CATALOGUE

Solutions

SAMOVENT®
TECHNIK

DIFUSIÓN Y VENTILACIÓN

Perfect projects, thanks to the exquisite choice of its elements...

Solutions

SAMOVENT®
TECHNIK

DIFUSIÓN Y VENTILACIÓN

SAMOVENT® TECHNIK

SUPPLY AIR GRILLES
2 - 4 SERIES

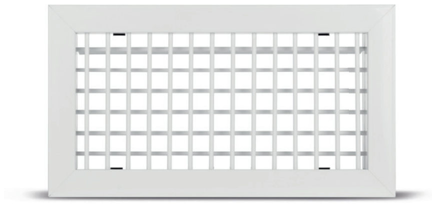
2SH	Single deflection grille with horizontal movable blades
2SV	Single deflection grille with vertical movable blades
2DH	Double deflection grille with horizontal movable blades
2DV	Double deflection grille with vertical movable blades
4SH	Horizontal unidirectional curved blade grille
4SV	Vertical unidirectional curved blade grille
4DH	Horizontal bidirectional curved blade grille
4DV	Vertical bidirectional curved blade grille

SAMOVENT® TECHNIK

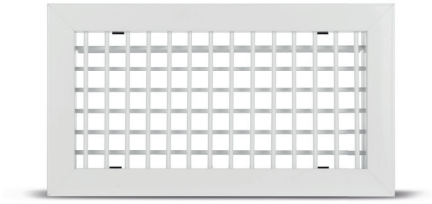
DIFUSIÓN Y VENTILACIÓN

2SH

2SV



2DH

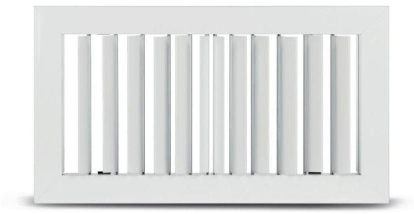


2DV

4SH

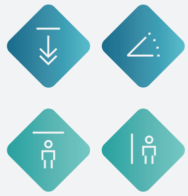
4SV

4DH



4DV

2S SERIES
2SH
SINGLE DEFLECTION GRILLE



Model 2SH. Single deflection grille with horizontal movable blades.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016. Other colours available on request.

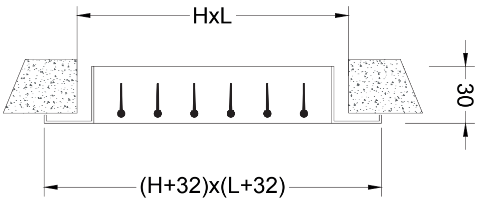
Fixing systems:

- **(C)** Clip (estándar)
- **(T)** Visible screw (optional)
  Hole dimensions (L-7) x (H-7)
- **(P)** Concealed screw fixing (optional))

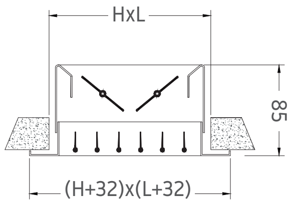
Accessories:

- **(MM)** Aluminum mounting frame
  Shaft dimensions (L+7) x (H+7)
- **(X)** Regulating damper, with horizontal blades parallel to level L. CRX model.
- **(Z)** Regulating damper, with vertical blades parallel to dimension H. CRZ model.

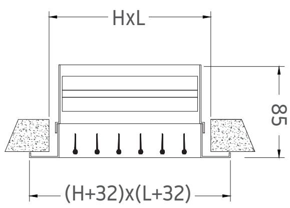
2SH



2SHX



2SHZ



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	500	600	700	800	900	1000
H	100	150	200	250	300	350	400	500		

2S SERIES
2SV
SINGLE DEFLECTION GRILLE

Model **2SV.** Single deflection grille with vertical movable blades.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

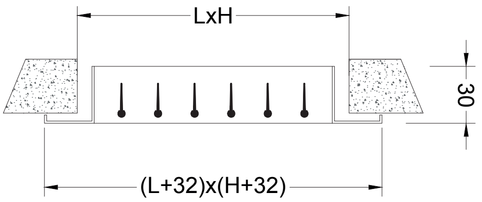
Fixing systems:

(C) Clip (estándar)
(T) Visible screw (optional)
Hole dimensions (L-7) x (H-7)
(P) Concealed screw fixing (optional))

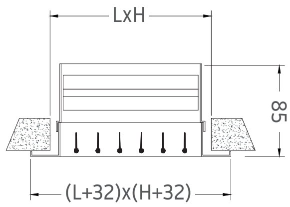
Accessories:

(MM) Aluminum mounting frame
Shaft dimensions (L+7) x (H+7)
(X) Regulating damper, with horizontal blades parallel to level L. CRX model.
(Z) Regulating damper, with vertical blades parallel to dimension H. CRZ model.

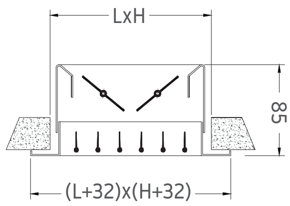
2SV



2SVX



2SVZ



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	500	600	700	800	900	1000
H	100	150	200	250	300	350	400	500		

2S SERIES
2SH - 2SV

SELECTION TABLE

Legend:
LxH = Dimensions in mmxmm
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
X = Range in m. for final speed 0.25 m/s with ceiling effect.
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

	LxH	200x100	250x100	200x150 300x100	250x150 400x100	300x150 450x100	350x150 250x200	450x150 350x200	400x200	400x250 500x200	400x300 600x200	1000x150 500x300	600x300 900x200	700X300
Q (m^3/h) (l/s)	Ak	0,012	0,015	0,019	0,024	0,028	0,035	0,047	0,055	0,069	0,084	0,104	0,128	0,152
100 27,8	Vk X Pt LwA	2,3 2,5 2 4	1,9 2,3 1	1,5 2,0 1										
150 41,7	Vk X Pt LwA	3,5 3,8 4 14	2,8 3,4 3 9	2,2 3,0 2 4	1,7 2,7 1	1,5 2,5 1								
200 55,6	Vk X Pt LwA	4,6 5,1 8 22	3,7 4,5 5 17	2,9 4,0 3 12	2,3 3,6 2 7	2,0 3,3 1 3	1,6 3,0 1							
250 69,4	Vk X Pt LwA	5,8 6,3 12 28	4,6 5,7 8 23	3,7 5,0 5 18	2,9 4,5 3 12	2,5 4,2 2 9	2,0 3,7 1 4	1,5 3,2 1						
300 83,3	Vk X Pt LwA	6,9 7,6 17 32	5,6 6,8 11 27	4,4 6,0 7 22	3,5 5,4 4 17	3,0 5,0 3 14	2,4 4,5 2 9	1,8 3,8 1 2,6	1,5 3,6 1					
350 97,2	Vk X Pt LwA		6,5 7,9 15 31	5,1 7,1 9 26	4,1 6,3 6 21	3,5 5,8 4 18	2,8 5,2 3 13	2,1 4,5 2 7	1,8 4,1 1 3					
400 111,1	Vk X Pt LwA		7,4 9,1 20 35	5,8 8,1 12 30	4,6 7,2 8 25	4,0 6,6 6 21	3,2 5,9 4 17	2,4 5,1 2 10	2,0 4,7 1 7	1,6 4,2 1 2				
450 125,0	Vk X Pt LwA		8,3 10,2 25 38	6,6 9,1 16 33	5,2 8,1 10 28	4,5 7,5 7 24	3,6 6,7 5 20	2,7 5,8 3 13	2,3 5,3 2 10	1,8 4,8 1 5	1,5 4,3 1 1			
500 138,9	Vk X Pt LwA		9,3 11,3 31 41	7,3 10,1 19 36	5,8 9,0 12 31	5,0 8,3 9 27	4,0 7,4 6 22	3,0 6,4 3 16	2,5 5,9 2 13	2,0 5,3 1 8	1,7 4,8 1 3			
550 152,8	Vk X Pt LwA		10,2 12,5 37 43	8,0 11,1 23 38	6,4 9,9 15 33	5,5 9,1 11 30	4,4 8,2 7 25	3,3 7,0 4 18	2,8 6,5 3 15	2,2 5,8 2 10	1,8 5,3 1 6	1,5 4,7 1 1		
600 166,7	Vk X Pt LwA		11,1 13,6 44 46	8,8 12,1 28 40	6,9 10,8 17 35	6,0 10,0 13 32	4,8 8,9 8 27	3,5 7,7 5 21	3,0 7,1 3 17	2,4 6,3 2 12	2,0 5,8 1 8	1,6 5,2 1 3		
650 180,6	Vk X Pt LwA		12,0 14,7 52 48	9,5 13,1 33 42	7,5 11,7 20 37	6,4 10,8 15 34	5,2 9,7 10 29	3,8 8,3 5 23	3,3 7,7 4 19	2,6 6,9 2 14	2,1 6,2 2 10	1,7 5,6 1 6		
700 194,4	Vk X Pt LwA			10,2 14,1 38 44	8,1 12,6 24 39	6,9 11,6 17 36	5,6 10,4 11 31	4,1 9,0 6 25	3,5 8,3 4 21	2,8 7,4 3 16	2,3 6,7 2 12	1,9 6,0 1 7	1,5 5,4 1 3	
750 208,3	Vk X Pt LwA			11,0 15,1 43 46	8,7 13,4 27 41	7,4 12,5 20 38	6,0 11,1 13 33	4,4 9,6 7 27	3,8 8,9 5 23	3,0 7,9 3 18	2,5 7,2 2 14	2,0 6,5 1 9	1,6 5,8 1 5	
800 222,2	Vk X Pt LwA				9,3 14,3 31 43	7,9 13,3 23 39	6,3 11,9 15 35	4,7 10,3 8 28	4,0 9,5 6 25	3,2 8,5 4 20	2,6 7,7 3 16	2,1 6,9 2 11	1,7 6,2 1 6	
850 236,1	Vk X Pt LwA				9,8 15,2 35 44	8,4 14,1 26 41	6,7 12,6 16 36	5,0 10,9 9 30	4,3 10,1 7 26	3,4 9,0 4 21	2,8 8,1 3 17	2,3 7,3 2 13	1,8 6,6 1 8	1,6 6,1 1 4
900 250,0	Vk X Pt LwA				10,4 16,1 39 46	8,9 14,9 29 43	7,1 13,4 18 38	5,3 11,5 10 31	4,5 10,7 7 28	3,6 9,5 5 23	3,0 8,6 3 19	2,4 7,8 2 14	2,0 7,0 1 10	1,6 6,4 1 6
950 263,9	Vk X Pt LwA					9,4 15,8 32 44	7,5 14,1 20 39	5,6 12,2 11 33	4,8 11,3 8 29	3,8 10,0 5 24	3,1 9,1 4 20	2,5 8,2 2 15	2,1 7,4 2 11	1,7 6,8 1 7
1000 277,8	Vk X Pt LwA					9,9 16,6 35 45	7,9 14,8 23 40	5,9 12,8 13 34	5,1 11,8 9 31	4,0 10,6 6 26	3,3 9,6 4 21	2,7 8,6 3 17	2,2 7,8 2 12	1,8 7,1 1 9

2S SERIES
2SH - 2SV

SELECTION TABLE

Darkest teal	> 51 dB(A)
Dark teal	41 /50 dB(A)
Medium teal	31 /40 dB(A)
Light teal	21 /30 dB(A)
White	≤ 20 dB(A)

	LxH	450x150 350x200	400x200	400x250 500x200	400x300 600x200	1000x150 500x300	600X300 900x200	700X300	600X400 800X300	900x300	600x500 1000x300	900x400	1000x400 800x500	1000x500
Q (m³/h) (l/s)	**Ak**	**0,047**	**0,055**	**0,069**	**0,084**	**0,104**	**0,128**	**0,152**	**0,175**	**0,197**	**0,220**	**0,270**	**0,300**	**0,376**
1100 305,6	Vk	6,5	5,6	4,4	3,6	2,9	2,4	2,0	1,7	1,6	1,4			
	X	14,1	13,0	11,6	10,5	9,5	8,5	7,8	7,3	6,9	6,5			
	Pt	15	11	7	5	3	2	1	1	1	1			
	LwA	37	33	28	24	19	15	11	8	5	3			
1200 333,3	Vk	7,1	6,1	4,8	4,0	3,2	2,6	2,2	1,9	1,7	1,5			
	X	15,4	14,2	12,7	11,5	10,3	9,3	8,5	8,0	7,5	7,1			
	Pt	18	13	8	6	4	2	2	1	1	1			
	LwA	39	35	30	26	22	17	13	10	8	5			
1300 361,1	Vk	7,7	6,6	5,2	4,3	3,5	2,8	2,4	2,1	1,8	1,6			
	X	16,7	15,4	13,7	12,5	11,2	10,1	9,3	8,6	8,1	7,7			
	Pt	21	16	10	7	4	3	2	2	1	1			
	LwA	41	37	33	28	24	19	15	12	10	7			
1400 388,9	Vk	8,3	7,1	5,6	4,6	3,7	3,0	2,6	2,2	2,0	1,8			
	X	17,9	16,6	14,8	13,4	12,1	10,9	10,0	9,3	8,8	8,3			
	Pt	25	18	11	8	5	3	2	2	1	1			
	LwA	43	39	34	30	26	21	17	14	12	9			
1500 416,7	Vk	8,9	7,6	6,0	5,0	4,0	3,3	2,7	2,4	2,1	1,9	1,5		
	X	19,2	17,8	15,9	14,4	12,9	11,6	10,7	10,0	9,4	8,9	8,0		
	Pt	28	21	13	9	6	4	3	2	2	1	1		
	LwA	45	41	36	32	27	23	19	16	13	11	7		
1600 444,4	Vk	9,5	8,1	6,4	5,3	4,3	3,5	2,9	2,5	2,3	2,0	1,6		
	X	20,5	19,0	16,9	15,3	13,8	12,4	11,4	10,6	10,0	9,5	8,6		
	Pt	32	24	15	10	7	4	3	2	2	1	1		
	LwA	46	43	38	34	29	25	21	18	15	13	8		
1800 500,0	Vk	10,6	9,1	7,2	6,0	4,8	3,9	3,3	2,9	2,5	2,3	1,9		
	X	23,1	21,3	19,0	17,3	15,5	14,0	12,8	12,0	11,3	10,7	9,6		
	Pt	41	30	19	13	8	5	4	3	2	2	1		
	LwA	49	46	41	37	32	28	24	21	18	16	11		
2000 555,6	Vk	11,8	10,1	8,1	6,6	5,3	4,3	3,7	3,2	2,8	2,5	2,1	1,9	
	X	25,6	23,7	21,1	19,2	17,2	15,5	14,2	13,3	12,5	11,8	10,7	10,1	
	Pt	50	37	23	16	10	7	5	4	3	2	2	1	
	LwA	52	49	44	39	35	30	27	24	21	19	14	12	
2250 625,0	Vk		11,4	9,1	7,4	6,0	4,9	4,1	3,6	3,2	2,8	2,3	2,1	
	X		26,7	23,8	21,6	19,4	17,5	16,0	14,9	14,1	13,3	12,0	11,4	
	Pt		46	30	20	13	9	6	5	4	3	2	2	
	LwA		52	47	43	38	33	30	27	24	22	17	15	
2500 694,4	Vk		12,6	10,1	8,3	6,7	5,4	4,6	4,0	3,5	3,2	2,6	2,3	1,8
	X		29,6	26,4	24,0	21,5	19,4	17,8	16,6	15,6	14,8	13,4	12,7	11,3
	Pt		57	36	25	16	11	8	6	4	4	2	2	1
	LwA		54	50	45	41	36	32	29	27	24	20	18	13
2750 763,9	Vk			11,1	9,1	7,3	6,0	5,0	4,4	3,9	3,5	2,8	2,5	2,0
	X			29,1	26,4	23,7	21,4	19,6	18,3	17,2	16,3	14,7	13,9	12,5
	Pt			44	30	19	13	9	7	5	4	3	2	1
	LwA			52	48	43	39	35	32	29	27	22	20	15
3000 833,3	Vk				9,9	8,0	6,5	5,5	4,8	4,2	3,8	3,1	2,8	2,2
	X				28,8	25,8	23,3	21,4	19,9	18,8	17,8	16,0	15,2	13,6
	Pt				35	23	15	11	8	6	5	3	3	2
	LwA				50	45	41	37	34	32	29	25	22	17
3250 902,8	Vk				10,7	8,7	7,1	5,9	5,2	4,6	4,1	3,3	3,0	2,4
	X				31,1	28,0	25,2	23,2	21,6	20,3	19,2	17,4	16,5	14,7
	Pt				42	27	18	13	10	8	6	4	3	2
	LwA				52	47	43	39	36	34	31	27	24	20
3500 972,2	Vk					9,3	7,6	6,4	5,6	4,9	4,4	3,6	3,2	2,6
	X					30,1	27,2	24,9	23,2	21,9	20,7	18,7	17,8	15,9
	Pt					31	21	15	11	9	7	5	4	2
	LwA					49	45	41	38	36	33	29	26	22
3750 1041,7	Vk					10,0	8,1	6,9	6,0	5,3	4,7	3,9	3,5	2,8
	X					32,3	29,1	26,7	24,9	23,5	22,2	20,0	19,0	17,0
	Pt					36	24	17	13	10	8	5	4	3
	LwA					51	47	43	40	37	35	30	28	23
4000 1111,1	Vk					10,7	8,7	7,3	6,3	5,6	5,1	4,1	3,7	3,0
	X					34,5	31,1	28,5	26,6	25,0	23,7	21,4	20,3	18,1
	Pt					41	27	19	15	11	9	6	5	3
	LwA					53	48	45	42	39	37	32	30	25

DAMPER OPENING

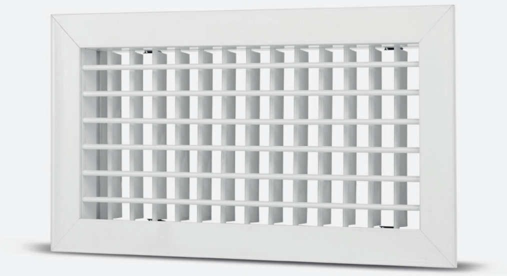
	WITHOUT REGULATION	100%	50%	25%
Pt	x0,5	x1	x2	x5
LwA	+3	+0	+7	+12

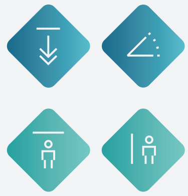
INCLINATION OF GRILL

	0°	30°	45°
$X_{0,25}$	x1	x0,8	x0,5

2D SERIES 2DH

DOUBLE DEFLECTION GRILLE





Model 2DH. Double deflection grille with horizontal movable blades on 1st deflection and vertical on 2nd deflection.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

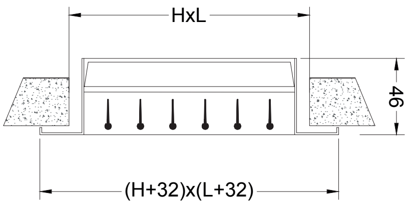
Fixing systems:

- **(C)** Clip (estándar)
- **(T)** Visible screw (optional)
  Hole dimensions (L-7) x (H-7)
- **(P)** Concealed screw fixing (optional))

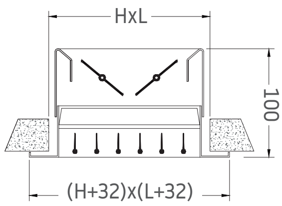
Accessories:

- **(MM)** Aluminum mounting frame
  Shaft dimensions (L+7) x (H+7)
- **(X)** Regulating damper, with horizontal blades parallel to level L. CRX model.
- **(Z)** Regulating damper, with vertical blades parallel to dimension H. CRZ model.

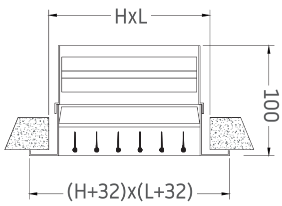
2DH



2DHX



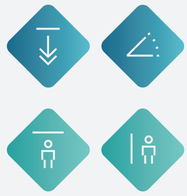
2DHZ



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	500	600	700	800	900	1000
H	100	150	200	250	300	350	400	500		

2D SERIES
2DV
DOUBLE DEFLECTION GRILLE



Model **2DV.** Double deflection grille with vertical movable blades on 1st deflection and horizontal on 2nd deflection

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

Fixing systems:

(C) Clip (estándar)

(T) Visible screw (optional)
Hole dimensions (L-7) x (H-7)

(P) Concealed screw fixing (optional))

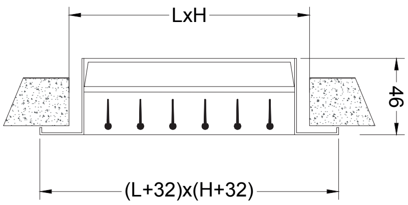
Accessories:

(MM) Aluminum mounting frame
Shaft dimensions (L+7) x (H+7)

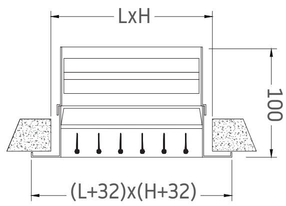
(X) Regulating damper, with horizontal blades parallel to level L. CRX model.

(Z) Regulating damper, with vertical blades parallel to dimension H. CRZ model.

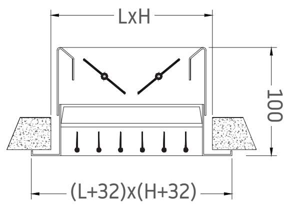
2DV



2DVX



2DVZ



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	500	600	700	800	900	1000
H	100	150	200	250	300	350	400	500		

2S SERIES
2DH - 2DV

SELECTION TABLE

Legend:
LxH = Dimensions in mmxmm
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
X = Range in m. for final speed 0.25 m/s with ceiling effect.
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

	LxH	200x100	250x100	200x150 300x100	250x150 400x100	300x150 450x100	350x150 250x200	450x150 350x200	400x200	400x250 500x200	400x300 600x200	1000x150 500x300	600x300 900x200	700X300
Q (m^3/h) (l/s)	Ak	0,009	0,011	0,014	0,018	0,021	0,025	0,033	0,041	0,052	0,063	0,080	0,096	0,114
100 27,8	Vk X Pt LwA	3,1 2,9 3 10	2,5 2,6 2 6	2,0 2,3 1										
150 41,7	Vk X Pt LwA	4,6 4,4 8 20	3,8 4,0 5 16	3,0 3,5 3 11	2,3 3,1 2 5	2,0 2,9 1 2								
200 55,6	Vk X Pt LwA	6,2 5,9 14 28	5,1 5,3 9 24	4,0 4,7 6 18	3,1 4,1 3 13	2,6 3,8 3 10	2,2 3,5 2 6							
250 69,4	Vk X Pt LwA	7,7 7,3 21 34	6,3 6,6 14 29	5,0 5,9 9 24	3,9 5,2 5 19	3,3 4,8 4 15	2,8 4,4 3 12	2,1 3,8 2 6						
300 83,3	Vk X Pt LwA	9,3 8,8 31 39	7,6 7,9 21 34	6,0 7,0 13 29	4,6 6,2 8 23	4,0 5,8 6 20	3,3 5,3 4 16	2,5 4,6 2 10,3	2,0 4,1 1 6					
350 97,2	Vk X Pt LwA		8,8 9,3 28 38	6,9 8,2 17 33	5,4 7,2 11 28	4,6 6,7 8 24	3,9 6,1 5 20	2,9 5,4 3 14	2,4 4,8 2 10					
400 111,1	Vk X Pt LwA		10,1 10,6 37 42	7,9 9,4 23 36	6,2 8,3 14 31	5,3 7,7 10 28	4,4 7,0 7 24	3,4 6,1 4 18	2,7 5,5 3 13	2,1 4,9 2 8				
450 125,0	Vk X Pt LwA		11,4 11,9 46 45	8,9 10,6 29 40	6,9 9,3 17 34	6,0 8,6 13 31	5,0 7,9 9 27	3,8 6,9 5 21	3,0 6,2 3 16	2,4 5,5 2 11	2,0 5,0 1 7			
500 138,9	Vk X Pt LwA		12,6 13,2 57 47	9,9 11,7 35 42	7,7 10,4 21 37	6,6 9,6 16 33	5,6 8,8 11 30	4,2 7,6 6 24	3,4 6,9 4 19	2,7 6,1 3 14	2,2 5,5 2 10			
550 152,8	Vk X Pt LwA		13,9 14,6 69 50	10,9 12,9 43 45	8,5 11,4 26 39	7,3 10,5 19 36	6,1 9,7 13 32	4,6 8,4 8 26	3,7 7,5 5 21	2,9 6,7 3 16	2,4 6,1 2 12	1,9 5,4 1 7		
600 166,7	Vk X Pt LwA		15,2 15,9 83 52	11,9 14,1 51 47	9,3 12,4 31 42	7,9 11,5 23 38	6,7 10,5 16 34	5,1 9,2 9 28	4,1 8,2 6 24	3,2 7,3 4 19	2,6 6,6 3 14	2,1 5,9 2 9		
650 180,6	Vk X Pt LwA		16,4 17,2 97 54	12,9 15,3 60 49	10,0 13,5 36 44	8,6 12,5 27 40	7,2 11,4 19 36	5,5 9,9 11 30	4,4 8,9 7 26	3,5 7,9 4 21	2,9 7,2 3 16	2,3 6,4 2 11		
700 194,4	Vk X Pt LwA			13,9 16,4 69 51	10,8 14,5 42 46	9,3 13,4 31 42	7,8 12,3 22 38	5,9 10,7 12 32	4,7 9,6 8 28	3,7 8,5 5 23	3,1 7,7 3 18	2,4 6,9 2 13	2,0 6,3 1 9	
750 208,3	Vk X Pt LwA			14,9 17,6 80 53	11,6 15,5 48 47	9,9 14,4 35 44	8,3 13,2 25 40	6,3 11,5 14 34	5,1 10,3 9 29	4,0 9,1 6 24	3,3 8,3 4 20	2,6 7,4 2 15	2,2 6,7 2 11	
800 222,2	Vk X Pt LwA				12,3 16,6 55 49	10,6 15,3 40 46	8,9 14,1 28 42	6,7 12,2 16 36	5,4 11,0 11 31	4,3 9,7 7 26	3,5 8,9 4 22	2,8 7,9 3 17	2,3 7,2 2 13	
850 236,1	Vk X Pt LwA				13,1 17,6 62 51	11,2 16,3 46 47	9,4 14,9 32 43	7,2 13,0 18 37	5,8 11,7 12 33	4,5 10,4 7 28	3,7 9,4 5 23	3,0 8,3 3 18	2,5 7,6 2 14	2,1 7,0 2 11
900 250,0	Vk X Pt LwA				13,9 18,6 69 52	11,9 17,3 51 49	10,0 15,8 36 45	7,6 13,8 21 39	6,1 12,3 13 34	4,8 11,0 8 29	4,0 10,0 6 25	3,1 8,8 4 20	2,6 8,1 2 16	2,2 7,4 2 12
950 263,9	Vk X Pt LwA					12,6 18,2 57 50	10,6 16,7 40 46	8,0 14,5 23 40	6,4 13,0 15 36	5,1 11,6 9 30	4,2 10,5 6 26	3,3 9,3 4 21	2,7 8,5 3 17	2,3 7,8 2 13
1000 277,8	Vk X Pt LwA					13,2 19,2 63 52	11,1 17,6 44 48	8,4 15,3 26 42	6,8 13,7 17 37	5,3 12,2 10 32	4,4 11,1 7 28	3,5 9,8 4 22	2,9 9,0 3 19	2,4 8,2 2 15

2S SERIES
2DH - 2DV

SELECTION TABLE

■	> 51 dB(A)
■	41 /50 dB(A)
■	31 /40 dB(A)
■	21 /30 dB(A)
□	≤ 20 dB(A)

Q (m³/h) (l/s)	LxH / Ak	450x150 350x200 0,033	400x200 0,041	400x250 500x200 0,052	400x300 600x200 0,063	1000x150 500x300 0,080	600X300 900x200 0,096	700X300 0,114	600X400 800X300 0,131	900x300 0,148	600x500 1000x300 0,166	900x400 0,201	1000x400 800x500 0,223	1000x500 0,282
1100 305,6	Vk X Pt LwA	9,3 16,8 31 44	7,5 15,1 20 39	5,9 13,4 12 34	4,9 12,2 8 30	3,8 10,8 5 25	3,2 9,9 4 21	2,7 9,0 3 17	2,3 8,4 2 14	2,1 7,9 2 12	1,8 7,5 1 9			
1200 333,3	Vk X Pt LwA	10,1 18,3 37 46	8,1 16,5 24 42	6,4 14,6 15 37	5,3 13,3 10 32	4,2 11,8 6 27	3,5 10,8 4 23	2,9 9,9 3 20	2,5 9,2 2 17	2,3 8,7 2 14	2,0 8,2 1 11			
1300 361,1	Vk X Pt LwA	10,9 19,9 43 49	8,8 17,8 28 44	6,9 15,8 17 39	5,7 14,4 12 34	4,5 12,8 7 29	3,8 11,7 5 25	3,2 10,7 4 22	2,8 10,0 3 19	2,4 9,4 2 16	2,2 8,9 2 13			
1400 388,9	Vk X Pt LwA	11,8 21,4 50 50	9,5 19,2 32 46	7,5 17,1 20 41	6,2 15,5 14 36	4,9 13,7 9 31	4,1 12,6 6 27	3,4 11,5 4 24	3,0 10,7 3 21	2,6 10,1 2 18	2,3 9,5 2 15			
1500 416,7	Vk X Pt LwA	12,6 22,9 57 52	10,2 20,6 37 48	8,0 18,3 23 42	6,6 16,6 16 38	5,2 14,7 10 33	4,3 13,4 7 29	3,7 12,3 5 25	3,2 11,5 4 22	2,8 10,8 3 20	2,5 10,2 2 17	2,1 9,3 2 13		
1600 444,4	Vk X Pt LwA	13,5 24,5 65 54	10,8 21,9 42 49	8,5 19,5 26 44	7,1 17,7 18 40	5,6 15,7 11 35	4,6 14,3 8 31	3,9 13,2 5 27	3,4 12,3 4 24	3,0 11,6 3 21	2,7 10,9 3 19	2,2 9,9 2 15		
1800 500,0	Vk X Pt LwA		12,2 24,7 54 52	9,6 21,9 33 47	7,9 19,9 23 43	6,3 17,7 14 38	5,2 16,1 10 34	4,4 14,8 7 30	3,8 13,8 5 27	3,4 13,0 4 24	3,0 12,3 3 22	2,5 11,2 2 18		
2000 555,6	Vk X Pt LwA		13,6 27,4 66 55	10,7 24,4 41 50	8,8 22,1 28 46	6,9 19,6 17 41	5,8 17,9 12 37	4,9 16,5 9 33	4,2 15,3 6 30	3,8 14,4 5 27	3,3 13,6 4 25	2,8 12,4 3 21	2,5 11,8 2 18	
2250 625,0	Vk X Pt LwA		15,2 30,9 84 58	12,0 27,4 52 53	9,9 24,9 35 49	7,8 22,1 22 44	6,5 20,2 15 40	5,5 18,5 11 36	4,8 17,3 8 33	4,2 16,2 6 30	3,8 15,3 5 28	3,1 13,9 3 24	2,8 13,2 3 21	
2500 694,4	Vk X Pt LwA			13,4 30,5 64 56	11,0 27,7 44 52	8,7 24,6 27 46	7,2 22,4 19 42	6,1 20,6 13 39	5,3 19,2 10 36	4,7 18,1 8 33	4,2 17,0 6 30	3,5 15,5 4 26	3,1 14,7 3 24	2,5 13,1 2 19
2750 763,9	Vk X Pt LwA				12,1 30,4 53 54	9,5 27,0 33 49	8,0 24,7 23 45	6,7 22,6 16 41	5,8 21,1 12 38	5,2 19,9 10 35	4,6 18,7 8 33	3,8 17,0 5 29	3,4 16,2 4 27	2,7 14,4 3 21
3000 833,3	Vk X Pt LwA				13,2 33,2 63 56	10,4 29,5 39 51	8,7 26,9 27 47	7,3 24,7 19 43	6,4 23,0 15 40	5,6 21,7 11 38	5,0 20,5 9 35	4,1 18,6 6 31	3,7 17,6 5 29	3,0 15,7 3 24
3250 902,8	Vk X Pt LwA					11,3 31,9 46 53	9,4 29,1 32 49	7,9 26,7 23 45	6,9 24,9 17 42	6,1 23,5 13 40	5,4 22,2 11 37	4,5 20,1 7 33	4,0 19,1 6 31	3,2 17,0 4 26
3500 972,2	Vk X Pt LwA					12,2 34,4 53 55	10,1 31,4 37 51	8,5 28,8 26 47	7,4 26,9 20 44	6,6 25,3 16 42	5,9 23,9 12 39	4,8 21,7 8 35	4,4 20,6 7 33	3,4 18,3 4 28
3750 1041,7	Vk X Pt LwA					13,0 36,8 61 57	10,9 33,6 42 53	9,1 30,9 30 49	8,0 28,8 23 46	7,0 27,1 18 44	6,3 25,6 14 41	5,2 23,2 10 37	4,7 22,1 8 35	3,7 19,6 5 30
4000 1111,1	Vk X Pt LwA						11,6 35,9 48 55	9,7 32,9 34 51	8,5 30,7 26 48	7,5 28,9 20 45	6,7 27,3 16 43	5,5 24,8 11 39	5,0 23,5 9 36	3,9 20,9 6 31

DAMPER OPENING

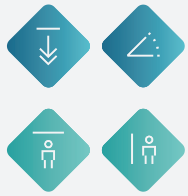
	WITHOUT REGULATION	100%	50%	25%
Pt	x0,5	x1	x2	x5
LwA	+3	+0	+7	+12

INCLINATION OF GRILL

	0º/0º	30º/30º	45º/45º
$X_{0,25}$	x1	x0,6	x0,4

4S SERIES
4SH

UNIDIRECTIONAL CURVED BLADE GRILLE



Model **4SH.** Grille with curved horizontal movable blades, unidirectional.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

Fixing systems:

(C) Clip (estándar)

(T) Visible screw (optional)
Hole dimensions (L-7) x (H-7)

(P) Concealed screw fixing (optional))

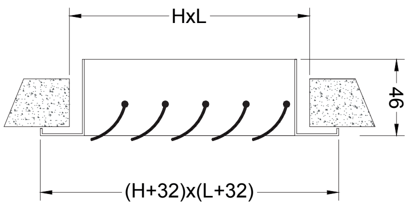
Accessories:

(MM) Aluminum mounting frame
Shaft dimensions (L+7) x (H+7)

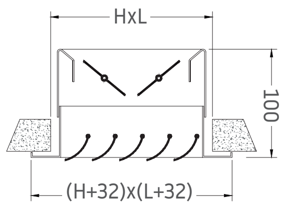
(X) Regulating damper, with horizontal blades parallel to level L. CRX model.

(Z) Regulating damper, with vertical blades parallel to dimension H. CRZ model.

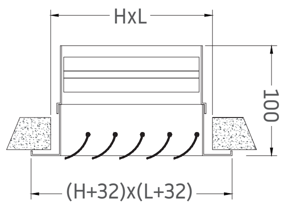
4SH



4SHX



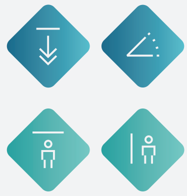
4SHZ



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	500	600	700	800	900	1000
H	100	150	200	250	300	350	400	500		

4S SERIES
4SV
UNIDIRECTIONAL CURVED BLADE GRILLE



Model **4SV.** Grille with curved vertical movable blades, unidirectional.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

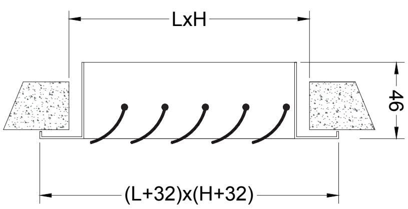
Fixing systems:

(C) Clip (estándar)
(T) Visible screw (optional)
Hole dimensions (L-7) x (H-7)
(P) Concealed screw fixing (optional))

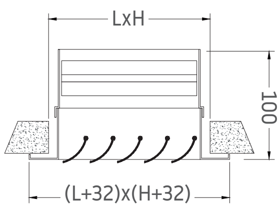
Accessories:

(MM) Aluminum mounting frame
Shaft dimensions (L+7) x (H+7)
(X) Regulating damper, with horizontal blades parallel to level L. CRX model.
(Z) Regulating damper, with vertical blades parallel to dimension H. CRZ model.

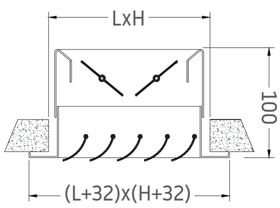
4SV



4SVX



4SVZ



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	500	600	700	800	900	1000
H	100	150	200	250	300	350	400	500		

4D SERIES
4DH

BIDIRECTIONAL CURVED BLADE GRILLE

Model **4DH.** Grille with horizontal curved movable blades, bidirectional.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016. Other colours available on request.

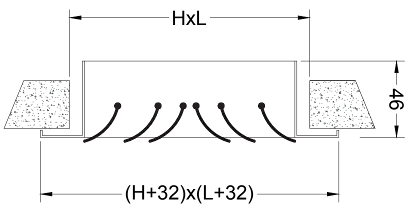
Fixing systems:

- **(C)** Clip (estándar)
- **(T)** Visible screw (optional)
  Hole dimensions (L-7) x (H-7)
- **(P)** Concealed screw fixing (optional))

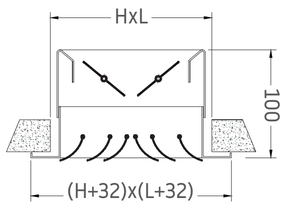
Accessories:

- **(MM)** Aluminum mounting frame
  Shaft dimensions (L+7) x (H+7)
- **(X)** Regulating damper, with horizontal blades parallel to level L. CRX model.
- **(Z)** Regulating damper, with vertical blades parallel to dimension H. CRZ model.

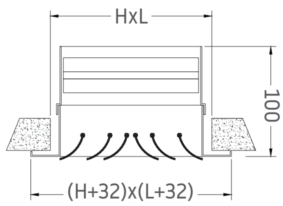
4DH



4DHX



4DHZ

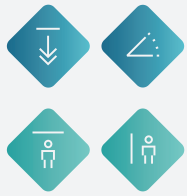


STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	500	600	700	800	900	1000
H	100	150	200	250	300	350	400	500		

4D SERIES
4DV

BIDIRECTIONAL CURVED BLADE GRILLE



Model **4DV.** Grille with curved vertical movable blades, bidirectional.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016. Other colours available on request.

Fixing systems:

(C) Clip (estándar)

(T) Visible screw (optional)
Hole dimensions (L-7) x (H-7)

(P) Concealed screw fixing (optional))

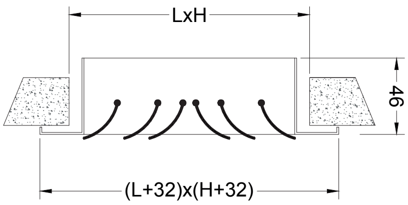
Accessories:

(MM) Aluminum mounting frame
Shaft dimensions (L+7) x (H+7)

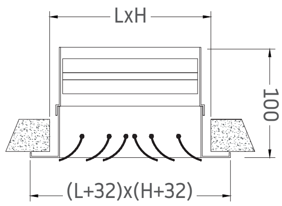
(X) Regulating damper, with horizontal blades parallel to level L. CRX model.

(Z) Regulating damper, with vertical blades parallel to dimension H. CRZ model.

