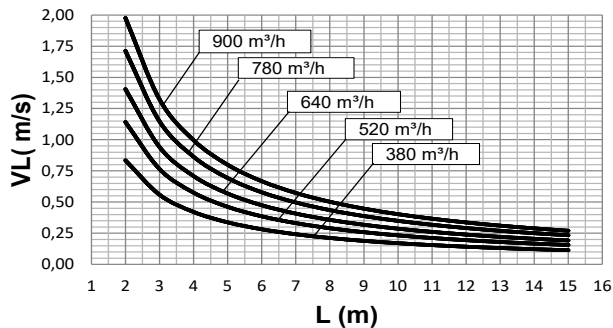


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN26 - KN27 450x300

KN26
KN27
SERIES

KN26-27 450x300 Throw R1

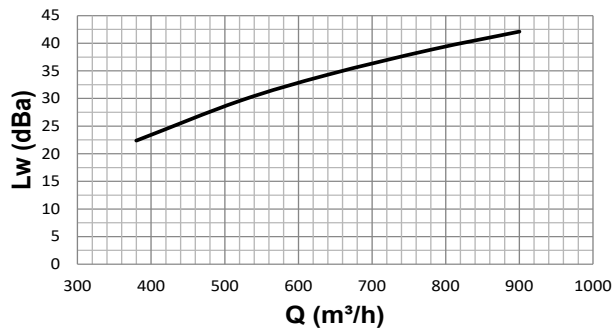


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN26-27 450x300 Sound power



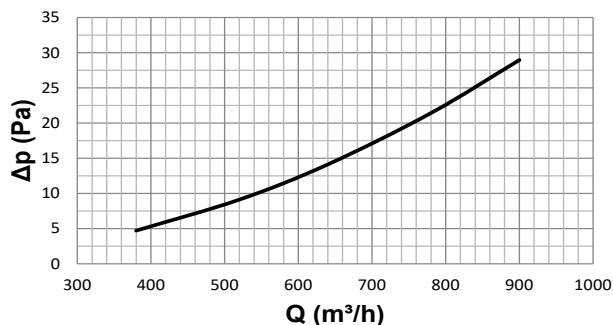
Data measured in reverberation room in accordance with international standards:

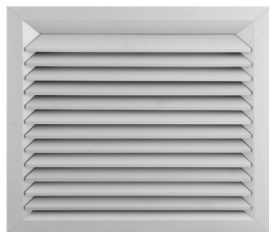
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

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.

KN26-27 450x300 Pressure drop

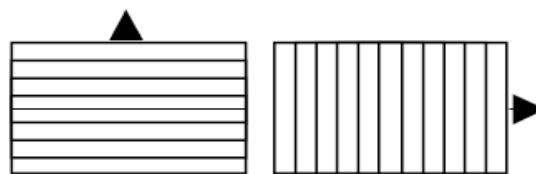
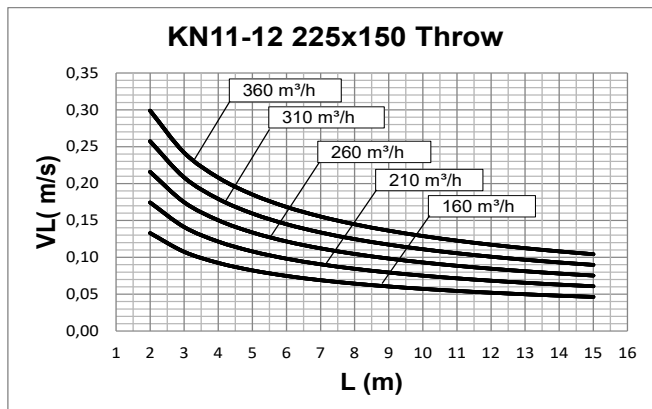




MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 225x150

KN11
KN12
SERIES

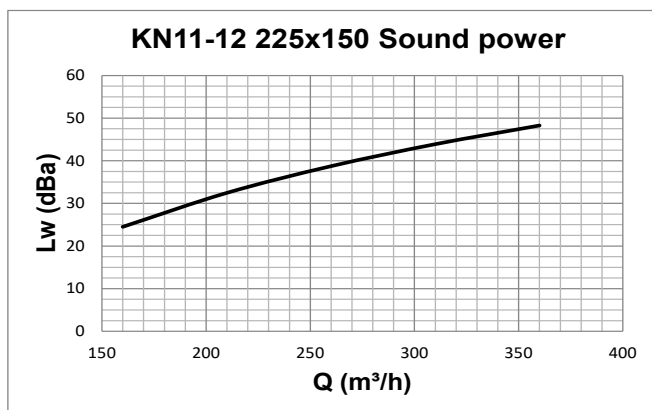


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:

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

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

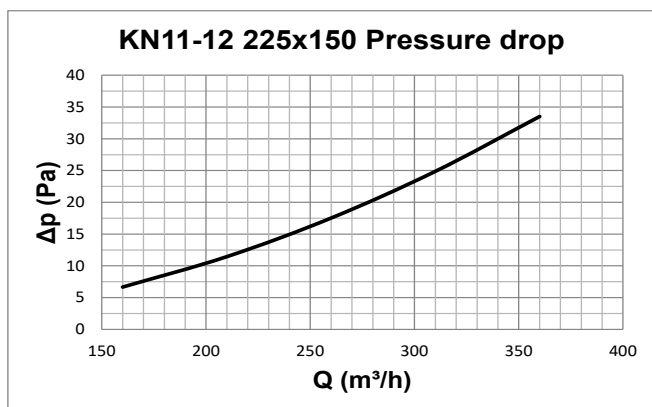


Data measured in reverberation room in accordance with international standards:

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.



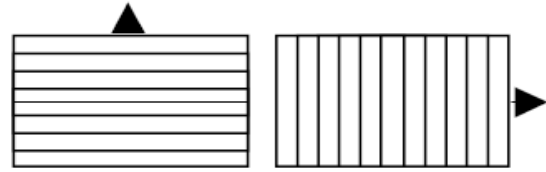
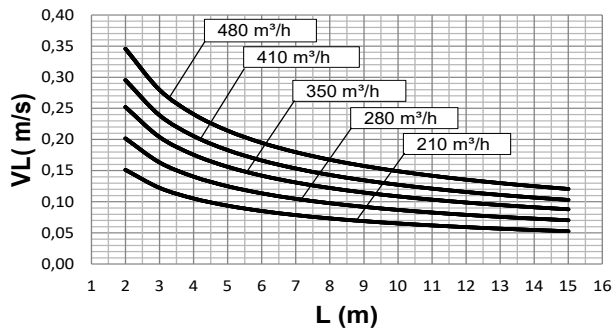