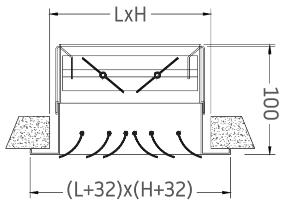
4DV



4DVX



4DVZ



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	500	600	700	800	900	1000
H	100	150	200	250	300	350	400	500		

4S-4D SERIES
4SH - 4SV
4DH - 4DV

SELECTION TABLE

Legend:
LxH = Dimensions in mmxmm
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
X = Range in m. for final speed 0.25 m/s with ceiling effect.
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

	LxH	200x100	250x100	300x100	200x150 350x100	200x200 250x150 450x100	250x200 350x150 600x100	300x200 400x150 700x100	350x200 500x150 800x100	400x200 600x150 1000x100	400x250 500x200 700x150	400x300 500x250 900x150	500x300 600x250 800x200	500x350 600x300 700x250
Q (m^3/h) (l/s)	Ak	0,006	0,007	0,009	0,011	0,014	0,019	0,023	0,027	0,033	0,042	0,052	0,065	0,078
50 13,9	Vk X Pt LwA	2,3 1,4 - 1 7 8	2,0 1,3 - 1 5 6	1,5 1,1 - 0,8 3 1	1,3 1 - 0,7 2									
75 20,8	Vk X Pt LwA	3,5 2,1 - 1,5 15 17	3,0 1,9 - 1,4 11 14	2,3 1,7 - 1,2 7 10	1,9 1,5 - 1,1 5 6	1,1 1,2 - 0,9 2								
100 27,8	Vk X Pt LwA	4,6 2,7 - 1,9 26 23	4,0 2,5 - 1,8 19 21	3,1 2,2 - 1,6 12 16	2,5 2 - 1,4 8 13	2,0 1,8 - 1,3 5 9	1,5 1,5 - 1,1 3 3	1,2 1,4 - 1 2						
125 34,7	Vk X Pt LwA	5,8 3,4 - 2,4 39 28	5,0 3,1 - 2,2 29 26	3,9 2,8 - 2 18 21	3,2 2,5 - 1,8 12 18	2,5 2,2 - 1,6 8 13	1,8 1,9 - 1,4 4 8	1,5 1,8 - 1,3 3 5	1,3 1,6 - 1,2 2 2					
150 41,7	Vk X Pt LwA	6,9 4,1 - 2,9 55 32	6,0 3,8 - 2,7 41 30	4,6 3,3 - 2,4 26 25	3,8 3 - 2,1 18 22	3,0 2,7 - 1,9 11 17	2,2 2,3 - 1,7 6 12	1,8 2,1 - 1,5 4 8,7	1,5 1,9 - 1,4 3 6	1,3 1,8 - 1,3 2 2				
175 48,6	Vk X Pt LwA	8,1 4,7 - 3,3 74 36	6,9 4,4 - 3,1 55 33	5,4 3,9 - 2,8 34 29	4,4 3,5 - 2,5 23 25	3,5 3,1 - 2,2 15 21	2,6 2,7 - 1,9 8 15	2,1 2,4 - 1,7 6 12	1,8 2,3 - 1,7 4 9	1,5 2 - 1,4 3 6				
200 55,6	Vk X Pt LwA	9,3 5,4 - 3,8 96 39	7,9 5 - 3,5 71 36	6,2 4,4 - 3,1 44 32	5,1 4 - 2,8 30 28	4,0 3,5 - 2,5 19 24	2,9 3 - 2,1 11 18	2,4 2,8 - 2 7 15	2,1 2,6 - 1,9 6 12	1,7 2,3 - 1,7 4 9	1,3 2,1 - 1,5 2 4			
250 69,4	Vk X Pt LwA		9,9 6,2 - 4,4 109 41	7,7 5,5 - 3,9 68 36	6,3 5 - 3,5 46 33	5,0 4,4 - 3,1 29 29	3,7 3,8 - 2,7 16 23	3,0 3,5 - 2,5 11 20	2,6 3,2 - 2,3 8 17	2,1 2,9 - 2,1 6 14	1,7 2,6 - 1,9 4 9	1,3 2,3 - 1,7 2 6		
300 83,3	Vk X Pt LwA			9,3 6,6 - 4,7 96 41	7,6 6 - 4,2 65 37	6,0 5,3 - 3,8 41 33	4,4 4,5 - 3,2 23 27	3,6 4,1 - 2,9 16 24	3,1 3,8 - 2,7 12 21	2,5 3,5 - 2,5 8 18	2,0 3,1 - 2,2 5 13	1,6 2,8 - 2 3 10	1,3 2,5 - 1,8 2 6	
350 97,2	Vk X Pt LwA				8,8 6,9 - 4,9 88 40	6,9 6,2 - 4,4 55 36	5,1 5,3 - 3,8 31 31	4,2 4,8 - 3,4 22 27	3,6 4,5 - 3,2 16 24	2,9 4 - 2,8 11 21	2,3 3,6 - 2,6 7 17	1,9 3,2 - 2,3 5 13	1,5 2,9 - 2,1 3 9	1,2 2,6 - 1,9 2 6
400 111,1	Vk X Pt LwA				10,1 7,9 - 5,6 113 43	7,9 7 - 4,9 71 39	5,8 6 - 4,2 40 34	4,8 5,5 - 3,9 28 30	4,1 5,1 - 3,6 21 27	3,4 4,6 - 3,3 14 24	2,6 4,1 - 2,9 9 20	2,1 3,7 - 2,6 6 16	1,7 3,3 - 2,4 4 12	1,4 3 - 2,1 3 9
450 125,0	Vk X Pt LwA					8,9 7,9 - 5,6 89 42	6,6 6,8 - 4,8 50 36	5,4 6,2 - 4,4 35 33	4,6 5,7 - 4 26 30	3,8 5,2 - 3,7 18 26	3,0 4,6 - 3,3 11 22	2,4 4,1 - 2,9 7 18	1,9 3,7 - 2,6 5 15	1,6 3,4 - 2,4 3
500 138,9	Vk X Pt LwA					9,9 8,8 - 6,2 109 44	7,3 7,5 - 5,3 61 39	6,0 6,9 - 4,9 43 35	5,1 6,3 - 4,5 31 32	4,2 5,7 - 4 21 29	3,3 5,1 - 3,6 14 25	2,7 4,6 - 3,3 9 21	2,1 4,1 - 2,9 6 17	1,8 3,7 - 2,6 4 14
550 152,8	Vk X Pt LwA						8,0 8,3 - 5,9 73 41	6,6 7,5 - 5,3 51 37	5,7 7 - 4,9 38 34	4,6 6,3 - 4,5 26 31	3,6 5,6 - 4 16 27	2,9 5 - 3,5 11 23	2,4 4,5 - 3,2 7 19	2,0 4,1 - 2,9 5 16
600 166,7	Vk X Pt LwA						8,8 9 - 6,3 86 43	7,2 8,2 - 5,8 60 39	6,2 7,6 - 5,4 44 36	5,1 6,9 - 4,9 30 33	4,0 6,1 - 4,3 19 29	3,2 5,5 - 3,9 13 25	2,6 4,9 - 3,5 8 21	2,1 4,5 - 3,2 6 18
650 180,6	Vk X Pt LwA							7,9 8,9 - 6,3 70 41	6,7 8,2 - 5,8 52 38	5,5 7,4 - 5,2 35 35	4,3 6,6 - 4,7 22 30	3,5 5,9 - 4,2 15 27	2,8 5,3 - 3,8 10 23	2,3 4,9 - 3,5 7 19
700 194,4	Vk X Pt LwA							8,5 9,6 - 6,8 81 43	7,2 8,9 - 6,3 59 40	5,9 8 - 5,6 41 36	4,6 7,1 - 5 26 32	3,7 6,4 - 4,5 17 28	3,0 5,7 - 4 11 24	2,5 5,2 - 3,7 8 21
800 222,2	Vk X Pt LwA								8,2 10,1 - 7,1 77 43	6,7 9,2 - 6,5 52 39	5,3 8,1 - 5,7 33 35	4,3 7,3 - 5,2 22 31	3,4 6,5 - 4,6 14 27	2,8 6 - 4,2 10 24
900 250,0	Vk X Pt LwA								9,3 11,4 - 8 96 45	7,6 10,3 - 7,3 65 42	6,0 9,1 - 6,4 41 37	4,8 8,2 - 5,8 28 34	3,8 7,3 - 5,2 18 30	3,2 6,7 - 4,7 13 27

4S-4D SERIES
4SH - 4SV
4DH - 4DV
SELECTION TABLE

(dark)	> 51 dB(A)
	41 /50 dB(A)
	31 /40 dB(A)
	21 /30 dB(A)
(white)	≤ 20 dB(A)

Q (m³/h) (l/s)	LxH / Ak	350x200 500x150 800x100	400x200 600x150 1000x100	400x250 500x200 700x150	400x300 500x250 900x150	500x300 600x250 800x200	500x350 600x300 700x250	500x400 600x350 700x300	600x400 800x300 1000X250	700x400 800x350	800x400 900x350	700x500 900x400 1000x350	800x500 1000x400	1000x500
	Ak	0,027	0,033	0,042	0,052	0,065	0,078	0,092	0,108	0,127	0,144	0,162	0,185	0,233
1000 277,8	Vk X Pt LwA	10,3 12,6 - 8,9 117 48	8,4 11,4 - 8 80 44	6,6 10,1 - 7,1 51 40	5,3 9,1 - 6,4 34 36	4,3 8,2 - 5,8 22 32	3,6 7,4 - 5,2 16 29	3,0 6,9 - 4,9 11 26	2,6 6,3 - 4,5 8 23	2,2 5,8 - 4,1 6 20	1,9 5,5 - 3,9 5 18	1,7 5,2 - 3,7 4 16		
1100 305,6	Vk X Pt LwA		9,3 12,6 - 8,9 96 46	7,3 11,1 - 7,8 61 42	5,9 10 - 7 40 38	4,7 9 - 6,3 26 34	3,9 8,2 - 5,8 19 31	3,3 7,5 - 5,3 14 28	2,8 7 - 4,9 10 25	2,4 6,4 - 4,5 7 22	2,1 6 - 4,2 6 20	1,9 5,7 - 4 5 18	1,7 5,3 - 3,8 4 16	
1200 333,3	Vk X Pt LwA		10,1 13,7 - 9,6 113 48	7,9 12,2 - 8,6 71 44	6,4 10,9 - 7,7 48 40	5,1 9,8 - 6,9 31 36	4,3 8,9 - 6,3 22 333	3,6 8,2 - 5,8 16 30	3,1 7,6 - 5,4 12 27	2,6 7 - 4,9 9 24	2,3 6,6 - 4,7 7 22	2,1 6,2 - 4,4 6 20	1,8 5,8 - 4,1 4 18	
1300 361,1	Vk X Pt LwA			8,6 13,2 - 9,3 83 46	6,9 11,8 - 8,3 55 42	5,6 10,6 - 7,5 36 38	4,6 9,7 - 6,8 26 35	3,9 8,9 - 6,3 19 32	3,3 8,2 - 5,8 14 29	2,8 7,6 - 5,4 10 26	2,5 7,1 - 5 8 24	2,2 6,7 - 4,7 6 22	2,0 6,3 - 4,5 5 19	
1400 388,9	Vk X Pt LwA			9,3 14,2 - 10 96 47	7,5 12,7 - 8,9 64 43	6,0 11,4 - 8 42 39	5,0 10,4 - 7,3 30 36	4,2 9,6 - 6,8 22 33	3,6 8,9 - 6,3 16 31	3,1 8,2 - 5,8 12 28	2,7 7,7 - 5,4 9 25	2,4 7,2 - 5,1 7 23	2,1 6,8 - 4,8 6 21	1,7 6 - 4,2 4 17
1500 416,7	Vk X Pt LwA			9,9 15,2 - 10,7 109 49	8,0 13,6 - 9,6 73 45	6,4 12,2 - 8,6 48 41	5,3 11,1 - 7,8 34 38	4,5 10,3 - 7,3 25 35	3,9 9,5 - 6,7 18 32	3,3 8,7 - 6,1 13 29	2,9 8,2 - 5,8 11 27	2,6 7,8 - 5,5 8 25	2,3 7,3 - 5,2 7 23	1,8 6,5 - 4,6 4 18
1600 444,4	Vk X Pt LwA				8,5 14,6 - 10,3 82 46	6,8 13 - 9,1 54 42	5,7 11,9 - 8,4 38 39	4,8 11 - 7,7 28 36	4,1 10,1 - 7,1 21 33	3,5 9,3 - 6,6 15 31	3,1 8,8 - 6,2 12 28	2,7 8,3 - 5,9 10 26	2,4 7,7 - 5,4 7 24	1,9 6,9 - 4,9 5 20
1800 500,0	Vk X Pt LwA				9,6 16,4 - 11,5 103 49	7,7 14,6 - 10,3 67 45	6,4 13,4 - 9,4 48 42	5,4 12,3 - 8,7 35 39	4,6 11,4 - 8 26 36	3,9 10,5 - 7,4 19 33	3,5 9,9 - 7 15 31	3,1 9,3 - 6,6 12 29	2,7 8,7 - 6,1 9 27	2,1 7,8 - 5,5 6 22
2000 555,6	Vk X Pt LwA					8,5 16,3 - 11,5 82 47	7,1 14,8 - 10,4 58 44	6,0 13,7 - 9,6 43 41	5,1 12,6 - 8,9 31 38	4,4 11,6 - 8,2 23 36	3,9 10,9 - 7,7 18 33	3,4 10,3 - 7,3 15 31	3,0 9,7 - 6,8 11 29	2,4 8,6 - 6,1 7 25
2250 625,0	Vk X Pt LwA						8,0 16,7 - 11,7 73 47	6,8 15,4 - 10,8 53 44	5,8 14,2 - 10 39 41	4,9 13,1 - 9,2 29 38	4,3 12,3 - 8,7 23 36	3,9 11,6 - 8,2 18 34	3,4 10,9 - 7,7 14 31	2,7 9,7 - 6,8 9 27
2500 694,4	Vk X Pt LwA						8,9 18,5 - 13 89 49	7,5 17,1 - 12 65 46	6,4 15,8 - 11,1 48 43	5,5 14,5 - 10,2 35 40	4,8 13,7 - 9,6 28 38	4,3 12,9 - 9,1 22 36	3,8 12,1 - 8,5 17 34	3,0 10,8 - 7,6 11 30
2750 763,9	Vk X Pt LwA							8,3 18,8 - 13,2 78 48	7,1 17,3 - 12,2 57 45	6,0 16 - 11,2 42 43	5,3 15 - 10,5 33 40	4,7 14,2 - 10 27 38	4,1 13,3 - 9,4 21 36	3,3 11,8 - 8,3 13 32
3000 833,3	Vk X Pt LwA								7,7 18,9 - 13,3 68 47	6,6 17,4 - 12,2 50 44	5,8 16,4 - 11,5 39 42	5,1 15,5 - 10,9 31 40	4,5 14,5 - 10,2 24 38	3,6 12,9 - 9,1 16 34
3250 902,8	Vk X Pt LwA								8,4 20,5 - 14,4 79 49	7,1 18,9 - 13,3 58 46	6,3 17,7 - 12,4 46 44	5,6 16,7 - 11,7 36 42	4,9 15,7 - 11 28 40	3,9 14 - 9,8 18 35
3500 972,2	Vk X Pt LwA									7,7 20,3 - 14,3 67 48	6,8 19,1 - 13,4 53 46	6,0 18 - 12,6 42 44	5,3 16,9 - 11,9 33 41	4,2 15 - 10,5 21 37
4000 1111,1	Vk X Pt LwA										7,7 21,8 - 15,3 68 49	6,9 20,6 - 14,5 54 46	6,0 19,3 - 13,6 42 44	4,8 17,2 - 12,1 27 40

DAMPER OPENING

	WITHOUT REGULATION	100%	50%	25%
Pt	x0,5	x1	x2	x5
LwA	+3	+0	+7	+12

X = Reach in m. for final speed 0,25 m/s

7,5 - 5,3
4S - 4D

2 - 4 SERIES

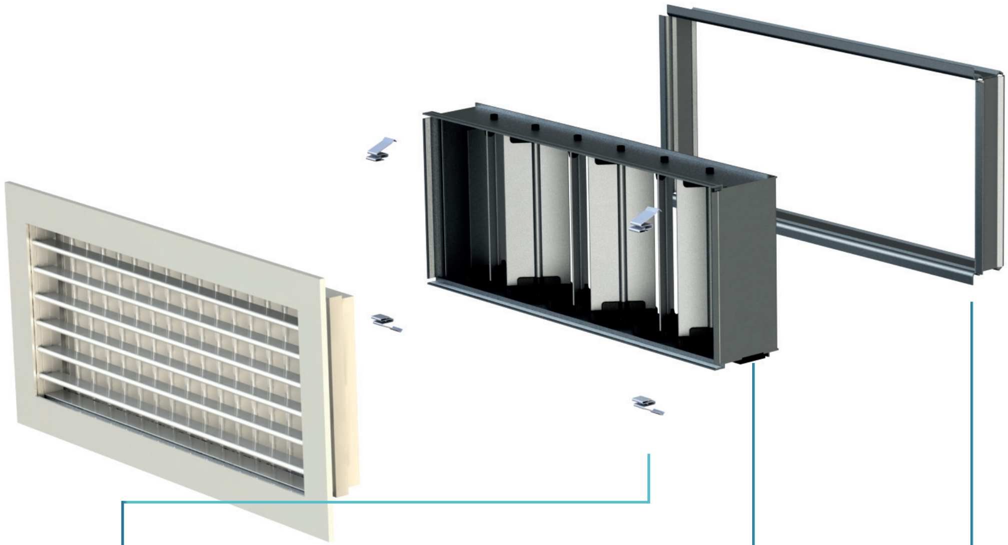
ORDER FORM

DESCRIPTION

Double deflection grille, for air supply with horizontal movable blades at 1st deflection and vertical at 2nd deflection, individually adjustable, type 2DH. Control damper (CRX) with horizontal blades parallel to the L level, fixed with clips (C), size LxH and white lacquer finish, similar to RAL 9016.

Order form:

2DH	X	C	LxH	BL



Air supply series:

2 SH - SV
2 DH - DV
4 SH - SV
4 DH - DV

Fixing systems:

(C) Clip (standard)
(T) Visible screw (optional)
(P) Concealed screw fixing (optional)

Control damper:

(X) Control damper, horizontal blades parallel to the L dimension. Type CRX
(Z) Volume control damper, vertical blades parallel to H. Type CRZ.

Mounting frame:

(MM) Aluminium mounting frame.

Dimensions (LxH):
(L) Length (mm)
(H) Height (mm)

Finish:
(AL) Matt silver anodised aluminium
(BL) White lacquer aluminium

* See specifications and adaptable accessories in the description of each model.


Solutions

RETURN GRILLES

2 - 8 - 9 SERIES

2FH	Grille with fixed horizontal blades at 40°.
2FV	Grille with fixed vertical blades at 40°.
8FH	Grille with fixed flat blades at 45
8FT	Modular false ceiling grille with fixed blades at 45.
8FTD	Modular false ceiling grille with fixed bidirectional blades.
9RO	Egg-crate grille.
9RI	Egg-crate grille at 45°.
9RT	Modular false ceiling egg-crate grille.
9RT-2	False Modular false ceiling egg-crate grille at 45°

SAMOVENT® TECHNIK

DIFUSIÓN Y VENTILACIÓN

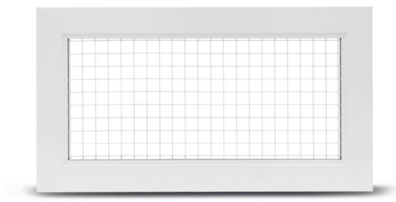
2FH

2FV

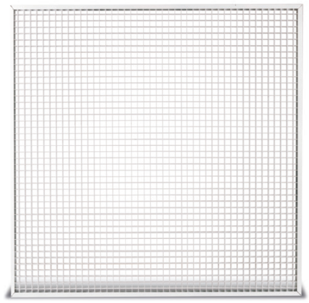
8FT

8FTD

8FH



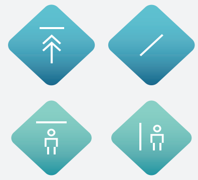
9RO - 9RI



9RT - 9RT-2

2F SERIES
2FH

GRILLE WITH FIXED BLADES AT 40°



Model **2FH.** Grille with fixed horizontal blades at 40º.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016. Other colours available on request.

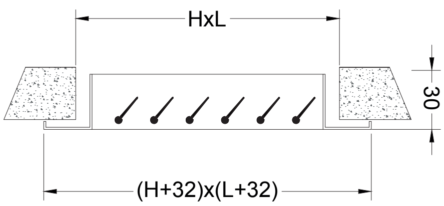
Fixing systems:

(C) Clip (estándar)
(T) Visible screw (optional)
Hole dimensions (L-7) x (H-7)
(P) Concealed screw fixing (optional))

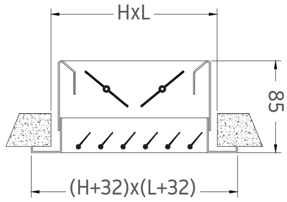
Accessories:

(MM) Aluminum mounting frame
Shaft dimensions (L+7) x (H+7)
(X) Regulating damper, with horizontal blades parallel to level L. CRX model.
(Z) Regulating damper, with vertical blades parallel to dimension H. CRZ model.

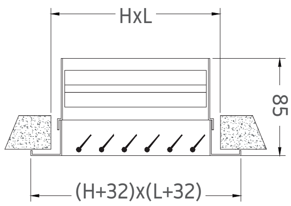
2FH



2FHX



2FHZ



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	450	500	600	700	800	900	1000
H	100	150	200	250	300	350	400	500			

2F SERIES
2FV

GRILLE WITH FIXED BLADES AT 40°

Model 2FV. Grille with fixed vertical blades at 40º.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

Fixing systems:

(C) Clip (estándar)

(T) Visible screw (optional)
Hole dimensions (L-7) x (H-7)

(P) Concealed screw fixing (optional))

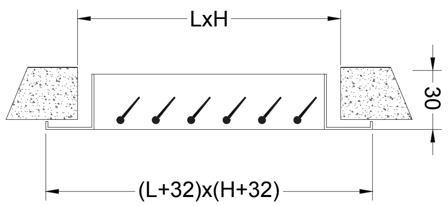
Accessories:

(MM) Aluminum mounting frame
Shaft dimensions (L+7) x (H+7)

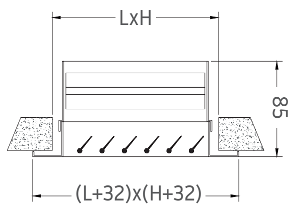
(X) Regulating damper, with horizontal blades parallel to level L. CRX model.

(Z) Regulating damper, with vertical blades parallel to dimension H. CRZ model.

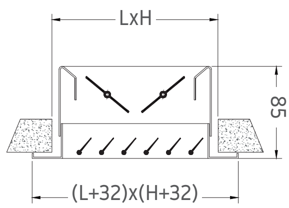
2FV



2FVX



2FVZ



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	450	500	600	700	800	900	1000
H	100	150	200	250	300	350	400	500			

2F SERIES
2FH - 2FV

SELECTION TABLE

Legend:
LxH = Dimensions in mmxmm
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa

	LxH	200x100	250x100	200x150 300x100	250x150 400x100	200x200 450x100	300X150 500X100	350X150 600X100	450x150 800x100	300X250 400X200 900x100	600X150 1000X100	450X250 600X200 800X150	500X300 600X250 800X200	500X350 600X300 900X200
Q (m^3/h) (l/s)	**Ak**	**0,010**	**0,012**	**0,016**	**0,020**	**0,021**	**0,026**	**0,031**	**0,041**	**0,047**	**0,052**	**0,073**	**0,097**	**0,113**
100 27,8	Vk Pt LwA	2,8 5 12	2,3 4 10	1,7 2 7	1,4 1 5									
150 41,7	Vk Pt LwA	4,2 11 22	3,5 8 18	2,6 4 13	2,1 3 10	2,0 3 10	1,6 2 8							
200 55,6	Vk Pt LwA	5,6 19 31	4,6 14 25	3,5 8 19	2,8 5 15	2,6 5 14	2,1 3 12	1,8 2 10						
250 69,4	Vk Pt LwA	6,9 30 40	5,8 21 33	4,3 12 25	3,5 8 20	3,3 7 19	2,7 5 15	2,2 3 13	1,7 2 10					
300 83,3	Vk Pt LwA	8,3 42 48	6,9 30 40	5,2 17 31	4,2 11 25	4,0 10 23	3,2 7 19	2,7 4 16	2,0 3 13	1,8 2 12				
350 97,2	Vk Pt LwA		8,1 40 48	6,1 23 36	4,9 15 29	4,6 14 28	3,7 9 23	3,1 6 19	2,4 4 15	2,1 3 14	1,9 2 13			
400 111,1	Vk Pt LwA			6,9 30 42	5,6 19 34	5,3 18 32	4,3 12 26	3,6 8 23	2,7 5 18	2,4 4 16	2,1 3 15	1,5 2 12		
450 125,0	Vk Pt LwA			7,8 37 47	6,3 24 38	6,0 22 37	4,8 15 30	4,0 10 26	3,0 6 20	2,7 5 18	2,4 4 17	1,7 2 13		
500 138,9	Vk Pt LwA				6,9 30 43	6,6 27 41	5,3 18 34	4,5 13 29	3,4 7 22	3,0 6 20	2,7 5 18	1,9 2 14	1,4 1 12	
550 152,8	Vk Pt LwA					7,3 32 45	5,9 21 37	4,9 15 32	3,7 9 25	3,3 7 22	2,9 6 20	2,1 3 16	1,6 2 13	
600 166,7	Vk Pt LwA					7,9 38 49	6,4 25 40	5,4 18 34	4,1 11 27	3,5 8 24	3,2 7 22	2,3 3 17	1,7 2 14	
650 180,6	Vk Pt LwA						6,9 30 44	5,8 21 37	4,4 12 29	3,8 9 26	3,5 8 24	2,5 4 19	1,9 2 15	1,6 2 14
700 194,4	Vk Pt LwA						7,5 34 47	6,3 24 40	4,7 14 32	4,1 11 28	3,7 9 26	2,7 5 20	2,0 3 16	1,7 2 15
750 208,3	Vk Pt LwA							6,7 28 43	5,1 16 34	4,4 12 30	4,0 10 28	2,9 5 21	2,1 3 17	1,8 2 16
800 222,2	Vk Pt LwA							7,2 32 46	5,4 18 36	4,7 14 32	4,3 12 29	3,0 6 23	2,3 3 18	2,0 3 17
850 236,1	Vk Pt LwA							7,6 35 49	5,8 21 38	4,7 14 32	4,5 13 31	3,2 7 24	2,4 4 19	2,1 3 18
900 250,0	Vk Pt LwA								6,1 23 40	5,3 18 36	4,8 15 33	3,4 8 25	2,6 4 21	2,2 3 19
950 263,9	Vk Pt LwA								6,4 26 43	5,6 20 38	5,1 16 35	3,6 8 26	2,7 5 22	2,3 4 19
1000 277,8	Vk Pt LwA								6,8 28 45	5,9 22 40	5,3 18 37	3,8 9 28	2,9 5 23	2,5 4 20

2F SERIES
2FH - 2FV

SELECTION TABLE

■	> 51 dB(A)
■	41 /50 dB(A)
■	31 /40 dB(A)
■	21 /30 dB(A)
□	≤ 20 dB(A)

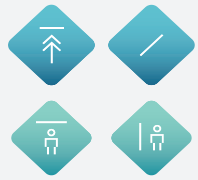
Q (m³/h) (l/s)	LxH	450x150 800x100	300X250 400X200 900x100	600X150 1000X100	450X250 600X200 800X150	500X300 600X250 800X200	500X350 600X300 900X200	500X400 600X350 700X300	600X400 700X350 1000X250	700X400 1000x300	700x500 1000x350	800X500 1000X400	900X500	1000X500
	Ak	**0,041**	**0,047**	**0,052**	**0,073**	**0,097**	**0,113**	**0,137**	**0,163**	**0,196**	**0,235**	**0,279**	**0,315**	**0,351**
1100 305,6	Vk Pt LwA	7,5 34 49	6,5 26 44	5,9 21 40	4,2 11 30	3,2 6 25	2,7 5 22	2,2 3 20	1,9 2 18	1,6 2 16				
1200 333,3	Vk Pt LwA	8,1 40 53	7,1 31 47	6,4 25 43	4,6 13 33	3,4 8 26	2,9 6 24	2,4 4 21	2,0 3 19	1,7 2 17	1,4 1 16			
1300 361,1	Vk Pt LwA		7,7 36 51	6,9 30 47	4,9 15 35	3,7 9 28	3,2 7 26	2,6 5 22	2,2 3 20	1,8 2 18	1,5 2 17			
1400 388,9	Vk Pt LwA		8,3 42 55	7,5 34 50	5,3 18 38	4,0 10 30	3,4 8 27	2,8 5 24	2,4 4 21	2,0 3 19	1,7 2 18			
1500 416,7	Vk Pt LwA			8,0 39 54	5,7 20 40	4,3 12 32	3,7 9 29	3,0 6 25	2,6 4 23	2,1 3 20	1,8 2 19	1,5 2 17	1,3 1 16	
1600 444,4	Vk Pt LwA			8,5 44 57	6,1 23 43	4,6 13 34	3,9 10 31	3,2 7 27	2,7 5 24	2,3 3 21	1,9 2 19	1,6 2 18	1,4 1 17	
1800 500,0	Vk Pt LwA				6,8 29 48	5,2 17 38	4,4 12 34	3,6 9 29	3,1 6 26	2,6 4 23	2,1 3 21	1,8 2 19	1,6 2 18	1,4 1 18
2000 555,6	Vk Pt LwA				7,6 35 52	5,7 20 42	4,9 15 37	4,1 11 32	3,4 8 29	2,8 5 25	2,4 4 23	2,0 3 21	1,8 2 20	1,6 2 19
2250 625,0	Vk Pt LwA				8,6 44 58	6,4 26 46	5,5 19 41	4,6 13 36	3,8 9 31	3,2 7 28	2,7 5 25	2,2 3 23	2,0 3 21	1,8 2 20
2500 694,4	Vk Pt LwA					7,2 31 51	6,1 23 45	5,1 16 39	4,3 12 34	3,5 8 30	3,0 6 27	2,5 4 24	2,2 3 23	2,0 3 22
2750 763,9	Vk Pt LwA					7,9 38 55	6,8 28 49	5,6 19 42	4,7 14 37	3,9 10 33	3,3 7 29	2,7 5 26	2,4 4 25	2,2 3 23
3000 833,3	Vk Pt LwA						7,4 33 53	6,1 23 46	5,1 16 40	4,3 12 35	3,5 8 31	3,0 6 28	2,6 5 26	2,4 4 25
3500 972,2	Vk Pt LwA							7,1 31 52	6,0 22 46	5,0 15 40	4,1 11 35	3,5 8 31	3,1 6 29	2,8 5 27
4000 1111,1	Vk Pt LwA								6,8 29 51	5,7 20 44	4,7 14 39	4,0 10 35	3,5 8 32	3,2 7 30
4500 1250,0	Vk Pt LwA								7,7 36 56	6,4 25 49	5,3 18 43	4,5 13 38	4,0 10 35	3,6 8 33
5000 1388,9	Vk Pt LwA									7,1 31 53	5,9 22 47	5,0 16 41	4,4 12 38	4,0 10 36

DAMPER OPENING

	WITHOUT REGULATION	100%	50%	25%
Pt	x0,5	x1	x2	x5
LwA	+3	+0	+7	+12

8F SERIES
8FH

GRILLE WITH FIXED BLADES AT 45°



Model **8FH.** Grille with fixed flat Blades at 45°.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016. Other colours available on request.

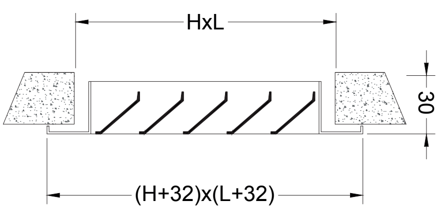
Fixing systems:

- **(C)** Clip (estándar)
- **(T)** Visible screw (optional)
  Hole dimensions (L-7) x (H-7)
- **(P)** Concealed screw fixing (optional))

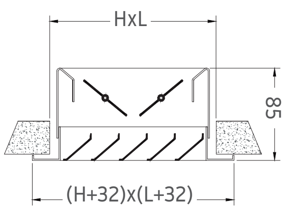
Accessories:

- **(MM)** Aluminum mounting frame
  Shaft dimensions (L+7) x (H+7)
- **(X)** Regulating damper, with horizontal blades parallel to level L. CRX model.
- **(Z)** Regulating damper, with vertical blades parallel to dimension H. CRZ model.

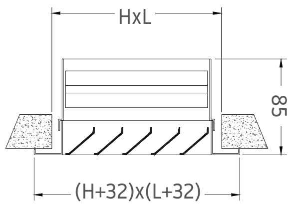
8FH



8FHX



8FHZ

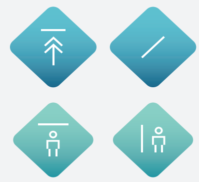


STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	450	500	600	700	800	900	1000	1100	1200
H	100	150	200	250	300	350	400	500					

8F SERIES
8FH

GRILLE WITH FIXED BLADES AT 45°



Model **8FHM.** Grille with fixed flat blades at 45º, with galvanised mesh.
Model **8FHF.** Grille with fixed flat blades at 45º, with G3 filtering mat.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

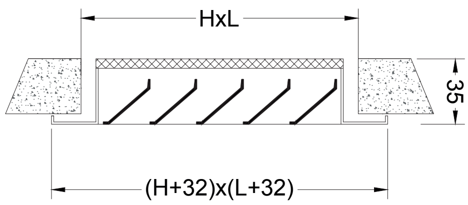
Fixing systems:

(C) Clip (estándar)
(T) Visible screw (optional)
Hole dimensions (L-7) x (H-7)
(P) Concealed screw fixing (optional))

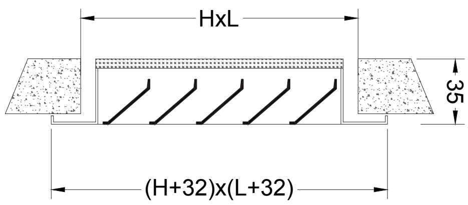
Accessories:

(MM) Aluminum mounting frame
Shaft dimensions (L+7) x (H+7)
(X) Regulating damper, with horizontal blades parallel to level L. CRX model.
(Z) Regulating damper, with vertical blades parallel to dimension H. CRZ model.

8FHM



8FHF



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	400	450	500	600	700	800	900	1000	1100	1200
H	100	150	200	250	300	350	400	500					

* Modelo 8FHF.: Dim. máxima 1000x500

8F SERIES
8FH
SELECTION TABLE

Legend:
LxH = Dimensions in mmxmm
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa

Q (m^3/h) (l/s)	LxH	200x100	250x100	200x150 300x100	250x150 400x100	200x200 300x150 450x100	250x200 350x150	300x200 400x150	500x150 800x100	300x300 1000x100	450x250 600x200 800x150	450x300 700x200 1000x150	500x350 700x250 900x200	500x400 800x250 1000x200
	Ak	0,009	0,011	0,014	0,018	0,021	0,026	0,032	0,040	0,048	0,062	0,076	0,097	0,110
100 27,8	Vk Pt LwA	3,1 6 14	2,5 4 11	2,0 3 8	1,5 2 6									
150 41,7	Vk Pt LwA	4,6 14 24	3,8 9 19	3,0 6 15	2,3 4 11	2,0 3 10	1,6 2 8							
200 55,6	Vk Pt LwA	6,2 24 34	5,1 16 28	4,0 10 22	3,1 6 17	2,6 5 14	2,1 3 12	1,7 2 10						
250 69,4	Vk Pt LwA	7,7 36 44	6,3 25 36	5,0 15 28	3,9 10 22	3,3 7 19	2,7 5 15	2,2 3 13	1,7 2 11					
300 83,3	Vk Pt LwA		7,6 35 44	6,0 22 35	4,6 14 27	4,0 10 23	3,2 7 19	2,6 4 16	2,1 3 13	1,7 2 11				
350 97,2	Vk Pt LwA			6,9 30 41	5,4 18 32	4,6 14 28	3,7 9 23	3,0 6 19	2,4 4 16	2,0 3 13	1,6 2 11			
400 111,1	Vk Pt LwA			7,9 38 47	6,2 24 37	5,3 18 32	4,3 12 26	3,5 8 22	2,8 5 18	2,3 4 16	1,8 2 13	1,5 1 11		
450 125,0	Vk Pt LwA				6,9 30 42	6,0 22 37	4,8 15 30	3,9 10 25	3,1 6 21	2,6 4 18	2,0 3 15	1,6 2 13		
500 138,9	Vk Pt LwA				7,7 36 47	6,6 27 41	5,3 18 34	4,3 12 28	3,5 8 23	2,9 5 20	2,2 3 16	1,8 2 14	1,4 1 12	
550 152,8	Vk Pt LwA					7,3 32 45	5,9 21 37	4,8 14 31	3,8 9 25	3,2 7 22	2,5 4 18	2,0 3 15	1,6 2 13	
600 166,7	Vk Pt LwA					7,9 38 49	6,4 25 40	5,2 17 34	4,2 11 28	3,5 8 24	2,7 5 19	2,2 3 17	1,7 2 14	
650 180,6	Vk Pt LwA						6,9 30 44	5,6 20 36	4,5 13 30	3,8 9 26	2,9 6 21	2,4 4 18	1,9 2 15	1,6 2 14
700 194,4	Vk Pt LwA						7,5 34 47	6,1 23 39	4,9 15 32	4,1 10 28	3,1 6 22	2,6 4 19	2,0 3 16	1,8 2 15
750 208,3	Vk Pt LwA							6,5 26 42	5,2 17 35	4,3 12 30	3,4 7 24	2,7 5 21	2,1 3 17	1,9 2 16
800 222,2	Vk Pt LwA							6,9 30 45	5,6 19 37	4,6 14 31	3,6 8 26	2,9 6 22	2,3 3 18	2,0 3 17
850 236,1	Vk Pt LwA							7,4 33 47	5,9 22 39	4,9 15 33	3,8 9 27	3,1 6 23	2,4 4 19	2,1 3 18
900 250,0	Vk Pt LwA							7,8 37 50	6,3 24 41	5,2 17 35	4,0 10 29	3,3 7 24	2,6 4 21	2,3 3 19
950 263,9	Vk Pt LwA								6,6 27 43	5,5 19 37	4,3 12 30	3,5 8 26	2,7 5 22	2,4 4 20
1000 277,8	Vk Pt LwA								6,9 30 46	5,8 21 39	4,5 13 32	3,7 9 27	2,9 5 23	2,5 4 21

8F SERIES
8FH

SELECTION TABLE

	> 51 dB(A)
	41 /50 dB(A)
	31 /40 dB(A)
	21 /30 dB(A)
	≤ 20 dB(A)

	LxH	500x150 800x100	300x300 1000x100	600x200 600x200 800x150	450x300 700x200 1000x150	500x350 700x250 900x200	500x400 800x250 1000x200	600x400 700x350 1000x250	600x500 1000x300 1200x250	700x500 1000x350 1200x300	800x500 1000x400	700x700 1000x500	900x600 1100x500	1000x600 1200x500
Q (m^3/h) (l/s)	Ak	0,040	0,048	0,062	0,076	0,097	0,110	0,137	0,168	0,200	0,227	0,286	0,313	0,346
1100 305,6	Vk Pt LwA	7,6 36 50	6,4 25 43	4,9 15 35	4,0 10 29	3,2 6 25	2,8 5 22	2,2 3 20	1,8 2 17	1,5 2 16				
1200 333,3	Vk Pt LwA	8,3 42 54	6,9 30 46	5,4 18 38	4,4 12 32	3,4 8 26	3,0 6 24	2,4 4 21	2,0 3 19	1,7 2 17	1,5 1 16			
1300 361,1	Vk Pt LwA		7,5 35 50	5,8 21 40	4,8 14 34	3,7 9 28	3,3 7 26	2,6 5 22	2,1 3 20	1,8 2 18	1,6 2 17			
1400 388,9	Vk Pt LwA		8,1 40 54	6,3 24 43	5,1 16 37	4,0 10 30	3,5 8 28	2,8 5 24	2,3 4 21	1,9 3 19	1,7 2 18			
1500 416,7	Vk Pt LwA		8,7 46 57	6,7 28 46	5,5 19 39	4,3 12 32	3,8 9 29	3,0 6 25	2,5 4 22	2,1 3 20	1,8 2 19	1,5 1 17	1,3 1 16	
1600 444,4	Vk Pt LwA			7,2 32 49	5,8 21 41	4,6 13 34	4,0 10 31	3,2 7 27	2,6 5 23	2,2 3 21	2,0 3 20	1,6 2 18	1,4 1 17	
1800 500,0	Vk Pt LwA			8,1 40 55	6,6 27 46	5,2 17 38	4,5 13 35	3,6 9 29	3,0 6 26	2,5 4 23	2,2 3 22	1,7 2 19	1,6 2 18	1,4 1 18
2000 555,6	Vk Pt LwA				7,3 33 51	5,7 20 42	5,1 16 38	4,1 11 32	3,3 7 28	2,8 5 25	2,4 4 23	1,9 3 21	1,8 2 20	1,6 2 19
2250 625,0	Vk Pt LwA				8,2 41 56	6,4 26 46	5,7 20 42	4,6 13 36	3,7 9 31	3,1 6 27	2,8 5 25	2,2 3 22	2,0 3 21	1,8 2 20
2500 694,4	Vk Pt LwA					7,2 31 51	6,3 25 46	5,1 16 39	4,1 11 34	3,5 8 30	3,1 6 28	2,4 4 24	2,2 3 23	2,0 3 22
2750 763,9	Vk Pt LwA					7,9 38 55	6,9 30 50	5,6 19 42	4,5 13 36	3,8 9 32	3,4 7 30	2,7 5 26	2,4 4 25	2,2 3 23
3000 833,3	Vk Pt LwA						7,6 35 54	6,1 23 46	5,0 15 39	4,2 11 35	3,7 9 32	2,9 6 28	2,7 5 26	2,4 4 25
3500 972,2	Vk Pt LwA							7,1 31 52	5,8 21 44	4,9 15 39	4,3 12 36	3,4 7 31	3,1 6 29	2,8 5 28
4000 1111,1	Vk Pt LwA								6,6 27 50	4,9 15 39	4,9 15 40	3,9 10 34	3,5 8 32	3,2 7 30
4500 1250,0	Vk Pt LwA								7,4 34 55	6,3 24 48	5,5 19 44	4,4 12 38	4,0 10 35	3,6 8 33
5000 1388,9	Vk Pt LwA									6,9 30 53	6,1 23 48	4,9 15 41	4,4 12 38	4,0 10 36

DAMPER OPENING

	WITHOUT REGULATION	100%	50%	25%
Pt	x0,5	x1	x2	x5
LwA	+3	+0	+7	+12

FILTER PAD

	G3	G4
Pt	x3	x3,3

8F SERIES
8FT

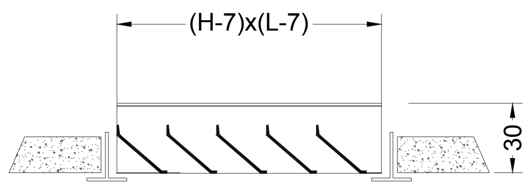
MODULAR FALSE CEILING GRILLE

Model 8FT. Modular false ceiling grille with fixed horizontal blades at 45º..
Model 8FTF. Modular false ceiling grille with fixed horizontal blades at 45º, with G3 filtering mat.

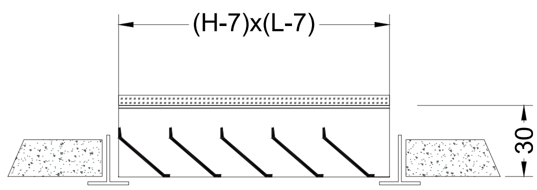
Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016. Other colours available on request.

Accessories:
(X) Regulating damper, with horizontal blades parallel to level L. CRX model.

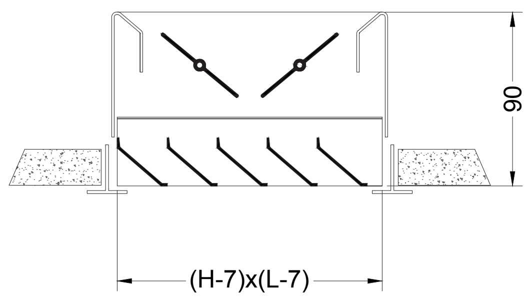
8FT



8FTF



8FTX



STANDARDIZED NOMINAL DIMENSIONS

L	600	
H	300	600

8F SERIES
8FT
SELECTION TABLE

Legend:
LxH = Dimensions in mmxmm
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

> 51 dB(A)
41 /50 dB(A)
31 /40 dB(A)
21 /30 dB(A)
≤ 20 dB(A)

	LxH	600X300	600X600
Q (m³/h) (l/s)	Ak	0,101	0,209
600 166,7	Vk Pt LwA	1,7 2 14	
800 222,2	Vk Pt LwA	2,2 3 18	
1000 277,8	Vk Pt LwA	2,8 5 22	
1200 333,3	Vk Pt LwA	3,3 7 26	1,6 2 17
1400 388,9	Vk Pt LwA	3,9 10 29	1,9 2 19
1600 444,4	Vk Pt LwA	4,4 12 33	2,1 3 21
1800 500,0	Vk Pt LwA	5,0 15 37	2,4 4 23
2000 555,6	Vk Pt LwA	5,5 19 40	2,7 5 24
2500 694,4	Vk Pt LwA	6,9 29 49	3,3 7 29
3000 833,3	Vk Pt LwA		4,0 10 34
3500 972,2	Vk Pt LwA		4,7 14 38
4000 1111,1	Vk Pt LwA		5,3 18 42
4500 1250,0	Vk Pt LwA		6,0 22 47
5000 1388,9	Vk Pt LwA		6,6 27 51
6000 1666,7	Vk Pt LwA		8,0 39 59

DAMPER OPENING

	WITHOUT REGULATION	100%	50%	25%
Pt	X0,5	x1	x2	x5
LwA	+3	+0	+7	+12

FILTER PAD

	G3	G4
Pt	x3	x3,3

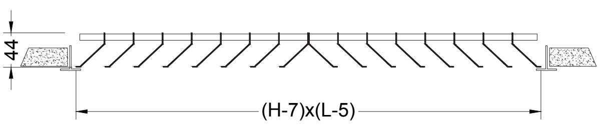
8F SERIES
8FTD

MODULAR FALSE CEILING GRILLE

Model 8FTD. Modular false ceiling grille with fixed bidirectional blades.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

8FTD



STANDARDIZED NOMINAL DIMENSIONS

L	600	
H	300	600

8F SERIES
8FTD

SELECTION TABLE

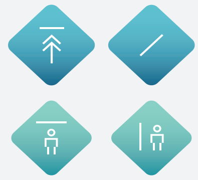
Legend:
LxH = Dimensions in mmxmm
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

> 51 dB(A)
41 /50 dB(A)
31 /40 dB(A)
21 /30 dB(A)
≤ 20 dB(A)

	LxH	300x600	600x600
Q (m^3/h) (l/s)	Ak	0,130	0,262
1000 277,8	Vk Pt LwA	2,1 3 19	1,1 1 14
1500 416,7	Vk Pt LwA	3,2 7 26	1,6 2 18
2000 555,6	Vk Pt LwA	4,3 12 33	2,1 3 22
2500 694,4	Vk Pt LwA	5,3 18 40	2,7 5 25
3000 833,3	Vk Pt LwA	6,4 25 47	3,2 7 29
3500 972,2	Vk Pt LwA		3,7 9 33
4000 1111,1	Vk Pt LwA		4,2 11 36
4500 1250,0	Vk Pt LwA		4,8 14 40
5000 1388,9	Vk Pt LwA		5,3 18 43
6000 1666,7	Vk Pt LwA		6,4 25 50

9 SERIES
9RO -9RI

EGG-CRATE



Model **9RO.** REgg-crate grille at 0º.
Model **9RI.** Egg-crate grille at 45º.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

Fixing systems:

(C) Clip (estándar)

(T) Visible screw (optional)
Hole dimensions (L-7) x (H-7)

(P) Concealed screw fixing (optional))

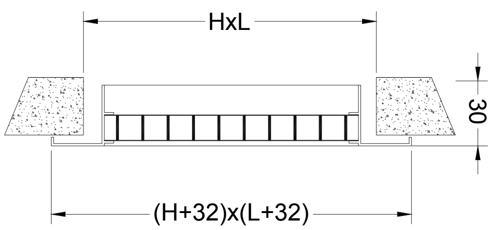
Accessories:

(MM) Aluminum mounting frame
Shaft dimensions (L+7) x (H+7)

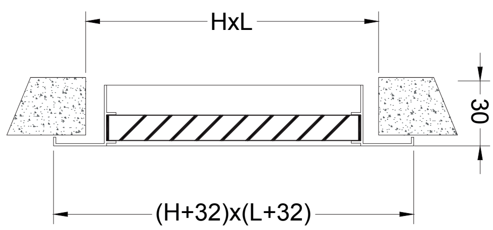
(X) Regulating damper, with horizontal blades parallel to level L. CRX model.

(Z) Regulating damper, with vertical blades parallel to dimension H. CRZ model.

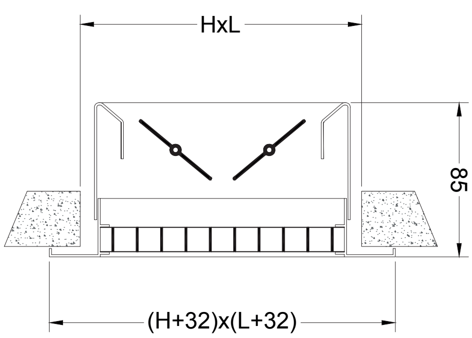
9RO



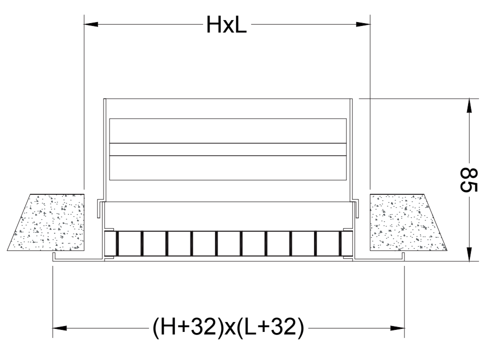
9RI



9ROX / 9RIX



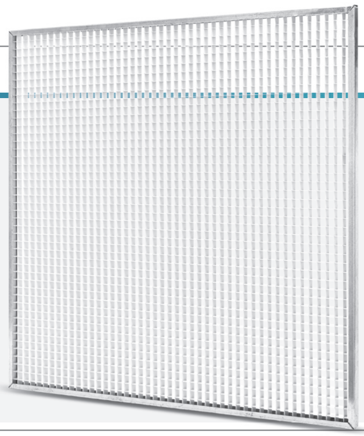
9ROZ / 9RIZ



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
H	100	150	200	250	300	350	400	500	600					

9 SERIES
9RT - 9RT-2
EGG-CRATE

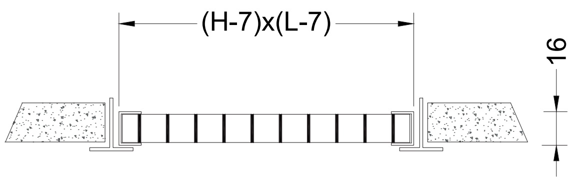


Model 9RT. Modular false ceiling egg-crate grille at 0º.
Model 9RT-2. Modular false ceiling egg-crate grille at 45º.
Model 9RTF. Modular false ceiling egg-crate grille at 0, with G3 filtering mat.
Model 9RTF-2. Modular false ceiling egg-crate grille at 45º, with G3 filtering mat.

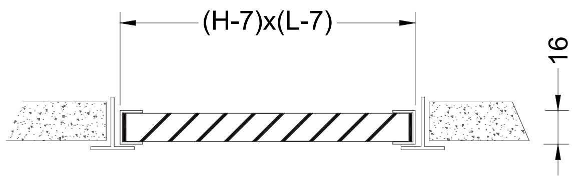
Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

Accessories:
(X) Regulating damper, with horizontal blades parallel to level L. CRX model.

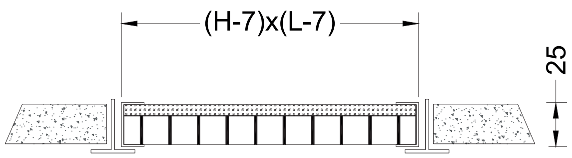
9RT



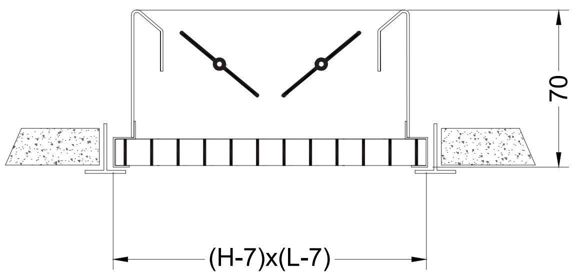
9RT-2



9RTF / 9RTF-2



9RTX / 9RTX-2



STANDARDIZED NOMINAL DIMENSIONS

L	600	
H	300	600

9 SERIES
9RO - 9RI

SELECTION TABLE

Legend:
LxH = Dimensions in mmxmm
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

	LxH	200x100	250x100	200x150 300x100	250x150 400x100	200x200 450x100	300x150 500x100	350x150 600x100	300X200 400x150 700x100	350X200 500X150 800X100	400X250 500X200 700X150	350X350 500X250 900X150	450X300 700X200 1000X150	500X350 700X250 900X200
Q (m³/h) (l/s)	**Ak**	**0,011**	**0,014**	**0,018**	**0,024**	**0,027**	**0,030**	**0,037**	**0,043**	**0,050**	**0,074**	**0,095**	**0,107**	**0,136**
100 27,8	Vk Pt LwA	2,5 4 11	2,0 3 8	1,5 2 67	1,2 1 4									
150 41,7	Vk Pt LwA	3,8 9 19	3,0 6 15	2,3 4 11	1,7 2 8	1,5 2 7	1,4 1 7							
200 55,6	Vk Pt LwA	5,1 16 28	4,0 10 22	3,1 6 17	2,3 4 13	2,1 3 11	1,9 2 10	1,5 2 8						
250 69,4	Vk Pt LwA	6,3 25 36	5,0 15 28	3,9 10 22	2,9 5 17	2,6 4 15	2,3 4 14	1,9 2 11	1,6 2 10					
300 83,3	Vk Pt LwA	7,6 35 44	6,0 22 35	4,6 14 27	3,5 8 21	3,1 6 19	2,8 5 17	2,3 3 14	1,9 3 12	1,7 2 11				
350 97,2	Vk Pt LwA		6,9 30 41	5,4 18 32	4,1 10 25	3,6 8 22	3,2 7 20	2,6 5 17	2,3 3 15	1,9 3 13	1,3 1 10			
400 111,1	Vk Pt LwA		7,9 38 47	6,2 24 37	4,6 14 28	4,1 11 26	3,7 9 23	3,0 6 19	2,6 4 17	2,2 3 15	1,5 2 11	1,2 1 10		
450 125,0	Vk Pt LwA			6,9 30 42	5,2 17 32	4,6 14 29	4,2 11 26	3,4 7 22	2,9 6 19	2,5 4 17	1,7 2 13	1,3 1 11		
500 138,9	Vk Pt LwA			7,7 36 47	5,8 21 36	5,1 17 32	4,6 14 29	3,8 9 24	3,2 7 22	2,8 5 19	1,9 2 14	1,5 1 12	1,3 1 12	
550 152,8	Vk Pt LwA				6,4 25 40	5,7 20 36	5,1 16 32	4,1 11 27	3,6 8 24	3,1 6 21	2,1 3 16	1,6 2 13	1,4 1 13	
600 166,7	Vk Pt LwA				6,9 30 43	6,2 24 39	5,6 19 36	4,5 13 30	3,9 10 26	3,3 7 23	2,3 3 17	1,8 2 14	1,6 2 14	
650 180,6	Vk Pt LwA				7,5 35 47	6,7 28 42	6,0 23 39	4,9 15 32	4,2 11 28	3,6 8 25	2,4 4 18	1,9 2 16	1,7 2 14	1,3 1 13
700 194,4	Vk Pt LwA					7,2 32 46	6,5 26 41	5,3 17 34	4,5 13 30	3,9 10 27	2,6 5 20	2,0 3 17	1,8 2 15	1,4 1 14
750 208,3	Vk Pt LwA					7,7 36 49	6,9 30 44	5,6 20 37	4,8 15 32	4,2 11 29	2,8 5 21	2,2 3 18	1,9 3 16	1,5 2 14
800 222,2	Vk Pt LwA						7,4 34 47	6,0 22 39	5,2 17 35	4,4 13 30	3,0 6 22	2,3 4 19	2,1 3 17	1,6 2 15
850 236,1	Vk Pt LwA							6,4 25 42	5,5 19 37	4,7 14 32	3,2 7 24	2,5 4 20	2,2 3 18	1,7 2 16
900 250,0	Vk Pt LwA							6,8 28 44	5,8 21 39	5,0 16 34	3,4 7 25	2,6 5 21	2,3 4 19	1,8 2 17
950 263,9	Vk Pt LwA							7,1 31 47	6,1 23 41	5,3 17 36	3,6 8 26	2,8 5 22	2,5 4 20	1,9 3 17
1000 277,8	Vk Pt LwA							7,5 34 49	6,5 26 43	5,6 19 38	3,8 9 27	2,9 6 23	2,6 4 21	2,0 3 18

9 SERIES
9RO - 9RI

SELECTION TABLE

(dark)	> 51 dB(A)
	41 /50 dB(A)
	31 /40 dB(A)
	21 /30 dB(A)
(white)	≤ 20 dB(A)

	LxH	300X200 400x150 700x100	350X200 500X150 800X100	400X250 500X200 700X150	350X350 500X250 900X150	450X300 700X200 1000X150	500X350 700X250 900X200	800X250 1000X200	600X400 800X300 1000x250	600X500 1000X300	800X500 1000X400	800X600 1200X400	1000X600 1200X500	1200X600
Q (m³/h) (l/s)	Ak	0,043	0,050	0,074	0,095	0,107	0,136	0,153	0,194	0,243	0,332	0,400	0,508	0,614
1100 305,6	Vk Pt LwA	7,1 31 47	6,1 23 41	4,1 11 30	3,2 7 25	2,9 5 23	2,2 3 20	2,0 3 18	1,6 2 16	1,3 1 15				
1200 333,3	Vk Pt LwA	7,8 37 51	6,7 27 45	4,5 13 33	3,5 8 27	3,1 6 25	2,5 4 21	2,2 3 20	1,7 2 17	1,4 1 16	1,0 1 14			
1300 361,1	Vk Pt LwA	8,4 43 55	7,2 32 48	4,9 15 35	3,8 9 29	3,4 7 26	2,7 5 23	2,4 4 21	1,9 2 18	1,5 2 17	1,1 1 15			
1400 388,9	Vk Pt LwA		7,8 37 52	5,3 17 37	4,1 11 31	3,6 8 28	2,9 5 24	2,5 4 22	2,0 3 19	1,6 2 17	1,2 1 15			
1500 416,7	Vk Pt LwA		8,3 42 55	5,6 20 40	4,4 12 33	3,9 10 30	3,1 6 25	2,7 5 24	2,1 3 20	1,7 2 18	1,3 1 16	1,0 1 15	0,8 0 15	
1600 444,4	Vk Pt LwA		8,9 48 59	6,0 22 42	4,7 14 35	4,2 11 32	3,3 7 27	2,9 6 25	2,3 3 21	1,8 2 19	1,3 1 17	1,1 1 16	0,9 1 15	
1800 500,0	Vk Pt LwA			6,8 28 47	5,3 17 39	4,7 14 35	3,7 9 30	3,3 7 27	2,6 4 24	2,1 3 21	1,5 2 18	1,3 1 17	1,0 1 16	0,8 0 15
2000 555,6	Vk Pt LwA			7,5 34 52	5,8 21 42	5,2 17 39	4,1 11 32	3,6 8 30	2,9 5 26	2,3 3 22	1,7 2 19	1,4 1 18	1,1 1 17	0,9 1 16
2250 625,0	Vk Pt LwA			8,4 43 58	6,6 27 47	5,8 21 43	4,6 13 36	4,1 11 33	3,2 7 28	2,6 4 24	1,9 2 21	1,6 2 19	1,2 1 18	1,0 1 17
2500 694,4	Vk Pt LwA				7,3 33 52	6,5 26 47	5,1 16 39	4,5 13 36	3,6 8 30	2,9 5 26	2,1 3 22	1,7 2 21	1,4 1 19	1,1 1 18
2750 763,9	Vk Pt LwA					7,1 31 51	5,6 20 42	5,0 16 39	3,9 10 33	3,1 6 28	2,3 4 24	1,9 2 22	1,5 2 20	1,2 1 19
3000 833,3	Vk Pt LwA					7,8 37 55	6,1 23 46	5,4 19 42	4,3 12 35	3,4 8 30	2,5 4 25	2,1 3 23	1,6 2 21	1,4 1 20
3500 972,2	Vk Pt LwA						7,1 31 52	6,4 25 48	5,0 16 40	4,0 10 34	2,9 6 28	2,4 4 26	1,9 2 23	1,6 2 21
4000 1111,1	Vk Pt LwA							7,3 32 54	5,7 20 45	4,6 13 38	3,3 7 31	2,8 5 28	2,2 3 25	1,8 2 23
4500 1250,0	Vk Pt LwA							8,2 41 59	6,4 26 49	5,1 17 42	3,8 9 34	3,1 6 31	2,5 4 27	2,0 3 25
5000 1388,9	Vk Pt LwA								7,2 31 54	5,7 20 46	4,2 11 37	3,5 8 33	2,7 5 29	2,3 3 26

DAMPER OPENING

	WITHOUT REGULATION	100%	50%	25%
Pt	x0,5	x1	x2	x5
LwA	+3	+0	+7	+12

9 SERIES
9RO - 9RI

SELECTION TABLE

Legend:
LxH = Dimensions in mmxmm
Q = Flow rate
Ak = Effective area in m2
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

41 /50 dB(A)
31 /40 dB(A)
21 /30 dB(A)
≤ 20 dB(A)

	LxH	600x300	600x600
Q (m³/h) (l/s)	Ak	0,144	0,302
1000 277,8	Vk Pt LwA	1,9 3 18	0,9 1 13
1500 416,7	Vk Pt LwA	2,9 5 24	1,4 1 17
2000 555,6	Vk Pt LwA	3,9 10 31	1,8 2 20
2500 694,4	Vk Pt LwA	4,8 15 38	2,3 4 23
3000 833,3	Vk Pt LwA	5,8 21 44	2,8 5 27
3500 972,2	Vk Pt LwA	6,8 28 50	3,2 7 30
4000 1111,1	Vk Pt LwA		3,7 9 33
4500 1250,0	Vk Pt LwA		4,1 11 36
5000 1388,9	Vk Pt LwA		4,6 13 39
6000 1666,7	Vk Pt LwA		5,5 19 45

DAMPER OPENING

	WITHOUT REGULATION	100%	50%	25%
Pt	X0,5	x1	x2	x5
LwA	+3	+0	+7	+12

FILTER PAD

	G3	G4
Pt	x3	x3,3

RETURN GRILLES

2 - 8 - 9 SERIES

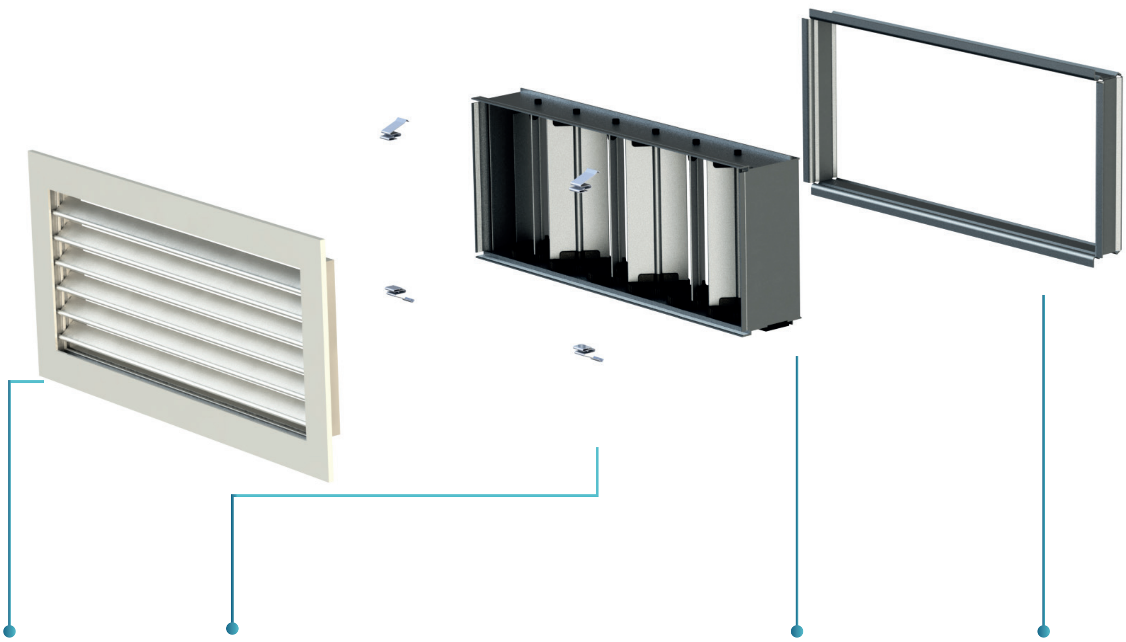
ORDER FORM

DESCRIPTION

Air return grille with fixed blades at 45º, type 8FH. Control damper (CRX) with horizontal blades parallel to the L dimension, fixed by clips (C), size LxH and finished in white lacquer, similar to RAL 9016.

Order Form:

8FH	X	C	LxH	BL



Return series:

2FH - 2FV
8FH
9RO - 9RI
9RT - 9RT-2

Fixing systems:

(C) Clip (standard)
(T) Visible screw (optional)
(P) Concealed screw fixing (optional)

Control damper:

(X) Control damper, horizontal blades parallel to the L dimension. Type CRX
(Z) Volume control damper, vertical blades parallel to H. Type CRZ.

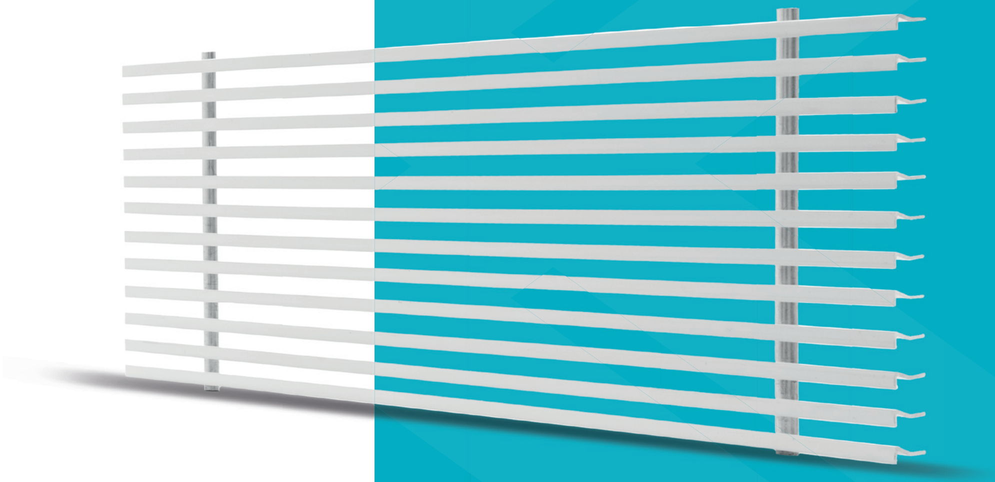
Mounting frame:

(MM) Aluminium mounting frame.

Dimensions (LxH):
(L) Length (mm)
(H) Height (mm)

Finish:
(AL) Matt silver anodised aluminium
(BL) White lacquer aluminium

* See specifications and adaptable accessories in the description of each model.



LINEAR GRILLES

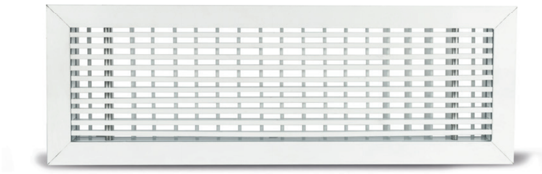
6L SERIES

6LS-1 / 2	Linear grille with fixed blades at 0°/20°.
6LS-R	Linear grille with fixed bladesat 45°. For return
6LD-1 / 2	Linear grille with fixed blades at 0°/20° with double deflection
6LR-1 / 2	Linear grille with fixed blades at 0°/20° with reduced frame
6LR-R	Linear grille with fixed blades at 45° with reduced frame. For return
6LO-1 / 2	Linear grille with fixed blades at 0°/20° without perimeter frame
6LO-R	Linear grille with fixed blades at 45° without perimeter frame. For return

SAMOVENT® TECHNIK

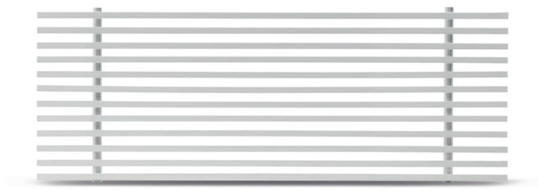
DIFUSIÓN Y VENTILACIÓN

6LS



6LD

6LR



6LO

6L SERIES
6LS-1 - 6LS-2 - 6LS-R
LINEAR GRILLE

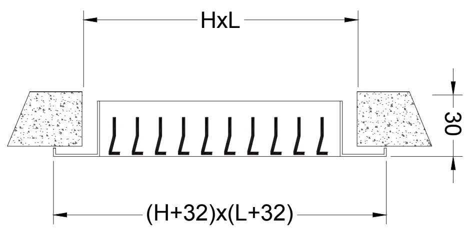
Model **6LS-1.** Linear grille with fixed blades at 0º.
Model **6LS-2.** Linear grille with fixed blades at 20º.
Model **6LS-R.** Linear grille with fixed fins at 45º. For return.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016. Other colours available on request.

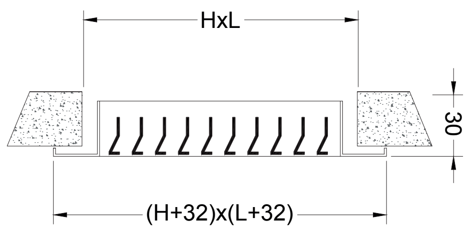
Fixing systems:
- **(C)** Clip (estándar)
- **(T)** Visible screw (optional)
  Hole dimensions (L-7) x (H-7)
- **(P)** Concealed screw fixing (optional))

Accessories:
- **(MM)** Aluminum mounting frame
  Shaft dimensions (L+7) x (H+7)
- **(X)** Regulating damper, with horizontal blades parallel to level L. CRX model.
- **(Z)** Regulating damper, with vertical blades parallel to dimension H. CRZ model.

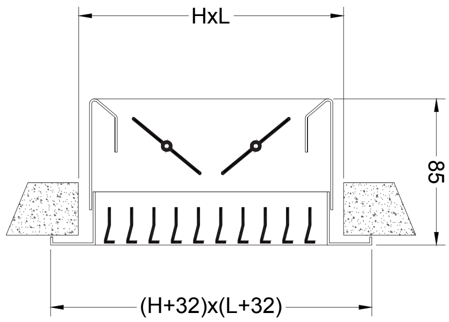
6LS-1



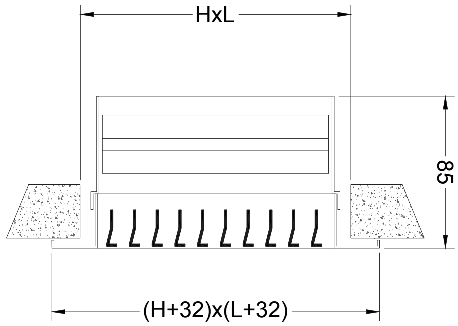
6LS-2



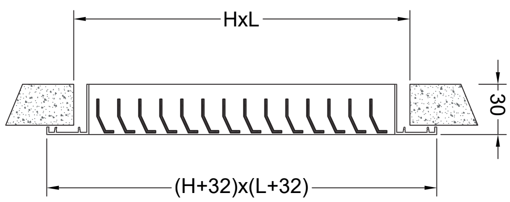
6LSX-_



6LSZ-_



6LS-R



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	350	400	500	600	700	800	900	1000	>1000
H	50	75	100	125	150	200	250	300	350	400		

Grille of L>1000 in sections of 2000 maximum

6L SERIES
6LD-1 - 6LD-2

DOUBLE DEFLECTION LINEAR GRILLE

Model **6LD-1.** Linear grille with fixed blades at 0º with double deflection.
Model **6LD-2.** Linear grille with fixed blades at 20º with double deflection.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016. Other colours available on request.

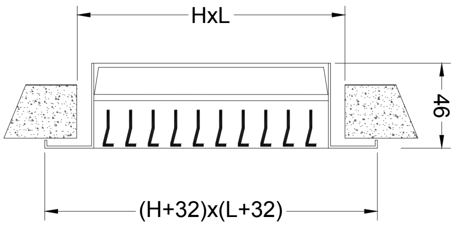
Fixing systems:

- **(C)** Clip (estándar)
- **(T)** Visible screw (optional)
  Hole dimensions (L-7) x (H-7)
- **(P)** Concealed screw fixing (optional))

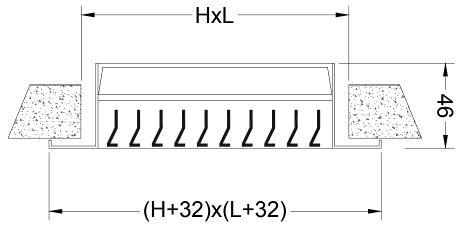
Accessories:

- **(MM)** Aluminum mounting frame
  Shaft dimensions (L+7) x (H+7)
- **(X)** Regulating damper, with horizontal blades parallel to level L. CRX model.
- **(Z)** Regulating damper, with vertical blades parallel to dimension H. CRZ model.

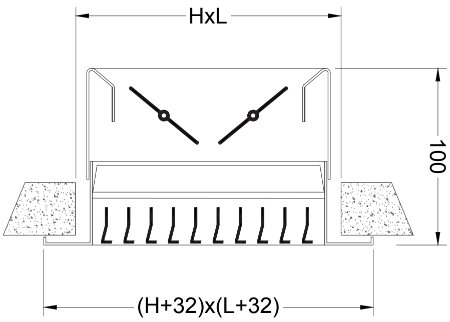
6LD-1



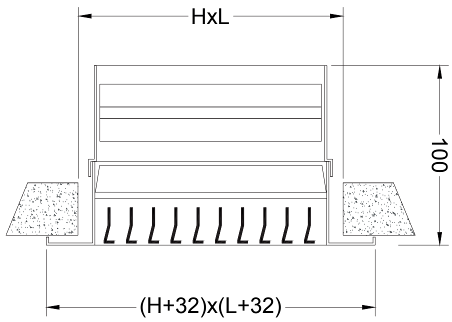
6LD-2



6LDX-_



6LDZ-_

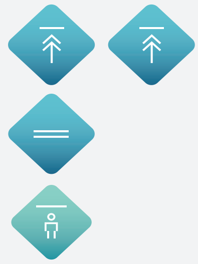


STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	350	400	500	600	700	800	900	1000
H	100	150	200	250	300						

6L SERIES
6LR-1 - 6LR-2 - 6LR-R

REDUCED FRAME LINEAR GRILLE



Model **6LR-1.** Linear grille with fixed blades at 0º with reduced frame.
Model **6LR-2.** Linear grille with fixed blades at 20º with reduced frame
Model **6LR-R.** Linear grille with fixed blades at 45º, with reduced frame. For return.

Suitable for installation on 13 to 20mm laminated plaster ceilings.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

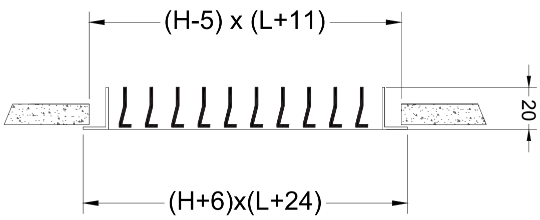
Fixing systems:

(C) Clip (estándar)
(T) Visible screw (optional)
Hole dimensions (L-7) x (H-7)
(P) Concealed screw fixing (optional))

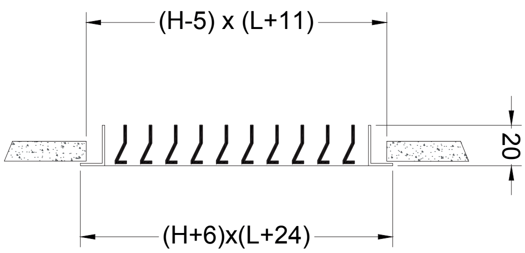
Accessories:

(Z) Regulating damper, with vertical blades parallel to dimension H. CRZ model.

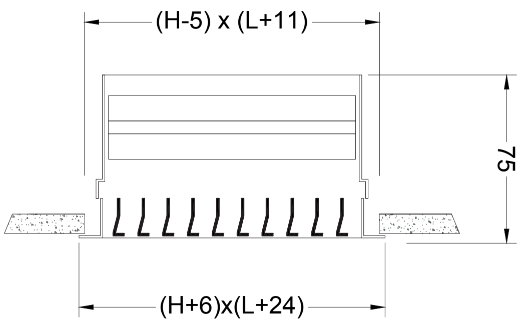
6LR-1



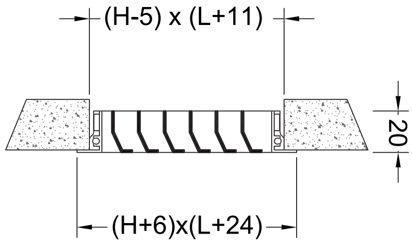
6LR-2



6LRZ



6LR-R



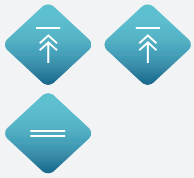
STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	350	400	500	600	700	800	900	1000	>1000
H	50	75	100	125	150	200	250	300				

Grille of L>1000 in sections of 2000 maximum

6L SERIES
6LO-1 - 6LO-2 - 6LO-R

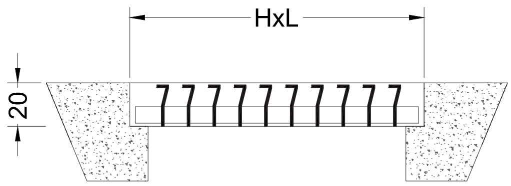
LINEAR GRILLE WITHOUT PERIMETER FRAME



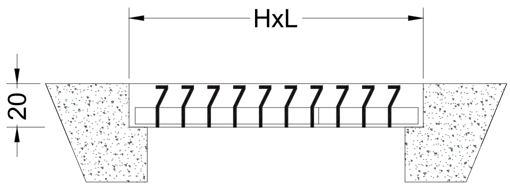
Model **6LO-1.** Linear grille with fixed blades at 0º without perimeter frame.
Model **6LO-2.** Linear grille with fixed blades at 20º without perimeter frame.
Model **6LO-R.** Linear grille with fixed blades at 45º without perimeter frame. For return.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

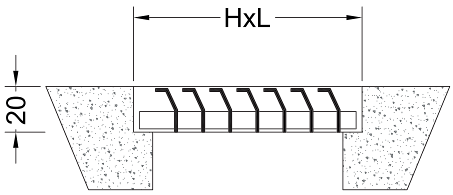
6LO-1



6LO-2



6LO-R



STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	350	400	500	600	700	800	900	1000	>1000
H	50	75	100	125	150	200	250	300				

Grilles up to L=2000

6L SERIES
6LS-6LD
6LR-6LO
SELECTION TABLE

Legend:
LxH = Dimensions in mmxmm
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
X = Range in m. for final speed 0.25 m/s with ceiling effect.
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

	LxH	200x50	200x75 300x50	250x75 400x50	200x100 300x75 500x50	200x150 300x100 700x50	200x200 400x100 900x50	350X125 450x100 1000x50	250x200 400x125 500x100 700x75	450x150 700x100 1000x75	500x200 800x125 1000x100	350x350 600x200 800x150 1000x125
Q (m^3/h) (l/s)	Ak	0,004	0,006	0,008	0,010	0,014	0,019	0,021	0,024	0,034	0,048	0,062
100 27,8	Vk X Pt LwA	6,9 5,5 37 27	4,6 4,5 16 19	3,5 3,9 8 13	2,8 3,5 5 9	2,0 2,9 3 2	1,5 2,5 1					
150 41,7	Vk X Pt LwA		6,9 6,7 37 28	5,2 5,8 20 23	4,2 5,2 12 18	3,0 4,4 6 12	2,2 3,8 3 6	2,0 3,6 3 4	1,7 3,4 2 1	1,2 2,8 1		
200 55,6	Vk X Pt LwA			6,9 7,7 37 30	5,6 6,9 23 25	4,0 5,9 11 19	2,9 5,0 6 13	2,6 4,8 5 11	2,3 4,5 4 8	1,6 3,8 2 1		
250 69,4	Vk X Pt LwA				6,9 8,7 37 31	5,0 7,3 18 24	3,7 6,3 9 18	3,3 6,0 8 16	2,9 5,6 6 13	2,0 4,7 3 6	1,4 4,0 1	
300 83,3	Vk X Pt LwA				8,3 10,4 55 35	6,0 8,8 27 28	4,4 7,5 14 22	4,0 7,2 11 20	3,5 6,7 8 18	2,5 5,6 4 11	1,7 4,7 2 4	1,3 4,2 1
350 97,2	Vk X Pt LwA					6,9 10,2 37 32	5,1 8,8 19 26	4,6 8,4 16 24	4,1 7,8 12 21	2,9 6,6 6 15	2,0 5,5 3 8	1,6 4,9 2 3
400 111,1	Vk X Pt LwA					7,9 11,7 49 35	5,8 10,1 26 29	5,3 9,6 21 27	4,6 8,9 16 25	3,3 7,5 7 18	2,3 6,3 4 11	1,8 5,6 2 6
450 125,0	Vk X Pt LwA					8,9 13,2 64 38	6,6 11,3 33 32	6,0 10,8 27 30	5,2 10,1 20 27	3,7 8,5 10 21	2,6 7,1 5 14	2,0 6,3 3 9
500 138,9	Vk X Pt LwA						7,3 12,6 41 35	6,6 12,0 33 33	5,8 11,2 25 30	4,1 9,4 12 23	2,9 7,9 6 16	2,2 7,0 3 11
550 152,8	Vk X Pt LwA						8,0 13,8 51 37	7,3 13,1 41 35	6,4 12,3 31 32	4,5 10,3 15 25	3,2 8,7 7 19	2,5 7,7 4 14
600 166,7	Vk X Pt LwA						8,8 15,1 61 39	7,9 14,3 49 37	6,9 13,4 37 34	4,9 11,3 18 27	3,5 9,5 8 21	2,7 8,3 5 16
650 180,6	Vk X Pt LwA							8,6 15,5 59 39	7,5 14,5 44 36	5,3 12,2 21 29	3,8 10,3 10 23	2,9 9,0 6 18
700 194,4	Vk X Pt LwA							9,3 16,7 69 41	8,1 15,7 52 38	5,7 13,1 25 31	4,1 11,1 12 24	3,1 9,7 7 19
750 208,3	Vk X Pt LwA							9,9 17,9 80 42	8,7 16,8 60 40	6,1 14,1 28 33	4,3 11,9 14 26	3,4 10,4 8 21
800 222,2	Vk X Pt LwA								9,3 17,9 69 41	6,5 15,0 33 34	4,6 12,6 16 28	3,6 11,1 9 23
850 236,1	Vk X Pt LwA								9,8 19,0 78 43	6,9 16,0 37 36	4,9 13,4 18 29	3,8 11,8 10 24
900 250,0	Vk X Pt LwA									7,4 16,9 42 37	5,2 14,2 20 30	4,0 12,5 12 25
950 263,9	Vk X Pt LwA									7,8 17,8 47 38	5,5 15,0 23 32	4,3 13,2 13 27
1000 277,8	Vk X Pt LwA									8,2 18,8 53 40	5,8 15,8 25 33	4,5 13,9 15 28

6L SERIES
6LS-6LD
6LR-6LO
SELECTION TABLE

	41 /50 dB(A)
	31 /40 dB(A)
	21 /30 dB(A)
	≤ 20 dB(A)

	LxH	450x150 700x100 1000x75	500x200 800x125 1000x100	350x350 600x200 800x150 1000x125	500x300 600x250 1000x150	500x400 800x250 1000x200	500x500 700x350 1000x250	600X500 1000x300	700X500 1000X350	800X500 1000X400	1000X500	1000X600
Q (m³/h) (l/s)	Ak	0,034	0,048	0,062	0,076	0,103	0,131	0,158	0,186	0,213	0,268	0,323
1100 305,6	Vk X Pt LwA	9,0 20,7 64 42	6,4 17,4 31 35	4,9 15,3 18 30	4,0 13,8 12 26	3,0 11,9 6 20	2,3 10,5 4 15	1,9 9,6 2 12	1,6 8,8 2 9	1,4 8,3 1 6	1,1 7,4 1 1	
1200 333,3	Vk X Pt LwA	9,8 22,5 78 44	6,9 19,0 37 37	5,4 16,7 21 32	4,4 15,1 14 28	3,2 13,0 7 22	2,5 11,5 4 18	2,1 10,5 3 14	1,8 9,6 2 11	1,6 9,0 2 8	1,2 8,0 1 4	
1300 361,1	Vk X Pt LwA		7,5 20,6 44 39	5,8 18,1 25 34	4,8 16,3 16 30	3,5 14,0 9 24	2,8 12,4 5 20	2,3 11,3 3 16	1,9 10,4 2 13	1,7 9,8 2 10	1,3 8,7 1 5	1,1 7,9 1 2
1400 388,9	Vk X Pt LwA		8,1 22,1 52 41	6,3 19,5 30 36	5,1 17,6 19 32	3,8 15,1 10 26	3,0 13,4 6 21	2,5 12,2 4 18	2,1 11,2 3 14	1,8 10,5 2 12	1,5 9,4 1 7	1,2 8,5 1 4
1500 416,7	Vk X Pt LwA		8,7 23,7 60 43	6,7 20,9 35 38	5,5 18,8 22 34	4,0 16,2 12 28	3,2 14,4 7 23	2,6 13,1 5 19	2,2 12,0 3 16	2,0 11,3 2 13	1,6 10,0 2 9	1,3 9,1 1 5
1600 444,4	Vk X Pt LwA		9,3 25,3 69 44	7,2 22,3 40 39	5,8 20,1 26 35	4,3 17,3 13 29	3,4 15,3 8 24	2,8 13,9 5 21	2,4 12,9 4 18	2,1 12,0 3 15	1,7 10,7 2 10	1,4 9,8 1 7
1800 500,0	Vk X Pt LwA			8,1 25,0 51 42	6,6 22,6 33 38	4,9 19,4 17 32	3,8 17,2 10 27	3,2 15,7 7 24	2,7 14,5 5 20	2,3 13,5 4 18	1,9 12,0 2 13	1,5 11,0 1 10
2000 555,6	Vk X Pt LwA			9,0 27,8 64 45	7,3 25,1 41 41	5,4 21,6 22 35	4,2 19,1 13 30	3,5 17,4 9 26	3,0 16,1 6 23	2,6 15,0 5 20	2,1 13,4 3 16	1,7 12,2 2 12
2250 625,0	Vk X Pt LwA				8,2 28,3 53 43	6,1 24,3 28 37	4,8 21,5 17 33	4,0 19,6 11 29	3,4 18,1 8 26	2,9 16,9 6 23	2,3 15,1 4 19	1,9 13,7 2 15
2500 694,4	Vk X Pt LwA				9,1 31,4 67 46	6,7 27,0 35 40	5,3 23,9 21 35	4,4 21,8 14 32	3,7 20,1 10 28	3,3 18,8 7 26	2,6 16,7 5 21	2,1 15,2 3 17
2750 763,9	Vk X Pt LwA					7,4 29,7 43 42	5,8 26,3 26 37	4,8 24,0 17 34	4,1 22,1 12 31	3,6 20,6 9 28	2,9 18,4 6 23	2,4 16,8 4 20
3000 833,3	Vk X Pt LwA					8,1 32,4 51 44	6,4 28,7 31 40	5,3 26,1 21 36	4,5 24,1 15 33	3,9 22,5 11 30	3,1 20,1 7 26	2,6 18,3 4 22
3250 902,8	Vk X Pt LwA					8,8 35,1 61 46	6,9 31,1 37 41	5,7 28,3 24 38	4,9 26,1 17 35	4,2 24,4 13 32	3,4 21,7 8 27	2,8 19,8 5 24
3500 972,2	Vk X Pt LwA					9,4 37,8 72 48	7,4 33,5 43 43	6,2 30,5 29 40	5,2 28,1 20 36	4,6 26,3 15 34	3,6 23,4 9 29	3,0 21,3 6 26
3750 1041,7	Vk X Pt LwA					10,1 40,5 83 50	8,0 35,9 50 45	6,6 32,7 33 41	5,6 30,1 23 38	4,9 28,1 18 35	3,9 25,1 11 31	3,2 22,9 7 27
4000 1111,1	Vk X Pt LwA						8,5 38,3 57 46	7,0 34,9 38 43	6,0 32,1 27 40	5,2 30,0 20 37	4,1 26,8 12 32	3,4 24,4 8 29

DAMPER OPENING

	WITHOUT REGULATION	100%	50%	25%
Pt	x0,5	x1	x2	x5
LwA	+3	+0	+7	+12

BLADE INCLINATION SECOND DEFLECTION

	0º	30º	45º
$X_{0,25}$	x1	x0,8	x0,5

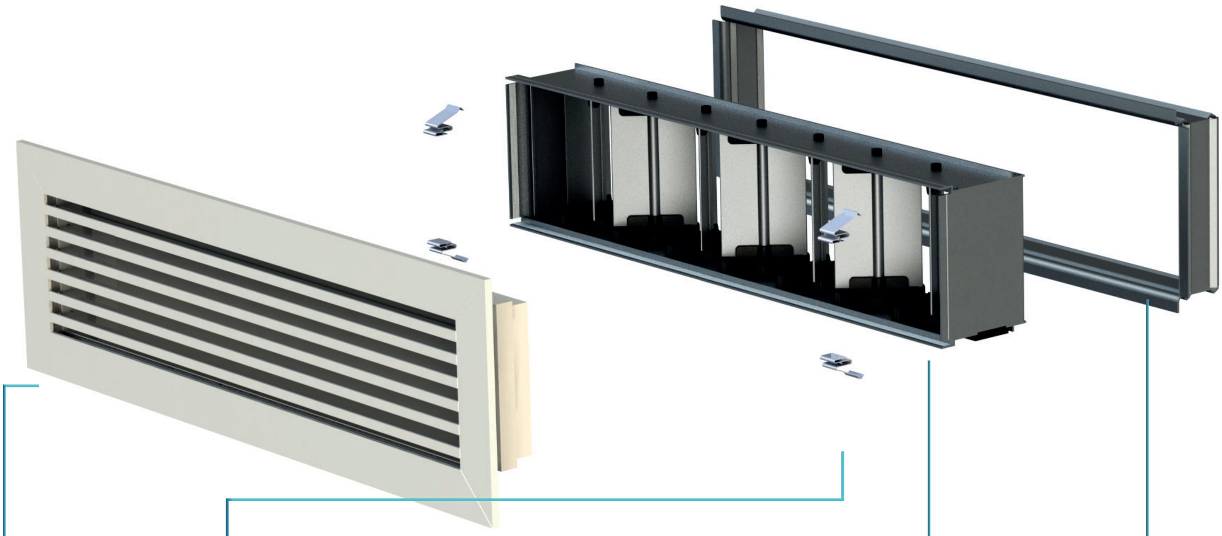
6L SERIES
6LS-6LD
6LR-6LO
ORDER FORM

DESCRIPTION

Linear grille with fixed blades at 0º, type 6LS-1. Control damper (CRX) with horizontal blades parallel to the L level, fixed by means of clips (C) with dimensions LxH and finish in white lacquer similar to RAL 9016.

Order form:

6LS	X-1	C	LxH	BL



Linear series:

6LS-1 - 6LS-2 - 6LS-R
6LD-1 - 6LD-2
6LR-1 - 6LR-2 - 6LR-R
6LO-1 - 6LO-2 - 6LO-R

Fixing systems:

(C) Clip (standard)
(T) Visible screw (optional)
(P) Concealed screw fixing (optional)

Control damper:

(X) Control damper, horizontal blades parallel to the L dimension. Type CRX
(Z) Volume control damper, vertical blades parallel to H. Type CRZ.

Mounting frame:

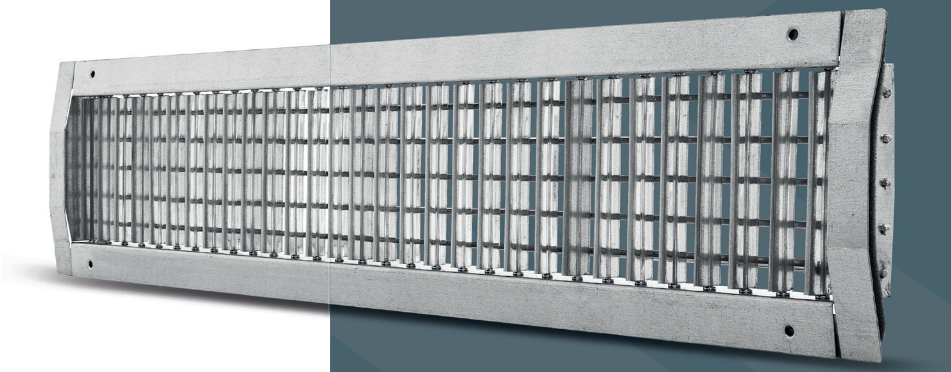
(MM) Aluminium mounting frame.

Dimensions (LxH):
(L) Length (mm)
(H) Height (mm)

Finish:
(AL) Matt silver anodised aluminium
(BL) White lacquer aluminium

* See specifications and adaptable accessories in the description of each model.


Solutions



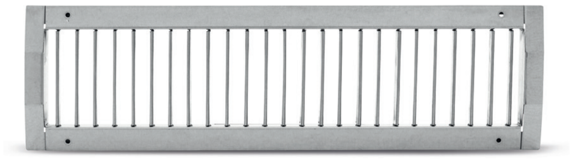
CIRCULAR DUCT
1 SERIES

1SC Single deflection duct grille. Constructed in galvanised steel
1DC Double deflection duct grille. Constructed in galvanised steel

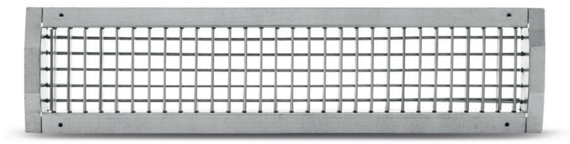
CIRCULAR DUCT

SAMOVENT® TECHNIK

DIFUSIÓN Y VENTILACIÓN



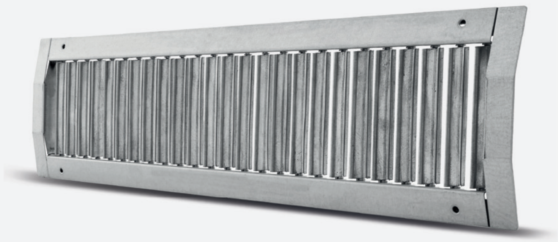
1SC



1DC

1 SERIES SC - DC

CIRCULAR DUCT GRILLE



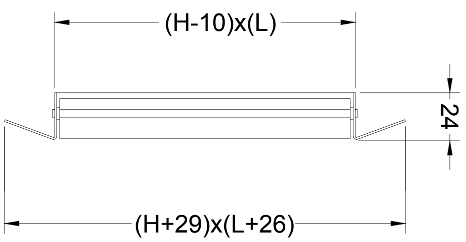
Model 1SC. Circular duct grille with individually adjustable vertical blades in single deflection.
Model 1DC. Circular duct grille with adjustable vertical blades on 1st deflection and horizontal blades on 2nd deflection.