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 300x150

KN11
KN12
SERIES

KN11-12 300x150 Throw

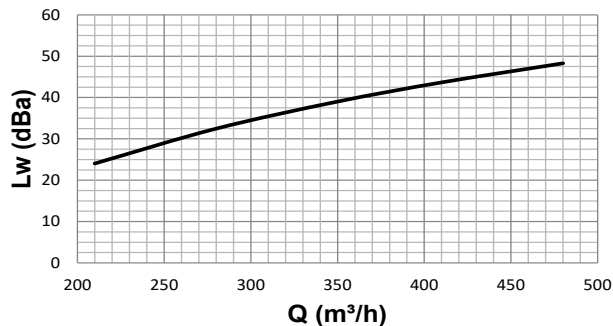


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN11-12 300x150 Sound power



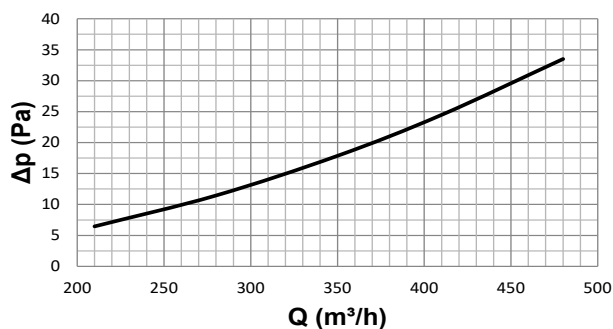
Data measured in reverberation room in accordance with international standards:

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.

KN11-12 300x150 Pressure drop



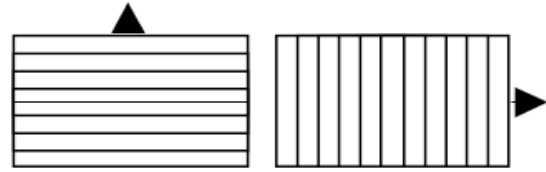
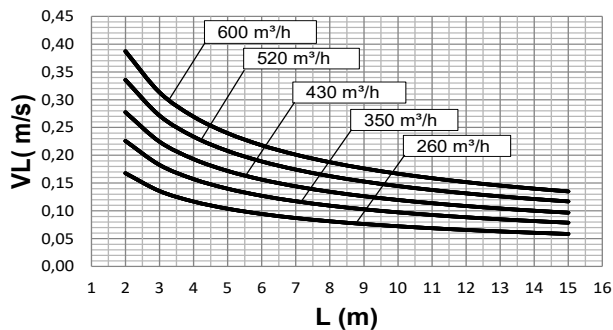


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 375x150

KN11
KN12
SERIES

KN11-12 375x150 Throw

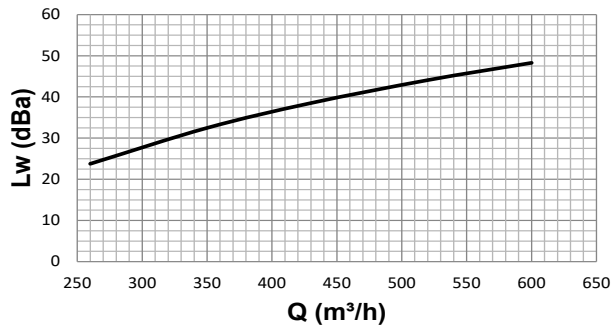


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard: **ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.**

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN11-12 375x150 Sound power



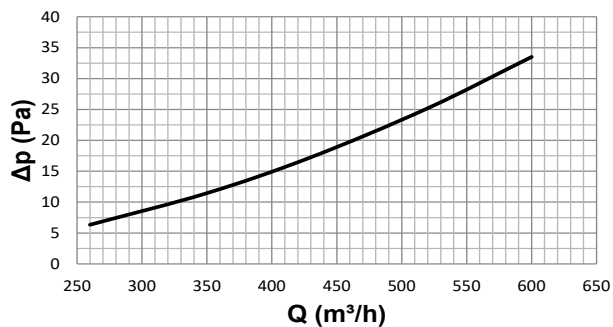
Data measured in reverberation room in accordance with international standards:

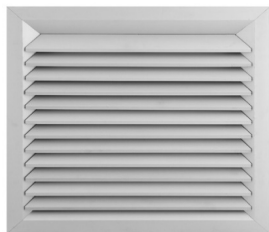
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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.

KN11-12 375x150 Pressure drop

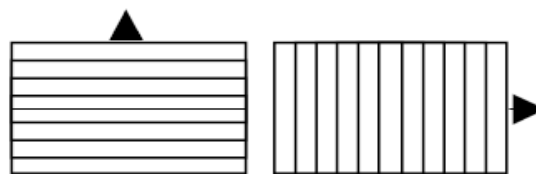
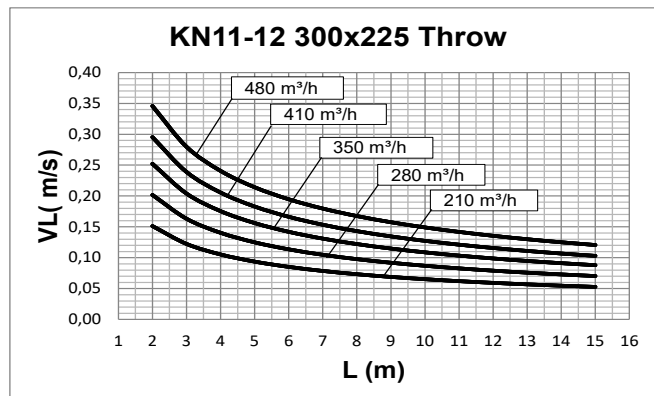




MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 300x225

KN11
KN12
SERIES

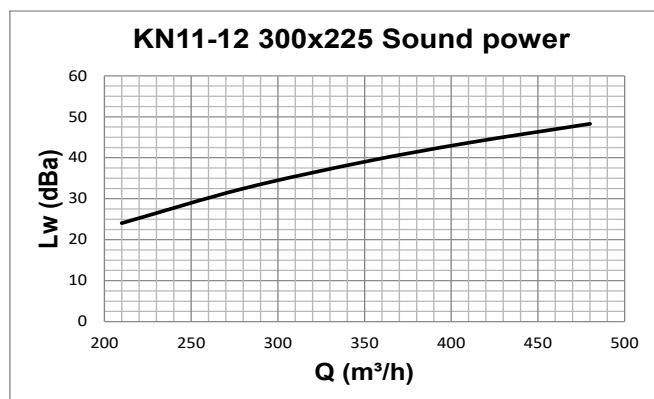


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:

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

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

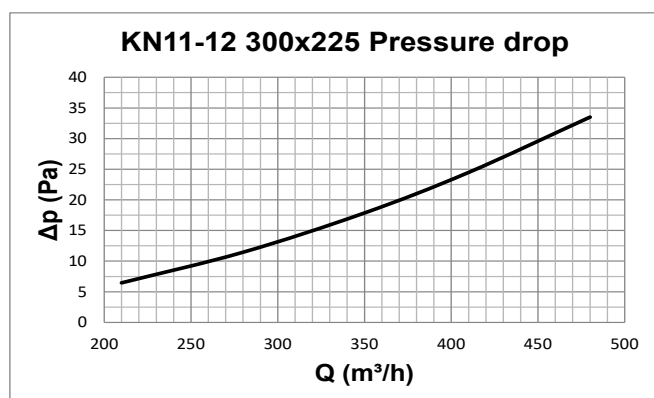


Data measured in reverberation room in accordance with international standards:

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

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

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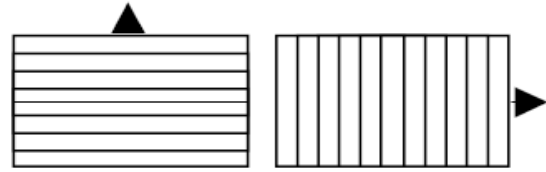
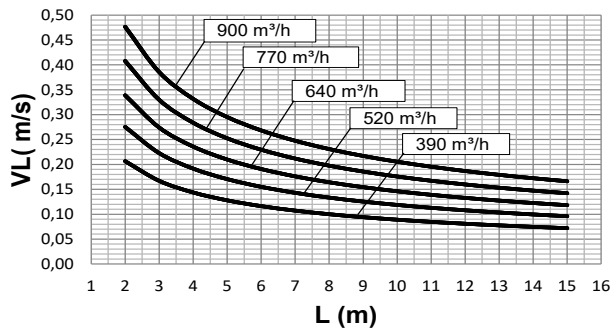


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 375x225

KN11
KN12
SERIES

KN11-12 375x225 Throw

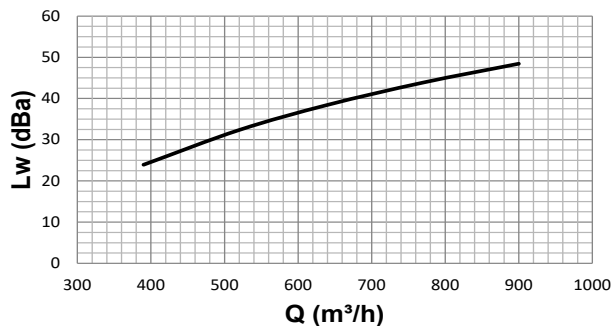


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN11-12 375x225 Sound power



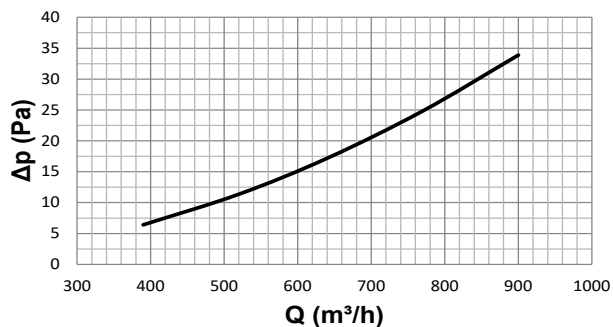
Data measured in reverberation room in accordance with international standards:

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

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

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KN11-12 375x225 Pressure drop



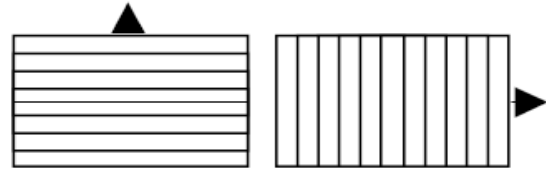
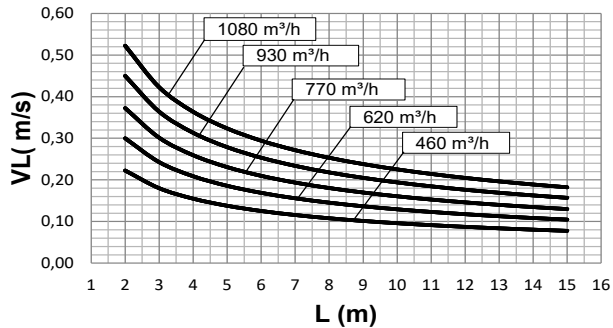


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 450x225

KN11
KN12
SERIES

KN11-12 450x225 Throw

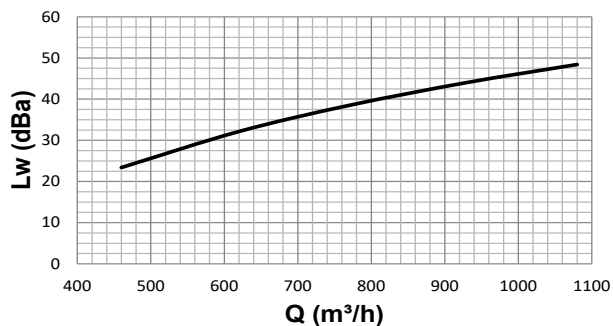


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN11-12 450x225 Sound power



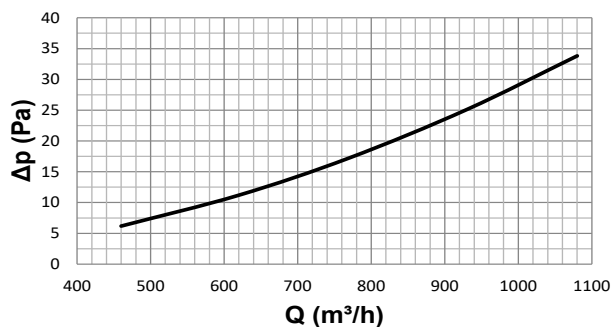
Data measured in reverberation room in accordance with international standards:

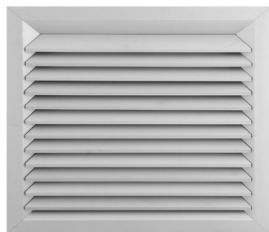
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

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

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KN11-12 450x225 Pressure drop