Constructed in galvanised steel, grey lacquer.

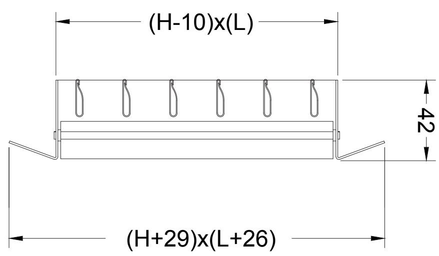
Fixing systems:
Front fixing by exposed screw

Accessories:
(K) Damper (angled slide cover)

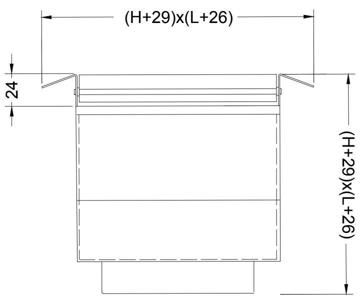
1SC



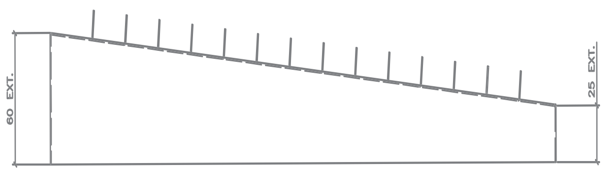
1DC



1SC



K



STANDARDIZED NOMINAL DIMENSIONS

L	425	525	625
H	75	125	225

DUCT

	H 75	H 125	H 225
MIN.	Ø 200	Ø 315	Ø 600
MAX.	Ø 400	Ø 900	Ø 1400

1 SERIES 1SC

SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
X = Range in m. for final speed 0.25 m/s with ceiling effect.
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

- 41 /50 dB(A)
- 31 /40 dB(A)
- 21 /30 dB(A)
- ≤ 20 dB(A)

	LxH	425x75	525x75	625x75	425x125	525x125	625x125	425x225	525x225	625x225
Q (m^3/h) (l/s)	Ak	0,018	0,022	0,026	0,034	0,043	0,051	0,068	0,085	0,099
250	Vk	3,9	3,2	2,7	2,0	1,6	1,4			
69,4	X	5,2	4,7	4,3	3,8	3,3	3,1			
	Pt	5	4	3	2	1	1			
	LwA	19	14	11	5					
300	Vk	4,6	3,8	3,2	2,5	1,9	1,6			
83,3	X	6,2	5,6	5,2	4,5	4,0	3,7			
	Pt	8	5	4	2	1	1			
	LwA	23	19	16	10	5	1			
400	Vk	6,2	5,1	4,3	3,3	2,6	2,2	1,6		
111,1	X	8,3	7,5	6,9	6,0	5,4	4,9	4,3		
	Pt	14	9	7	4	2	2	1		
	LwA	31	27	23	17	12	8	2		
500	Vk	7,7	6,3	5,3	4,1	3,2	2,7	2,0		
138,9	X	10,4	9,4	8,6	7,5	6,7	6,2	5,3		
	Pt	21	14	10	6	4	3	2		
	LwA	37	32	29	23	18	14	8		
600	Vk	9,3	7,6	6,4	4,9	3,9	3,3	2,5	2,0	
166,7	X	12,4	11,2	10,3	9,0	8,0	7,4	6,4	5,7	
	Pt	31	21	15	9	5	4	2	1	
	LwA	42	37	34	28	23	19	13	8	
800	Vk			8,5	6,5	5,2	4,4	3,3	2,6	2,2
222,2	X			13,8	12,1	10,7	9,8	8,5	7,6	7,1
	Pt			26	15	10	7	4	2	2
	LwA			41	35	30	26	20	15	12
1000	Vk				8,2	6,5	5,4	4,1	3,3	2,8
277,8	X				15,1	13,4	12,3	10,7	9,5	8,8
	Pt				24	15	11	6	4	3
	LwA				41	36	32	26	21	18
1200	Vk					7,8	6,5	4,9	3,9	3,4
333,3	X					16,1	14,8	12,8	11,4	10,6
	Pt					22	15	9	6	4
	LwA					41	37	31	26	23
1500	Vk						8,2	6,1	4,9	4,2
416,7	X						18,5	16,0	14,3	13,2
	Pt						24	14	9	6
	LwA						43	37	32	28
1800	Vk							7,4	5,9	5,1
500,0	X							19,2	17,1	15,9
	Pt							19	12	9
	LwA							41	36	33
2000	Vk							8,2	6,5	5,6
555,6	X							21,3	19,1	17,7
	Pt							24	15	11
	LwA							44	39	36
2250	Vk								7,4	6,3
635,0	X								21,4	19,9
	Pt								19	14
	LwA								42	39
2500	Vk								8,2	7,0
694,4	X								23,8	22,1
	Pt								24	18
	LwA								45	42
3000	Vk									8,4
833,3	X									26,5
	Pt									26
	LwA									46

BLADE INCLINATION

	0º	30º	45º
$X_{0,25}$	x1	x0,8	x0,5

CORRECTION Pt (Pa)
DAMPER OPENING

Vk(m/s)	100%	50%	25%
2	x 5,2	x 9,6	x 16,6
4	x 5,8	x 11,2	x 19,3
6	x 6,3	x 12,9	x 22,0
8	x 6,9	x 14,5	x 24,7
10	x 7,4	x 16,1	x 27,4

CORRECTION LwA
DAMPER OPENING

Vk(m/s)	100%	50%	25%
2	+ 14	+ 23	+ 26
4	+ 16	+ 25	+ 29
6	+ 18	+ 27	+ 31
8	+ 20	+ 29	+ 34
10	+ 22	+ 31	+ 37

1 SERIES 1DC

SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
X = Range in m. for final speed 0.25 m/s with ceiling effect.
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

41 /50 dB(A)
31 /40 dB(A)
21 /30 dB(A)
≤ 20 dB(A)

	LxH	425x75	525x75	625x75	425x125	525x125	625x125	425x225	525x225	625x225
Q (m³/h) (l/s)	Ak	0,015	0,018	0,020	0,026	0,033	0,039	0,052	0,064	0,075
250 69,4	Vk X Pt LwA	4,6 5,7 8 23	3,9 5,2 5 19	3,5 4,9 4 16	2,7 4,3 3 11	2,1 3,8 2 6	1,8 3,5 1 2			
300 83,3	Vk X Pt LwA	5,6 6,8 11 27	4,6 6,2 8 23	4,2 5,9 6 21	3,2 5,2 4 16	2,5 4,6 2 10	2,1 4,2 2 7			
400 111,1	Vk X Pt LwA	7,4 9,1 20 35	6,2 8,3 14 31	5,6 7,9 11 29	4,3 6,9 7 23	3,4 6,1 4 18	2,8 5,6 3 14	2,1 4,9 2 8		
500 138,9	Vk X Pt LwA	9,3 11,3 31 41	7,7 10,4 21 37	6,9 9,8 17 35	5,3 8,6 10 29	4,2 7,6 6 24	3,6 7,0 5 20	2,7 6,1 3 14		
600 166,7	Vk X Pt LwA	11,1 13,6 44 46	9,3 12,4 31 42	8,3 11,8 25 39	6,4 10,3 15 34	5,1 9,2 9 28	4,3 8,4 7 25	3,2 7,3 4 19	2,6 6,6 2 14	
800 222,2	Vk X Pt LwA		12,3 16,6 55 49	11,1 15,7 44 47	8,5 13,8 26 41	6,7 12,2 16 36	5,7 11,3 12 32	4,3 9,7 7 26	3,5 8,8 4 21	3,0 8,1 3 18
1000 277,8	Vk X Pt LwA				10,7 17,2 41 47	8,4 15,3 26 42	7,1 14,1 18 38	5,3 12,2 10 32	4,3 11,0 7 27	3,7 10,1 5 24
1200 333,3	Vk X Pt LwA					10,1 18,3 37 46	8,5 16,9 26 43	6,4 14,6 15 37	5,2 13,2 10 32	4,4 12,2 7 29
1500 416,7	Vk X Pt LwA					10,7 21,1 41 49	9,3 19,6 31 46	8,0 18,3 23 42	6,5 16,5 15 38	5,6 15,2 11 34
1800 500,0	Vk X Pt LwA							9,6 21,9 33 47	7,8 19,8 22 43	6,7 18,3 16 39
2000 555,6	Vk X Pt LwA							10,7 24,4 41 50	8,7 22,0 27 45	7,4 20,3 20 42
2250 635,0	Vk X Pt LwA								9,8 24,7 34 48	8,3 22,8 25 45
2500 694,4	Vk X Pt LwA								10,9 27,5 42 51	9,3 25,4 31 48
3000 833,3	Vk X Pt LwA									11,1 30,4 44 52

BLADE INCLINATION

	0°/ 0°	30°/ 30°	45°/ 45°
$X_{0,25}$	x1	x0,8	x0,5

CORRECTION Pt (Pa) DAMPER OPENING

Vk(m/s)	100%	50%	25%
2	x 5,2	x 9,6	x 16,6
4	x 5,8	x 11,2	x 19,3
6	x 6,3	x 12,9	x 22,0
8	x 6,9	x 14,5	x 24,7
10	x 7,4	x 16,1	x 27,4

CORRECTION LwA DAMPER OPENING

Vk(m/s)	100%	50%	25%
2	+ 14	+ 23	+ 26
4	+ 16	+ 25	+ 29
6	+ 18	+ 27	+ 31
8	+ 20	+ 29	+ 34
10	+ 22	+ 31	+ 37

1 SERIES
1SC - 1DC

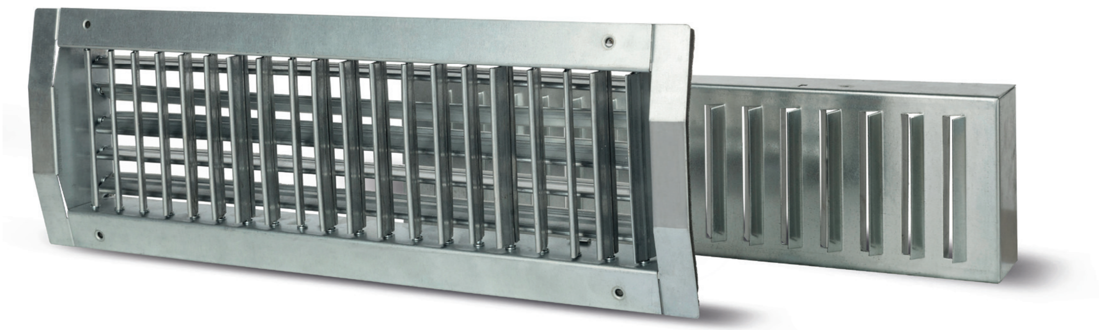
ORDER FORM

DESCRIPTION

Circular duct grille with individually adjustable vertical blades in single deflection, type 1SC. Damper (angled slide cover) (K). Fixing by means of visible screw, size LxH and finished in grey lacquer steel plate.

Order form:

1SC	LxH	K



Duct series:

1SC
1DC

Control damper:

(K) Damper (angled slide cover)

Fixing systems:

Fixing by visible screw to ducts from Ø200mm to Ø1400mm

Dimensions (LxH):
(L) Length (mm)
(H) Height (mm)

Finish:
(CH) Sheet steel grey lacquer

* See specifications and adaptable accessories in the description of each model.

LINEAR SLOTS DIFFUSERS
DL SERIES

DLN1 Linear slot diffuser, without movable deflectors
DLN2 Linear slot diffuser, with movable deflectors
DLE1 Narrow frame linear slot diffuser, without movable deflectors
DLE2 Narrow frame linear slot diffuser, with movable deflectors
DLO Hidden linear diffuser

SAMOVENT® TECHNIK

DIFUSIÓN Y VENTILACIÓN

DLN1

DLN2

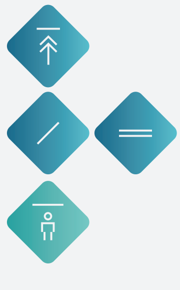
DLE1

DLE2

DLO

DL SERIES
DLN-1 - DLE1

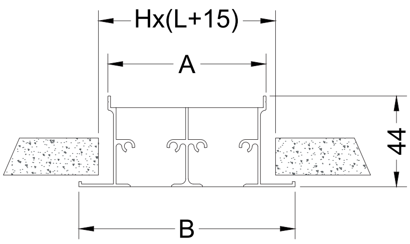
LINEAR SLOT DIFFUSER, WITHOUT MOVABLE DEFLECTORS



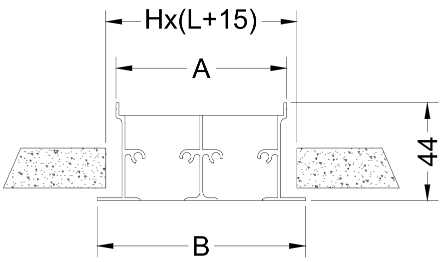
Model DLN1.	Linear slot diffuser, without movable deflectors.
Model DLN1-PL.	Linear slot diffuser, without movable deflectors and with (intake plenum).
Model DLE1.	Narrow frame linear slot diffuser, without movable deflectors.
Model DLE1-PL.	Narrow frame linear slot diffuser, without movable deflectors and with (intake plenum).

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016. Other colours available on request.

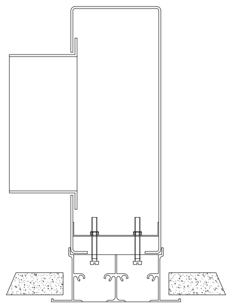
DLN1



DLE1



DL_1-PL



STANDARDIZED NOMINAL DIMENSIONS

L	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
VÍAS	1	2	3	4												

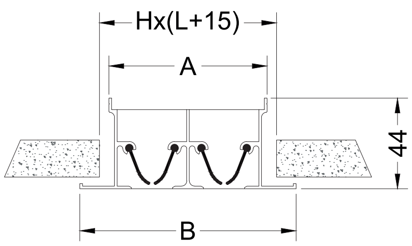
DL SERIES
DLN-2 - DLE2

LINEAR SLOT DIFFUSER WITH MOVABLE DEFLECTORS

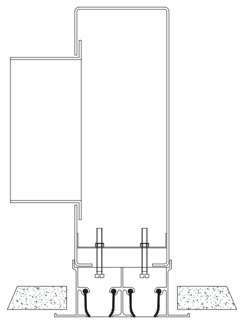
Model DLN2. Linear slot diffuser, with individually adjustable movable deflectors.
Model DLN2-PL. Linear slot diffuser, with individually adjustable movable deflectors and with intake plenum.
Model DLE2. Narrow frame linear slot diffuser, with individually adjustable movable deflectors.
Model DLE2-PL. Narrow frame linear slot diffuser, with individually adjustable movable deflectors and with intake plenum.

Made of extruded aluminium. Standard finish in matt silver anodised or white lacquer similar to RAL 9016.
Other colours available on request.

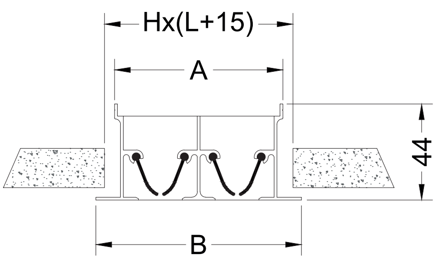
DLN2



DL_2-PL



DLE2



STANDARDIZED NOMINAL DIMENSIONS

L	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
VÍAS	1	2	3	4												

DL SERIES
DLN - DLE

LINEAR SLOT DIFFUSER

Fixing systems:

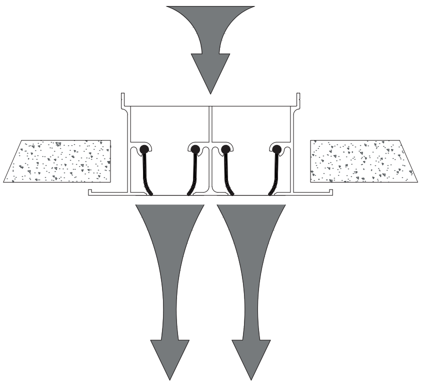
(PM) Mounting brackets with screw fixing.

Accesories:

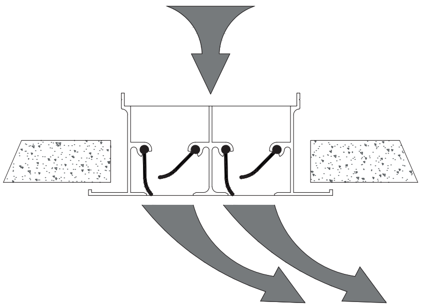
(PL) Plenum box with circular connection on the side. Includes brackets for ceiling mounting.

(PLA) Acoustically-isolated plenum box with circular connection on the side, includes brackets for ceiling mounting.

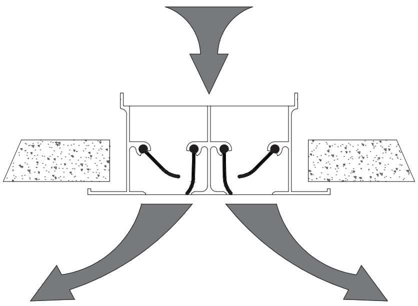
DL_2
Vertical discharge



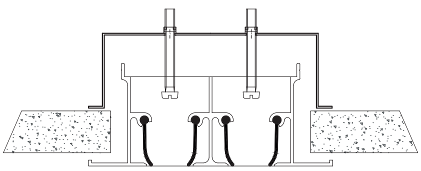
DL_2
One direction horizontal discharge



DL_2
Two directions horizontal discharge

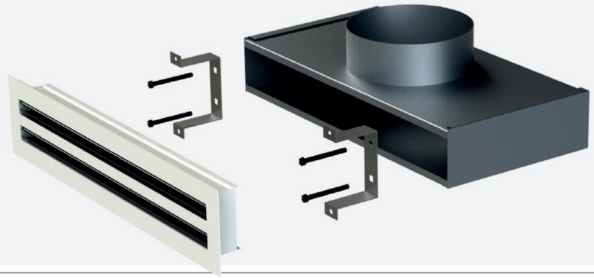


PM
Mounting bracket



DL SERIES
DLN - DLE

LINEAR SLOT DIFFUSER

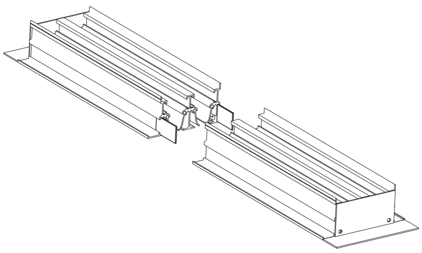


Finish:

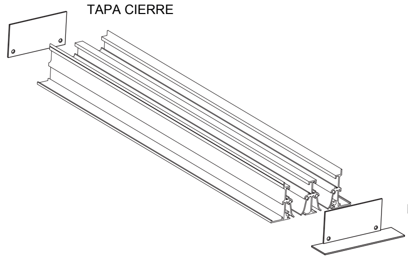
(AL) Matt silver anodised aluminium mate

(BL) White lacquer aluminium

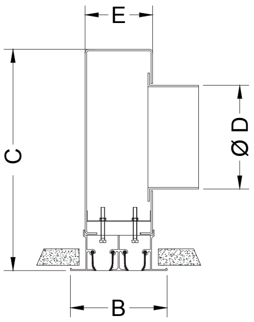
DL
Section connection

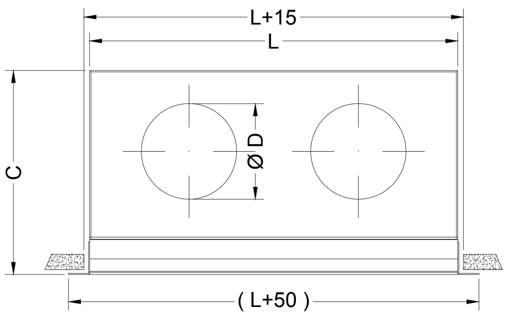


DL
Closure



PL - PLA
Plenum box





							L < 1500		L ≥1500	
	A	B		C	E	H	Nº Spigot	ØD	Nº Spigot	ØD
		DLN	DLE							
1 Slot	42	70	56	224	42	55	1	124	2	124
2 Slots	77	105	91	259	77	90	1	159	2	159
3 Slots	112	140	126	299	113	125	1	199	2	199
4 Slots	147	175	161	349	147	160	1	249	2	199

DL SERIES
DLN - DLE

SELECTION TABLE

Legend:
Q = Flow rate
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

> 41 dB(A)
31 /40 dB(A)
21 /30 dB(A)
≤ 20 dB(A)

RETURN

Q (m³/h) (l/s)	L x Nº SLOTS / Ak	500x1 vía	500x2 vías 1000x1 vía	500x3 vías 1500x1 vía	500x4 vías 1000x2 vías 2000x1 vía	1000x3 vías 1500x2vías	1000x4 vías 2000x2vías	1500x3 vías	1500x4 vías 2000x3vías	2000x4vías
	Ak	**0,01**	**0,02**	**0,03**	**0,04**	**0,06**	**0,08**	**0,09**	**0,12**	**0,16**
100 27,8	Vk Pt LwA	2,8 5 12	1,4 1 5							
150 41,7	Vk Pt LwA	4,2 11 22	2,1 3 10	1,4 1 7						
200 55,6	Vk Pt LwA	5,6 19 31	2,8 5 15	1,9 2 10						
250 69,4	Vk Pt LwA	6,9 30 40	3,5 8 20	2,3 4 14	1,7 2 11					
300 83,3	Vk Pt LwA	8,3 42 48	4,2 11 25	2,8 5 17	2,1 3 13	1,4 1 10				
350 97,2	Vk Pt LwA		4,9 15 29	3,2 7 20	2,4 4 16	1,6 2 11	1,2 1 10			
400 111,1	Vk Pt LwA		5,6 19 34	3,7 9 23	2,8 5 18	1,9 2 13	1,4 1 11	1,2 1 10		
500 138,9	Vk Pt LwA		6,9 30 43	4,6 14 29	3,5 8 23	2,3 4 17	1,7 2 14	1,5 2 13	1,2 1 11	0,9 1 10
600 166,7	Vk Pt LwA		8,3 42 51	5,6 19 36	4,2 11 28	2,8 5 20	2,1 3 16	1,9 2 15	1,4 1 13	1,0 1 11
700 194,4	Vk Pt LwA			6,5 26 41	4,9 15 32	3,2 7 23	2,4 4 19	2,2 3 17	1,6 2 14	1,2 1 13
800 222,2	Vk Pt LwA			7,4 34 47	5,6 19 37	3,7 9 26	2,8 5 21	2,5 4 19	1,9 2 16	1,4 1 14
900 250,0	Vk Pt LwA			8,3 42 53	6,3 24 41	4,2 11 29	3,1 6 24	2,8 5 22	2,1 3 18	1,6 2 15
1000 277,8	Vk Pt LwA				6,9 30 46	4,6 14 32	3,5 8 26	3,1 6 24	2,3 4 20	1,7 2 17
1200 333,3	Vk Pt LwA				8,3 42 54	5,6 19 39	4,2 11 31	3,7 9 28	2,8 5 23	2,1 3 19
1500 416,7	Vk Pt LwA					6,9 30 47	5,2 17 38	4,6 14 34	3,5 8 28	2,6 4 23
1700 472,2	Vk Pt LwA					7,9 38 53	5,9 22 42	5,2 17 38	3,9 10 31	3,0 6 25
2000 555,6	Vk Pt LwA						6,9 30 49	6,2 24 44	4,6 14 35	3,5 8 29
2500 694,4	Vk Pt LwA							7,7 36 54	5,8 21 43	4,3 12 35

DL SERIES
DLN - DLE

SELECTION TABLE

Legend:
Q = Flow rate
Qi = Induced flow rate
Vk = Effective velocity in m/s
X = Reach in m. for final speed 0,25 m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

VERTICAL DISCHARGE

Data per linear metre of diffuser

	Vk	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50
	Pt	12	15	19	23	27	31	36	42	47	53	59
Nº SLOTS												
1	Q (m³/h)	113	128	142	156	170	184	198	213	227	241	255
	X (0,5)	1,3	1,5	1,7	1,9	2,0	2,2	2,4	2,5	2,7	2,9	3,0
	Qi (m³/h)	907	1148	1418	1715	2041	2396	2778	3189	3629	4097	4593
	X (0,25)	2,7	3,0	3,4	3,7	4,0	4,4	4,7	5,1	5,4	5,7	6,1
	LwA	29	32	35	37	40	42	45	47	50	52	54
2	Q (m³/h)	227	255	284	312	340	369	397	425	454	482	510
	X (0,5)	1,9	2,1	2,4	2,6	2,9	3,1	3,3	3,6	3,8	4,1	4,3
	Qi (m³/h)	1814	2296	2835	3430	4082	4791	5557	6379	7258	8193	9185
	X (0,25)	3,8	4,3	4,8	5,2	5,7	6,2	6,7	7,1	7,6	8,1	8,6
	LwA	32	35	38	40	43	45	48	50	53	55	57
3	Q (m³/h)	340	383	425	468	510	553	595	638	680	723	765
	X (0,5)	2,3	2,6	2,9	3,2	3,5	3,8	4,1	4,4	4,7	5,0	5,3
	Qi (m³/h)	2722	3445	4253	5146	6124	7187	8335	9568	10886	12290	13778
	X (0,25)	4,7	5,3	5,8	6,4	7,0	7,6	8,2	8,8	9,3	9,9	10,5
	LwA	34	37	40	42	45	47	50	52	54	57	59
4	Q (m³/h)	454	510	567	624	680	737	794	851	907	964	1021
	X (0,5)	2,7	3,0	3,4	3,7	4,0	4,4	4,7	5,1	5,4	5,7	6,1
	Qi (m³/h)	3629	4593	5670	6861	8165	9582	11113	12758	14515	16386	18371
	X (0,25)	5,4	6,1	6,7	7,4	8,1	8,8	9,4	10,1	10,8	11,5	12,1
	LwA	35	38	41	43	46	48	51	53	56	58	60

RANGE CORRECTION

	Isothermal flow	Hot air discharge Vertical	
ΔTº(ti-ta)	0	+5	+10
Alcance X	1	x0,75	x0,65

SOUND POWER CORRECTIVE FACTOR ACCORDING TO LENGTH

LENGTH	500	1000	1500	2000
LwA	-3	0	+2	+3

SERIE DL
DLN - DLE

SELECTION TABLE

Legend:
Q = Flow rate
Qi = Induced flow rate
e = Vein thickness at Reach X (0.5)
Vk = Effective velocity in m/s
X = Reach in metres for final velocity in m/s with ceiling effect
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)
Pc = Critical point in m.
C = Drop in m.

ONE WAY HORIZONTAL DISCHARGE

Data per linear metre of diffuser

	Vk	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	8,00
	Pt	5	7	10	13	16	20	24	28	33	38	50
Nº SLOTS												
1	Q (m^3/h)	63	75	88	100	113	125	138	150	163	175	200
	X (0,5)	1,3	1,5	1,8	2,1	2,3	2,6	2,8	3,1	3,3	3,6	4,1
	Qi (m^3/h)	626	901	1226	1601	2027	2502	3027	3603	4228	4904	6405
	X (0,25)	2,6	3,1	3,6	4,1	4,6	5,1	5,7	6,2	6,7	7,2	82
	e	0,1	0,1	0,2	0,2	0,2	0,2	0,3	0,3	0,3	0,3	0,4
	LwA	18	21	24	27	29	32	34	36	394139	41	45
2	Q (m^3/h)	125	150	175	200	225	250	275	300	325	350	400
	X (0,5)	1,8	2,2	2,5	2,9	3,3	3,6	4,0	4,4	4,7	5,1	5,8
	Qi (m^3/h)	1251	1801	2452	3203	4053	5004	6055	7206	8457	9808	12810
	X (0,25)	3,6	4,4	5,1	5,8	6,5	7,3	8,0	8,7	9,5	10,2	11,6
	e	0,2	0,2	0,2	0,3	0,3	0,3	0,4	0,4	0,4	0,5	0,6
	LwA	21	24	27	30	32	35	37	39	42	44	48
3	Q (m^3/h)	188	225	263	300	338	375	413	450	488	525	600
	X (0,5)	2,2	2,7	3,1	3,6	4,0	4,5	4,9	5,3	5,8	6,2	7,1
	Qi (m^3/h)	1877	2702	3678	4804	6080	7506	9082	10809	12685	14712	19215
	X (0,25)	4,5	5,3	6,2	7,1	8,0	8,9	9,8	10,7	11,6	12,5	14,3
	e	0,2	0,3	0,3	0,3	0,4	0,4	0,5	0,5	0,6	0,6	0,7
	LwA	23	26	29	31	34	36	39	41	43	46	50
4	Q (m^3/h)	250	300	350	400	450	500	550	600	651	701	801
	X (0,5)	2,6	3,1	3,6	4,1	4,6	5,1	5,7	6,2	6,7	7,2	8,2
	Qi (m^3/h)	2502	3603	4904	605	8106	10008	12110	14412	16914	19616	25620
	X (0,25)	5,1	6,2	7,2	8,2	9,3	10,3	11,3	12,3	13,4	14,4	16,5
	e	0,2	0,3	0,3	0,4	0,4	0,5	0,5	0,6	0,6	0,7	0,8
	LwA	24	27	30	33	35	38	40	42	45	47	51

TWO WAY HORIZONTAL AIR SUPPLY

Data per linear metre of diffuser

	Vk	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	8,00
	Pt	5	7	10	13	16	20	24	28	33	38	50
Nº SLOTS												
2	Q (m3/h)	125	150	175	200	225	250	275	300	325	350	400
	X (0,5)	1,3	1,5	1,8	2,1	2,3	2,6	2,8	3,1	3,3	3,6	4,1
	Qi (m3/h)	626	901	1226	1601	2027	2502	3027	3603	4228	4904	6405
	X (0,25)	2,6	3,1	3,6	4,1	4,6	5,1	5,7	6,2	6,7	7,2	8,2
	e	0,1	0,1	0,2	0,2	0,2	0,2	0,3	0,3	0,3	0,3	0,4
	LwA	21	24	27	30	32	35	37	39	42	44	48
4	Q (m^3/h)	250	300	350	400	450	500	550	600	651	701	801
	X (0,5)	1,8	2,2/0,2	2,5/0,3	2,9/0,3	3,3/0,4	3,6/0,4	4,0/0,4	4,4/0,5	4,7/0,5	5,1/0,6	5,8/0,6
	Qi (m^3/h)	1251	1801	2452	3203	4053	5004	6055	7206	8457	9808	12810
	X (0,25)	3,6	4,4	5,1	5,8	6,5	7,3	8,0	8,7	9,5	10,2	11,6
	e	0,2	0,2	0,2	0,3	0,3	0,3	0,4	0,4	0,4	0,5	0,6
	LwA	24	27	30	33	35	38	40	42	45	47	51

SERIE DL
DLN - DLE

SELECTION TABLE

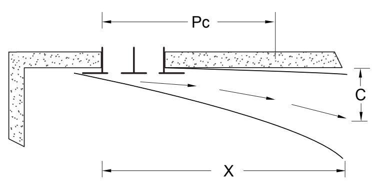
HORIZONTAL DISCHARGE - COLD AIR SUPPLY - Critical point (Pc) and air drop (C)

Nº SLOTS	ΔT°(ti-ta) / Q (m^3/h)	-4° Pc (m)	-4° C (m)	-6° Pc (m)	-6° C (m)	-8° Pc (m)	-8° C (m)	-10° Pc (m)	-10° C (m)	-12° Pc (m)	-12° C (m)	-14° Pc (m)	-14° C (m)
1	63	2,6	0,0	2,1	0,0	1,8	0,0	1,6	0,1	1,5	0,1	1,4	0,2
	75	3,1	0,0	2,5	0,0	2,2	0,0	1,9	0,1	1,8	0,2	1,6	0,2
	88	3,6	0,0	2,9	0,0	2,5	0,0	2,3	0,1	2,1	0,2	1,9	0,3
	100	4,1	0,0	3,3	0,0	2,9	0,0	2,6	0,1	2,4	0,2	2,2	0,3
	113	4,6	0,0	3,8	0,0	3,3	0,1	2,9	0,1	2,7	0,2	2,5	0,4
	125	5,1	0,0	4,2	0,0	3,6	0,1	3,2	0,1	3,0	0,3	2,7	0,4
	138	5,6	0,0	4,6	0,0	4,0	0,1	3,6	0,2	3,3	0,3	3,0	0,4
	150	6,1	0,0	5,0	0,0	4,3	0,1	3,9	0,2	3,5	0,3	3,3	0,5
	163	6,7	0,0	5,4	0,0	4,7	0,1	4,2	0,2	3,8	0,3	3,6	0,5
	175	7,2	0,0	5,9	0,0	5,1	0,1	4,5	0,2	4,1	0,4	3,8	0,6
	200	8,2	0,0	6,7	0,0	5,8	0,1	5,2	0,2	4,7	0,4	4,4	0,6
2	125	3,0	0,0	2,5	0,1	2,2	0,1	1,9	0,3	1,8	0,5	1,6	0,6
	150	3,7	0,0	3,0	0,1	2,6	0,2	2,3	0,3	2,1	0,5	2,0	0,8
	175	4,3	0,0	3,5	0,1	3,0	0,2	2,7	0,4	2,5	0,6	2,3	0,9
	200	4,9	0,0	4,0	0,1	3,4	0,2	3,1	0,5	2,8	0,7	2,6	1,0
	225	5,5	0,0	4,5	0,1	3,9	0,3	3,5	0,5	3,2	0,8	2,9	1,2
	250	6,1	0,0	5,0	0,1	4,3	0,3	3,9	0,6	3,5	0,9	3,3	1,3
	275	6,7	0,0	5,5	0,1	4,7	0,3	4,2	0,6	3,9	1,0	3,6	1,4
	300	7,3	0,0	6,0	0,1	5,2	0,4	4,6	0,7	4,2	1,1	3,9	1,6
	325	7,9	0,0	6,5	0,1	5,6	0,4	5,0	0,7	4,6	1,2	4,2	1,7
	350	8,5	0,0	7,0	0,1	6,0	0,4	5,4	0,8	4,9	1,3	4,6	1,8
	400	9,7	0,0	8,0	0,2	6,9	0,5	6,2	0,9	5,6	1,5	5,2	2,1
3	188	3,4	0,0	2,8	0,1	2,4	0,3	2,1	0,6	1,9	0,9	1,8	1,2
	225	4,0	0,0	3,3	0,2	2,9	0,4	2,6	0,7	2,3	1,1	2,2	1,5
	263	4,7	0,0	3,9	0,2	3,3	0,5	3,0	0,8	2,7	1,2	2,5	1,7
	300	5,4	0,0	4,4	0,2	3,8	0,5	3,4	0,9	3,1	1,4	2,9	2,0
	338	6,1	0,0	5,0	0,2	4,3	0,6	3,8	1,1	3,5	1,6	3,2	2,2
	375	6,7	0,0	5,5	0,3	4,8	0,7	4,3	1,2	3,9	1,8	3,6	2,4
	413	7,4	0,1	6,1	0,3	5,2	0,7	4,7	1,3	4,3	1,9	4,0	2,7
	450	8,1	0,1	6,6	0,3	5,7	0,8	5,1	1,4	4,7	2,1	4,3	2,9
	488	8,8	0,1	7,2	0,4	6,2	0,9	5,5	1,5	5,1	2,3	4,7	3,2
	525	9,4	0,1	7,7	0,4	6,7	0,9	6,0	1,6	5,5	2,5	5,0	3,4
	600	10,8	0,1	8,8	0,4	7,6	1,1	6,8	1,9	6,2	2,8	5,8	3,9
4	250	3,6	0,1	3,0	0,3	2,6	0,6	2,3	0,9	2,1	1,4	1,9	1,9
	300	4,3	0,1	3,5	0,3	3,1	0,7	2,7	1,1	2,5	1,7	2,3	2,2
	350	5,1	0,1	4,1	0,4	3,6	0,8	3,2	1,3	2,9	1,9	2,7	2,6
	400	5,8	0,1	4,7	0,4	4,1	0,9	3,7	1,5	3,3	2,2	3,1	3,0
	450	6,5	0,1	5,3	0,5	4,6	1,0	4,1	1,7	3,8	2,5	3,5	3,4
	500	7,2	0,1	5,9	0,5	5,1	1,1	4,6	1,9	4,2	2,8	3,9	3,7
	550	8,0	0,1	6,5	0,6	5,6	1,2	5,0	2,1	4,6	3,0	4,3	4,1
	600	8,7	0,1	7,1	0,6	6,1	1,3	5,5	2,3	5,0	3,3	4,6	4,5
	651	9,4	0,1	7,7	0,7	6,7	1,4	6,0	2,4	5,4	3,6	5,0	4,9
	701	10,1	0,2	8,3	0,7	7,2	1,6	6,4	2,6	5,9	3,9	5,4	5,2
	801	11,6	0,2	9,5	0,8	8,2	1,8	7,3	3,0	6,7	4,4	6,2	6,0

SOUND POWER CORRECTION FACTOR ACCORDING TO LENGTH

LENGTH	500	1000	1500	2000
LwA	-3	0	+2	+3

CRITICAL POINT AND AIR DROP



RANGE CORRECTION

	Isothermal flow	Hot air supply Vertical discharge	
ΔT°(ti-ta)	0	-5	-10
Alcance X	1	x0,85	x0,75

LINEAR SLOTS DIFFUSERS

DL SERIES
DLO

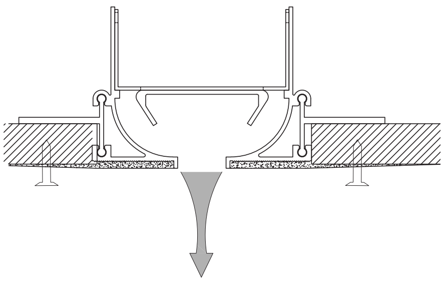
HIDDEN LINEAR DIFFUSER

Model **DLO.** Linear, movable slot diffuser.
Model **DLO-PL.** Linear diffuser, moving slot with inlet plenum box.

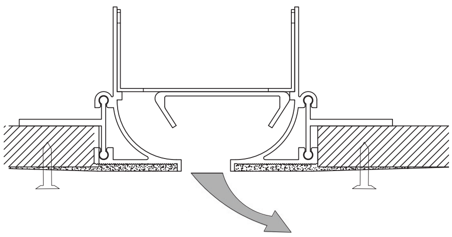
Selectable slots:
Width 15
Width 20
Width 30

Manufactured in extruded aluminum.
Standard finishes in matt black or white lacquer similar to RAL 9016.

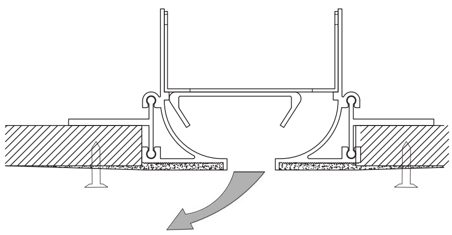
DLO
Vertical drive



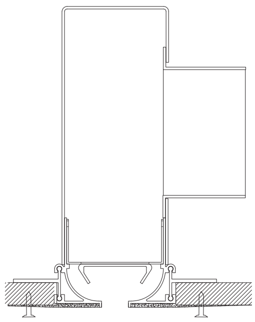
DLO
Horizontal drive one direction



DLO
Horizontal drive one direction



DLO
Plenum



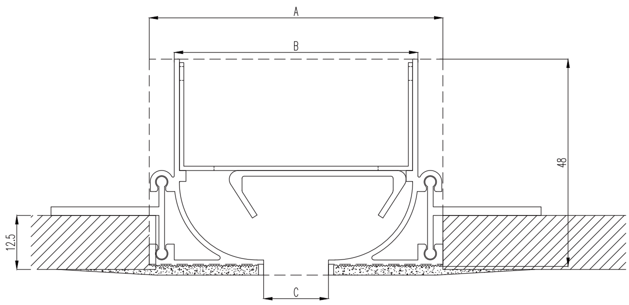
STANDARDIZED NOMINAL DIMENSIONS

L	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
WIDTH	15	20	30													

DL SERIES
DLO

TECHNICAL DATA

DLO
Assembly group



	A	B	C
15	68	57	15
20	73	62	20
30	83	72	30

DL SERIES DLO

SELECTION TABLE

Legend:
Q (m³/h)= Flow rate
Pt(Pa) = Pressure drop in Pa
y (m): Maximum vertical penetration of the air stream for a thermal jump of ΔT = 10ºC
Al(0,5) and Al(0,25) = Reaches for isothermal airflows
Qi (m3/h) = Induced flow rate (m3/h)
LwA: Sound power level in dB(A)

VERTICAL DISCHARGE

Data per linear metre of diffuser

Width	Vk	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50
15	Q (m³/h)	72	81	90	99	108	117	126	135	144	153	162
	Pt(Pa)	4	5	7	8	10	11	13	15	17	20	22
	y (m)	1,2	1,4	1,5	1,7	1,8	2	2,1	2,3	2,4	2,6	2,7
	Al (0,5)	0,9	1	1,2	1,3	1,4	1,5	1,6	1,7	1,9	2	2,1
	Qi (m3/h)	576	729	900	1089	1296	1521	1764	2025	2304	2601	2916
	Al (0,25)	1,9	2,1	2,3	2,6	2,8	3	3,3	3,5	3,7	4	4,2
	LwA	18	20	23	25	27	29	30	32	33	35	36

Width	Vk	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50
20	Q (m³/h)	108	122	135	149	162	176	189	203	216	230	243
	Pt(Pa)	7	9	11	14	16	19	22	25	29	33	37
	y (m)	1,3	1,5	1,7	1,8	2	2,2	2,3	2,5	2,7	2,8	3
	Al (0,5)	1,1	1,3	1,4	1,6	1,7	1,9	2	2,1	2,3	2,4	2,6
	Qi (m3/h)	576	729	900	1089	1296	1521	1764	2025	2304	2601	2916
	Al (0,25)	2,3	2,6	2,9	3,1	3,4	3,7	4	4,3	4,6	4,9	5,1
	LwA	20	23	25	28	30	32	33	35	36	38	39

Width	Vk	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50
30	Q (m³/h)	180	203	225	248	270	293	315	338	360	383	405
	Pt(Pa)	8	10	13	16	19	22	25	29	33	38	42
	y (m)	1,5	1,7	1,9	2,1	2,3	2,5	2,7	2,9	3	3,2	3,4
	Al (0,5)	1,5	1,7	1,8	2	2,2	2,4	2,6	2,8	2,9	3,1	3,3
	Qi (m3/h)	1440	1823	2250	2723	3240	3803	4410	5063	5760	6503	7290
	Al (0,25)	2,9	3,3	3,7	4,1	4,4	4,8	5,2	5,5	5,9	6,3	6,6
	LwA	25	28	31	33	35	37	39	40	42	43	45

RANGE CORRECTION

	Isothermal flow	Hot air supply Vertical discharge	
ΔTº(ti-ta)	0	+5	+10
Alcance X	1	x0,75	x0,65

DL SERIES
DLO

SELECTION TABLE

HORIZONTAL DISCHARGE (ONE WAY)

Data per linear metre of diffuser

Width	Vk	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50
15	Q (m³/h)	90	108	126	144	162	180	198	216	234	252	270
	Pt(Pa)	8	12	17	22	28	34	41	49	58	67	77
	Al (0,5)	1,6	1,9	2,2	2,5	2,9	3,2	3,5	3,8	4,1	4,4	4,8
	Qi (m3/h)	900	1296	1764	2304	2916	3600	4356	5184	6084	7056	8100
	Al(0,25) corr	2,4	2,9	3,3	3,8	4,3	4,8	5,2	5,7	6,2	6,7	7,1
	Al (0,25)	3,2	3,8	4,4	5,1	5,7	6,3	7	7,6	8,2	8,9	9,5
	e (m)	0,2	0,2	0,2	0,2	0,3	0,3	0,3	0,4	0,4	0,4	0,5
	LwA	24	28	32	36	39	41	44	46	48	50	51

Width	Vk	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50
20	Q (m³/h)	135	162	189	216	243	270	297	324	351	378	405
	Pt(Pa)	11	16	21	28	36	44	54	64	75	87	100
	Al (0,5)	1,9	2,3	2,7	3,1	3,5	3,9	4,3	4,7	5	5,4	5,8
	Qi (m3/h)	900	1296	1764	2304	2916	3600	4356	5184	6084	7056	8100
	Al(0,25) corr	2,9	3,5	4,1	4,7	5,2	5,8	6,4	7	7,6	8,2	8,7
	Al (0,25)	3,9	4,7	5,4	6,2	7	7,8	8,5	9,3	10,1	10,9	11,6
	e (m)	0,2	0,2	0,3	0,3	0,3	0,4	0,4	0,4	0,5	0,5	0,6
	LwA	27	32	35	38	41	44	46	48	50	52	53

Width	Vk	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50
30	Q (m³/h)	225	270	315	360	405	450	495	540	585	630	675
	Pt(Pa)	16	23	31	40	51	63	76	90	106	123	141
	Al (0,5)	2,4	2,8	3,3	3,8	4,3	4,7	5,2	5,7	6,1	6,6	7,1
	Qi (m3/h)	900	1296	1764	2304	2916	3600	4356	5184	6084	7056	8100
	Al(0,25) corr	3,5	4,3	5	5,7	6,4	7,1	7,8	8,5	9,2	9,9	10,6
	Al (0,25)	4,7	5,7	6,6	7,6	8,5	9,5	10,4	11,3	12,3	13,2	14,2
	e (m)	0,2	0,3	0,3	0,4	0,4	0,4	0,5	0,5	0,6	0,6	0,7
	LwA	30	34	38	41	44	46	49	51	52	54	56

DL SERIES DLO

SELECTION TABLE

Legend:
Q (m³/h)= Flow rate
Pt(Pa) = Pressure drop in Pa
y (m): Maximum vertical penetration of the air stream for a thermal jump of ΔT = 10ºC
Al(0,5) and Al(0,25) = Reaches for isothermal airflows
Qi (m3/h) = Induced flow rate (m3/h)
LwA: Sound power level in dB(A)

HORIZONTAL DISCHARGE - COLD AIR SUPPLY - CRITICAL POINT (Pc) AND AIR DROP (C)

Data per lineal metre of diffuser

	Vk	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50
Width 15	Ak(m²)	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010
	Q (m³/h)	90	108	126	144	162	180	198	216	234	252	270
	XVx(0,25)	3,2	3,8	4,4	5,1	5,7	6,3	7,0	7,6	8,2	8,9	9,5
ΔT (ºC) 4	Pc (m)	2,2	2,6	3,1	3,5	4	4,4	4,8	5,3	5,7	6,2	6,6
	Xcaida	1	1,2	1,4	1,5	1,7	1,9	2,1	2,3	2,5	2,7	2,9
	C (m)	0	0	0	0	0	0	0,1	0,1	0,1	0,1	0,1
ΔT (ºC) 6	Pc (m)	1,8	2,2	2,5	2,9	3,2	3,6	4	4,3	4,7	5	5,4
	Xcaida	1,4	1,6	1,9	2,2	2,5	2,7	3	3,3	3,6	3,8	4,1
	C (m)	0,1	0,1	0,1	0,2	0,2	0,2	0,2	0,3	0,3	0,3	0,3
ΔT (ºC) 8	Pc (m)	1,6	1,9	2,2	2,5	2,8	3,1	3,4	3,7	4,1	4,4	4,7
	Xcaida	1,6	1,9	2,3	2,6	2,9	3,2	3,5	3,9	4,2	4,5	4,8
	C (m)	0,2	0,3	0,3	0,4	0,4	0,5	0,5	0,5	0,6	0,6	0,7
ΔT (ºC) 10	Pc (m)	1,4	1,7	2	2,2	2,5	2,8	3,1	3,3	3,6	3,9	4,2
	Xcaida	1,8	2,1	2,5	2,8	3,2	3,6	3,9	4,3	4,6	5	5,3
	C (m)	0,4	0,5	0,5	0,6	0,7	0,8	0,8	0,9	1	1,1	1,1

	Vk	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50
Width 20	Ak(m²)	0,015	0,015	0,015	0,015	0,015	0,015	0,015	0,015	0,015	0,015	0,015
	Q (m³/h)	135	162	189	216	243	270	297	324	351	378	405
	XVx(0,25)	3,9	4,7	5,4	6,2	7,0	7,8	8,5	9,3	10,1	10,9	11,6
ΔT (ºC) 4	Pc (m)	2,4	2,9	3,4	3,9	4,4	4,9	5,4	5,9	6,3	6,8	7,3
	Xcaida	1,4	1,7	2	2,3	2,6	2,9	3,2	3,5	3,8	4	4,3
	C (m)	0,1	0,1	0,1	0,1	0,1	0,1	0,1	0,2	0,2	0,2	0,2
ΔT (ºC) 6	Pc (m)	2	2,4	2,8	3,2	3,6	4	4,4	4,8	5,2	5,6	6
	Xcaida	1,9	2,3	2,6	3	3,4	3,8	4,2	4,5	4,9	5,3	5,7
	C (m)	0,2	0,3	0,3	0,4	0,4	0,4	0,5	0,5	0,6	0,6	0,7
ΔT (ºC) 8	Pc (m)	1,7	2,1	2,4	2,8	3,1	3,4	3,8	4,1	4,5	4,8	5,2
	Xcaida	2,2	2,6	3	3,5	3,9	4,3	4,7	5,2	5,6	6	6,5
	C (m)	0,4	0,5	0,6	0,7	0,8	0,9	1	1,1	1,2	1,2	1,3
ΔT (ºC) 10	Pc (m)	1,5	1,9	2,2	2,5	2,8	3,1	3,4	3,7	4	4,3	4,6
	Xcaida	2,3	2	2,3	2,6	2,9	3,3	3,6	3,9	4,2	4,6	4,9
	C (m)	0,7	0,8	1	1,1	1,3	1,4	1,6	1,7	1,8	2	2,1

	Vk	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50
Width 30	Ak(m²)	0,025	0,025	0,025	0,025	0,025	0,025	0,025	0,025	0,025	0,025	0,025
	Q (m³/h)	225	270	315	360	405	450	495	540	585	630	675
	XVx(0,25)	4,7	5,7	6,6	7,6	8,5	9,5	10,4	11,3	12,3	13,2	14,2
ΔT (ºC) 4	Pc (m)	2,8	3,3	3,9	4,4	5	5,5	6,1	6,6	7,2	7,8	8,3
	Xcaida	2	2,3	2,7	3,1	3,5	3,9	4,3	4,7	5,1	5,5	5,9
	C (m)	0,1	0,2	0,2	0,2	0,2	0,3	0,3	0,3	0,3	0,4	0,4
ΔT (ºC) 6	Pc (m)	2,3	2,7	3,2	3,6	4,1	4,5	5	5,4	5,9	6,3	6,8
	Xcaida	2,5	3	3,5	3,9	4,4	4,9	5,4	5,9	6,4	6,9	7,4
	C (m)	0,4	0,5	0,5	0,6	0,7	0,8	0,8	0,9	1	1,1	1,1
ΔT (ºC) 8	Pc (m)	2	2,4	2,7	3,1	3,5	3,9	4,3	4,7	5,1	5,5	5,9
	Xcaida	2,8	3,3	3,9	4,4	5	5,5	6,1	6,6	7,2	7,8	8,3
	C (m)	0,7	0,9	1	1,2	1,3	1,4	1,6	1,7	1,9	2	2,2
ΔT (ºC) 10	Pc (m)	1,8	2,1	2,5	2,8	3,2	3,5	3,9	4,2	4,6	4,9	5,3
	Xcaida	3	1,7	2	2,3	2,6	2,8	3,1	3,4	3,7	4	4,3
	C (m)	1,1	1,3	1,6	1,8	2	2,2	2,5	2,7	2,9	3,1	3,4

DL SERIES
DLO

SELECTION TABLE

RETURN

Data per lineal metre of diffuser

Width	Vk	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
15	Q (m^3/h)	72	90	108	126	144	162	180	198	216	234	252
	Pt(Pa)	5	8	12	16	21	26	32	39	47	55	64
	LwA	18	23	27	31	34	36	39	41	43	45	46

Width	Vk	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
20	Q (m^3/h)	108	135	162	189	216	243	270	297	324	351	378
	Pt(Pa)	9	14	20	27	35	44	55	66	78	92	106
	LwA	24	30	34	38	41	44	46	48	50	52	54

Width	Vk	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
30	Q (m^3/h)	238	297	356	416	475	535	594	653	713	772	832
	Pt(Pa)	14	22	31	43	56	71	88	106	127	149	173
	LwA	24	30	34	38	41	44	47	49	51	53	55

DL SERIES
DLN - DLE - DLO

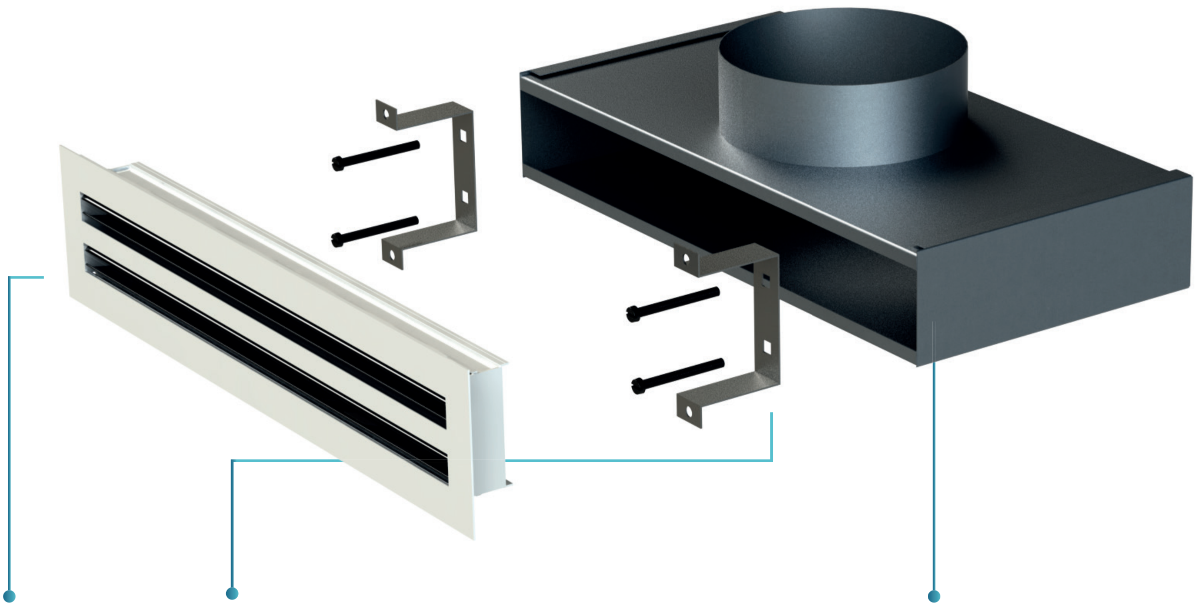
ORDER FORM

DESCRIPTION

Linear slot diffuser with movable deflectors, type DLN2 with isolated intake plenum (PLA). Dimensions LxNºslots and white lacquer finish, similar to RAL 9016.

Order form:

DLN2	PLA	LxNº vías	BL



Linear slots diffusers series:

DLN1
DLN2
DLE1
DLE2
DLO

Fixing systems:

(PM) Mounting brackets with screw fixing

(PL) Plenum box with circular side connection. Includes brackets for ceiling mounting.

(PLA) Insulated plenum box with circular side connection. Includes brackets for ceiling mounting.

Dimensions (LxH):

(L) Length (mm)
(H) Height (mm)

Finish:

(AL) Matt silver anodised aluminium
(BL) White lacquer aluminium

* See specifications and adaptable accessories in the description of each model.

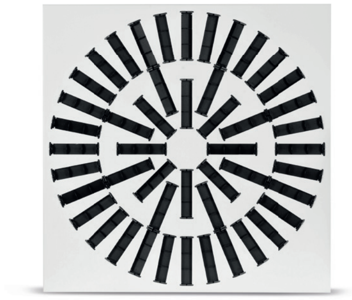

Solutions

SWIRL DIFFUSERS
D SERIES

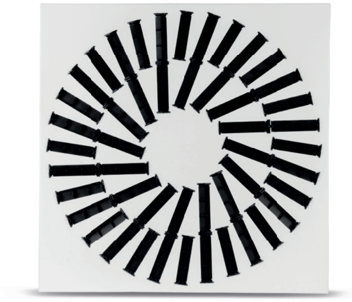
DRC	Swirl diffuser with movable blades
DRS	Spiral swirl diffuser with movable blades
DNC	Micro nozzle swirl diffuser, circular design
DPI-P	Perforated swirl diffuser
DFS-P	Spiral swirl diffuser with fixed blades
DGF-P	Fixed geometry swirl diffuser

SAMOVENT® TECHNIK

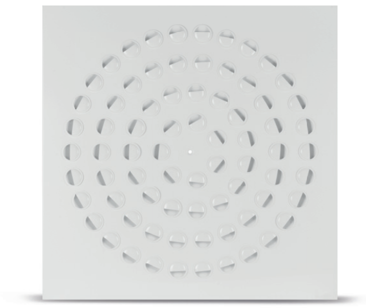
DIFUSIÓN Y VENTILACIÓN



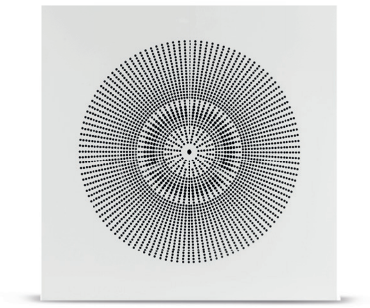
DRC



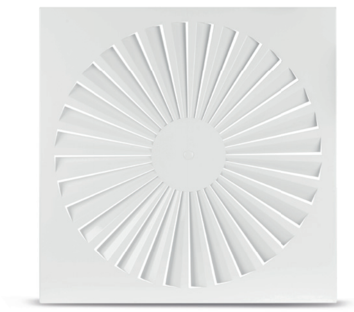
DRS



DNC



DPI-P

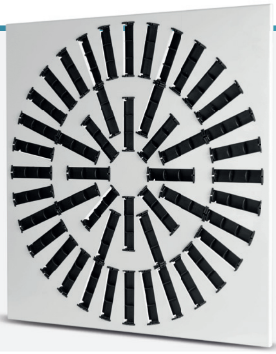


DFS-P

DGF-P

D SERIES
DRC - DRC-R

MOVABLE SWIRL DIFFUSER



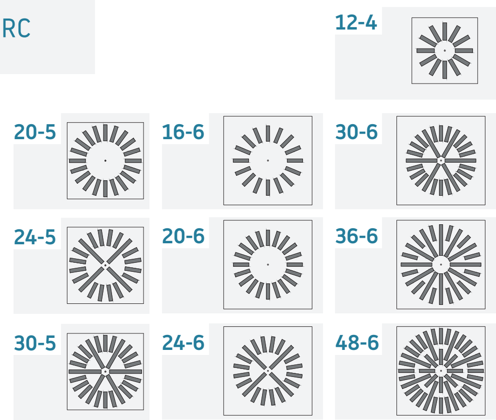
Model DRC. Swirl diffuser with individually adjustable movable blades.
Model DRC-R. Swirl diffuser with individually adjustable movable blades. Circular plate.

Standard plate finish, white lacquer similar to RAL 9016.
Made entirely of steel plate, with movable blades made of black plastic (white optional).
Other colours available on request.

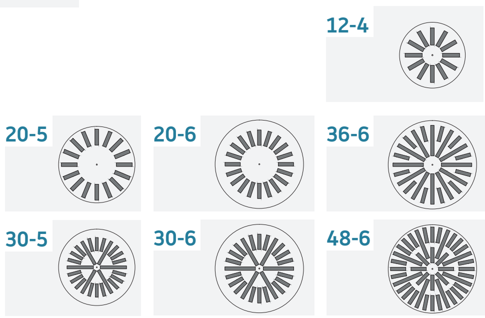
Fixing systems and accessories:

(PM)	Mounting brackets with screw fixing
(PPS-CR)	Polystyrene plenum box with duct connection and control damper
(PPS-K)	Polystyrene plenum box with duct connection, control damper and equalizer plate
(PCL) - (PCLR)	Steel plenum box with side connection
(PCS) - (PCSR)	Steel plenum box with top connection
(_- A)	Thermo-acoustic insulation for models PC_ and PC_R

DRC



DRC-R



STANDARDIZED NOMINAL DIMENSIONS

MODEL DRC	12-4	20-5	24-5	30-5	16-6	20-6	24-6	30-6	36-6	48-6
Size	395x395	495x495			595x595					
Ø Spigot	160	200	200	250	200	200	200	250	250	250
PLENUM	PCL / PCS									
PLENUM	PPS									

MODEL DRC-R	12-4	20-5	30-5	20-6	30-6	36-6	48-6
DIAMETER Ø	400	500		600			
Ø Spigot	160	200		250			
PLENUM	PCLR / PCSR						

D SERIES
DRS - DRS-R

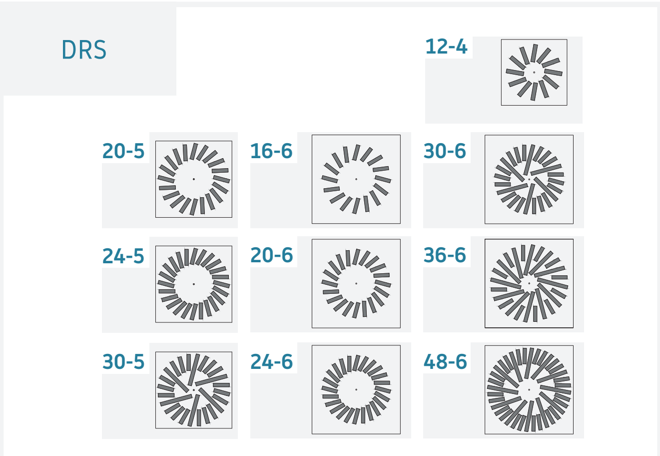
MOVABLE SPIRAL SWIRL DIFFUSER

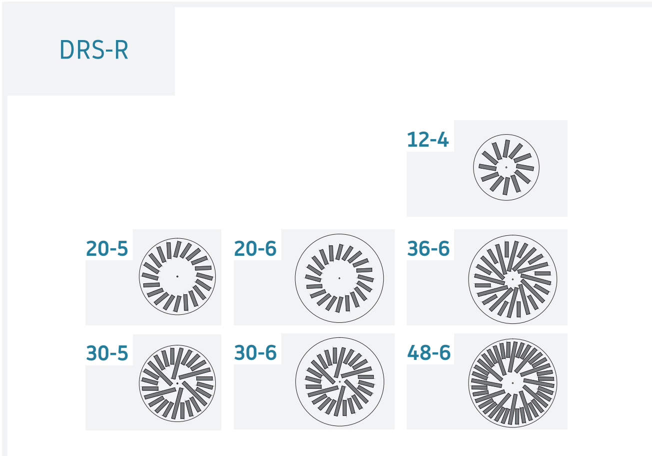
Model **DRS.** Spiral swirl diffuser, with individually adjustable movable blades.
Model **DRS-R.** Spiral swirl diffuser, with individually adjustable movable blades. Circular plate.

Standard plate finish, white lacquer similar to RAL 9016.
Made entirely of steel plate, with movable blades made of black plastic (white optional).
Other colours available on request.

Fixing systems and accessories:

(PM)	Mounting brackets with screw fixing
(PPS-CR)	Polystyrene plenum box with duct connection and control damper
(PPS-K)	Polystyrene plenum box with duct connection, control damper and equalizer plate
(PCL) - (PCLR)	Steel plenum box with side connection
(PCS) - (PCSR)	Steel plenum box with top connection
(_- A)	Thermo-acoustic insulation for models PC_ and PC_R





STANDARDIZED NOMINAL DIMENSIONS

MODEL DRS	12-4	20-5	24-5	30-5	16-6	20-6	24-6	30-6	36-6	48-6
Size	395x395	495x495			595x595					
Ø Spigot	160	200	200	250	200	200	200	250	250	250
PLENUM	PCL / PCS									
PLENUM	PPS									

MODEL DRS-R	12-4	20-5	30-5	20-6	30-6	36-6	48-6
DIAMETER Ø	400	500		600			
Ø Spigot	160	200		250			
PLENUM	PCLR / PCSR						

D SERIES
DRC - DRS

SELECTION TABLE

Legend:
Q = Flow rate
B = Distance between diffusers in m.
H = Height of installation of the diffusers in m.
Vz = Maximum velocity in occupied zone according to the distance between diffusers and the installation height in m/s.
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

HORIZONTAL DISCHARGE

	No. of slots		12			16			20			24			30			36			48		
Q (m^3/h) (l/s)	B		1,2	1,8	2,7	1,2	1,8	2,7	1,2	1,8	2,7	1,2	1,8	2,7	1,2	1,8	2,7	1,2	1,8	2,7	1,2	1,8	2,7
100 27,8	Vz	H = 2,7	0,15	0,12	0,10																		
		H = 3,2	0,11	0,10	0,08																		
		H = 3,8	0,09	0,08	0,07																		
	Pt		5																				
	LwA		7																				
200 55,6	Vz	H = 2,7	0,30	0,25	0,20	0,26	0,22	0,17	0,23	0,19	0,15												
		H = 3,2	0,22	0,19	0,16	0,19	0,17	0,14	0,17	0,15	0,13												
		H = 3,8	0,17	0,15	0,13	0,15	0,13	0,12	0,13	0,12	0,10												
	Pt		18			11			8														
	LwA		29			21			16														
300 83,3	Vz	H = 2,7	0,45	0,37	0,30	0,39	0,32	0,26	0,35	0,29	0,23	0,32	0,26	0,21									
		H = 3,2	0,34	0,29	0,24	0,29	0,25	0,21	0,26	0,23	0,19	0,24	0,21	0,17									
		H = 3,8	0,26	0,23	0,20	0,22	0,20	0,17	0,20	0,18	0,16	0,18	0,16	0,14									
	Pt		39			23			18			14											
	LwA		42			33			28			24											
400 111,1	Vz	H = 2,7	0,60	0,50	0,40	0,52	0,43	0,34	0,46	0,39	0,31	0,42	0,35	0,28	0,38	0,31	0,25						
		H = 3,2	0,45	0,39	0,33	0,39	0,34	0,28	0,35	0,30	0,25	0,32	0,28	0,23	0,28	0,25	0,21						
		H = 3,8	0,34	0,31	0,27	0,30	0,27	0,23	0,27	0,24	0,21	0,24	0,22	0,19	0,22	0,20	0,17						
	Pt		70			41			31			25			11								
	LwA		51			41			36			32			27								
500 138,9	Vz	H = 2,7				0,65	0,54	0,43	0,58	0,48	0,39	0,53	0,44	0,35	0,47	0,39	0,31	0,43	0,36	0,29			
		H = 3,2				0,48	0,42	0,35	0,43	0,38	0,32	0,40	0,34	0,29	0,35	0,31	0,26	0,32	0,28	0,24			
		H = 3,8				0,37	0,33	0,29	0,33	0,30	0,26	0,30	0,27	0,24	0,27	0,24	0,21	0,25	0,22	0,19			
	Pt					62			47			38			17			13					
	LwA					48			43			38			33			27					
600 166,7	Vz	H = 2,7							0,69	0,58	0,46	0,63	0,53	0,42	0,57	0,47	0,38	0,52	0,43	0,34	0,45	0,37	0,30
		H = 3,2							0,52	0,45	0,38	0,48	0,41	0,35	0,42	0,37	0,31	0,39	0,34	0,28	0,34	0,29	0,24
		H = 3,8							0,40	0,36	0,31	0,37	0,33	0,28	0,33	0,29	0,25	0,30	0,27	0,23	0,26	0,23	0,20
	Pt								67			54			24			19			13		
	LwA								48			43			38			32			30		
800 222,2	Vz	H = 2,7										0,84	0,70	0,56	0,76	0,63	0,50	0,69	0,57	0,46	0,60	0,50	0,40
		H = 3,2										0,63	0,55	0,46	0,57	0,49	0,41	0,52	0,45	0,38	0,45	0,39	0,33
		H = 3,8										0,49	0,44	0,38	0,44	0,39	0,34	0,40	0,36	0,31	0,34	0,31	0,27
	Pt											94			42			34			23		
	LwA											51			46			40			38		
1000 277,8	Vz	H = 2,7													0,94	0,79	0,63	0,86	0,72	0,57	0,75	0,62	0,50
		H = 3,2													0,71	0,62	0,52	0,65	0,56	0,47	0,56	0,49	0,41
		H = 3,8													0,54	0,49	0,42	0,50	0,45	0,39	0,43	0,39	0,33
	Pt														65			52			35		
	LwA														52			46			44		
1200 333,3	Vz	H = 2,7																1,03	0,86	0,69	0,90	0,75	0,60
		H = 3,2																0,78	0,67	0,56	0,67	0,58	0,49
		H = 3,8																0,60	0,54	0,46	0,52	0,46	0,40
	Pt																	74			51		
	LwA																	51			49		

D SERIES
DRC - DRS

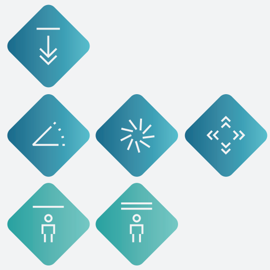
SELECTION TABLE

VERTICAL DISCHARGE

Q (m^3/h) (l/s)	No. of slots		12	16	20	24	30	36	48
100 27,8	Vz	H = 2,7	0,28						
		H = 3,2	0,18						
		H = 3,8	0,13						
	Pt		4						
	LwA		9						
200 55,6	Vz	H = 2,7	0,56	0,49	0,44				
		H = 3,2	0,36	0,31	0,28				
		H = 3,8	0,25	0,22	0,20				
	Pt		18	9	8				
	LwA		29	22	16				
300 83,3	Vz	H = 2,7	0,85	0,73	0,66	0,60			
		H = 3,2	0,54	0,47	0,42	0,38			
		H = 3,8	0,38	0,33	0,30	0,27			
	Pt		40	21	17	14			
	LwA		40	34	28	23			
400 111,1	Vz	H = 2,7	1,13	0,98	0,87	0,80	0,71	0,65	0,56
		H = 3,2	0,73	0,63	0,56	0,51	0,46	0,42	0,36
		H = 3,8	0,51	0,44	0,39	0,36	0,32	0,29	0,25
	Pt		71	37	30	25	10	8	6
	LwA		49	42	36	32	27	22	19
500 138,9	Vz	H = 2,7		1,22	1,09	1,00	0,89	0,81	0,71
		H = 3,2		0,79	0,70	0,64	0,57	0,52	0,45
		H = 3,8		0,55	0,49	0,45	0,40	0,37	0,32
	Pt			58	47	40	16	13	9
	LwA			48	43	38	33	28	25
600 166,7	Vz	H = 2,7			1,31	1,20	1,07	0,98	0,85
		H = 3,2			0,84	0,77	0,69	0,63	0,54
		H = 3,8			0,59	0,54	0,48	0,44	0,38
	Pt				68	58	23	19	14
	LwA				48	43	38	33	30
800 222,2	Vz	H = 2,7				1,60	1,43	1,30	1,13
		H = 3,2				1,03	0,92	0,84	0,73
		H = 3,8				0,72	0,64	0,59	0,51
	Pt					104	41	33	24
	LwA					52	46	41	38
1000 277,8	Vz	H = 2,7					1,78	1,63	1,41
		H = 3,2					1,15	1,05	0,91
		H = 3,8					0,80	0,73	0,63
	Pt						65	52	38
	LwA						52	47	44
1200 333,3	Vz	H = 2,7						1,96	1,69
		H = 3,2						1,26	1,09
		H = 3,8						0,88	0,76
	Pt							75	55
	LwA							52	49

D SERIES
DNC - DNC-R

MICRO NOZZLE SWIRL DIFFUSER



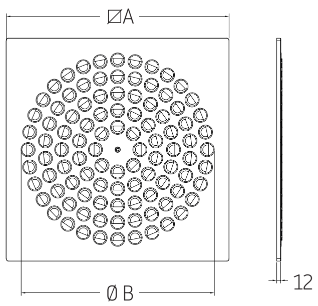
Model **DNC.** Micro-nozzle swirl diffuser, circular design.
Model **DNC-R.** Micro-nozzle swirl diffuser, circular design. Circular plate.

Standard plate finish, white lacquer RAL 9010, with individually adjustable micro-nozzles made of Polycarbonate + ABS.

Fixing systems and accessories:

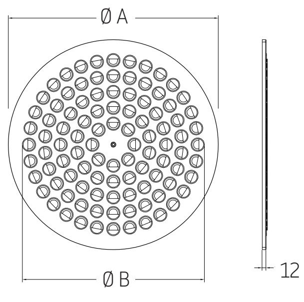
(PM)	Mounting brackets with screw fixing
(PPS-CR)	Polystyrene plenum box with duct connection and control damper
(PPS-K)	Polystyrene plenum box with duct connection, control damper and equalizer plate
(PCL) - (PCLR)	Steel plenum box with side connection
(PCS) - (PCSR)	Steel plenum box with top connection
(_- A)	Thermo-acoustic insulation for models PC_ and PC_R

DNC



	ØA	Ø B	Nº Microtoberas
DNC 400	396	310	22
DNC 500	496	420	44
DNC 600	596	520	74

DNC-R



	Ø A	Ø B	Nº Microtoberas
DNC-R 400	396	310	22
DNC-R 500	496	420	44
DNC-R600	596	520	74

PLENUM DIMENSIONS

MODEL DNC	400	500	600
Ø Spigot	160	200	250
PLENUM	PPS/PCL / PCS		

MODEL DNC-R	400	500	600
Ø Spigot	160	200	250
PLENUM	PCLR / PCSR		

D SERIES
DNC - DNC-R

SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
B = Distance between diffusers in m.
H = Installation height of the diffusers in m.
Vk = Effective velocity in m/s
Vz = Maximum velocity in occupied zone according to the distance between diffusers and the installation height in m/s.
X = throw in m. for final velocity 0.25 m/s with ceiling effect
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

Size			400			500			600		
Q (m³/h) (l/s)	Ak		0,0057			0,0114			0,0191		
	B		1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6
50 13,9	Vz	H = 2,7	0,30	0,12	0,06	0,26	0,11	0,05			
		H = 3,2	0,14	0,07	0,04	0,12	0,06	0,03			
		H = 3,8	0,07	0,04	0,02	0,06	0,03	0,02			
	Vk		2,4			1,2					
	X		1,6			1,5					
	Pt		6			2					
	LwA		24			5					
75 20,8	Vz	H = 2,7	0,42	0,19	0,11	0,34	0,15	0,09			
		H = 3,2	0,21	0,12	0,07	0,17	0,09	0,06			
		H = 3,8	0,12	0,07	0,05	0,09	0,06	0,04			
	Vk		3,7			1,8					
	X		1,8			1,7					
	Pt		13			4					
	LwA		32			15					
100 27,8	Vz	H = 2,7	0,52	0,26	0,16	0,42	0,20	0,12			
		H = 3,2	0,29	0,17	0,11	0,23	0,13	0,08			
		H = 3,8	0,17	0,11	0,08	0,13	0,08	0,06			
	Vk		4,9			2,4					
	X		2,1			1,9					
	Pt		23			7					
	LwA		38			23					
125 34,7	Vz	H = 2,7	0,63	0,34	0,22	0,50	0,25	0,15	0,43	0,21	0,12
		H = 3,2	0,37	0,23	0,16	0,28	0,16	0,11	0,23	0,13	0,08
		H = 3,8	0,23	0,16	0,12	0,16	0,11	0,08	0,13	0,08	0,06
	Vk		6,1			3,0			1,8		
	X		2,4			2,1			1,9		
	Pt		36			11			4		
	LwA		43			28			17		
150 41,7	Vz	H = 2,7	0,73	0,42	0,28	0,57	0,30	0,19	0,49	0,25	0,15
		H = 3,2	0,45	0,29	0,21	0,33	0,20	0,13	0,27	0,16	0,11
		H = 3,8	0,29	0,21	0,16	0,20	0,13	0,10	0,16	0,11	0,07
	Vk		7,3			3,7			2,2		
	X		2,8			2,3			2,0		
	Pt		52			16			6		
	LwA		47			33			22		
200 55,6	Vz	H = 2,7				0,71	0,40	0,26	0,60	0,32	0,20
		H = 3,2				0,43	0,27	0,19	0,35	0,22	0,15
		H = 3,8				0,27	0,19	0,14	0,22	0,15	0,11
	Vk					4,9			2,9		
	X					2,7			2,4		
	Pt					28			10		
	LwA					40			30		
250 69,4	Vz	H = 2,7				0,83	0,49	0,33	0,70	0,40	0,26
		H = 3,2				0,53	0,35	0,25	0,43	0,28	0,20
		H = 3,8				0,35	0,25	0,19	0,28	0,20	0,15
	Vk					6,1			3,6		
	X					3,1			2,7		
	Pt					44			16		
	LwA					46			36		
300 83,3	Vz	H = 2,7							0,80	0,47	0,32
		H = 3,2							0,51	0,34	0,24
		H = 3,8							0,34	0,24	0,19
	Vk								4,4		
	X								3,1		
	Pt								24		
	LwA								41		
350 97,2	Vz	H = 2,7							0,90	0,55	0,38
		H = 3,2							0,59	0,40	0,30
		H = 3,8							0,40	0,30	0,23
	Vk								5,1		
	X								3,5		
	Pt								32		
	LwA								45		

D SERIES
DFS-P - DFS-R

FIXED SPIRAL SWIRL DIFFUSER

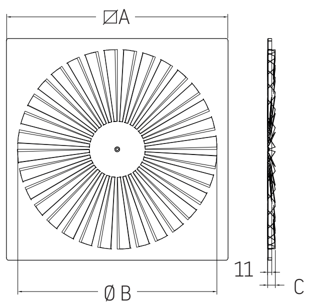
Model DFS-P. Spiral swirl diffuser with fixed blades.
Model DFS-R. Spiral swirl diffuser with fixed blades. Circular plate.

Standard plate finish, white lacquer RAL 9010.
Made entirely of steel sheet, with fixed deflectors integrated into the plate surface.

Fixing systems and accessories:

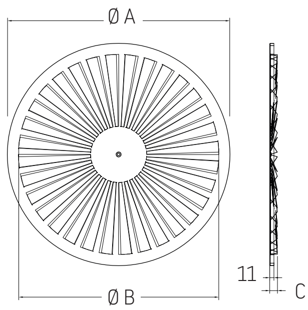
(PM)	Mounting brackets with screw fixing
(PPS-CR)	Polystyrene plenum box with duct connection and control damper
(PPS-K)	Polystyrene plenum box with duct connection, control damper and equalizer plate
(PCL) - (PCLR)	Steel plenum box with side connection
(PCS) - (PCSR)	Steel plenum box with top connection
(_- A)	Thermo-acoustic insulation for models PC_ and PC_R

DFS-P



	⌀ A	Ø B	C	Nº FINS
DFS-P 300	596	235	10	28
DFS-P 400	596	335	15	30
DFS-P 500	596	435	20	32
DFS-P 600	596	535	23	32

DFS-R



	Ø A	Ø B	C	Nº FINS
DFS-R 300	298	235	10	28
DFS-R 400	398	335	15	30
DFS-R 500	496	435	20	32
DFS-R 600	596	535	23	32

PLENUM DIMENSIONS

MODEL DFS-P	300	400	500	600
Ø Spigot	160	200	250	250
PLENUM	PPS/PCL / PCS			

MODEL DFS-R	300	400	500	600
Ø Spigot	160	200	250	250
PLENUM	PCLR / PCSR			

D SERIES
DFS-P - DFS-R

SELECTION TABLE

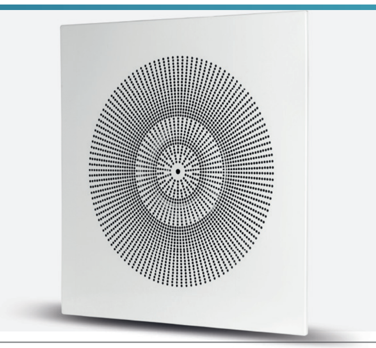
Legend:
Q = Flow rate
Ak = Effective area in m²
B = Distance between diffusers in m.
H = Installation height of the diffusers in m.
Vk = Effective velocity in m/s
Vz = Maximum velocity in occupied zone according to the distance between diffusers and the installation height in m/s.
X = throw in m. for final velocity 0.25 m/s with ceiling effect
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

Tamaño			300			400			500			600		
Q (m³/h) (l/s)	Ak		0,010			0,016			0,033			0,049		
	B		1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6
100 27,8	Vz	H = 2,7	0,20	0,14	0,12	0,15	0,11	0,09						
		H = 3,2	0,15	0,12	0,10	0,12	0,09	0,08						
		H = 3,8	0,12	0,10	0,08	0,09	0,08	0,07						
	Vk			2,8			1,7							
	X			1,2			0,9							
	Pt			3			2							
	LwA			18			10							
150 41,7	Vz	H = 2,7	0,30	0,22	0,17	0,23	0,17	0,13						
		H = 3,2	0,23	0,18	0,15	0,17	0,14	0,11						
		H = 3,8	0,18	0,15	0,13	0,14	0,11	0,10						
	Vk			4,2			2,6							
	X			1,8			1,3							
	Pt			7			5							
	LwA			30			21							
200 55,6	Vz	H = 2,7	0,39	0,29	0,23	0,30	0,22	0,18	0,21	0,16	0,13			
		H = 3,2	0,30	0,24	0,20	0,23	0,18	0,15	0,16	0,13	0,11			
		H = 3,8	0,24	0,20	0,17	0,18	0,15	0,13	0,13	0,11	0,09			
	Vk			5,6			3,5			1,7				
	X			2,5			1,8			1,2				
	Pt			13			9			4				
	LwA			39			28			16				
300 83,3	Vz	H = 2,7				0,45	0,33	0,27	0,32	0,23	0,19	0,21	0,16	0,13
		H = 3,2				0,35	0,27	0,23	0,25	0,19	0,16	0,17	0,14	0,11
		H = 3,8				0,27	0,23	0,20	0,19	0,16	0,14	0,14	0,11	0,10
	Vk						5,2			2,5			1,7	
	X						2,9			2,0			1,3	
	Pt						20			10			4	
	LwA						38			27			17	
400 111,1	Vz	H = 2,7							0,42	0,31	0,25	0,29	0,22	0,17
		H = 3,2							0,33	0,26	0,22	0,22	0,18	0,15
		H = 3,8							0,26	0,22	0,19	0,18	0,15	0,13
	Vk									3,4			2,3	
	X									2,7			1,8	
	Pt									17			8	
	LwA									34			25	
500 138,9	Vz	H = 2,7							0,53	0,39	0,31	0,36	0,27	0,22
		H = 3,2							0,41	0,32	0,27	0,28	0,23	0,19
		H = 3,8							0,32	0,27	0,23	0,23	0,19	0,16
	Vk									4,2			2,8	
	X									3,5			2,3	
	Pt									27			12	
	LwA									40			32	
600 166,7	Vz	H = 2,7							0,63	0,47	0,38	0,43	0,32	0,26
		H = 3,2							0,49	0,39	0,33	0,34	0,27	0,23
		H = 3,8							0,39	0,33	0,28	0,27	0,23	0,20
	Vk									5,1			3,4	
	X									4,3			2,9	
	Pt									39			17	
	LwA									45			37	
700 194,4	Vz	H = 2,7										0,50	0,38	0,31
		H = 3,2										0,39	0,32	0,27
		H = 3,8										0,32	0,27	0,23
	Vk												4,0	
	X												3,4	
	Pt												23	
	LwA												41	
800 222,2	Vz	H = 2,7										0,57	0,43	0,35
		H = 3,2										0,45	0,36	0,30
		H = 3,8										0,36	0,30	0,26
	Vk												4,5	
	X												4,0	
	Pt												31	
	LwA												45	

RANGE CORRECTION FOR NON-ISOTHERMAL FLOWS

ΔTº(ti-ta)	-10	-5	0	+5	+10
Scope X	x1,08	x1,04	1	x0,96	x0,92

D SERIES
DPI-P
PERFORATED SWIRL DIFFUSER

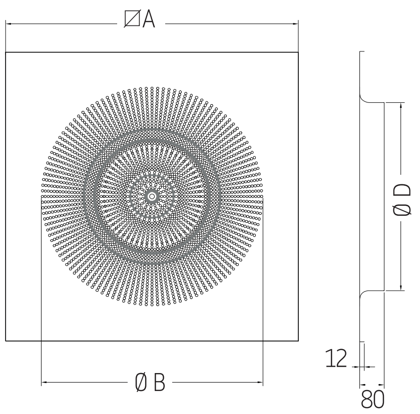


Model DPI-P. Perforated swirl diffuser.

The diffuser is characterized by its horizontal air release with a high “Coanda” effect. Its supply air flow favours a complete and effective exchange of air with a high induction coefficient.

Standard plate finish, white lacquer RAL 9010. Hood and central disc finish, black lacquer RAL 9005.
Made entirely of steel plate.

DPI-P



DPI-P
Rear detail

	⍁ A	Ø B	Ø D
DPI-P 125	596	295	125
DPI-P 160	596	367	160
DPI-P 200	596	450	200
DPI-P 250	596	523	250

D SERIES
DPI-P

SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
B = Distance between diffusers in m.
H = Installation height of the diffusers in m.
Vk = Effective velocity in m/s
Vz = Maximum velocity in occupied zone according to the distance between diffusers and the installation height in m/s.
X = throw in m. for final velocity 0.25 m/s with ceiling effect
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

Size			125			160			200			250		
Q (m³/h) (l/s)	Ak		0,021			0,0299			0,0463			0,0805		
	B		1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6
100 27,8	Vz	H = 2,7	0,19	0,15	0,13	0,12	0,07	0,05						
		H = 3,2	0,16	0,14	0,12	0,08	0,05	0,04						
		H = 3,8	0,14	0,12	0,11	0,05	0,04	0,03						
	Vk			1,3			0,9							
	X			3,1			1,5							
	Pt			21			6							
	LwA			36			11							
150 41,7	Vz	H = 2,7	0,29	0,23	0,20	0,18	0,11	0,07						
		H = 3,2	0,24	0,20	0,18	0,11	0,08	0,06						
		H = 3,8	0,20	0,18	0,16	0,08	0,06	0,04						
	Vk			2,0			1,4							
	X			6,0			1,9							
	Pt			44			14							
	LwA			45			23							
200 55,6	Vz	H = 2,7	0,38	0,31	0,26	0,23	0,14	0,10						
		H = 3,2	0,32	0,27	0,24	0,15	0,10	0,07						
		H = 3,8	0,27	0,24	0,21	0,10	0,07	0,06						
	Vk			2,6			1,9							
	X			9,4			2,3							
	Pt			74			24							
	LwA			51			32							
300 83,3	Vz	H = 2,7	0,57	0,46	0,40	0,35	0,21	0,14	0,16	0,13	0,11	0,14	0,10	0,08
		H = 3,2	0,48	0,41	0,36	0,23	0,15	0,11	0,13	0,11	0,10	0,10	0,08	0,06
		H = 3,8	0,41	0,36	0,32	0,15	0,11	0,08	0,11	0,10	0,09	0,08	0,06	0,05
	Vk			3,9			2,8			1,8			1,0	
	X			17,9			3,0			2,3			1,7	
	Pt			158			54			18			13	
	LwA			59			45			28			18	
400 111,1	Vz	H = 2,7				0,47	0,28	0,19	0,22	0,17	0,14	0,18	0,13	0,10
		H = 3,2				0,30	0,20	0,15	0,18	0,15	0,13	0,14	0,11	0,09
		H = 3,8				0,20	0,15	0,11	0,15	0,13	0,11	0,11	0,09	0,07
	Vk						3,7			2,4			1,4	
	X						3,7			3,5			2,3	
	Pt						95			31			23	
	LwA						54			39			28	
500 138,9	Vz	H = 2,7				0,59	0,35	0,24	0,27	0,22	0,18	0,23	0,16	0,13
		H = 3,2				0,38	0,25	0,18	0,22	0,19	0,16	0,17	0,13	0,11
		H = 3,8				0,25	0,18	0,14	0,19	0,16	0,14	0,13	0,11	0,09
	Vk						4,6			3,0			1,7	
	X						4,2			4,8			2,9	
	Pt						148			48			35	
	LwA						60			47			36	
600 166,7	Vz	H = 2,7							0,33	0,26	0,22	0,27	0,20	0,15
		H = 3,2							0,27	0,22	0,19	0,21	0,16	0,13
		H = 3,8							0,22	0,19	0,17	0,16	0,13	0,11
	Vk									3,6			2,1	
	X									6,3			3,5	
	Pt									68			49	
	LwA									54			43	
700 194,4	Vz	H = 2,7							0,38	0,30	0,25	0,32	0,23	0,18
		H = 3,2							0,31	0,26	0,22	0,24	0,19	0,15
		H = 3,8							0,26	0,22	0,20	0,19	0,15	0,13
	Vk									4,2			2,4	
	X									7,8			4,1	
	Pt									92			65	
	LwA									60			48	
800 222,2	Vz	H = 2,7										0,36	0,26	0,20
		H = 3,2										0,27	0,21	0,17
		H = 3,8										0,21	0,17	0,15
	Vk												2,8	
	X												4,7	
	Pt												84	
	LwA												53	

RANGE CORRECTION FOR NON-ISOTHERMAL FLOWS

ΔTº(ti-ta)	-10	-5	0	+5	+10
Alcance X	x1,08	x1,04	1	x0,96	x0,92

D SERIES
DGF-P - DGF-R

FIXED GEOMETRY SWIRL DIFFUSER

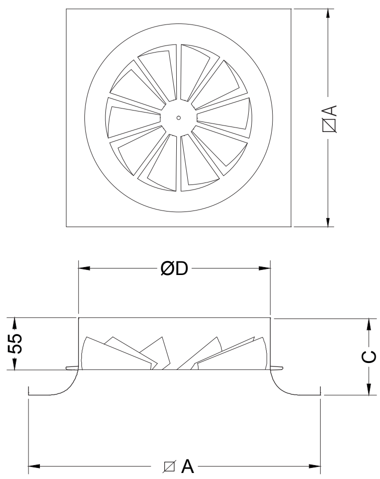
Model DGF-P. Fixed geometry swirl diffuser.
Model DGF-R. Fixed geometry swirl diffuser. Circular.