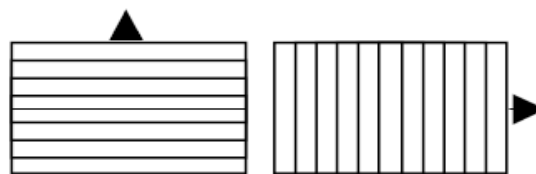
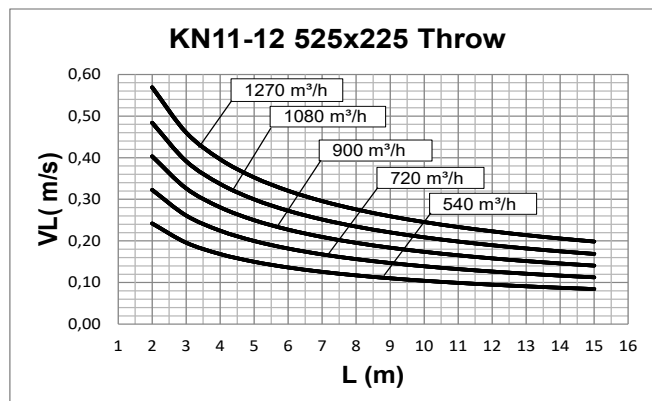




MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 525x225

KN11
KN12
SERIES

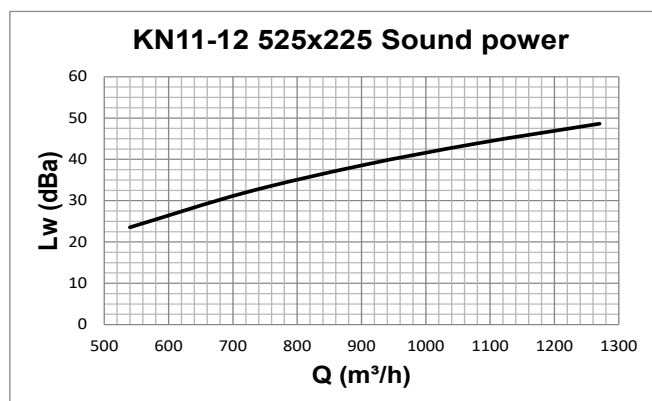


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:

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

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

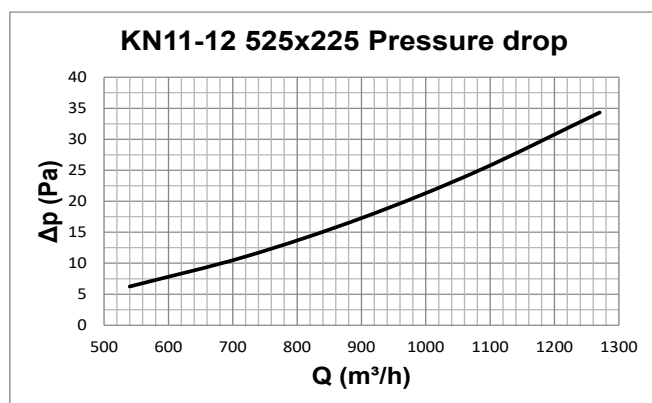


Data measured in reverberation room in accordance with international standards:

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.



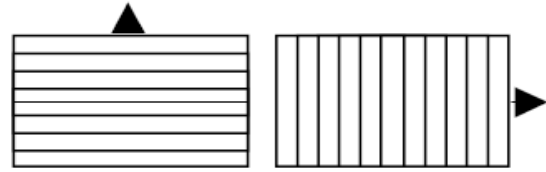
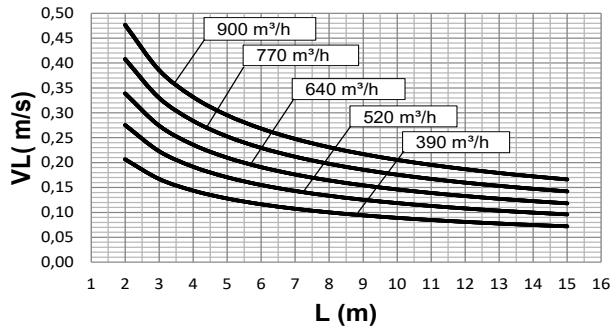


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 375x300

KN11
KN12
SERIES

KN11-12 375x300 Throw

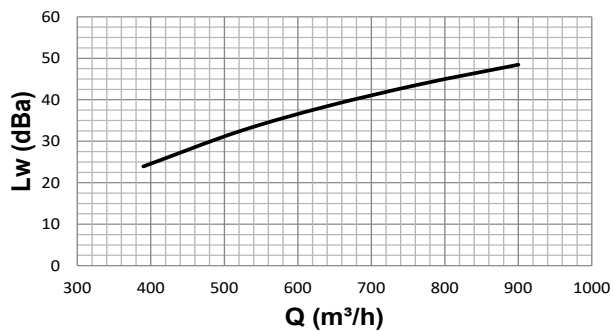


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN11-12 375x300 Sound power



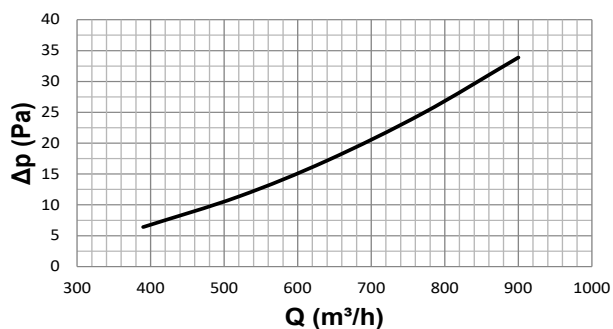
Data measured in reverberation room in accordance with international standards:

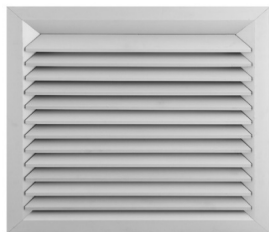
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms

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.

KN11-12 375x300 Pressure drop

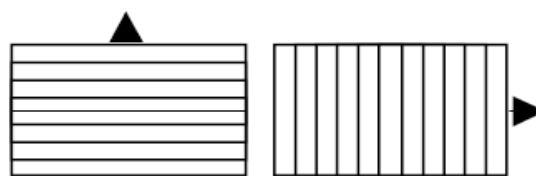
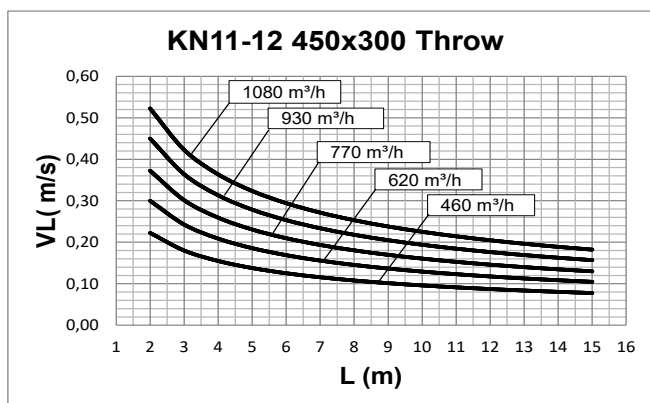




MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 450x300

KN11
KN12
SERIES

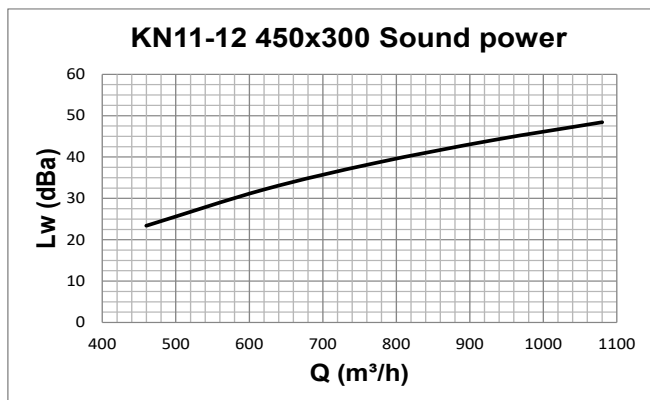


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:

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

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

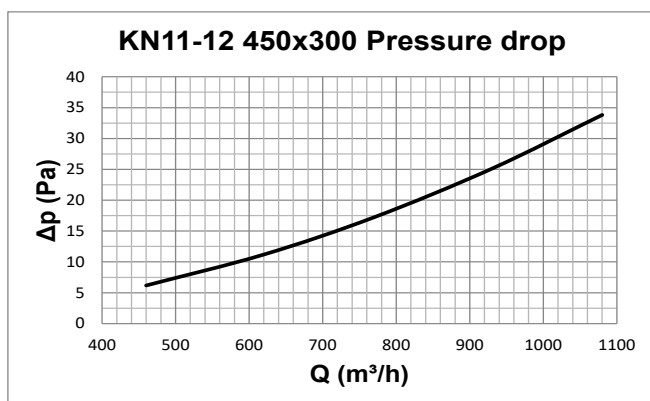


Data measured in reverberation room in accordance with international standards:

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.



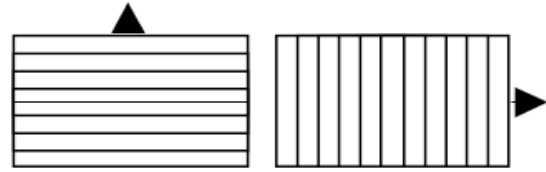
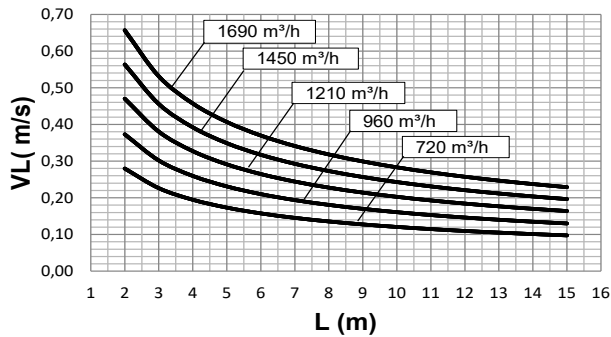


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 525x300

KN11
KN12
SERIES

KN11-12 525x300 Throw

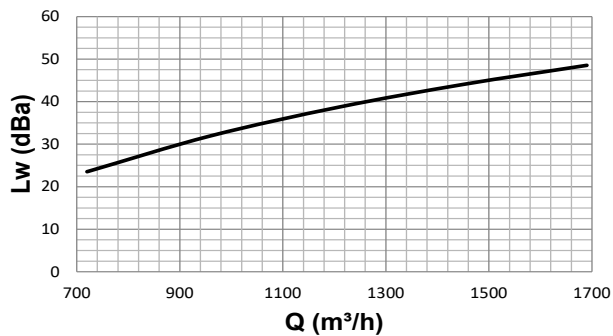


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN11-12 525x300 Sound power



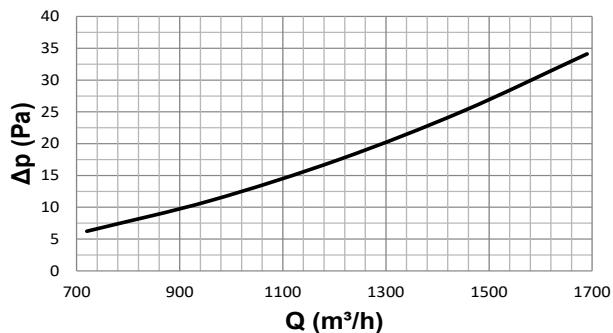
Data measured in reverberation room in accordance with international standards:

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.

KN11-12 525x300 Pressure drop



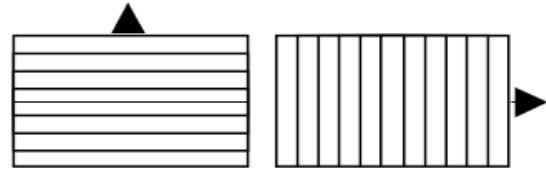
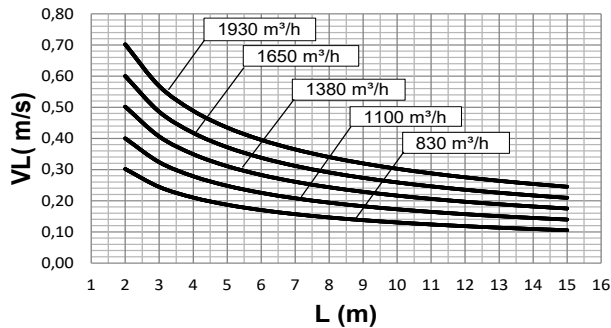


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 600x300

KN11
KN12
SERIES

KN11-12 600x300 Throw

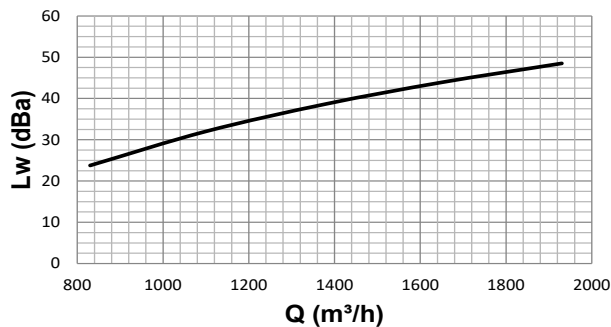


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN11-12 600x300 Sound power



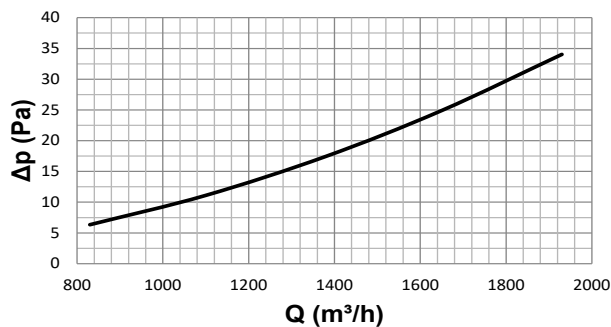
Data measured in reverberation room in accordance with international standards:

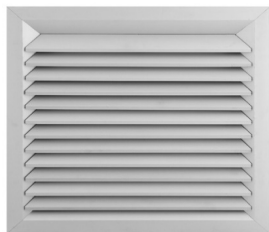
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

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.