Standard plate finish, white lacquer RAL 9010. Made entirely of steel plate, with fixed deflectors integrated into the plate itself.

Fixing systems and accessories:

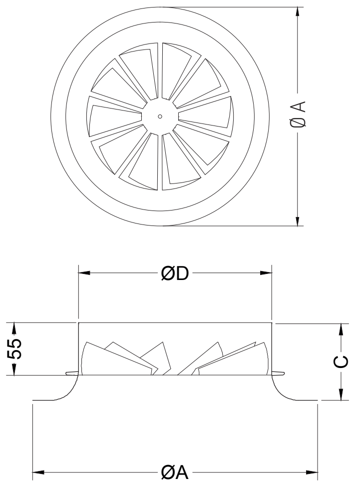
(PM) Mounting brackets with screw fixing

DGF-P



	Ø D	Ø A	C
DGF 125 P	122	596	82
DGF 160 P	157	596	82
DGF 200 P	197	596	82
DGF 250 P	247	596	85
DGF 315 P	312	596	85
DGF 355 P	353	596	103
DGF 400 P	398	596	107

DGF-R



	Ø D	Ø A	C
DGF 125 R	122	225	82
DGF 160 R	157	250	82
DGF 200 R	197	300	82
DGF 250 R	247	350	85
DGF 315 R	312	415	85
DGF 355 R	353	455	103
DGF 400 R	398	520	107

D SERIES
DGF-P - DGF-R

SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
B = Distance between diffusers in m.
H = Installation height of the diffusers in m.
Vz = Maximum velocity in occupied zone according to the distance between diffusers and the installation height in m/s.
Vk = Effective velocity in m/s
X = throw in m. for final velocity 0.25 m/s with ceiling effect
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

Size			125			160			200			250			315			355			400		
Q (m^3/h) (l/s)	Ak		0,009			0,015			0,022			0,034			0,054			0,068			0,085		
	B		1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6
75 20,8	Vz	H = 2,7	0,52	0,24	0,13	0,39	0,18	0,10															
		H = 3,2	0,27	0,14	0,09	0,20	0,11	0,07															
		H = 3,8	0,14	0,09	0,06	0,11	0,07	0,04															
	Vk			2,3			1,4																
	X			2,1			1,8																
	Pt			30			8																
	LwA			28			19																
100 27,8	Vz	H = 2,7	0,69	0,32	0,18	0,52	0,23	0,13															
		H = 3,2	0,36	0,19	0,12	0,26	0,14	0,09															
		H = 3,8	0,19	0,12	0,08	0,14	0,09	0,06															
	Vk			3,1			1,9																
	X			2,3			2,0																
	Pt			53			15																
	LwA			36			28																
150 41,7	Vz	H = 2,7				0,78	0,35	0,19	0,60	0,27	0,15												
		H = 3,2				0,39	0,21	0,13	0,30	0,16	0,10												
		H = 3,8				0,21	0,13	0,09	0,16	0,10	0,06												
	Vk						2,8			1,9													
	X						2,4			2,2													
	Pt						34			13													
	LwA						41			24													
200 55,6	Vz	H = 2,7							0,80	0,36	0,20	0,74	0,33	0,18									
		H = 3,2							0,40	0,21	0,13	0,37	0,20	0,12									
		H = 3,8							0,21	0,13	0,09	0,20	0,12	0,08									
	Vk									2,5			1,6										
	X									2,4			2,4										
	Pt									22			9										
	LwA									33			21										
300 83,3	Vz	H = 2,7							1,20	0,54	0,29	1,11	0,50	0,27	0,82	0,36	0,19	0,49	0,19	0,09			
		H = 3,2							0,60	0,32	0,19	0,56	0,30	0,18	0,41	0,21	0,13	0,22	0,10	0,06			
		H = 3,8							0,32	0,19	0,13	0,30	0,18	0,12	0,21	0,13	0,08	0,10	0,06	0,04			
	Vk									3,7			2,4			1,6			1,2				
	X									2,9			2,8			2,4			1,9				
	Pt									50			20			7			7				
	LwA									45			33			17			14				
400 111,1	Vz	H = 2,7										1,48	0,66	0,36	1,10	0,48	0,26	0,65	0,25	0,13	0,58	0,22	0,11
		H = 3,2										0,74	0,40	0,24	0,54	0,28	0,17	0,29	0,14	0,08	0,25	0,12	0,07
		H = 3,8										0,40	0,24	0,16	0,28	0,17	0,11	0,14	0,08	0,05	0,12	0,07	0,04
	Vk												3,2			2,1			1,6			1,3	
	X												3,2			2,7			2,1			2,0	
	Pt												36			13			13			13	
	LwA												41			27			25			21	
500 138,9	Vz	H = 2,7													1,37	0,60	0,32	0,81	0,32	0,16	0,73	0,28	0,13
		H = 3,2													0,68	0,35	0,21	0,36	0,17	0,10	0,32	0,15	0,08
		H = 3,8													0,35	0,21	0,14	0,17	0,10	0,06	0,15	0,08	0,05
	Vk															2,6			2,1			1,6	
	X															3,0			2,3			2,2	
	Pt															21			21			21	
	LwA															35			34			30	
700 194,4	Vz	H = 2,7																1,13	0,44	0,22	1,02	0,39	0,19
		H = 3,2																0,51	0,24	0,14	0,45	0,21	0,12
		H = 3,8																0,24	0,14	0,08	0,21	0,12	0,07
	Vk																		2,9			2,3	
	X																		2,6			2,4	
	Pt																		40			40	
	LwA																		46			44	

RANGE CORRECTION FOR NON-ISOTHERMAL FLOWS

ΔTº(ti-ta)	-10	-5	0	+5	+10
Alcance X	x1,08	x1,04	1	x0,96	x0,92

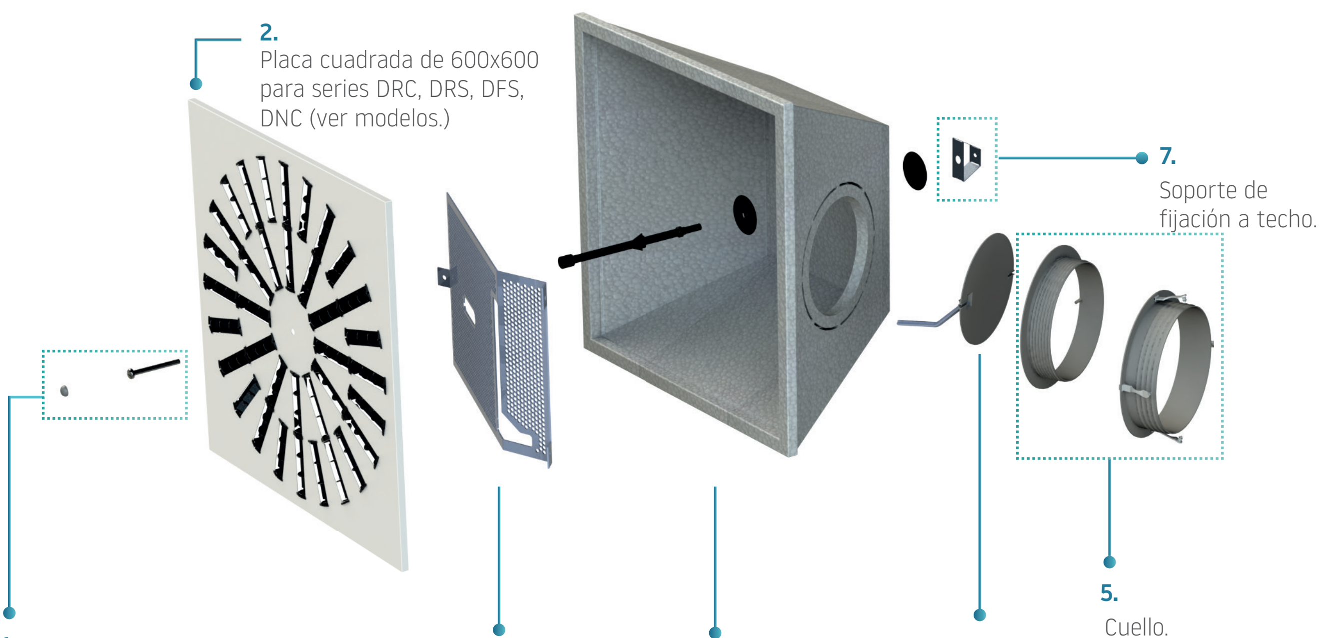
SERIES D
ORDER FORM

DESCRIPTION

Swirl diffuser with individually adjustable moveable blades, type DRC 36-6. With polystyrene plenum box, duct connection, regulation damper and equalizing plate, type PPS-K. Fixed by means of support type CH-PPS. White lacquer finish, similar to RAL 9016 with movable blades in black plastic.

Order form:

DRC 20-6 | PPS-K | CH-PPS



Swirl diffusers Series:

DRC - DRC-R
DRS - DRS-R
DNC - DNC-R
DFS-P - DFS-R
DGF - DGF-R
DPI

Accessories:

(PM)	Mounting brackets with screw fixing
(PPS-CR)	Polystyrene plenum box with duct connection and control damper
(PPS-K)	Polystyrene plenum box with duct connection, control damper and equalizer plate
(PCL) - (PCLR)	Steel plenum box with side connection
(PCS) - (PCSR)	Steel plenum box with top connection
(_- A)	Thermo-acoustic insulation for models PC_ and PC_R

* See specifications and adaptable accessories in the description of each model.


Solutions

ROUND DIFFUSERS
DC SERIES

DCF Round diffuser with fixed cones
DCR Round diffuser with adjustable cones
DRC-S Round diffuser with adjustable cones and spiral regulation
DCR-T Round thermostatic diffuser with adjustable cones
DCD Round diffuser with adjustable disc

SAMOVENT® TECHNIK

DIFUSIÓN Y VENTILACIÓN

DCF

DCR

DCR-S

DCR-T

DCD

DC SERIES DCF

ROUND DIFFUSER WITH FIXED CONES

Model **DCF.** Round diffuser with fixed cones, with flow regulation and mounting bracket.

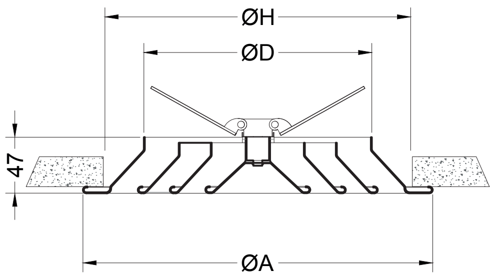
Made of aluminium.
Standard finish in matt silver anodised or white lacquer similar to RAL 9016.

Finished:

(AL) Matt silver anodised aluminium

(BL) White lacquer aluminium

DCF

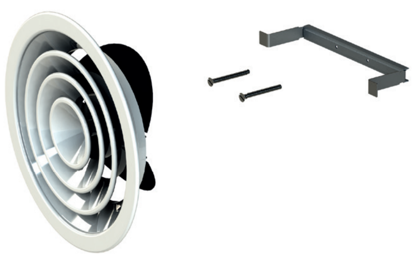


DCF
Rear detail

	Ø D	Ø A	Ø H
DCF 6	148	257	240
DCF 8	198	312	290
DCF 10	248	358	335
DCF 12	298	418	395
DCF 14	348	472	455

DESCRIPTION

Round diffuser with fixed cones, type DCF 8. Butterfly type flow regulator and fixing by mounting bracket.
White lacquer finish, similar to RAL 9016.



Order form:

DCF	8	BL

DC SERIES
DCF

SELECTION TABLE

Legend:
Q = Flow rate
Vk = Effective velocity in m/s
X = throw in m. for final velocity 0.25 m/s with ceiling effect
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

	Size	6	8	10	12	14
Q (m^3/h) (l/s)						
100 27,8	Vk X Pt LwA	3,2 0,6 4 22	1,6 0,4 1 < 10			
200 55,6	Vk X Pt LwA	6,4 1,2 19 36	3,2 0,9 4 24	1,9 0,7 1 14		
300 83,3	Vk X Pt LwA	9,6 1,9 45 44	4,8 1,3 10 32	2,9 1,0 3 23		
400 111,1	Vk X Pt LwA	12,7 2,5 83 50	6,4 1,8 19 38	3,8 1,4 6 29	2,6 1,1 3 22	1,8 0,9 1 17
500 138,9	Vk X Pt LwA		8,0 2,2 31 43	4,8 1,7 10 34	3,2 1,4 4 27	2,3 1,2 2 22
600 166,7	Vk X Pt LwA		9,6 2,6 45 47	5,8 2,0 15 38	3,8 1,7 6 31	2,7 1,4 3 27
800 222,2	Vk X Pt LwA		12,8 3,5 84 53	7,7 2,7 28 44	5,1 2,2 12 38	3,6 1,9 6 34
1000 277,8	Vk X Pt LwA			9,6 3,4 45 49	6,4 2,8 19 43	4,5 2,3 9 40
1200 333,3	Vk X Pt LwA			11,5 4,1 67 53	7,7 3,3 28 47	5,5 2,8 14 44
1400 388,9	Vk X Pt LwA				8,9 3,9 39 50	6,4 3,3 19 48
1600 444,4	Vk X Pt LwA				10,2 4,4 52 53	7,3 3,7 25 51
1800 500,0	Vk X Pt LwA				11,5 5,0 67 56	8,2 4,2 32 54

DAMPER OPENING

	100%	50%	25%
Pt	x1,2	x3	x5
LwA	+4	+10	+20

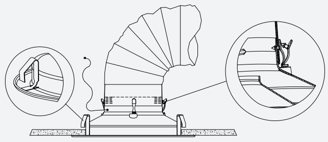
DC SERIES DCR

ROUND DIFFUSER WITH ADJUSTABLE CONES

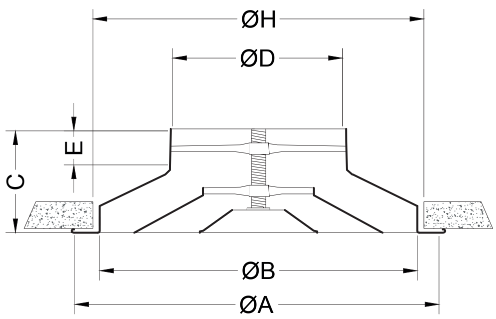
Model **DCR.** High induction round diffuser with adjustable cones, by means of a micrometric screw.
Model **DCR-P.** High induction circular diffuser with adjustable cones, by means of a micrometric screw. Square plate

Outer ring made of aluminium and central cone made of class V0 ABS plastic.
Standard finish white lacquer RAL 9010.

Accessories:
(KD) Mounting kit type kd for plaster plate: (from Ø160 to Ø315).
Valid fo DCR.

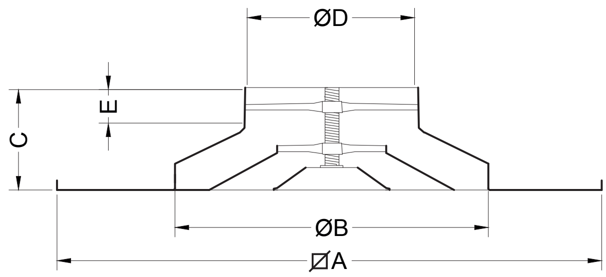


DCR



	Ø D	Ø A	Ø B	Ø H	C	E
DCR 100	98	230	194	198	75	30
DCR 160	158	335	280	288	105	45
DCR 200	198	423	360	370	118	48
DCR 250	248	517	445	461	130	48
DCR 315	313	640	560	576	146	48

DCR-P



	Ø D	Ø A	Ø B	C	E
DCR-P 100	98	596	194	70	30
DCR-P 160	158	596	280	100	45
DCR-P 200	198	596	360	110	48
DCR-P 250	248	596	445	120	48
DCR-P 315	313	596	495	126	48

DESCRIPTION

High induction round diffuser with adjustable cones, type DCR 100.
Clip fixing, type KD.
White lacquer finish, RAL 9010.

Order form:

DCR	100	BL	KD

DC SERIES DCR-S

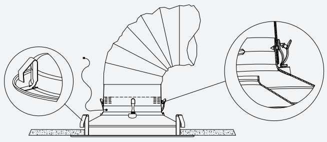
ROUND DIFFUSER WITH ADJUSTABLE CONES AND SPIRAL REGULATION

Model **DCR-S.** High induction round diffuser with adjustable cones and spiral regulation, by means of a micrometric screw.

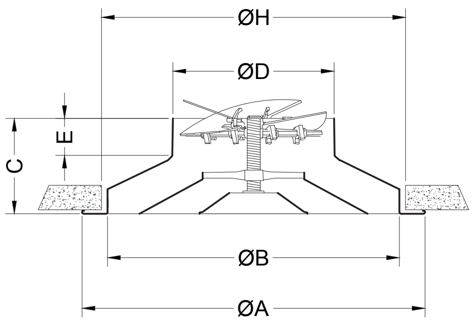
Model **DCR-SP.** High induction round diffuser with adjustable cones with spiral regulation, by means of a micrometric screw. Square plate.

Outer ring made of aluminium and central cone made of ABS plastic class V0.
Standard finish white lacquer RAL 9010.

Accessories:
(KD) Mounting kit type kd for plaster plate: (from Ø160 to Ø315).
Valid fo DCR-S.

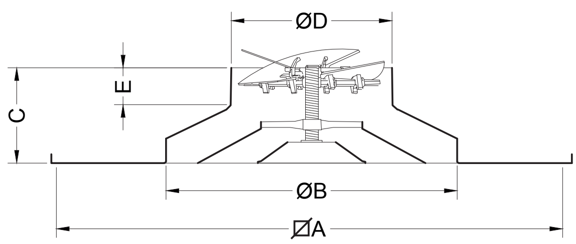


DCR-S



	Ø D	Ø A	Ø B	Ø H	C	E
DCR-S 160	158	335	280	288	105	45
DCR-S 200	198	423	360	370	118	48
DCR-S 250	248	517	445	461	130	48
DCR-S 315	313	640	560	576	146	48

DCR-SP



	Ø D	Ø A	Ø B	C	E
DCR-SP 160	158	596	280	100	45
DCR-SP 200	198	596	360	110	48
DCR-SP 250	248	596	445	120	48
DCR-SP 315	313	596	495	126	48

DESCRIPTION

High induction round diffuser with adjustable cones and spiral regulation, type DCR-S 160. Clip fixing, KD type. White lacquer finish, RAL 9010.

Order form:

DCR-S	160	BL	KD

DC SERIES
DCR-T

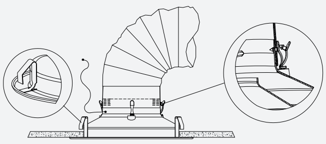
ROUND THERMOSTATIC ADJUSTABLE CONE DIFFUSER

Model **DCR-T.** High induction round diffuser with thermostatic actuator.
Model **DCR-TP.** High induction round diffuser with thermostatic actuator. Square plate.

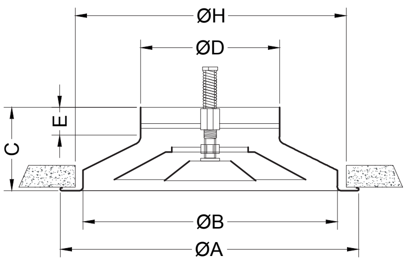
The DCRT diffuser is characterised by the fact that it operates without the need for any auxiliary system (power supply or servomotor). No specific maintenance is required. By means of a spring the diffuser DCRT, moves according to the temperature varying the adjustment of the cones to obtain a perfect control of the air flow.

Outer ring made of aluminium and central cone made of ABS plastic class V0.
Standard finish white lacquer RAL 9010.

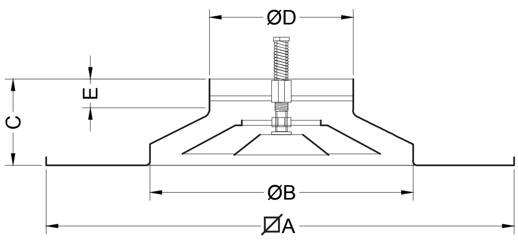
Accessories:
(KD) Mounting kit type kd for plaster plate: (from Ø160 to Ø355).
Valid fo DCR-T.



DCR-T



DCR-TP



	Ø D	Ø A	Ø B	Ø H	C	E
DCR-T 160	158	335	280	288	105	45
DCR-T 200	198	423	360	370	118	48
DCR-T 250	248	517	445	461	130	48
DCR-T 315	313	640	560	576	146	48
DCR-T 355	353	730	640	656	185	65
DCR-T 400	398	766	700	716	185	65
DCR-T 450	448	825	755	771	185	65
DCR-T 500	498	917	825	841	185	65

	Ø D	Ø A	Ø B	C	E
DCR-TP 160	158	596	280	100	45
DCR-TP 200	198	596	360	110	48
DCR-TP 250	248	596	445	120	48
DCR-TP 315	313	596	495	126	48

DESCRIPTION

High induction round diffuser with thermostatic actuator, type DCR-T 160. Clip fixing, type KD.
White lacquer finish, RAL 9010.

Order form:

DCF	8	BL

Legend:

Q = Flow rate

B = Distance between diffusers in m.

H = Head of installation of diffusers in m.

Vz = Maximum velocity in occupied zone according to the distance between diffusers and the installation height in m/s.

Vk = Effective velocity in m/s

X = throw in m. for a final velocity of 0.25 m/s with ceiling effect in isothermal condition. Cones in summer position

Y = Reach in m. for a final speed of 0.25 m/s with ΔT=10°C. Cones in winter position.

Pt = Pressure drop in Pa

LwA = Sound power in dB(A)

DC SERIES
DCR - DCR-T

SELECTION TABLE

						DCR-T											
			DCR														
	Size		100			160			200			250			315		
Q (m³/h) (l/s)	B		1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6	2,4	3,6	4,2	3,6	4,2	4,8
200 55,6	Vz	H = 2,7	0,71	0,50	0,39	0,43	0,31	0,24	0,33	0,24	0,18						
		H = 3,2	0,53	0,41	0,33	0,32	0,25	0,20	0,25	0,19	0,15						
		H = 3,8	0,41	0,33	0,28	0,25	0,20	0,17	0,19	0,15	0,13						
	Vk (summer)			4,2			1,8			1,2							
	Vk (winter)			4,2			1,9			1,3							
	X			4,2			2,6			2,0							
	Y (ΔT = 10º C)			3,9			2,3			2,1							
	Pt (summer)			40			5			2							
	Pt (winter)			86			16			7							
	LwA (summer)			38			14			1							
	LwA (winter)			52			30			19							
300 83,3	Vz	H = 2,7	1,06	0,76	0,59	0,64	0,46	0,36	0,50	0,35	0,28						
		H = 3,2	0,79	0,61	0,50	0,48	0,37	0,30	0,37	0,29	0,23						
		H = 3,8	0,61	0,50	0,42	0,37	0,30	0,25	0,29	0,23	0,20						
	Vk (summer)			6,4			2,7			1,8							
	Vk (winter)			6,2			2,9			2,0							
	X			6,3			3,9			3,0							
	Y (ΔT = 10º C)			5,9			3,2			2,8							
	Pt (summer)			90			12			5							
	Pt (winter)			192			36			16							
	LwA (summer)			52			28			15							
	LwA (winter)			66			44			33							
400 111,1	Vz	H = 2,7				0,86	0,61	0,48	0,66	0,47	0,37	0,35	0,27	0,25			
		H = 3,2				0,64	0,50	0,40	0,50	0,38	0,31	0,28	0,23	0,21			
		H = 3,8				0,50	0,40	0,34	0,38	0,31	0,26	0,23	0,19	0,18			
	Vk (summer)						3,6			2,4			1,6				
	Vk (winter)						3,9			2,7			1,9				
	X						5,1			4,0			3,0				
	Y (ΔT = 10º C)						4,2			3,4			3,2				
	Pt (summer)						21			8			3				
	Pt (winter)						64			29			13				
	LwA (summer)						38			25			13				
	LwA (winter)						54			43			31				
600 166,7	Vz	H = 2,7				1,29	0,92	0,72	0,99	0,71	0,55	0,53	0,41	0,37	0,29	0,26	0,24
		H = 3,2				0,97	0,74	0,60	0,74	0,57	0,46	0,43	0,35	0,32	0,24	0,22	0,21
		H = 3,8				0,74	0,60	0,51	0,57	0,46	0,39	0,35	0,29	0,27	0,21	0,19	0,18
	Vk (summer)						5,4			3,6			2,4			1,6	
	Vk (winter)						5,8			4,0			2,8			1,9	
	X						7,7			5,9			4,4			3,1	
	Y (ΔT = 10º C)						6,1			4,8			4,1			3,9	
	Pt (summer)						48			18			7			3	
	Pt (winter)						141			64			29			13	
	LwA (summer)						52			39			27			13	
	LwA (winter))						68			57			45			32	
800 222,2	Vz	H = 2,7							1,32	0,94	0,73	0,70	0,55	0,49	0,39	0,35	0,32
		H = 3,2							0,99	0,76	0,62	0,57	0,46	0,42	0,33	0,30	0,27
		H = 3,8							0,76	0,62	0,52	0,46	0,39	0,36	0,27	0,25	0,24
	Vk (summer)									4,8			3,2			2,1	
	Vk (winter)									5,3			3,7			2,5	
	X									7,9			5,9			4,2	
	Y (ΔT = 10º C)									6,1			5,0			4,5	
	Pt (summer)									32			12			5	
	Pt (winter)									112			51			22	
	LwA (summer)									49			37			23	
	LwA (winter)									67			55			42	
1000 277,8	Vz	H = 2,7										0,88	0,68	0,62	0,48	0,43	0,39
		H = 3,2										0,71	0,58	0,53	0,41	0,37	0,34
		H = 3,8										0,58	0,49	0,45	0,34	0,32	0,30
	Vk (summer)												4,0			2,6	
	Vk (winter)												4,6			3,2	
	X												7,4			5,2	
	Y (ΔT = 10º C)												5,9			5,1	
	Pt (summer)												19			7	
	Pt (winter)												79			35	
	LwA (summer)												44			30	
	LwA (winter)												63			50	

DC SERIES
DCR - DCR-T

SELECTION TABLE

			DCR-T											
	Size		355			400			450			500		
Q (m³/h) (l/s)	**B**		3,6	4,2	4,8	3,6	4,2	4,8	3,6	4,2	4,8	3,6	4,2	4,8
800 222,2	Vz	H = 2,7 H = 3,2 H = 3,8	0,31 0,26 0,22	0,28 0,24 0,21	0,26 0,22 0,19									
	Vk (summer) Vk (winter) X Y (ΔT = 10° C) Pt (summer) Pt (winter) LwA (summer) LwA (winter)		1,69 2,09 3,4 4,4 3 15 15 35											
1000 277,8	Vz	H = 2,7 H = 3,2 H = 3,8	0,39 0,33 0,28	0,35 0,30 0,26	0,32 0,28 0,24	0,31 0,26 0,22	0,28 0,24 0,20	0,25 0,22 0,19						
	Vk (summer) Vk (winter) X Y (ΔT = 10° C) Pt (summer) Pt (winter) LwA (summer) LwA (winter)		2,11 2,61 4,2 4,9 4 23 23 43			1,70 2,14 3,4 4,7 3 15 15 35								
1250 347,2	Vz	H = 2,7 H = 3,2 H = 3,8	0,49 0,41 0,35	0,44 0,38 0,32	0,40 0,35 0,30	0,39 0,33 0,28	0,35 0,30 0,26	0,32 0,28 0,24	0,30 0,25 0,21	0,27 0,23 0,20	0,25 0,21 0,18			
	Vk (summer) Vk (winter) X Y (ΔT = 10° C) Pt (summer) Pt (winter) LwA (summer) LwA (winter)		2,64 3,26 5,3 5,6 7 35 30 51			2,13 2,68 4,2 5,3 4 23 23 43			1,72 2,21 3,2 5,0 2 15 14 35					
1500 416,7	Vz	H = 2,7 H = 3,2 H = 3,8	0,59 0,50 0,42	0,53 0,45 0,39	0,48 0,42 0,36	0,47 0,39 0,33	0,42 0,36 0,31	0,38 0,33 0,29	0,36 0,30 0,26	0,32 0,28 0,24	0,29 0,26 0,22	0,28 0,23 0,20	0,25 0,21 0,18	0,23 0,20 0,17
	Vk (summer) Vk (winter) X Y (ΔT = 10° C) Pt (summer) Pt (winter) LwA (summer) LwA (winter)		3,17 3,91 6,3 6,2 10 50 37 57			2,55 3,22 5,0 5,8 6 33 29 49			2,06 2,65 3,9 5,5 3 22 21 42			1,70 2,23 3,0 5,0 2 15 13 35		
1750 486,1	Vz	H = 2,7 H = 3,2 H = 3,8	0,68 0,58 0,49	0,62 0,53 0,45	0,56 0,49 0,42	0,54 0,46 0,39	0,49 0,42 0,36	0,44 0,39 0,33	0,42 0,35 0,30	0,38 0,32 0,28	0,34 0,30 0,26	0,32 0,27 0,23	0,29 0,25 0,21	0,26 0,23 0,20
	Vk (summer) Vk (winter) X Y (ΔT = 10° C) Pt (summer) Pt (winter) LwA (summer) LwA (winter)		3,70 4,56 7,4 6,9 13 68 42 62			2,98 3,75 5,9 6,4 8 45 34 55			2,40 3,09 4,5 5,9 5 29 26 47			1,98 2,60 3,5 5,4 3 20 18 40		
2000 555,6	Vz	H = 2,7 H = 3,2 H = 3,8	0,78 0,66 0,56	0,70 0,60 0,52	0,64 0,56 0,48	0,62 0,52 0,44	0,56 0,48 0,41	0,51 0,44 0,38	0,48 0,40 0,34	0,43 0,37 0,32	0,39 0,34 0,29	0,37 0,31 0,26	0,33 0,28 0,24	0,30 0,26 0,23
	Vk (summer) Vk (winter) X Y (ΔT = 10° C) Pt (summer) Pt (winter) LwA (summer) LwA (winter)		4,23 5,22 8,4 7,6 17 89 47 67			3,40 4,29 6,7 6,9 10 58 39 59			2,75 3,53 5,2 6,4 6 38 31 52			2,27 2,97 4,0 5,8 4 26 23 45		

DAMPER OPENING

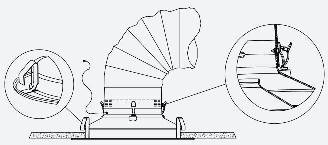
	100%	50%	25%
Pt	x1	x1,2	x1,9
LwA	+0	+3	+11

DC SERIES
DCD
ROUND DIFFUSER WITH ADJUSTABLE DISC

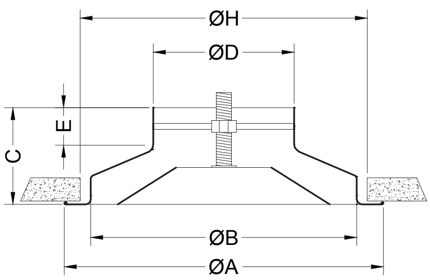
Model **DCD.** High induction round diffuser with adjustable disc, by means of a micrometric screw.
Model **DCD-P.** High induction round diffuser with adjustable disk, by means of a micrometric screw. Square plate.

Made entirely of aluminium.
Standard finish white lacquer RAL 9010.

Accessories:
(KD) Mounting kit type kd for plaster plate: (from Ø100 to Ø315).
Valid DCD.

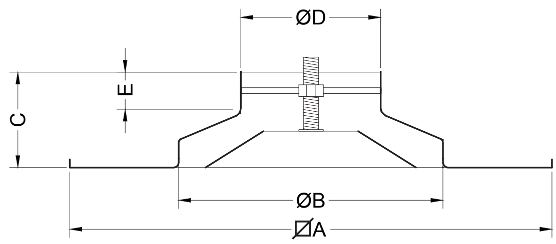


DCD



	Ø D	Ø A	Ø B	Ø H	C	E
DCD 100	98	230	194	198	75	30
DCD 160	158	335	280	288	105	45
DCD 200	198	423	360	370	118	48
DCD 250	248	517	445	461	130	48
DCD 315	313	640	560	576	146	48

DCD-P



	Ø D	⌀ A	Ø B	C	E
DCD-P 100	98	596	194	75	30
DCD-P 160	158	596	280	105	45
DCD-P 200	198	596	360	118	48
DCD-P 250	248	596	445	130	48
DCD-P 315	313	596	560	146	48

DESCRIPTION

High induction round diffuser with adjustable disc, type DCD 100.
Clip fixing, type KD.
White lacquer finish, RAL 9010.

Order form:

DCD	100	BL	KD

DC SERIES DCD

SELECTION TABLE

Legend:
Q = Flow rate
B = Distance between diffusers in m.
H = Head of installation of diffusers in m.
Vz = Maximum velocity in occupied zone according to the distance between diffusers and the installation height in m/s.
Vk = Effective velocity in m/s
X = throw in m. for a final velocity of 0.25 m/s with ceiling effect in isothermal condition. Cones in summer position
Y = Reach in m. for a final speed of 0.25 m/s with ΔT=10°C. Cones in winter position.
Pt = Pressure drop in Pa
LwA = Sound power in dB(A)

Q	Tamaño		100			160			200			250			315		
(m³/h) (l/s)	B		1,2	2,4	3,6	1,2	2,4	3,6	1,2	2,4	3,6	2,4	3,6	4,2	3,6	4,2	4,8
100 27,8	Vz	H = 2,7	0,31	0,21	0,16	0,21	0,14	0,10									
		H = 3,2	0,23	0,17	0,13	0,15	0,11	0,09									
		H = 3,8	0,17	0,13	0,11	0,11	0,09	0,07									
	Vk (summer)			3,5			1,7										
	Vk (winter)			4,0			2,0										
	X			1,8			1,3										
	Y (ΔT = 10° C)			1,4			0,9										
	Pt (summer)			20			5										
	Pt (winter)			26			7										
	LwA (summer)			26			10										
	LwA (winter)			30			13										
200 55,6	Vz	H = 2,7	0,63	0,43	0,32	0,42	0,28	0,21	0,36	0,24	0,17						
		H = 3,2	0,45	0,34	0,26	0,30	0,22	0,17	0,25	0,18	0,14						
		H = 3,8	0,34	0,26	0,22	0,22	0,17	0,14	0,18	0,14	0,11						
	Vk (summer)			6,9			3,5			2,5							
	Vk (winter)			7,9			4,0			2,9							
	X			3,4			2,3			2,0							
	Y (ΔT = 10° C)			2,8			1,8			1,5							
	Pt (summer)			66			17			9							
	Pt (winter)			85			23			12							
	LwA (summer)			44			27			20							
	LwA (winter)			49			31			24							
400 111,1	Vz	H = 2,7				0,85	0,57	0,42	0,72	0,47	0,35	0,37	0,27	0,23			
		H = 3,2				0,60	0,44	0,34	0,50	0,36	0,28	0,28	0,22	0,19			
		H = 3,8				0,44	0,34	0,28	0,36	0,28	0,23	0,22	0,17	0,16			
	Vk (summer)						6,9			5,0			3,1				
	Vk (winter)						8,0			5,7			3,5				
	X						4,1			3,5			2,8				
	Y (ΔT = 10° C)						3,5			2,9			2,1				
	Pt (summer)						56			29			11				
	Pt (winter)						74			39			15				
	LwA (summer)						44			37			28				
	LwA (winter)						49			41			31				
700 194,4	Vz	H = 2,7							1,25	0,83	0,61	0,65	0,47	0,41	0,34	0,30	0,26
		H = 3,2							0,88	0,64	0,49	0,49	0,38	0,34	0,27	0,24	0,22
		H = 3,8							0,64	0,49	0,40	0,38	0,30	0,27	0,22	0,19	0,18
	Vk (summer)									8,7			5,4			2,7	
	Vk (winter)									10,0			6,2			3,1	
	X									5,5			4,4			3,4	
	Y (ΔT = 10° C)									5,1			3,7			2,4	
	Pt (summer)									76			30			8	
	Pt (winter)									102			40			11	
	LwA (summer)									50			40			33	
	LwA (winter)									55			44			34	
1000 277,8	Vz	H = 2,7										0,92	0,67	0,58	0,49	0,42	0,37
		H = 3,2										0,70	0,54	0,48	0,39	0,34	0,31
		H = 3,8										0,54	0,43	0,39	0,31	0,28	0,25
	Vk (summer)												7,7			3,9	
	Vk (winter)												8,8			4,5	
	X												5,8			4,4	
	Y (ΔT = 10° C)												5,3			3,5	
	Pt (summer)												55			15	
	Pt (winter)												74			20	
	LwA (summer)												48			39	
	LwA (winter)												52			41	
1500 416,7	Vz	H = 2,7													0,73	0,63	0,56
		H = 3,2													0,58	0,52	0,46
		H = 3,8													0,46	0,42	0,38
	Vk (summer)															5,9	
	Vk (winter)															6,7	
	X															6,0	
	Y (ΔT = 10° C)															5,2	
	Pt (summer)															30	
	Pt (winter)															41	
	LwA (summer)															45	
	LwA (winter)															48	


Solutions

VARIABLE GEOMETRY DIFFUSERS
DGV SERIES

DGV Round diffuser with variable geometry
DGV-T Thermostatic round diffuser with variable geometry

VARIABLE GEOMETRY DIFFUSERS

SAMOVENT® TECHNIK

DIFUSIÓN Y VENTILACIÓN

DGV

DGV-T

DGV SERIES
DGV

CIRCULAR DIFFUSER WITH VARIABLE GEOMETRY

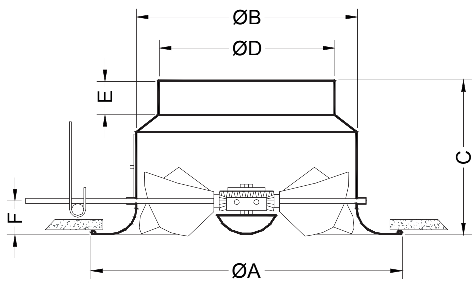
Model **DGV.** Circular diffuser of variable geometry with movable blades of simultaneous manual adjustment..
Model **DGV-P.** Circular diffuser of variable geometry with movable blades of simultaneous manual adjustment. Square plate.

Allows for an opening from 0º to 90º.
Made of aluminium with movable nylon blades.
Provided with equalizer plate. Standard finish white lacquer RAL 9010.

Operation:

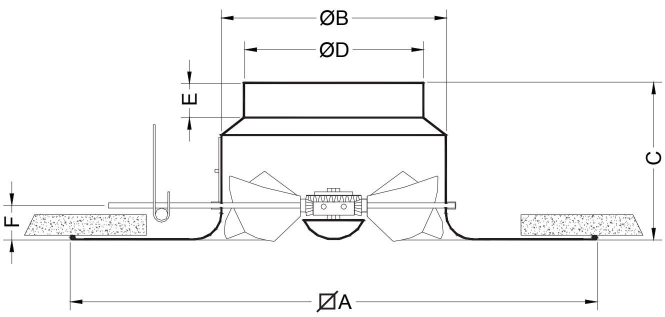
(MA) Manual
(MS) Built-in servomotor

DGV



	Ø D	Ø A	Ø B	C	E	F
DGV 200	198	350	248	180	40	50
DGV 250	248	400	298	205	40	55
DGV 315	313	500	398	230	40	65
DGV 400	398	615	465	270	60	65
DGV 500	498	780	565	320	60	85
DGV 630	628	935	665	390	80	125

DGV-P



	Ø D	Ø A	Ø B	C	E	F
DGV-P 200	198	596	248	180	40	50
DGV-P 250	248	596	298	205	40	55
DGV-P 315	313	596	398	230	40	65

DGV SERIES
DGV-T

CIRCULAR DIFFUSER WITH THERMOSTATIC VARIABLE GEOMETRY

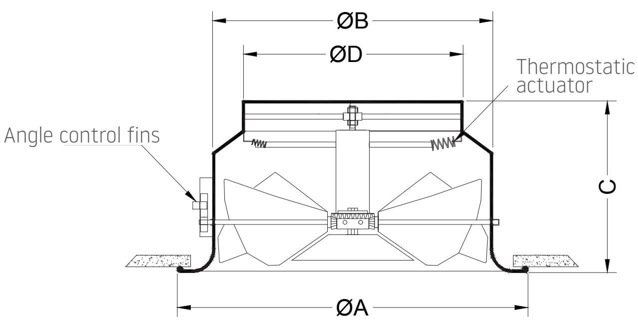
Model **DGV-T.** Variable geometry diffuser with thermostatic actuator.
Model **DGV-TP.** Difusor de geometría variable con actuador termostático. Placa cuadrada.

Variable geometry diffuser with thermostatic actuator. Square plate.
The DGV-T diffuser is characterised by the automatic regulation of its blades by means of a thermostatic actuator, due to the thermal memory effect of the Nickel-Titanium alloy. The regulation of the angle of deflection is very simple and intuitive by means of mechanical stops assisted by a colour scale. The colour of the graduated scale indicates the angle of the blades in the two conditioning positions (heating - cooling), red for the heating conditions and blue for the cooling conditions. When the supply air is hot (heating condition), the actuator will move the flow vertically. Conversely, when the supply air is cold (cooling condition), the actuator will move the flow horizontally, following the previously established angle of deflection.

The DGV-T diffuser does not need to be pre-adjusted prior to installation. Recommended installation height between 3.5 and 26 m. It can be installed in a duct, plenum or ceiling. The diffuser operates in a temperature range between 15 °C and 40 °C.

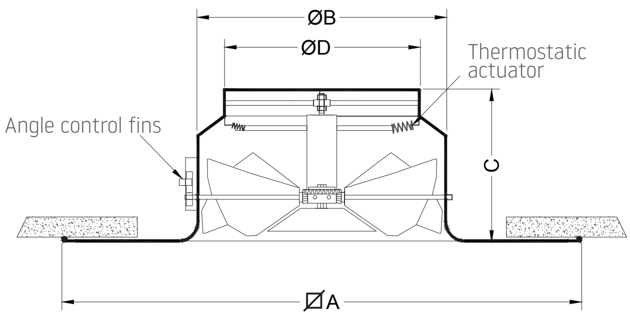
Made of aluminium with movable steel blades. Standard finish white lacquer RAL 9010.

DGV-T



	Ø D	Ø A	Ø B	C
DGV-T 200	198	350	248	180
DGV-T 250	248	400	298	205
DGV-T 315	313	500	398	230
DGV-T 400	398	615	465	270
DGV-T 500	498	780	565	320
DGV-T 630	628	935	665	390

DGV-TP



	Ø D	⌀ A	Ø B	C
DGV-TP 200	198	596	248	180
DGV-TP 250	248	596	298	205
DGV-TP 315	313	596	398	230

SERIES
DGV - DGV-T
SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area of the diffuser neck in m²
Hm = Minimum - maximum recommended installation height in m.
B(min) = Minimum recommended distance between diffusers in m.
Vk = Effective velocity at diffuser face in m/s.
X = Reach in m. for final velocity 0,25 m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

DGV		200	250	315	400	500	630
Q (m³/h) (l/s)	Ak	0.0305	0.0479	0.0765	0.1238	0.194	0.3088
	Hm	2,5 - 3,8	3,0 - 5,3	3,3 - 6	4,3 - 7,5	5,5 - 16	7,5 - 26
300 83,3	B(min) X Vk Pt LwA	2.4 1.7 2.7 13 35	1.6 1.3 1.7 5 24				
400 111,1	B(min) X Vk Pt LwA	3 2.3 3.6 22 44	2.2 1.8 2.3 9 32	2 1.1 1.5 4 22			
500 138,9	B(min) X Vk Pt LwA	3.8 2.9 4.6 34 51	2.8 2.2 2.9 13 39	2 1.4 1.8 5 24			
600 166,7	B(min) X Vk Pt LwA		3.4 2.7 3.5 20 44	2.4 1.7 2.2 7 29	2.8 1 1.3 4 22		
800 222,2	B(min) X Vk Pt LwA			3 2.2 2.9 14 38	2.8 1.3 1.8 5 25		
1000 277,8	B(min) X Vk Pt LwA			3.8 2.8 3.6 22 45	2.8 1.7 2.2 9 32	3.4 2.2 1.4 4 22	
2000 555,6	B(min) X Vk Pt LwA				5.4 3.4 4.5 34 53	4 4.6 2.9 13 40	4.2 3.5 1.8 5 24
3000 833,3	B(min) X Vk Pt LwA					6 7 4.3 31 52	4.4 5.5 2.7 13 35
4000 1111,1	B(min) X Vk Pt LwA						5.8 7.5 3.6 22 44
5000 1388,9	B(min) X Vk Pt LwA						7.2 9.6 4.5 34 51

* Values for isothermal supply closure without coanda effect.
** Values with 45º angle of inclination of fins.

SERIES DGV - DGV-T

ORDER FORM

DESCRIPTION

Round diffuser with variable geometry, with simultaneously adjustable mobile blades, type DGV 200.
Manual operation.
White lacquer finish, RAL 9010.

Order form:

DGV	200	BL

Variable geometry diffusers series:

DGV
DGV-P

Operation:

(MA) Manual
(MS) Built-in servomotor

DESCRIPTION

Round diffuser with variable geometry, with thermostatic actuator, type DGV-T 200.
White lacquer finish, RAL 9010.

Order form:

1SC	LxH	LxH

Variable geometry diffusers series:

DGV-T
DGV-TP

CATALOGUE

JET NOZZLES AND MULTI-JET NOZZLES

T SERIES

TJB	Long range jet nozzle
TJNT	Thermostatic long range jet nozzle
TO	Adjustable long range jet nozzle
TF	Fixed long range jet nozzle

SAMOVENT® TECHNIK

DIFUSIÓN Y VENTILACIÓN

JET NOZZLES AND MULTI-JET NOZZLES

SAMOVENT® TECHNIK

TJB

TJNT

TO

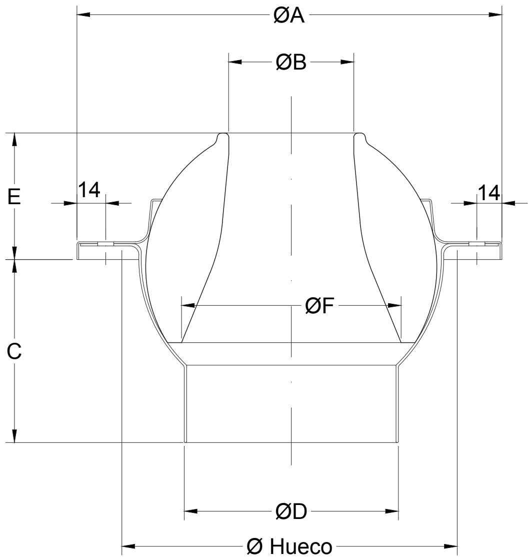
TF

T SERIES
TJB
LONG RANGE JET NOZZLE

Model **TJB.** Long range jet nozzle for air supply, manually steerable in multiple directions with a rotation angle of ±30º.

Made of aluminium.
Standard finish in white lacquer similar to RAL 9016.

TJB



TJB
Side view

	Ø D	Ø A	Ø B	C	E	Ø F	Ø hollow
TJB 1	120	232	70	105	75	123	185
TJB 2	175	298	100	115	100	168	250
TJB 3	222	349	130	125	130	214	300
TJB 4	252	407	162	150	135	243	360
TJB 5	298	455	192	162	157	298	405

DESCRIPTION

Long range jet nozzle, manually adjustable type TJB 1. White lacquer finish similar to RAL 9016.

Order form:

TJB	1	BL

T SERIES
TJB
SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
X = Reach in m. for final velocity Vz in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

HORIZONTAL DISCHARGE

	Size	1	2	3	4	5
Q (m³/h) (l/s)	**Ak**	**0,004**	**0,008**	**0,013**	**0,020**	**0,028**
100 27,8	Vk	7,2	3,5			
	X para Vz=0,25	12,6	8,8			
	X para Vz=0,50	6,3	4,4			
	X para Vz=1,0	3,2	2,2			
	Pt	27	6			
	LwA	< 10	< 10			
150 41,7	Vk	10,8	5,3	3,1	2,1	
	X para Vz=0,25	18,9	13,2	10,2	8,3	
	X para Vz=0,50	9,5	6,6	5,1	4,1	
	X para Vz=1,0	4,7	3,3	2,5	2,1	
	Pt	61	15	5	2	
	LwA	22	< 10	< 10	< 10	
200 55,6	Vk	14,4	7,1	4,2	2,8	
	X para Vz=0,25	25,2	17,6	13,6	11,0	
	X para Vz=0,50	12,6	8,8	6,8	5,5	
	X para Vz=1,0	6,3	4,4	3,4	2,8	
	Pt	108	26	9	4	
	LwA	30	11	< 10	< 10	
300 83,3	Vk	21,7	10,6	6,3	4,1	
	X para Vz=0,25	37,8	26,5	20,4	16,5	
	X para Vz=0,50	18,9	13,2	10,2	8,3	
	X para Vz=1,0	9,5	6,6	5,1	4,1	
	Pt	243	58	20	9	
	LwA	43	23	11	< 10	
400 111,1	Vk	28,9	4,1	8,4	5,5	3,9
	X para Vz=0,25	50,4	35,3	27,1	22,1	18,6
	X para Vz=0,50	25,2	17,6	13,6	11,0	9,3
	X para Vz=1,0	12,6	8,8	6,8	5,5	4,6
	Pt	432	104	36	16	8
	LwA	51	32	19	< 10	< 10
500 138,9	Vk		17,7	10,5	6,9	4,9
	X para Vz=0,25		44,1	33,9	27,6	23,2
	X para Vz=0,50		22,1	17,0	13,8	11,6
	X para Vz=1,0		11,0	8,5	6,9	5,8
	Pt		162	57	25	12
	LwA		39	25	15	< 10
600 166,7	Vk		21,2	12,6	8,3	5,9
	X para Vz=0,25		52,9	40,7	33,1	27,9
	X para Vz=0,50		26,5	20,4	16,5	13,9
	X para Vz=1,0		13,2	10,2	8,3	7,0
	Pt		233	82	36	18
	LwA		44	31	20	11
800 222,2	Vk		28,3	16,7	11,1	7,8
	X para Vz=0,25		70,6	54,3	44,1	37,1
	X para Vz=0,50		35,3	27,1	22,1	18,6
	X para Vz=1,0		17,6	13,6	11,0	9,3
	Pt		415	145	63	32
	LwA		53	39	28	20
1000 277,8	Vk			20,9	13,8	9,8
	X para Vz=0,25			67,8	55,1	46,4
	X para Vz=0,50			33,9	27,6	23,2
	X para Vz=1,0			17,0	13,8	11,6
	Pt			227	99	50
	LwA			45	35	26
1250 347,2	Vk				17,3	12,2
	X para Vz=0,25				68,9	58,0
	X para Vz=0,50				34,5	29,0
	X para Vz=1,0				17,2	14,5
	Pt				155	78
	LwA				41	33
1500 416,7	Vk				20,7	14,7
	X para Vz=0,25				82,7	69,6
	X para Vz=0,50				41,3	34,8
	X para Vz=1,0				20,7	17,4
	Pt				223	112
	LwA				47	38
2000 555,6	Vk					19,6
	X para Vz=0,25					92,8
	X para Vz=0,50					46,4
	X para Vz=1,0					23,2
	Pt					199
	LwA					47

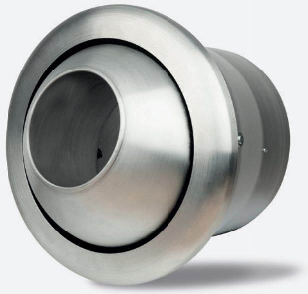
T SERIES
TJB
SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
X = Reach in m. for final velocity Vz in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

VERTICAL DISCHARGE

	Size	1	2	3	4	5
Q (m³/h) (l/s)	Ak	0,004	0,008	0,013	0,020	0,028
100 27,8	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA	7,2 8,4 6,0 4,2 27 < 10	3,5 4,9 3,5 2,5 6 < 10			
150 41,7	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA	10,8 12,7 9,0 6,3 61 22	5,3 7,4 5,2 3,7 15 < 10	3,1 5,0 3,5 2,5 5 < 10	2,1 3,7 2,6 1,8 2 < 10	
200 55,6	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA	14,4 16,9 11,9 8,4 108 30	7,1 9,9 7,0 4,9 26 11	4,2 6,7 4,7 3,3 9 < 10	2,8 4,9 3,5 2,4 4 < 10	
300 83,3	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA	21,7 25,3 17,9 12,7 243 43	10,6 14,8 10,5 7,4 58 23	6,3 10,0 7,1 5,0 20 11	4,1 7,3 5,2 3,7 9 < 10	
400 111,1	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA	28,9 33,8 23,9 16,9 432 51	14,1 19,8 14,0 9,9 104 32	8,4 13,3 9,4 6,7 36 19	5,5 9,8 6,9 4,9 16 < 10	
500 138,9	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA		17,7 24,7 17,5 12,4 162 39	10,5 16,7 11,8 8,3 57 25	6,9 12,2 8,6 6,1 25 15	4,9 9,4 6,7 4,7 12 < 10
600 166,7	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA		21,2 29,7 21,0 14,8 233 44	12,6 20,0 14,2 10,0 82 31	8,3 14,7 10,4 7,3 36 20	5,9 11,3 8,0 5,7 18 11
800 222,2	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA		28,3 39,6 28,0 19,8 415 53	16,7 26,7 18,9 13,3 145 39	11,1 19,5 13,8 9,8 63 28	7,8 15,1 10,7 7,6 32 20
1000 277,8	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA			20,9 33,4 23,6 16,7 227 45	13,8 24,4 17,3 12,2 99 35	9,8 18,9 13,4 9,4 50 26
1250 347,2	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA				17,3 30,5 21,6 15,3 155 41	12,2 23,6 16,7 11,8 78 33
1500 416,7	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA				20,7 36,7 25,9 18,3 223 47	14,7 28,3 20,0 14,2 112 38
2000 555,6	Vk Y (ΔT = 5ºC) Y (ΔT = 10ºC) Y (ΔT = 20ºC) Pt LwA					19,6 37,8 26,7 18,9 199 47

T SERIES
TJNT
THERMOSTATIC LONG RANGE JET NOZZLE



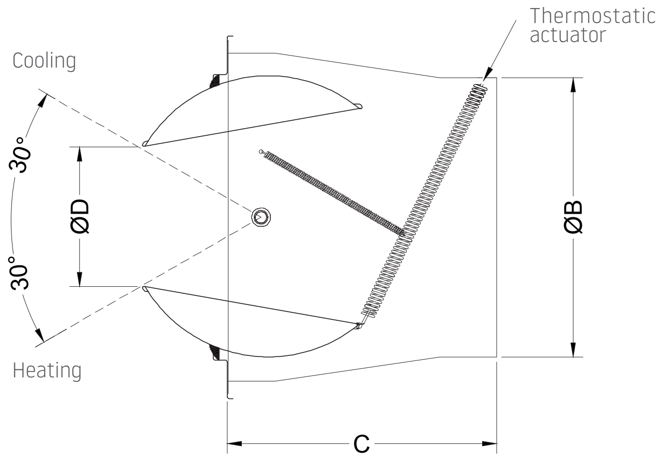
Model **TJNT.** Long range jet nozzle for air supply, steerable in multiple directions, with limit angle of ±30º, and thermostatic actuator.

The TJNT jet nozzle is characterised by its automatic control by means of a thermostatic actuator, thanks to the thermal memory effect of the nickel-titanium alloy.

When the supplied air is hot (heating condition), the actuator will move the flow downwards. On the contrary, when the supplied air is cold (cooling condition), the actuator will move the flow horizontally, following the previously established angle of deflection.

Made of aluminium.
Standard finish in natural satin aluminium.

TJNT



	Ø D	Ø B	C
TJNT 150	150	298	285
TJNT 200	200	398	290
TJNT 230	230	398	290

TJNT
Cooling condition

TJNT
Heating condition

DESCRIPTION

Long range jet nozzle, with thermostatic actuator type TJNT 150. Natural satin aluminium finish.

Order form:

TJNT	150	AL

T SERIES
TJB
SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
X = throw in m. for a final velocity of 0.25 m/s
Pt = Pressure drop in Pa
LwA = Sound power in dB(A)

	Size	150	200	230
Q (m³/h) (l/s)	Ak	0,018	0,031	0,042
400 111,1	Vk X Pt LwA	6,3 21,8 25 16		
600 166,7	Vk X Pt LwA	9,4 25,4 56 27		
800 222,2	Vk X Pt LwA	12,6 27,9 100 34	7,1 25,3 32 17	
1000 277,8	Vk X Pt LwA	15,7 29,9 155 40	8,8 27,3 50 23	6,7 27,9 29 18
1250 347,2	Vk X Pt LwA	19,6 31,9 242 46	11,1 29,3 77 30	8,4 30,0 44 25
1500 416,7	Vk X Pt LwA	23,6 33,5 347 50	13,3 30,9 111 36	10,0 31,8 64 30
1750 486,1	Vk X Pt LwA		15,5 32,3 150 40	11,7 33,2 86 35
2000 555,6	Vk X Pt LwA		17,7 33,4 196 44	13,4 34,5 113 40
2250 625,0	Vk X Pt LwA		19,9 34,5 248 48	15,0 35,6 142 43

T SERIES TO

ADJUSTABLE LONG RANGE JET NOZZLE

Model **TO.** Manually adjustable long range jet nozzle.
Model **TO-C.** Set of multi-jet nozzles suitable for connection to duct.
Model **TO-R.** Set of multi-jet nozzles fitted to a grille frame.

Made of ABS.
Standard finishes in white and grey. Black (optional).

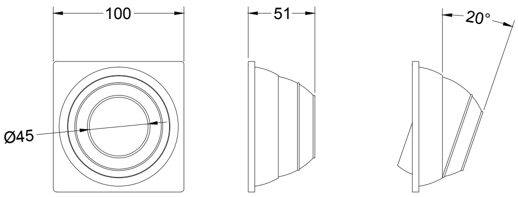
Fixing systems:

(C) Clip (optional)
(T) Visible screw (optional)
(A-39) x (B-39)
(-) Without fixing (Standard)
Hole dimensions for (T) and (-) (A-25) x (B-25)

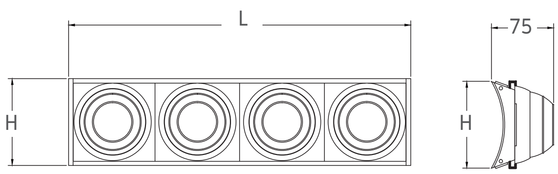
Accessories:

(MM) Mounting frame for TO-R
Hole dimensions
for clip (C) (A-25) x (B-25)

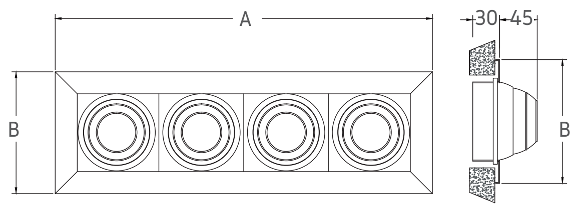
TO



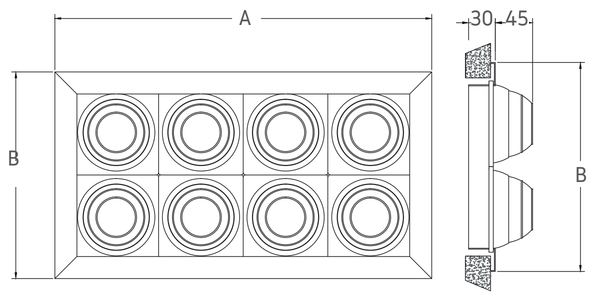
TO-C



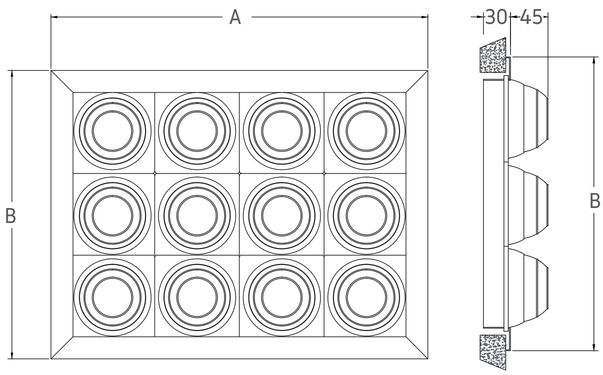
TO-R 1



TO-R 2



TO-R 3



T SERIES TO

SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
X = Reach in m. for final velocity Vz in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

CORRECTION TABLE No. ROWS OF NOZZLES

	2 Rows	3 Rows
Q	x 2	x 3
Vk	x 1	x 1
X	x 1,41	x 1,73
Pt	x 1	x 1
LwA	+ 3	+ 4,8

HORIZONTAL DISCHARGE

Q (m³/h)/nozzle	No. of nozzles	1	2	3	4	5	6	7	8	9	10
	Size	**1x1**	**1x2**	**1x3**	**1x4**	**1x5**	**1x6**	**1x7**	**1x8**	**1x9**	**1x10**
40 (m³/h)/nozzle	Q (m³/h) set	40	80	120	160	200	240	280	320	360	400
	Vk X para Vz=0,25 X para Vz=0,50 X para Vz=1,0 Pt LwA	7,0 5,8 2,9 1,4 33 < 10	7,0 8,2 4,1 2,0 33 11	7,0 10,0 5,0 2,5 33 13	7,0 11,6 5,8 2,9 33 14	7,0 13,0 6,5 3,2 33 15	7,0 14,2 7,1 3,5 33 16	7,0 15,3 7,7 3,8 33 17	7,0 16,4 8,2 4,1 33 17	7,0 17,4 8,7 4,3 33 18	7,0 18,3 9,2 4,6 33 18
50 (m³/h)/nozzle	Q (m³/h) set	50	100	150	200	250	300	350	400	450	500
	Vk X para Vz=0,25 X para Vz=0,50 X para Vz=1,0 Pt LwA	8,7 7,2 3,6 1,8 51 14	8,7 10,2 5,1 2,6 51 17	8,7 12,5 6,3 3,1 51 19	8,7 14,5 7,2 3,6 51 20	8,7 16,2 8,1 4,0 51 21	8,7 17,7 8,9 4,4 51 22	8,7 19,2 9,6 4,8 51 22	8,7 20,5 10,2 5,1 51 23	8,7 21,7 10,9 5,4 51 24	8,7 22,9 11,4 5,7 51 24
60 (m³/h)/nozzle	Q (m³/h) set	60	120	180	240	300	360	420	480	540	600
	Vk X para Vz=0,25 X para Vz=0,50 X para Vz=1,0 Pt LwA	10,5 8,7 4,3 2,2 74 19	10,5 12,3 6,1 3,1 74 22	10,5 15,0 7,5 3,8 74 24	10,5 17,4 8,7 4,3 74 25	10,5 19,4 9,7 4,9 74 26	10,5 21,3 10,6 5,3 74 27	10,5 23,0 11,5 5,7 74 27	10,5 24,6 12,3 6,1 74 28	10,5 26,1 13,0 6,5 74 28	10,5 27,5 13,7 6,9 74 29
70 (m³/h)/nozzle	Q (m³/h) set	70	140	210	280	350	420	490	560	630	700
	Vk X para Vz=0,25 X para Vz=0,50 X para Vz=1,0 Pt LwA	12,2 10,1 5,1 2,5 101 23	12,2 14,3 7,2 3,6 101 26	12,2 17,6 8,8 4,4 101 28	12,2 20,3 10,1 5,1 101 29	12,2 22,7 11,3 5,7 101 30	12,2 24,8 12,4 6,2 101 31	12,2 26,8 13,4 6,7 101 31	12,2 28,7 14,3 7,2 101 32	12,2 30,4 15,2 7,6 101 32	12,2 32,1 16,0 8,0 101 33
80 (m³/h)/nozzle	Q (m³/h) set	80	160	240	320	400	480	560	640	720	800
	Vk X para Vz=0,25 X para Vz=0,50 X para Vz=1,0 Pt LwA	14,0 11,6 5,8 2,9 132 26	14,0 16,4 8,2 4,1 132 29	14,0 20,1 10,0 5,0 132 31	14,0 23,2 11,6 5,8 132 32	14,0 25,9 13,0 6,5 132 33	14,0 28,4 14,2 7,1 132 34	14,0 30,7 15,3 7,7 132 35	14,0 32,8 16,4 8,2 132 35	14,0 34,8 17,4 8,7 132 36	14,0 36,6 18,3 9,2 132 36
90 (m³/h)/nozzle	Q (m³/h) set	90	180	270	360	450	540	630	720	810	900
	Vk X para Vz=0,25 X para Vz=0,50 X para Vz=1,0 Pt LwA	15,7 13,0 6,5 3,3 167 30	15,7 18,4 9,2 4,6 167 33	15,7 22,6 11,3 5,6 167 34	15,7 26,1 13,0 6,5 167 36	15,7 29,1 14,6 7,3 167 37	15,7 31,9 16,0 8,0 167 37	15,7 34,5 17,2 8,6 167 38	15,7 36,9 18,4 9,2 167 39	15,7 39,1 19,6 9,8 167 39	15,7 41,2 20,6 10,3 167 40
100 (m³/h)/nozzle	Q (m³/h) set	100	200	300	400	500	600	700	800	900	1000
	Vk X para Vz=0,25 X para Vz=0,50 X para Vz=1,0 Pt LwA	17,5 14,5 7,2 3,6 206 32	17,5 20,5 10,2 5,1 206 35	17,5 25,1 12,5 6,3 206 37	17,5 29,0 14,5 7,2 206 38	17,5 32,4 16,2 8,1 206 39	17,5 35,5 17,7 8,9 206 40	17,5 38,3 19,2 9,6 206 41	17,5 41,0 20,5 10,2 206 41	17,5 43,4 21,7 10,9 206 42	17,5 45,8 22,9 11,4 206 42
110 (m³/h)/nozzle	Q (m³/h) set	110	220	330	440	550	660	770	880	990	1100
	Vk X para Vz=0,25 X para Vz=0,50 X para Vz=1,0 Pt LwA	19,2 15,9 8,0 4,0 249 35	19,2 22,5 11,3 5,6 249 38	19,2 27,6 13,8 6,9 249 40	19,2 31,9 15,9 8,0 249 41	19,2 35,6 17,8 8,9 249 42	19,2 39,0 19,5 9,8 249 43	19,2 42,1 21,1 10,5 249 43	19,2 45,1 22,5 11,3 249 44	19,2 47,8 23,9 11,9 249 44	19,2 50,4 25,2 12,6 249 45

T SERIES TO

SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
X = Reach in m. for final velocity Vz in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

CORRECTION TABLE No. ROWS OF NOZZLES

	2 Rows	3 Rows
Q	x 2	x 3
Vk	x 1	x 1
X	x 1,41	x 1,73
Pt	x 1	x 1
LwA	+ 3	+ 4,8

VERTICAL DISCHARGE

Q (m³/h)/nozzle	No. of nozzles	1	2	3	4	5	6	7	8	9	10
	Size	1x1	1x2	1x3	1x4	1x5	1x6	1x7	1x8	1x9	1x10
40 (m³/h)/nozzle	Q (m³/h) set	40	80	120	160	200	240	280	320	360	400
	Vk	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0
	Y (ΔT = 5ºC)	5,6	6,7	7,4	8,0	8,4	8,8	9,2	9,5	9,8	10,0
	Y (ΔT = 10ºC)	4,0	4,7	5,2	5,6	6,0	6,2	6,5	6,7	6,9	7,1
	Y (ΔT = 20ºC)	2,8	3,3	3,7	4,0	4,2	4,4	4,6	4,7	4,9	5,0
	Pt	33	33	33	33	33	33	33	33	33	33
	LwA	< 10	11	13	14	15	16	17	17	18	18
50 (m³/h)/nozzle	Q (m³/h) set	50	100	150	200	250	300	350	400	450	500
	Vk	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7
	Y (ΔT = 5ºC)	7,0	8,4	9,3	10,0	10,5	11,0	11,5	11,8	12,2	12,5
	Y (ΔT = 10ºC)	5,0	5,9	6,6	7,0	7,4	7,8	8,1	8,4	8,6	8,9
	Y (ΔT = 20ºC)	3,5	4,2	4,6	5,0	5,3	5,5	5,7	5,9	6,1	6,3
	Pt	51	51	51	51	51	51	51	51	51	51
	LwA	14	17	19	20	21	22	22	23	24	24
60 (m³/h)/nozzle	Q (m³/h) set	60	120	180	240	300	360	420	480	540	600
	Vk	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5
	Y (ΔT = 5ºC)	8,5	10,0	11,1	12,0	12,6	13,2	13,7	14,2	14,6	15,0
	Y (ΔT = 10ºC)	6,0	7,1	7,9	8,5	8,9	9,4	9,7	10,0	10,3	10,6
	Y (ΔT = 20ºC)	4,2	5,0	5,6	6,0	6,3	6,6	6,9	7,1	7,3	7,5
	Pt	74	74	74	74	74	74	74	74	74	74
	LwA	19	22	24	25	26	27	27	28	28	29
70 (m³/h)/nozzle	Q (m³/h) set	70	140	210	280	350	420	490	560	630	700
	Vk	12,2	12,2	12,2	12,2	12,2	12,2	12,2	12,2	12,2	12,2
	Y (ΔT = 5ºC)	9,9	11,7	13,0	13,9	14,7	15,4	16,0	16,6	17,1	17,5
	Y (ΔT = 10ºC)	7,0	8,3	9,2	9,9	10,4	10,9	11,3	11,7	12,1	12,4
	Y (ΔT = 20ºC)	4,9	5,9	6,5	7,0	7,4	7,7	8,0	8,3	8,5	8,8
	Pt	101	101	101	101	101	101	101	101	101	101
	LwA	23	26	28	29	30	31	31	32	32	33
80 (m³/h)/nozzle	Q (m³/h) set	80	160	240	320	400	480	560	640	720	800
	Vk	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
	Y (ΔT = 5ºC)	11,3	13,4	14,8	15,9	16,8	17,6	18,3	18,9	19,5	20,0
	Y (ΔT = 10ºC)	8,0	9,5	10,5	11,3	11,9	12,5	13,0	13,4	13,8	14,2
	Y (ΔT = 20ºC)	5,6	6,7	7,4	8,0	8,4	8,8	9,2	9,5	9,8	10,0
	Pt	132	132	132	132	132	132	132	132	132	132
	LwA	26	29	31	32	33	34	35	35	36	36
90 (m³/h)/nozzle	Q (m³/h) set	90	180	270	360	450	540	630	720	810	900
	Vk	15,7	15,7	15,7	15,7	15,7	15,7	15,7	15,7	15,7	15,7
	Y (ΔT = 5ºC)	12,7	15,1	16,7	17,9	19,0	19,8	20,6	21,3	22,0	22,5
	Y (ΔT = 10ºC)	9,0	10,7	11,8	12,7	13,4	14,0	14,6	15,1	15,5	15,9
	Y (ΔT = 20ºC)	6,3	7,5	8,3	9,0	9,5	9,9	10,3	10,7	11,0	11,3
	Pt	167	167	167	167	167	167	167	167	167	167
	LwA	30	33	34	36	37	37	38	39	39	40
100 (m³/h)/nozzle	Q (m³/h) set	100	200	300	400	500	600	700	800	900	1000
	Vk	17,5	17,5	17,5	17,5	17,5	17,5	17,5	17,5	17,5	17,5
	Y (ΔT = 5ºC)	14,1	16,7	18,5	19,9	21,1	22,0	22,9	23,7	24,4	25,0
	Y (ΔT = 10ºC)	8,0	11,4	13,9	16,1	18,0	19,7	21,2	22,7	24,1	25,4
	Y (ΔT = 20ºC)	7,0	8,4	9,3	10,0	10,5	11,0	11,5	11,8	12,2	12,5
	Pt	206	206	206	206	206	206	206	206	206	206
	LwA	32	35	37	38	39	40	41	41	42	42
110 (m3/h)/nozzle	Q (m³/h) set	110	220	330	440	550	660	770	880	990	1100
	Vk	19,2	19,2	19,2	19,2	19,2	19,2	19,2	19,2	19,2	19,2
	Y (ΔT = 5ºC)	15,5	18,4	20,4	21,9	23,2	24,2	25,2	26,1	26,8	27,6
	Y (ΔT = 10ºC)	11,0	13,0	14,4	15,5	16,4	17,1	17,8	18,4	19,0	19,5
	Y (ΔT = 20ºC)	7,7	9,2	10,2	11,0	11,6	12,1	12,6	13,0	13,4	13,8
	Pt	249	249	249	249	249	249	249	249	249	249
	LwA	35	38	40	41	42	43	43	44	44	45
150 (m³/h)/nozzle	Q (m³/h) set	150	300	450	600	750	900	1050	1200	1350	1500
	Vk	26,2	26,2	26,2	26,2	26,2	26,2	26,2	26,2	26,2	26,2
	Y (ΔT = 5ºC)	21,1	25,1	27,8	29,9	31,6	33,1	34,4	35,5	36,6	37,6
	Y (ΔT = 10ºC)	14,9	17,8	19,7	21,1	22,3	23,4	24,3	25,1	25,9	26,6
	Y (ΔT = 20ºC)	10,6	12,6	13,9	14,9	15,8	16,5	17,2	17,8	18,3	18,8
	Pt	463	463	463	463	463	463	463	463	463	463
	LwA	43	46	48	49	50	51	52	52	53	53

T SERIES TF

FIXED LONG-RANGE NOZZLE

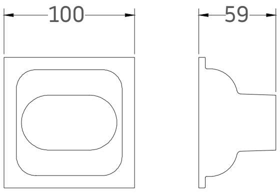
Model **TF.** Fixed long-range nozzle.
Model **TF-C.** Set of long-range nozzles that can be coupled to a duct.
Model **TF-R.** Long-range nozzle assembly with grid frame.

Made of ABS.
Standard finish in white.

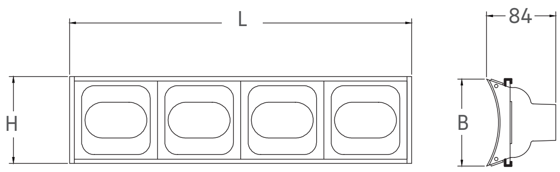
Fixing systems:
- **(C)** Clip (optional)
- **(T)** Visible screw (optional)
  (A-39) x (B-39)
- **(-)** Without fixing (Standard)
  Hole dimensions for (T) and (-) (A-25) x (B-25)

Accessories:
- **(MM)** Mounting frame for TO-R
  Hole dimensions
  for clip (C) (A-25) x (B-25)

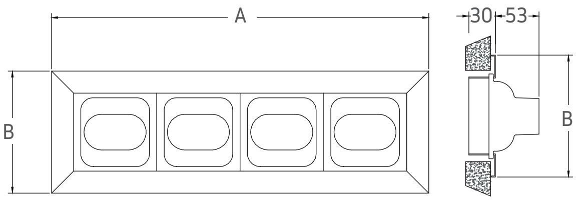
TF



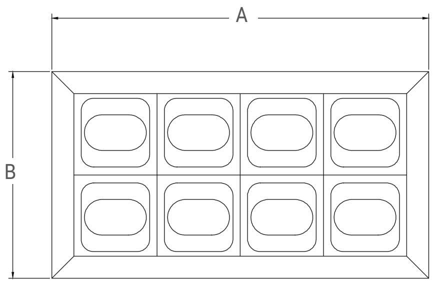
TF-C



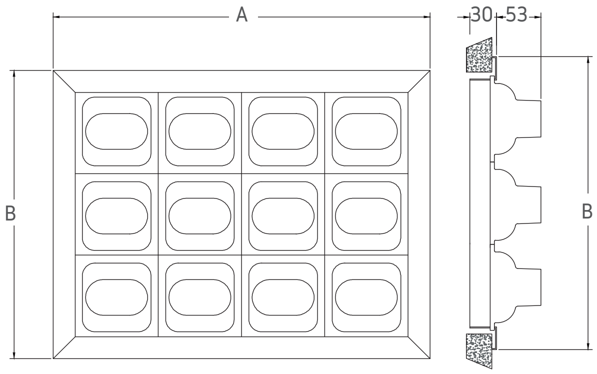
TF-R 1



TF-R 2



TF-R 3



T SERIES
TO-R - TF-R
TO-C - TF-C
SELECTION TABLE

TO-R - TF-R

STANDARDIZED NOMINAL DIMENSIONS

No. per row	3	4	5	6	7	8	9	10
A	345	445	545	645	745	845	945	1045
B TO -R 1x_ / TF-R 1x_	145							
B TO -R 2x_ / TF-R 2x_	247							
B TO -R 3x_ / TF-R 3x_	349							

TO-C - TF-C

STANDARDIZED NOMINAL DIMENSIONS

No. per row	3	4	5	6	7	8	9	10
L	320	420	520	620	720	820	920	1020
H	117							

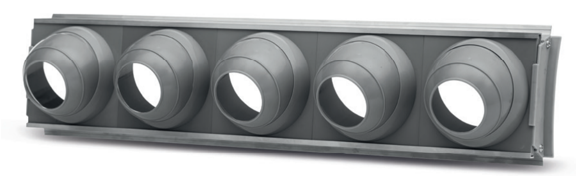
TO-C - TF-C

FINISH

TR	Rectangular duct cover
TD15	Duct cover Ø 150 to 250
TD30	Duct cover Ø 300 to 600

Example of dimension

TO-C 1x5



T SERIES TF

SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
X = Reach in m. for final velocity Vz in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

CORRECTION TABLE NO. ROWS OF NOZZLES

	2 Rows	3 Rows
Q	x 2	x 3
Vk	x 1	x 1
X	x 1,41	x 1,73
Pt	x 1	x 1
LwA	+ 3	+ 4,8

HORIZONTAL DISCHARGE

Q (m³/h)/nozzle	Nº de nozzle	1	2	3	4	5	6	7	8	9	10
	Size	1x1	1x2	1x3	1x4	1x5	1x6	1x7	1x8	1x9	1x10
75 (m³/h)/nozzle	Q (m³/h) set	75	150	225	300	375	450	525	600	675	750
	Vk	7,8	7,8	7,8	7,8	7,8	7,8	7,8	7,8	7,8	7,8
	X para Vz=0,25	8,4	11,8	14,5	16,7	18,7	20,5	22,1	23,6	25,1	26,4
	X para Vz=0,50	4,2	5,9	7,2	8,4	9,3	10,2	11,1	11,8	12,5	13,2
	X para Vz=1,0	2,1	3,0	3,6	4,2	4,7	5,1	5,5	5,9	6,3	6,6
	Pt	44	44	44	44	44	44	44	44	44	44
	LwA	15	18	20	21	22	23	23	24	24	25
100 (m³/h)/nozzle	Q (m³/h) set	100	200	300	400	500	600	700	800	900	1000
	Vk	10,3	10,3	10,3	10,3	10,3	10,3	10,3	10,3	10,3	10,3
	X para Vz=0,25	11,1	15,8	19,3	22,3	24,9	27,3	29,5	31,5	33,4	35,2
	X para Vz=0,50	5,6	7,9	9,7	11,1	12,5	13,6	14,7	15,8	16,7	17,6
	X para Vz=1,0	2,8	3,9	4,8	5,6	6,2	6,8	7,4	7,9	8,4	8,8
	Pt	79	79	79	79	79	79	79	79	79	79
	LwA	23	26	28	29	30	31	32	32	33	33
125 (m³/h)/nozzle	Q (m³/h) set	125	250	375	500	625	750	875	1000	1125	1250
	Vk	12,9	12,9	12,9	12,9	12,9	12,9	12,9	12,9	12,9	12,9
	X para Vz=0,25	13,9	19,7	24,1	27,9	31,2	34,1	36,9	39,4	41,8	44,1
	X para Vz=0,50	7,0	9,9	12,1	13,9	15,6	17,1	18,4	19,7	20,9	22,0
	X para Vz=1,0	3,5	4,9	6,0	7,0	7,8	8,5	9,2	9,9	10,4	11,0
	Pt	123	123	123	123	123	123	123	123	123	123
	LwA	30	33	34	36	37	37	38	39	39	40
150 (m³/h)/nozzle	Q (m³/h) set	150	300	450	600	750	900	1050	1200	1350	1500
	Vk	15,5	15,5	15,5	15,5	15,5	15,5	15,5	15,5	15,5	15,5
	X para Vz=0,25	16,7	23,6	29,0	33,4	37,4	40,9	44,2	47,3	50,2	52,9
	X para Vz=0,50	8,4	11,8	14,5	16,7	18,7	20,5	22,1	23,6	25,1	26,4
	X para Vz=1,0	4,2	5,9	7,2	8,4	9,3	10,2	11,1	11,8	12,5	13,2
	Pt	177	177	177	177	177	177	177	177	177	177
	LwA	35	38	40	41	42	43	43	44	45	45
175 (m³/h)/nozzle	Q (m³/h) set	175	350	525	700	875	1050	1225	1400	1575	1750
	Vk	18,1	18,1	18,1	18,1	18,1	18,1	18,1	18,1	18,1	18,1
	X para Vz=0,25	19,5	27,6	33,8	39,0	43,6	47,8	51,6	55,2	58,5	61,7
	X para Vz=0,50	9,8	13,8	16,9	19,5	21,8	23,9	25,8	27,6	29,3	30,8
	X para Vz=1,0	4,9	6,9	8,4	9,8	10,9	11,9	12,9	13,8	14,6	15,4
	Pt	241	241	241	241	241	241	241	241	241	241
	LwA	39	42	44	45	46	47	48	49	49	49
200 (m³/h)/nozzle	Q (m³/h) set	200	400	600	800	1000	1200	1400	1600	1800	2000
	Vk	20,7	20,7	20,7	20,7	20,7	20,7	20,7	20,7	20,7	20,7
	X para Vz=0,25	22,3	31,5	38,6	44,6	49,8	54,6	59,0	63,0	66,9	70,5
	X para Vz=0,50	11,1	15,8	19,3	22,3	24,9	27,3	29,5	31,5	33,4	35,2
	X para Vz=1,0	5,6	7,9	9,7	11,1	12,5	13,6	14,7	15,8	16,7	17,6
	Pt	314	314	314	314	314	314	314	314	314	314
	LwA	43	46	48	49	50	51	52	52	53	53
225 (m³/h)/nozzle	Q (m³/h) set	225	450	675	900	1125	1350	1575	1800	2025	2250
	Vk	23,3	23,3	23,3	23,3	23,3	23,3	23,3	23,3	23,3	23,3
	X para Vz=0,25	25,1	35,5	43,4	50,2	56,1	61,4	66,3	70,9	75,2	79,3
	X para Vz=0,50	12,5	17,7	21,7	25,1	28,0	30,7	33,2	35,5	37,6	39,6
	X para Vz=1,0	6,3	8,9	10,9	12,5	14,0	15,4	16,6	17,7	18,8	19,8
	Pt	398	398	398	398	398	398	398	398	398	398
	LwA	47	50	52	53	54	55	55	56	56	57
250 (m³/h)/nozzle	Q (m³/h) set	250	500	750	1000	1250	1500	1750	2000	2250	2500
	Vk	25,8	25,8	25,8	25,8	25,8	25,8	25,8	25,8	25,8	25,8
	X para Vz=0,25	27,9	39,4	48,3	55,7	62,3	68,2	73,7	78,8	83,6	88,1
	X para Vz=0,50	13,9	19,7	24,1	27,9	31,2	34,1	36,9	39,4	41,8	44,1
	X para Vz=1,0	7,0	9,9	12,1	13,9	15,6	17,1	18,4	19,7	20,9	22,0
	Pt	491	491	491	491	491	491	491	491	491	491
	LwA	50	53	55	56	57	58	58	59	59	60

T SERIES TF

SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
X = Reach in m. for final velocity Vz in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

CORRECTION TABLE NO. ROWS OF NOZZLES

	2 Rows	3 Rows
Q	x 2	x 3
Vk	x 1	x 1
X	x 1,19	x 1,32
Pt	x 1	x 1
LwA	+ 3	+ 4,8

VERTICAL DISCHARGE

Q (m^3/h)/nozzle	Nº de nozzle	1	2	3	4	5	6	7	8	9	10
	Size	1x1	1x2	1x3	1x4	1x5	1x6	1x7	1x8	1x9	1x10
40 (m^3/h)/nozzle	Q (m^3/h) set	40	80	120	160	200	240	280	320	360	400
	Vk	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0
	Y (ΔT = 5ºC)	5,6	6,7	7,4	8,0	8,4	8,8	9,2	9,5	9,8	10,0
	Y (ΔT = 10ºC)	4,0	4,7	5,2	5,6	6,0	6,2	6,5	6,7	6,9	7,1
	Y (ΔT = 20ºC)	2,8	3,3	3,7	4,0	4,2	4,4	4,6	4,7	4,9	5,0
	Pt	33	33	33	33	33	33	33	33	33	33
	LwA	< 10	11	13	14	15	16	17	17	18	18
50 (m^3/h)/nozzle	Q (m^3/h) set	50	100	150	200	250	300	350	400	450	500
	Vk	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7
	Y (ΔT = 5ºC)	7,0	8,4	9,3	10,0	10,5	11,0	11,5	11,8	12,2	12,5
	Y (ΔT = 10ºC)	5,0	5,9	6,6	7,0	7,4	7,8	8,1	8,4	8,6	8,9
	Y (ΔT = 20ºC)	3,5	4,2	4,6	5,0	5,3	5,5	5,7	5,9	6,1	6,3
	Pt	51	51	51	51	51	51	51	51	51	51
	LwA	14	17	19	20	21	22	22	23	24	24
60 (m^3/h)/nozzle	Q (m^3/h) set	60	120	180	240	300	360	420	480	540	600
	Vk	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5	10,5
	Y (ΔT = 5ºC)	8,5	10,0	11,1	12,0	12,6	13,2	13,7	14,2	14,6	15,0
	Y (ΔT = 10ºC)	6,0	7,1	7,9	8,5	8,9	9,4	9,7	10,0	10,3	10,6
	Y (ΔT = 20ºC)	4,2	5,0	5,6	6,0	6,3	6,6	6,9	7,1	7,3	7,5
	Pt	74	74	74	74	74	74	74	74	74	74
	LwA	19	22	24	25	26	27	27	28	28	29
70 (m^3/h)/nozzle	Q (m^3/h) set	70	140	210	280	350	420	490	560	630	700
	Vk	12,2	12,2	12,2	12,2	12,2	12,2	12,2	12,2	12,2	12,2
	Y (ΔT = 5ºC)	9,9	11,7	13,0	13,9	14,7	15,4	16,0	16,6	17,1	17,5
	Y (ΔT = 10ºC)	7,0	8,3	9,2	9,9	10,4	10,9	11,3	11,7	12,1	12,4
	Y (ΔT = 20ºC)	4,9	5,9	6,5	7,0	7,4	7,7	8,0	8,3	8,5	8,8
	Pt	101	101	101	101	101	101	101	101	101	101
	LwA	23	26	28	29	30	31	31	32	32	33
80 (m^3/h)/nozzle	Q (m^3/h) set	80	160	240	320	400	480	560	640	720	800
	Vk	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
	Y (ΔT = 5ºC)	11,3	13,4	14,8	15,9	16,8	17,6	18,3	18,9	19,5	20,0
	Y (ΔT = 10ºC)	8,0	9,5	10,5	11,3	11,9	12,5	13,0	13,4	13,8	14,2
	Y (ΔT = 20ºC)	5,6	6,7	7,4	8,0	8,4	8,8	9,2	9,5	9,8	10,0
	Pt	132	132	132	132	132	132	132	132	132	132
	LwA	26	29	31	32	33	34	35	35	36	36
90 (m^3/h)/nozzle	Q (m^3/h) set	90	180	270	360	450	540	630	720	810	900
	Vk	15,7	15,7	15,7	15,7	15,7	15,7	15,7	15,7	15,7	15,7
	Y (ΔT = 5ºC)	12,7	15,1	16,7	17,9	19,0	19,8	20,6	21,3	22,0	22,5
	Y (ΔT = 10ºC)	9,0	10,7	11,8	12,7	13,4	14,0	14,6	15,1	15,5	15,9
	Y (ΔT = 20ºC)	6,3	7,5	8,3	9,0	9,5	9,9	10,3	10,7	11,0	11,3
	Pt	167	167	167	167	167	167	167	167	167	167
	LwA	30	33	34	36	37	37	38	39	39	40
100 (m^3/h)/nozzle	Q (m^3/h) set	100	200	300	400	500	600	700	800	900	1000
	Vk	17,5	17,5	17,5	17,5	17,5	17,5	17,5	17,5	17,5	17,5
	Y (ΔT = 5ºC)	14,1	16,7	18,5	19,9	21,1	22,0	22,9	23,7	24,4	25,0
	Y (ΔT = 10ºC)	8,0	11,4	13,9	16,1	18,0	19,7	21,2	22,7	24,1	25,4
	Y (ΔT = 20ºC)	7,0	8,4	9,3	10,0	10,5	11,0	11,5	11,8	12,2	12,5
	Pt	206	206	206	206	206	206	206	206	206	206
	LwA	32	35	37	38	39	40	41	41	42	42
110 (m^3/h)/nozzle	Q (m^3/h) set	110	220	330	440	550	660	770	880	990	1100
	Vk	19,2	19,2	19,2	19,2	19,2	19,2	19,2	19,2	19,2	19,2
	Y (ΔT = 5ºC)	15,5	18,4	20,4	21,9	23,2	24,2	25,2	26,1	26,8	27,6
	Y (ΔT = 10ºC)	11,0	13,0	14,4	15,5	16,4	17,1	17,8	18,4	19,0	19,5
	Y (ΔT = 20ºC)	7,7	9,2	10,2	11,0	11,6	12,1	12,6	13,0	13,4	13,8
	Pt	249	249	249	249	249	249	249	249	249	249
	LwA	35	38	40	41	42	43	43	44	44	45
150 (m^3/h)/nozzle	Q (m^3/h) set	150	300	450	600	750	900	1050	1200	1350	1500
	Vk	26,2	26,2	26,2	26,2	26,2	26,2	26,2	26,2	26,2	26,2
	Y (ΔT = 5ºC)	21,1	25,1	27,8	29,9	31,6	33,1	34,4	35,5	36,6	37,6
	Y (ΔT = 10ºC)	14,9	17,8	19,7	21,1	22,3	23,4	24,3	25,1	25,9	26,6
	Y (ΔT = 20ºC)	10,6	12,6	13,9	14,9	15,8	16,5	17,2	17,8	18,3	18,8
	Pt	463	463	463	463	463	463	463	463	463	463
	LwA	43	46	48	49	50	51	52	52	53	53

TO - TF SERIES

ORDER FORM

DESCRIPTION

Set of 10 manually adjustable high-induction multi-jet nozzles adaptable to duct in a single line, type TO-C 1x10. White finish.