KN11-12 600x300 Pressure drop

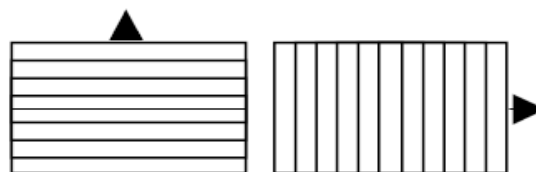
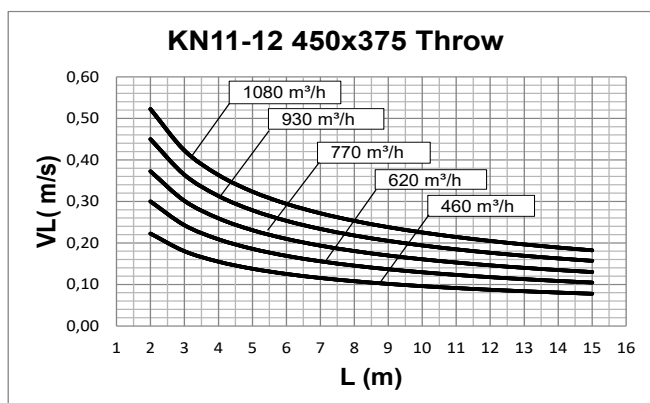




MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 450x375

KN11
KN12
SERIES

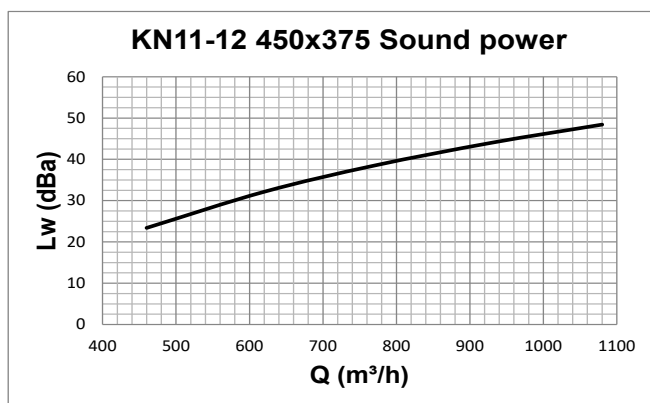


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:

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

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

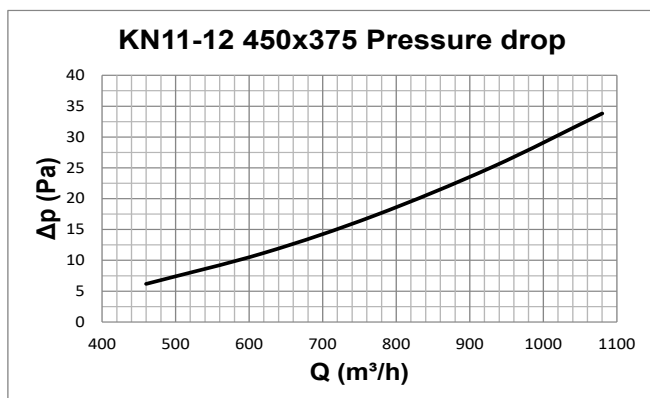


Data measured in reverberation room in accordance with international standards:

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

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

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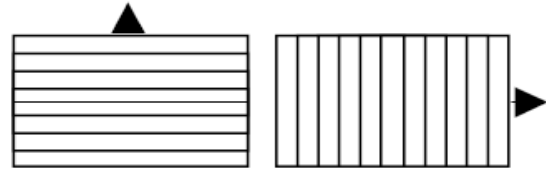
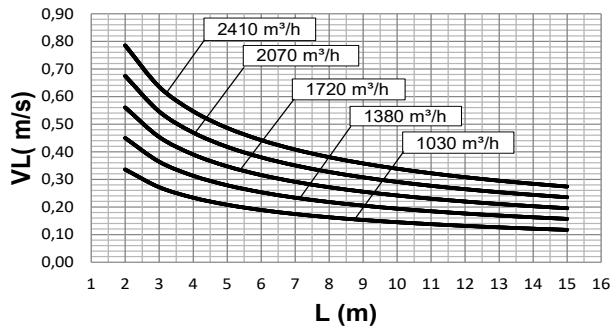


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 600x375

KN11
KN12
SERIES

KN11-12 600x375 Throw

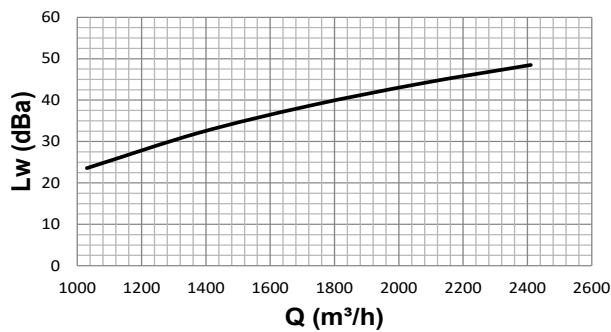


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN11-12 600x375 Sound power



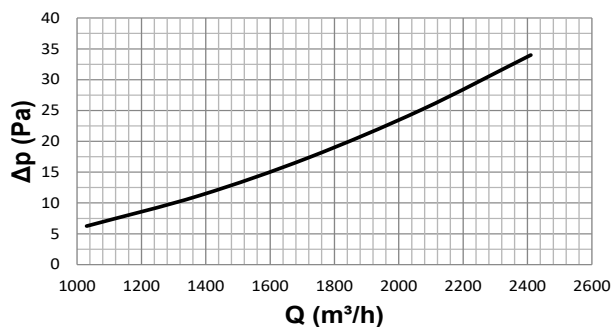
Data measured in reverberation room in accordance with international standards:

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.

KN11-12 600x375 Pressure drop



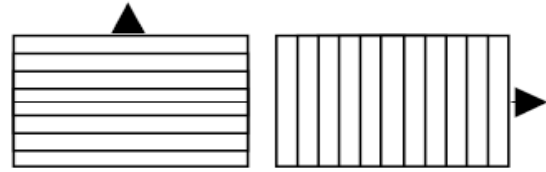
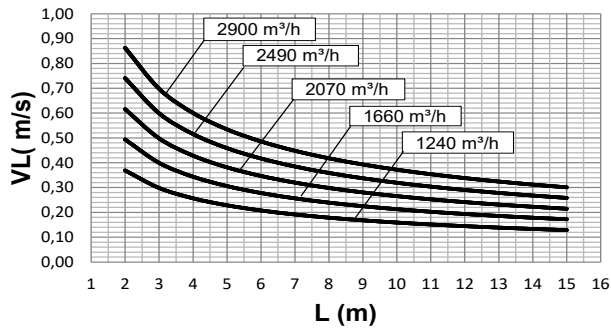


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

PERFORMANCE KN11 - KN12 600x450

KN11
KN12
SERIES

KN11-12 600x450 Throw

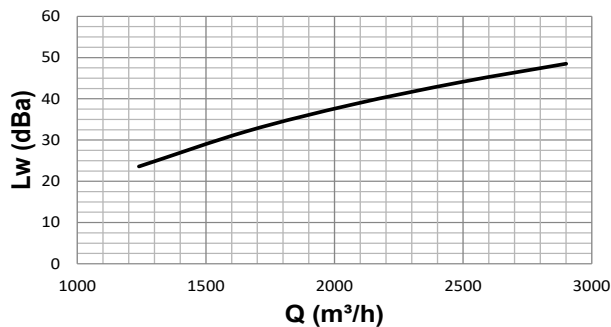


Data obtained from CFD mathematical model in virtual test chamber operating in isothermal conditions in accordance with the international standard:
ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

VL (m/s) maximum speed in the air stream

KN11-12 600x450 Sound power



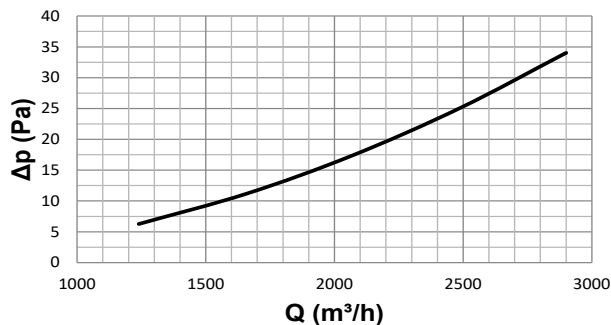
Data measured in reverberation room in accordance with international standards:

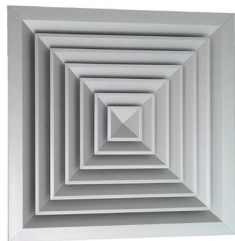
ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

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.

KN11-12 600x450 Pressure drop



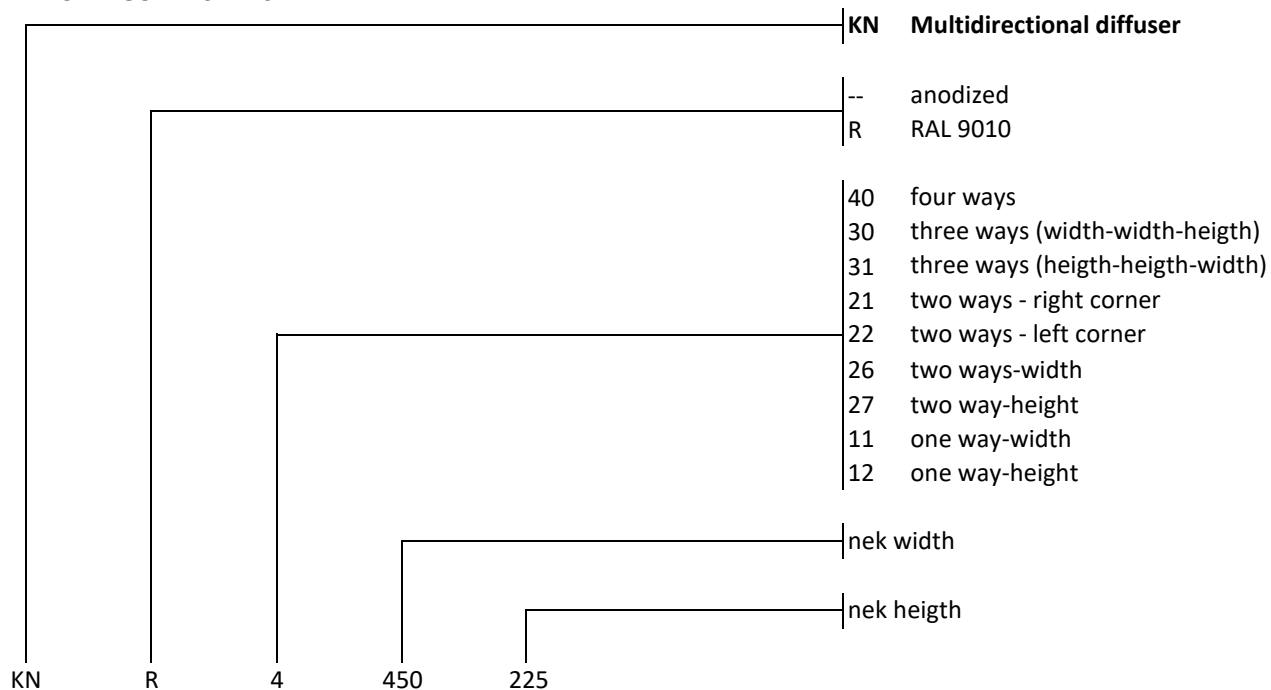


MULTIDIRECTIONAL DIFFUSERS FIXED RECTANGULAR GEOMETRY

KN
SERIES

HOW TO ORDER

RECTANGULAR SERIES



KN40	KN30	KN31	KN21	KN22	KN26	KN27	KN11	KN12



CONTROL DAMPERS

SC SERIES

OVERVIEW TECHNICAL CHARACTERISTICS

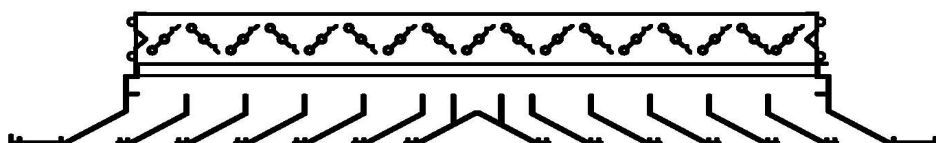
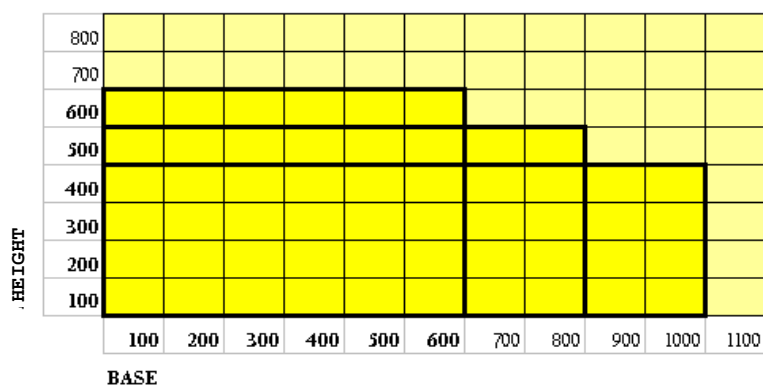
OVERVIEW AND CHARACTERISTICS :

The contrast control dampers of SC series can be fitted to UF KG UM UR GI KN series . They are held in place by special patented clips, designed both for fitting the damper to the grill and for fitting it on a false frame.

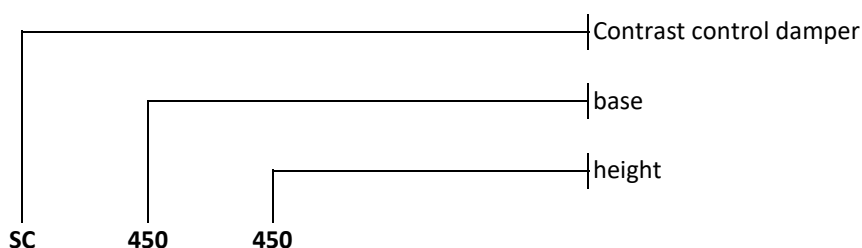
The SC series dampers are made entirely of galvanised steel and have a mechanism for moving and closing all the blades simultaneously.

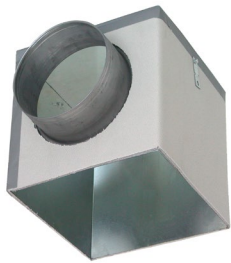
This mechanism is a simple longitudinal plate that links all the blades, and can be removed by unscrewing a nut using a screwdriver. The careful design, precise assembly, and the quality of the materials used, make this an economical, practical, and efficient component.

Contrast control damper- dimensions that can be created in a single solution



application on KN



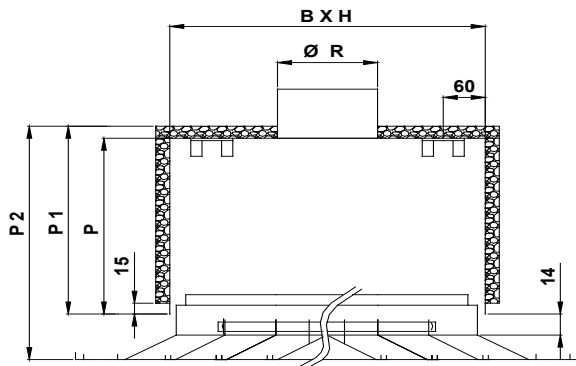


PLENUM FOR SQUARED DIFFUSERS

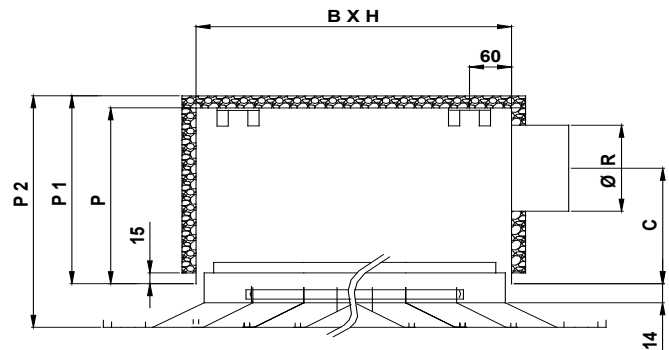
OVERVIEW

PP 90 91 SERIES

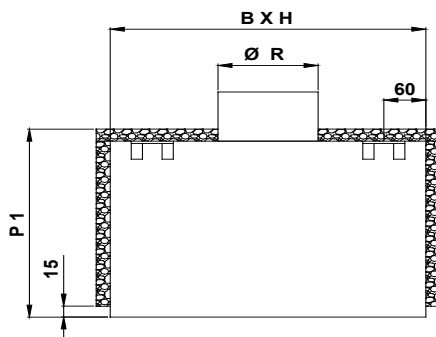
PP91 I + KN



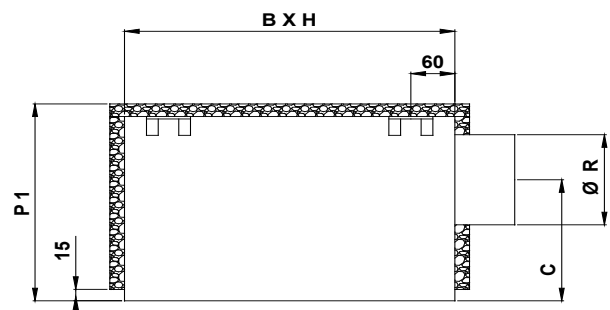
PP90 I + KN



PP91 I



PP90 I



B	x	H	P2	P1	P	Ø R	Connection	C
150	x	150	254	216	210	123	ABS (*)	112
225	x	225	274	236	230	143	Steel	120
300	x	300	334	296	290	195	ABS (*)	155
375	x	375	334	296	290	195	ABS (*)	155
450	x	450	394	356	350	253	ABS (*)	185
525	x	525	444	406	400	296	Steel	215
600	x	600	444	406	400	296	Steel	215

(*) Steel on request

CONSTRUCTION CHARACTERISTICS:

MATERIALS:

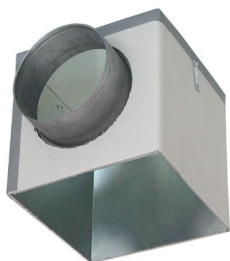
The plenum is manufactured from galvanized sheet steel, external insulation has fire reaction class B s2 d0.

MOUNTING OF PLENUM:

The plenums are fixed and adjusted to the ceiling by threaded bars, putted into suitable supports.

MOUNTING OF DIFFUSER:

The diffusers have to be fixed on the plenum by screws directly on the neck of the diffuser



PLENUM FOR SQUARED DIFFUSERS

HOW TO ORDER

PP 90 91
SERIES