Order form:

TO	C	Rows x No. of nozzles	BL

Nozzles series:
TO

Assembly:
(C) Duct
(R) Grid

Rows x No. of nozzles
1 to 3 1 to 10

Dimensions:
(Rows x No. of nozzles)

AA finish:
For termination in **R**. Gray and White Finishes.
For termination in **C**. Gray and White Finishes (Profile-mattresses in gray).

DESCRIPTION

Set of 10 manually fixed high-induction multi-jet nozzles adaptable to duct in a single line, type TF-C 1x10. White finish.

Order form:

TF	C	Rows x No. of nozzles	BL

Nozzles series:
TF

Assembly:
(C) Duct
(R) Grid

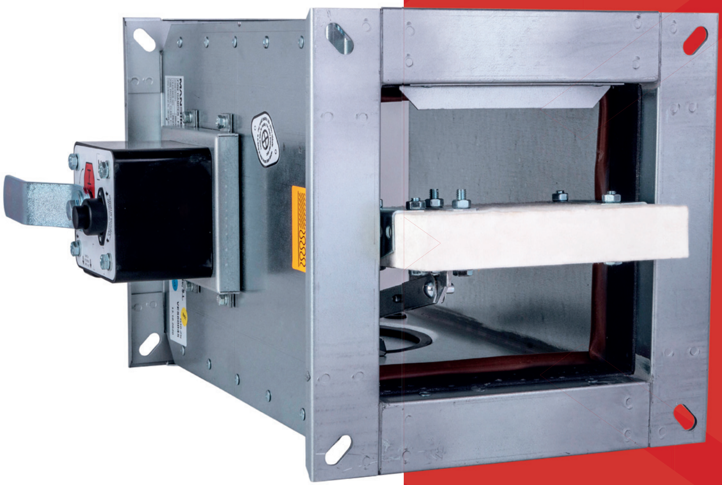
Rows x No. of nozzles
1 to 3 1 to 10

Dimensions:
(Rows x No. of nozzles)

AA finish:
For termination in **R**. Gray and White Finishes.
For termination in **C**. Gray and White Finishes (Profile-mattresses in gray).


Solutions

CATALOGUE



FIREFIGHTING SYSTEMS

CF - FD - SV - CI SERIES

CFDM	Fire damper
CFDM-V	Fire damper with dish valve
FDMB	Fire damper
FDMR	Fire damper
SV	Rectangular fire rated intumescent air transfer grilles
SVC	Circular fire rated intumescent air transfer grilles
CI	Intumescent collar

SAMOVENT® TECHNIK

DIFUSIÓN Y VENTILACIÓN

FIREFIGHTING SYSTEMS

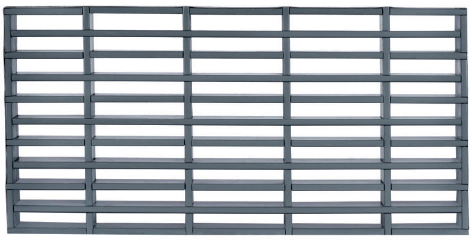
SAMOVENT® TECHNIK

CFDM

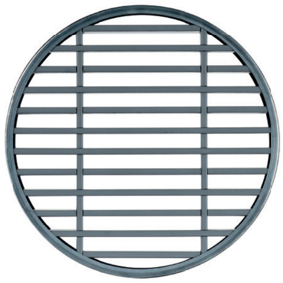
CFDM-V

FDMR

FDMB

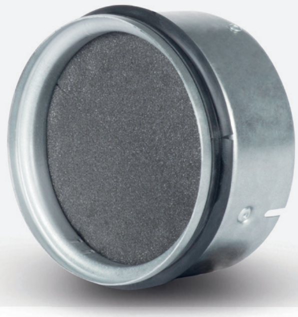


SV



SVC

CI



CF SERIES
CFDM - CFDM-V

FIRE DAMPER

Model **CFDM.** Fire damper. Model EI60, EI90, EI120.
Model **CFDM-V.** Fire damper with dish valve. Model EI60, EI90, EI120.

The CFDM Fire Dampers are shutters in the duct systems of air conditioning devices, which prevent the spread of combustion and fire products from one segment to another by closing the air duct at the points of the fire separation constructions. Both in horizontal as well as vertical, depending on the model.

Characteristics:

Mechanically operated damper.
CE certified acc. to EN 15650.
Tested in accordance with EN 1366-2 .
Classified acc. to EN 13501-3+A1.
Fire resistance EI60, EI90, EI120.
Internal leakage class 2 acc. to EN 1751.
Corrosion resistant acc. to EN 15650.

Working conditions:

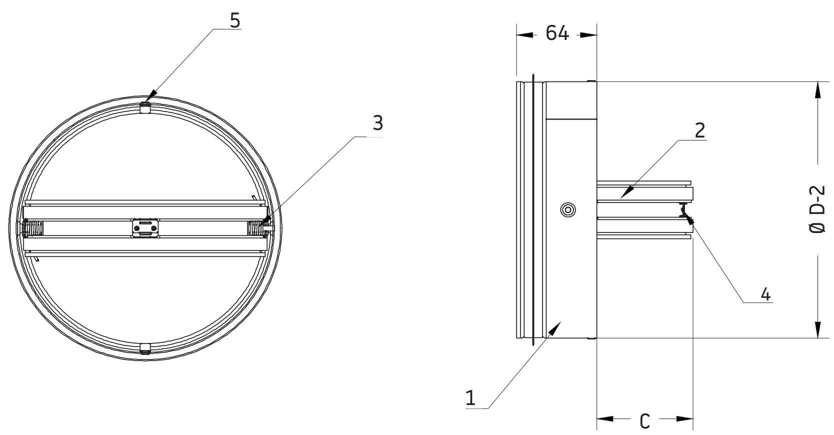
Maximum air circulation speed: 12 m.s. Maximum pressure difference: 1500 Pa.

The air circulation in the whole damper section must be secured as steady on whole surface.

Operation of the damper does not depend on the direction of air circulation. Dampers are suitable for ventilation systems, where air does not content any abrasive, chemical or adhesive particles.

Designed for macroclimatic areas with mild climate according to EN 60 621-3-3. Temperature in the place of installation is can go from -30°C to +50°C.

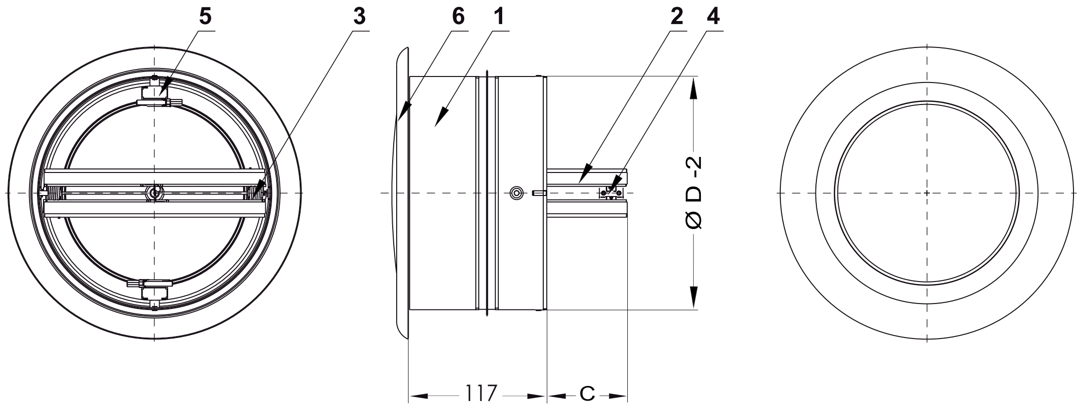
CFDM



ØD	C
100	15,5
125	28
160	45,5
200	72,5

CFDM-V

1. Damper casing
2. Damper blade
3. Shutting spring
4. Thermal fuse
5. C-Clip

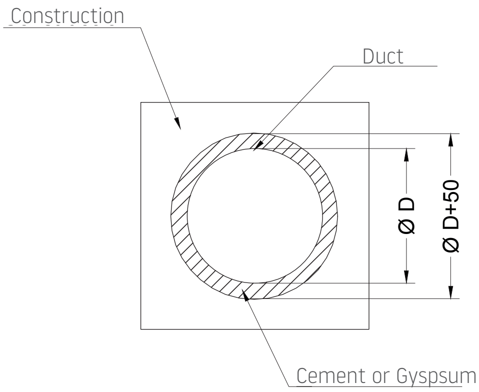


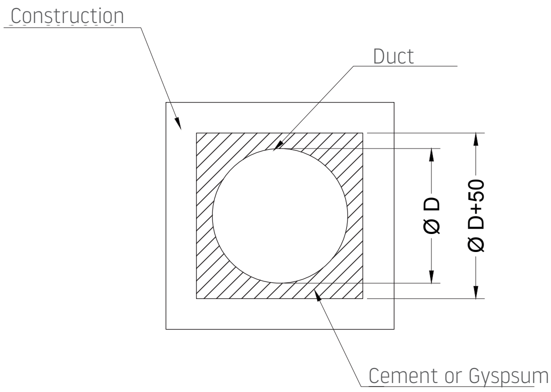
CF SERIES
CFDM - CFDM-V

FIRE DAMPER

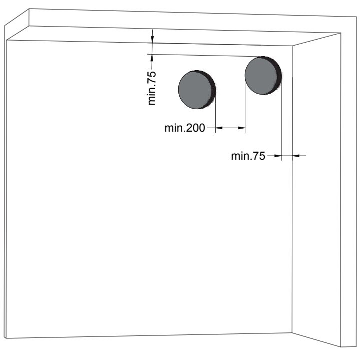
Model CFDM - CFDM-V
.01 Thermal with internal mechanical control.
.11 Thermal with internal mechanical control and limit switch.
.15 Thermal with internal mechanical control and two limit switches.

CFDM
Dimensions of the installation duct opening





CFDM
Distribution between fire dampers

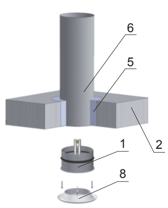


CFDM
Damper clasification

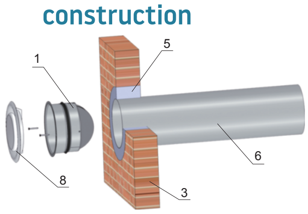
Fire separating construction	Fire resistance
Solid ceiling construction min. 110 mm Concrete min. 125 mm Aerated Concrete	EI 90 (h_0 - i←→o) S EI 60 (h_0 - i←→o) S
Solid wall construction. min. 100 mm	EI 120 (v_e - i←→o) S EI 90 (v_e - i←→o) S EI 60 (v_e - i←→o) S
Gypsum wall construction. 100 mm	EI 120 (v_e - i←→o) S EI 90 (v_e - i←→o) S EI 60 (v_e - i←→o) S

1. Fire damper
2. Solid ceiling construction
3. Solid wall construction
4. Gypsum wall construction
5. Mortar or gypsum
6. Duct
7. Mineral rock wool with fire protection coating
8. Dish valve

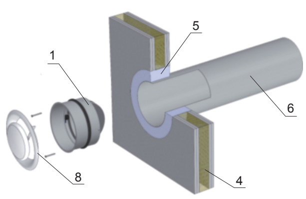
Solid ceiling construction



Solid wall construction



Gypsum wall construction



CF SERIES
CFDM - CFDM-V

SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa
LwA = Sound power in dB(A)

	Diameter mm.	100	125	160	200
Q (m³/h) (l/s)	Ak	0,0027	0,0056	0,0115	0,0206
100 27,8	Vk(m/s) Pt(Pa) LwA	10,3 117 58	5,0 16 44		
150 41,7	Vk(m/s) Pt(Pa) LwA	15,4 262 65	7,4 36 50		
200 55,6	Vk(m/s) Pt(Pa) LwA		9,9 64 55	4,8 10 43	
250 69,4	Vk(m/s) Pt(Pa) LwA		12,4 100 59	6,0 16 46	
300 83,3	Vk(m/s) Pt(Pa) LwA			7,2 23 50	4,0 4 39
350 97,2	Vk(m/s) Pt(Pa) LwA			8,5 32 52	4,7 6 42
400 111,1	Vk(m/s) Pt(Pa) LwA			9,7 42 55	5,4 7 44
450 125,0	Vk(m/s) Pt(Pa) LwA			10,9 53 57	6,1 9 47
500 138,9	Vk(m/s) Pt(Pa) LwA			12,1 65 59	6,7 11 48
550 152,8	Vk(m/s) Pt(Pa) LwA			13,3 78 60	7,4 14 50
600 166,7	Vk(m/s) Pt(Pa) LwA			14,5 93 62	8,1 16 52
650 180,6	Vk(m/s) Pt(Pa) LwA				8,8 19 53
700 194,4	Vk(m/s) Pt(Pa) LwA				9,4 22 55

FD SERIES
FDMR
FIRE DAMPER

Model **FDMR.** FDMR series circular fire dampers function as separators between two fire sectors. They can be installed in both vertical and horizontal walls. They have a perimeter weatherstrip at both ends to ensure the airtightness between the damper and the air ducts.

Characteristics:

- Classification EI120
  - (E) Integrity
  - (I) Isolation
  - (ho) Application in forged ceiling construction. Mounting in horizontal wall.
  - (Ve) Application in wall or flexible wall. Mounting on vertical wall.
  - (i←→o) Symmetrical (regardless of the direction of the air). Suitable for fire in both directions
  - (S) Smoke tightness. For cold and hot fumes.
- Certified according to EN 15650 (Building ventilation - Fire dampers)
- Classified according to EN 13501-3 +A1 (Classification based on data obtained from fire resistance tests of products and elements used in building service installations: fire resistant ducts and dampers)
- Tested according to EN 1366-2 (Fire resistance testing of service installations - Part 2: Fire dampers)
- Tightness of the damper according to EN 1751:
  - Damper: Diameter 200 Class 3. Rest of diameters Class 2.
  - Case: minimum class C.
- Maximum speed with open damper 12 m.s.
- Maximum pressure difference 1500 Pa.
- It has an inspection hole for access to the interior of the damper.
- The temperature at the installation site is permitted in the range of - 30 to + 50.

Dimensions:

ø100 mm to ø800 mm

Models:

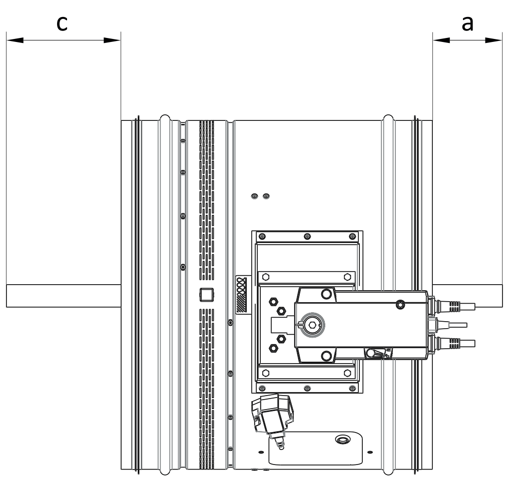
FDMR.01	Manual operation and thermal outside of the damper with protection case.
FDMR.40	Electric servomotor 230 v. AC with return spring Belimo BFL 230-T with two auxiliary contactors
FDMR.50	Electric servomotor 24 v. AC/DC with return sprng Belimo BFL 24-T with two auxiliary contactors.

FD SERIES
FDMR

TECHNICAL DATA

Size øD	a	c	Weight [kg]		Area effective [m²]	Sheet th.	Motor with spring return	Mechani-cal control
			Control mechanism					
			Manual	Motorized				
FDMR 100	-	-	2.9	3.1	0.0031	20	BFL	M1
FDMR 125	-	-	3.2	3.4	0.0062	20	BFL	M1
FDMR 140	-	-	3.3	3.5	0.0085	20	BFL	M1
FDMR 150	-	-	3.5	3.7	0.0103	20	BFL	M1
FDMR 160	-	-	3.6	3.8	0.0123	20	BFL	M1
FDMR 180	-	-	4.0	4.2	0.0166	20	BFL	M1
FDMR 200	-	-	4.3	4.5	0.0215	20	BFL	M1
FDMR 225	-	-	4.8	5.0	0.0275	25	BFL	M1
FDMR 250	-	9	5.1	5.3	0.0354	25	BFL	M2
FDMR 280	-	24	5.7	5.9	0.0462	25	BFL	M2
FDMR 315	-	42	6.5	6.7	0.0606	25	BFL	M2
FDMR 355	-	62	8.2	8.3	0.0776	30	BFL	M2
FDMR 400	-	84	9.3	9.4	0.1015	30	BFL	M2
FDMR 450	-	109	10.4	10.8	0.1318	30	BFN	M3
FDMR 500	-	134	11.7	12.1	0.1661	30	BFN	M3
FDMR 560	-	164	13.4	13.8	0.2123	30	BFN	M3
FDMR 630	19	199	15.5	17.7	0.2735	30	BF	M4
FDMR 710	59	239	27	29.2	0,3446	40	BF	M4
FDMR 800	104	284	32.4	34.6	0,4448	40	BF	M5

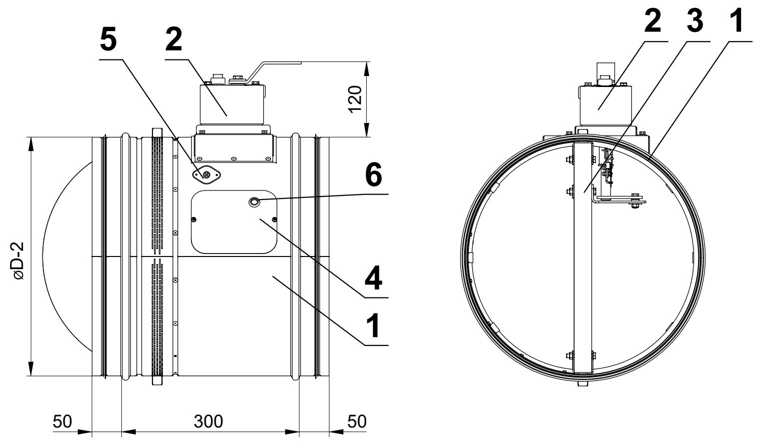
FDMR
Dumper flap overlapping



FD SERIES **FDMR**

FDMR.01

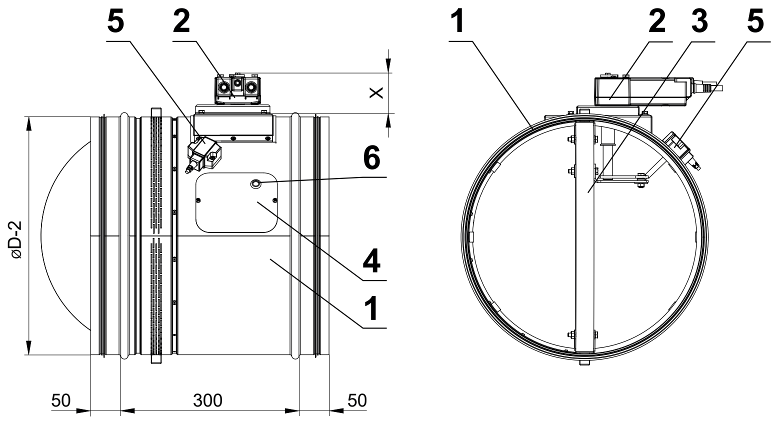
1. Housing
2. Mechanism
3. Opening/closing slat
4. Inspection cover
5. Sensor label
6. Camera register



FDMR.40 / .50

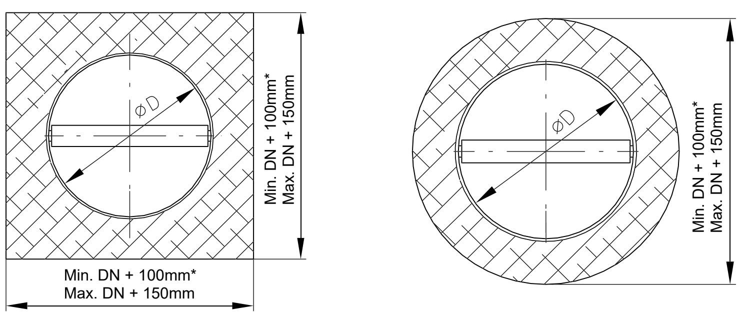
1. Housing
2. Drive mechanism
3. Opening/closing slat
4. Inspection cover
5. Thermoelectric starter mechanism BAT
6. Camera register

x-53 mm (BFL)*
x=72 mm (BFN)*
x=78 mm (BF)*



FDMR
Dimensions of the installation duct opening

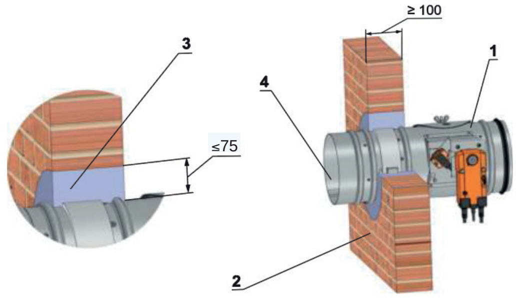
* Valid dimensions for FDMR.
* The opening of the installation can be less than DN + 100mm - If the fire protection material can be installed correctly.



FD SERIES
FDMR

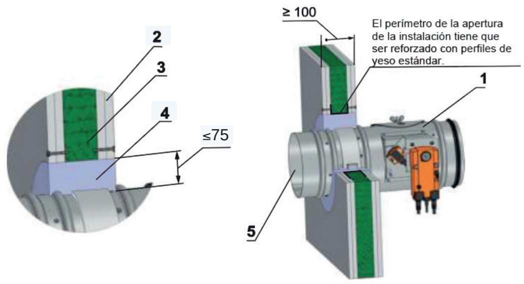
Installation in solid wall construction

Position:
1. Fire damper
2. Rigid wall construction
3. Cement or plaster
4. Duct



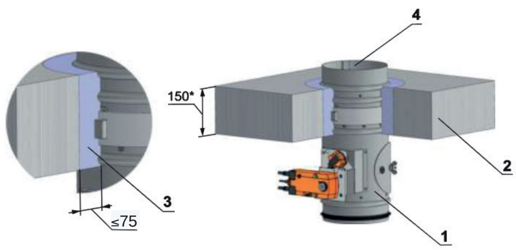
Installation in cement or gypsum wall construction

Position:
1. Fire damper
2. Plasterboard
3. Mineral wool (type will depend on construction).
4. Cement or plaster
5. Duct



Installation in solid ceiling construction

Position
1 Fire damper
2 Solid ceiling construction
3 Cement or plaster
4 Duct



* min. 110 - Concrete / min. 125 - Aerated Concrete
* Around the perimeter

The diagrams shown are for illustrative purposes only.

FD SERIES
FDMR
SELECTION TABLE

Q (m³/h) (l/s)	Diameter mm.	100	125	160	200	250	315	355	400	450	500	560	630
150	Vn (m/s) Pt (Pa) LwA	5,31 46 27	3,40 15 13										
200	Vn (m/s) Pt (Pa) LwA	7,07 82 37	4,53 26 23	2,76 6 5									
300	Vn (m/s) Pt (Pa) LwA	10,61 185 50	6,79 58 36	4,14 13 18									
400	Vn (m/s) Pt (Pa) LwA		9,05 103 45	5,53 23 27	3,54 5 9								
500	Vn (m/s) Pt (Pa) LwA		11,32 161 52	6,91 36 34	4,42 7 17								
600	Vn (m/s) Pt (Pa) LwA			8,29 52 40	5,31 11 23	3,4 5 11							
700	Vn (m/s) Pt (Pa) LwA			9,67 71 45	6,19 15 28	3,96 7 16							
800	Vn (m/s) Pt (Pa) LwA			11,05 93 50	7,07 19 32	4,53 9 21	2,85 3 5						
1000	Vn (m/s) Pt (Pa) LwA				8,84 30 39	5,66 14 28	3,56 4 12	2,81 2 4					
1500	Vn (m/s) Pt (Pa) LwA				13,26 67 52	8,49 32 41	5,35 9 25	4,21 5 17	3,32 3 10				
2000	Vn (m/s) Pt (Pa) LwA					11,32 57 50	7,13 16 35	5,61 9 27	4,42 5 19	3,49 3 11			
2500	Vn (m/s) Pt (Pa) LwA						8,91 25 42	7,02 13 34	5,53 7 26	4,37 4 18	3,54 2 12		
3000	Vn (m/s) Pt (Pa) LwA						10,69 36 48	8,42 19 40	6,63 10 32	5,24 6 24	4,24 3 18	3,38 2 10	
3500	Vn (m/s) Pt (Pa) LwA							9,82 26 45	7,74 14 37	6,11 8 29	4,95 5 23	3,95 3 15	
4000	Vn (m/s) Pt (Pa) LwA							11,23 34 49	8,84 18 41	6,99 10 34	5,66 6 27	4,51 3 20	3,56 2 12
4500	Vn (m/s) Pt (Pa) LwA							12,63 44 53	9,95 23 45	7,86 13 37	6,37 7 31	5,08 4 23	4,01 2 16
5000	Vn (m/s) Pt (Pa) LwA								11,05 29 49	8,73 16 41	7,07 9 34	5,64 5 27	4,46 3 19

Legend:
Vn (m/s): Nominal speed m/s
Pt = Pressure drop in Pa
LwA: Sound power level in dB(A)

FD SERIES FDMR

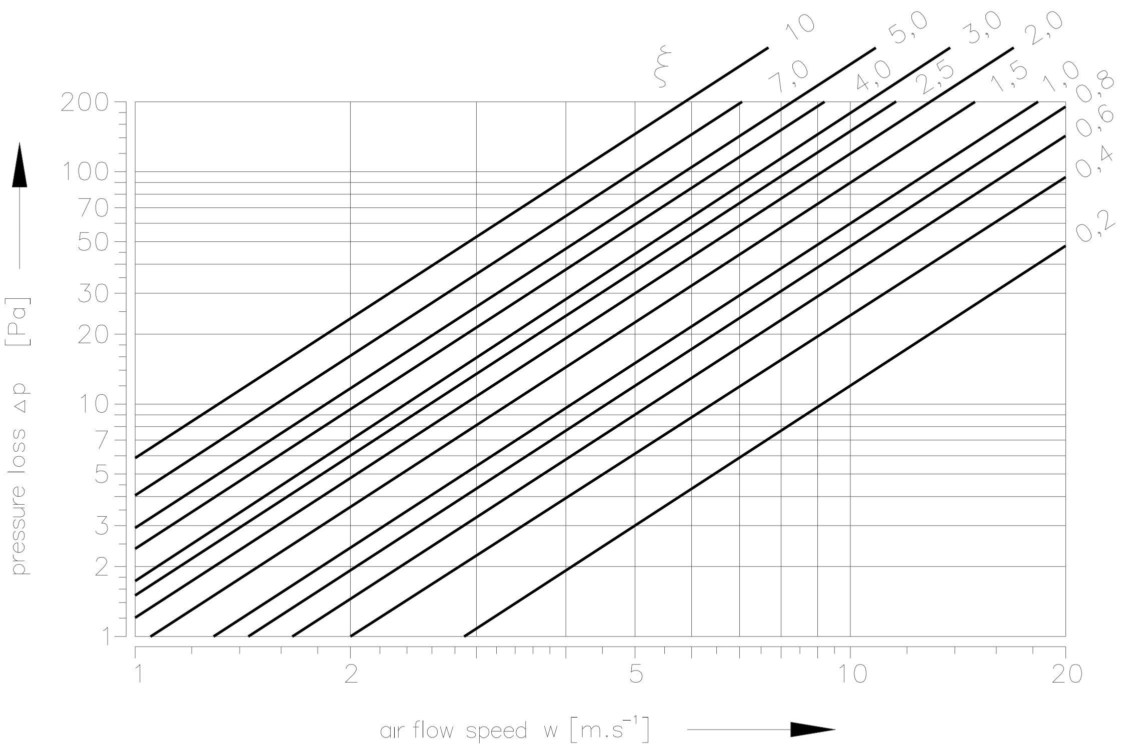
TECHNICAL DATA

Pressure loss calculation

$$\Delta p = \xi \cdot \rho \cdot \frac{w^2}{2}$$

Δp	[Pa]	Pressure drop
w	[$m.s^{-1}$]	Air flow velocity at nominal damper section
ρ	[$kg.m^{-3}$]	Air density
ξ	[-]	Local pressure loss coefficient for the nominal cross-section of the damper (see Tab. 11.1.1.).

Determination of pressure loss using p=1.2kg.m³ diagram



FD SERIES
FDMR
TECHNICAL DATA

Local pressure loss coefficient ξ (-)

D	100	125	140	150	160	180	200	225	250	280	300
ξ	2.736	2.099	1.781	1.527	1.272	0.929	0.636	0.892	0.747	0.627	0.576
D	315	350	355	400	450	500	560	600	630	710	800
ξ	0.531	0.471	0.455	0.393	0.344	0.307	0.273	0.258	0.243	0.111	0.099

Acoustic output level corrected by filter A

$$L_{WA} = L_{W1} + 10\log(S) + K_A$$

L_{WA}	[dB(A)]	Acoustic output level corrected by filter A
L_{W1}	[dB]	Sound output level L_{W1} related to 1 m² cross-section (see Tab.1)
S	[m²]	Duct cross section
K_A	[dB]	Weight filter A correction (see Tab.2)

Acoustic output level in octave ranges.

$$L_{Woct} = L_{W1} + 10\log(S) + L_{rel}$$

L_{Woct}	[dB]	Acoustic output spectrum in octave range
L_{W1}	[dB]	Acoustic output level L_{W1} related to 1 m² cross-section (see Tab.1)
S	[m²]	Duct cross section
L_{rel}	[dB]	Relative level expressing the shape of the spectrum (see Tab.3)

Table of acoustic values

Tab.1 Sound output level L_{W1} related to 1 m² cross-section

[-] ξ

w [m/s-1]	0,1	0,2	0,3	0,4	0,6	0,8	1	1,5	2	2,5	3	3,5
2	9	11,5	14,7	16,9	20,1	22,3	24,1	27,2	29,4	31,2	32,6	33,8
3	16,7	22,1	25,3	27,5	30,7	32,9	34,6	37,8	40	41,7	43,2	44,4
4	24,2	29,6	32,8	35	38,1	40,4	42,1	45,3	47,5	49,2	50,7	51,9
5	30,0	35,4	38,6	40,8	44	46,2	47,9	51,1	53,3	55,1	56,5	57,7
6	34,8	40,2	43,3	45,6	48,7	51	52,7	55,8	58,1	59,8	61,2	62,4
7	38,8	44,2	47,3	49,6	52,7	55	56,7	59,9	62,1	63,8	65,2	66,4
8	42,3	47,7	50,8	53,1	56,2	58,4	60,2	63,3	65,6	67,3	68,7	69,9
9	45,4	50,7	53,9	56,1	59,3	61,5	63,3	66,4	68,6	70,4	71,8	73
10	48,1	53,5	56,6	58,9	62	64,3	66	69,1	71,4	73,1	74,5	75,7
11	50,6	56	59,1	61,4	64,5	66,7	68,5	71,6	73,9	75,6	77	78,2
12	52,8	58,2	61,4	63,6	66,8	69	70,7	73,9	76,1	77,9	79,3	80,5

FD SERIES
FDMR
TECHNICAL DATA

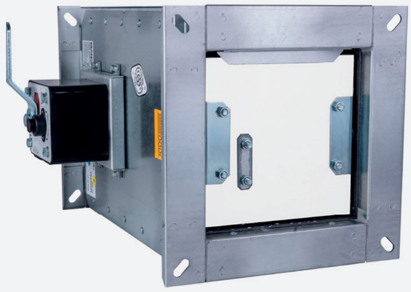
Filter A weight correction
Tab.2

W [m/s^{-1}]	2	3	4	5	6	7	8	9	10	11	12
K_a [dB]	-15,0	-11,8	-9,8	-8,4	-7,3	6,4	-5,7	-5,0	-4,5	-4,0	-3,6

Tab.3 Relative level expressing the shape of the space L_{rel}

	f [Hz]							
w [m/s^{-1}]	63	125	250	500	1000	2000	4000	8000
2	-4,5	-6,9	-10,9	-16,7	-24,1	-33,2	-43,9	-56,4
3	-3,9	-5,3	-8,4	-13,1	-19,5	-27,6	-37,4	-48,9
4	-3,9	-4,5	-6,9	-10,9	-16,7	-24,1	-33,2	-43,9
5	-4,0	-4,1	-5,9	-9,4	-14,6	-21,5	-30	-40,3
6	-4,2	-3,9	-5,3	-8,4	-13,1	-19,5	-27,6	-37,4
7	-4,5	-3,9	-4,9	-7,5	-11,9	-17,9	-25,7	-35,1
8	-4,9	-3,9	-4,5	-6,9	-10,9	-16,7	-24,1	-33,2
9	-5,2	-3,9	-4,3	-6,4	-10,1	-15,6	-22,7	-31,5
10	-5,5	-4	-4,1	-5,9	-9,4	-14,6	-21,5	-30
11	-5,9	-4,1	-4	-5,6	-8,9	-13,8	-20,4	-28,8
12	-6,2	-4,3	-3,9	-5,3	-8,4	-13,1	-19,5	-27,6

SERIE FD
FDMB
FIRE DAMPER



Model **FDMB.** FDMB series rectangular fire dampers function as separators between two fire sectors. They can be installed in both vertical and horizontal walls. They have a perimeter weatherstrip at both ends to ensure the airtightness between the damper and the air ducts.

Características:

- Classification EI120 (v_e h_o i↔o) S
  - (E) Integrity
  - (I) Isolation
  - (ho) Application in forged ceiling construction. Mounting in horizontal wall.
  - (Ve) Application in wall or flexible wall. Mounting on vertical wall.
  - (i↔o) Symmetrical (regardless of the direction of the air). Suitable for fire in both directions
  - (S) Smoke tightness. For cold and hot fumes.
- Certified according to EN 15650 (Building ventilation - Fire dampers)
- Classified according to EN 13501-3 +A1 (Classification based on data obtained from fire resistance tests of products and elements used in building service installations: fire resistant ducts and dampers)
- Tested according to EN 1366-2 (Fire resistance testing of service installations - Part 2: Fire dampers)
- Tightness of the damper according to EN 1751:
  - Damper: Diameter 200 Class 3. Rest of diameters Class 2.
  - Case: minimum class C.
- Maximum speed with open damper 12 m.s.
- Maximum pressure difference 1500 Pa.
- It has an inspection hole for access to the interior of the damper.
- The temperature at the installation site is permitted in the range of - 30 to + 50.

Standardized dimensions:
200x200 mm to 1000x500 mm.

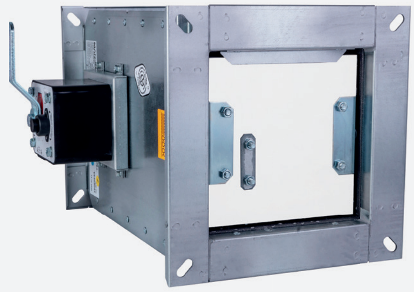
Minimum dimension:
100x100 mm.

Maximum dimension:
1500x800 mm.

Models:

FDMB.01	Manual operation and thermal outside of the damper with case of protection.
FDMB.40	Electric servomotor 230 v. AC with spring return Belimo BFL/BFN/BF 230-Twith two auxiliary contacts.
FDMB.50	Electric servomotor 24 v.AC/ DC with spring return Belimo BFL/BFN/BF 24-T with two auxiliary contacts.

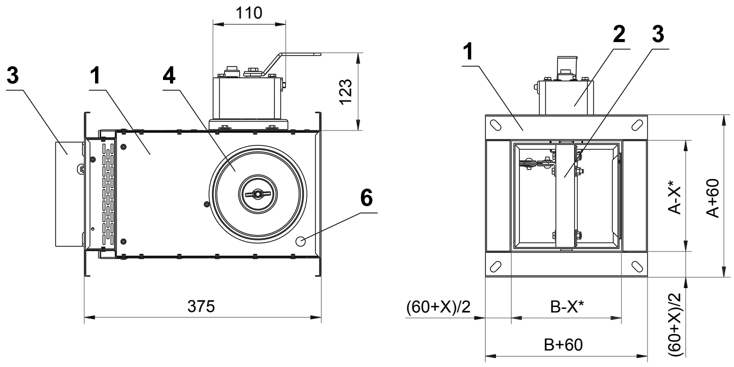
FD SERIES
FDMB
FIRE DAMPER



FDMB.01

Position:
1. Damper housing
2. Mechanical
3. Damper blade
4. Inspection hole cover
5. Sensor label
6. Camera hole

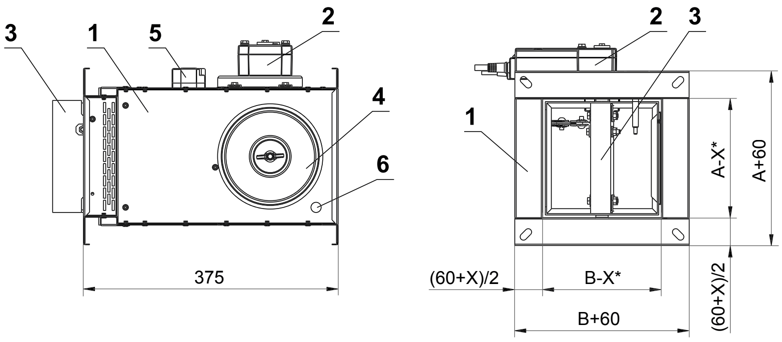
X=23 (AXB≤500X400)
X=36 (AXB>500X400)



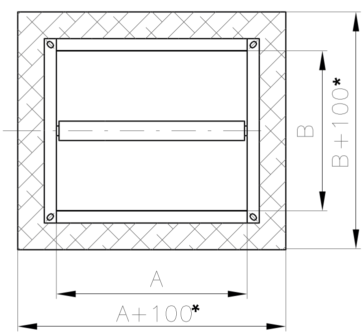
FDMB.40 / .50

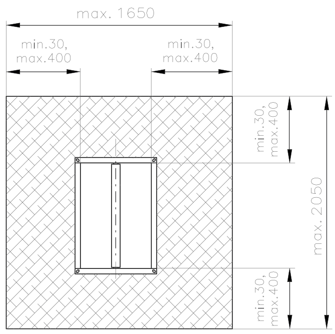
Position:
1.Damper housing
2. Actuating mechanism
3. Damper blade
4. Inspection hole
5. Thermoelectric starting mechanism BAT
6. Camera hole

X=23 (AXB≤500X400)
X=36 (AXB>500X400)



FDMB
Installation duct opening dimensions



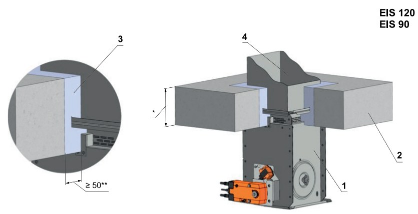


Installation opening

Opening of installation - Weichschott System

Solid ceiling installation
Solid-cement or plaster ceiling

Position:
1. Fire damper
2. Solid ceiling
3. Mortar or plaster
4. Duct

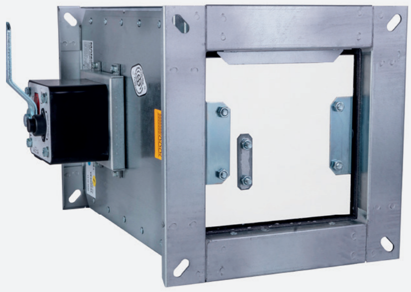


**min.110- Hormigón/min125-Aerated concrete*
***Around the perimeter*

The incorporation drawings shown on incorporation and gate are for illustrative purposes only.

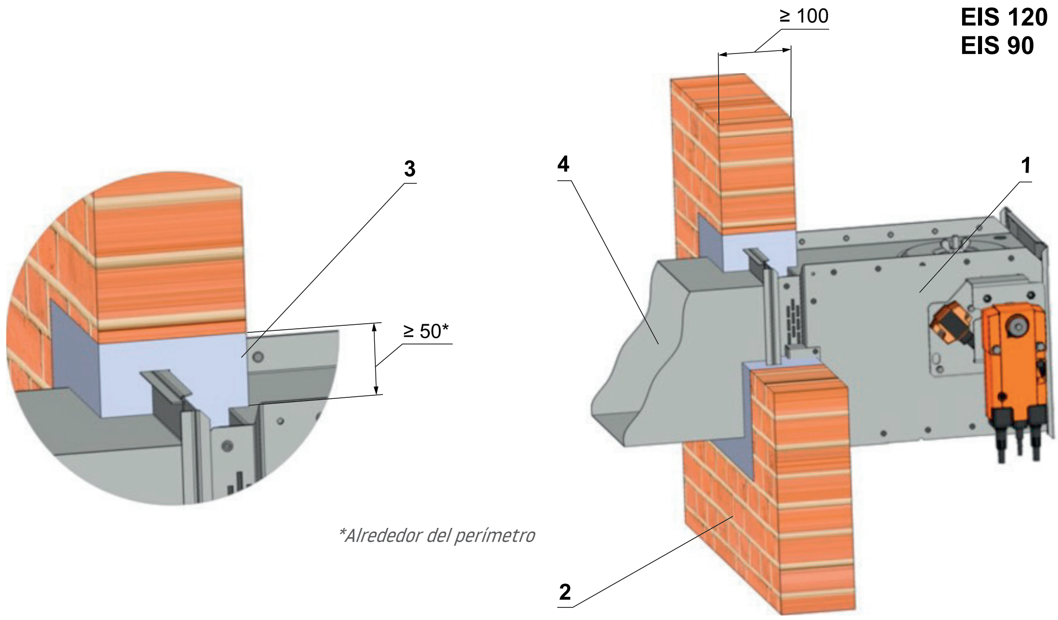
FD SERIES FDMB

FIRE DAMPER



Solid wall installation

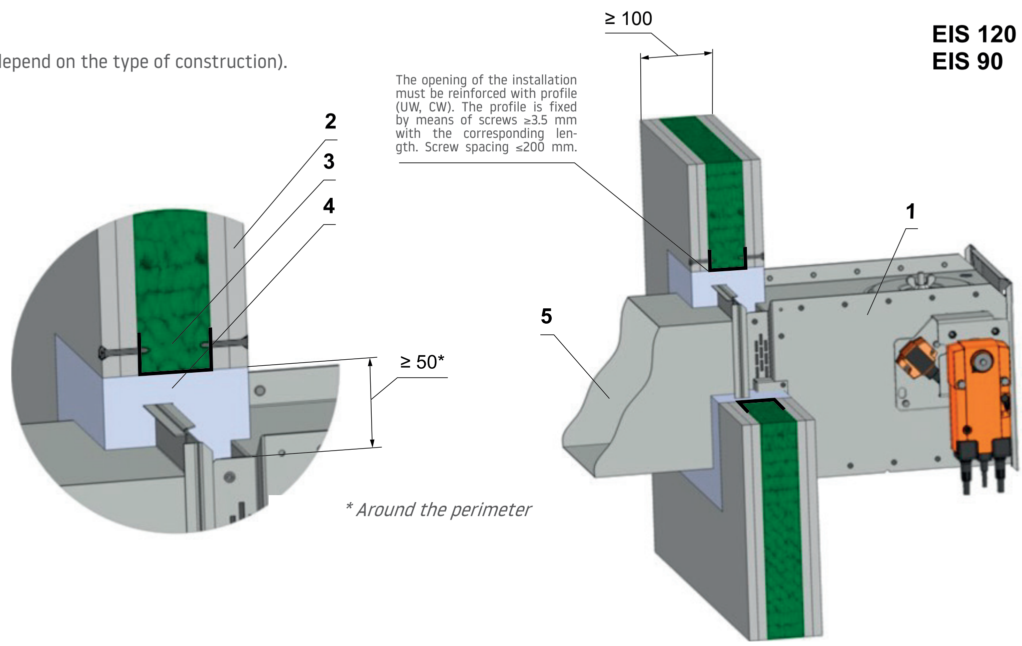
Position:
1. Fire damper
2. Solid wall
3. Cement or plaster
4. Duct



*Alrededor del perímetro

Installation in cement or gypsum wall construction

Position:
1. Fire damper
2. Plasterboard
3. Mineral wool (type will depend on the type of construction).
4. Cement or plaster
5. Duct

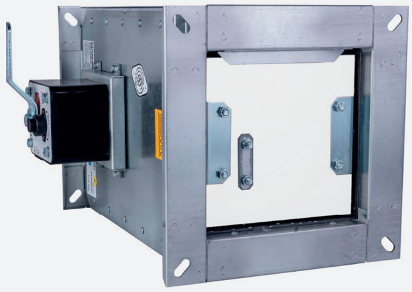


* Around the perimeter

*The recommended installation opening dimensions range from 25mm to 50mm on both sides (this means A+50 to A+100 or B+50 or B+100).

The incorporation drawings shown on incorporation and gate are for illustrative purposes only.

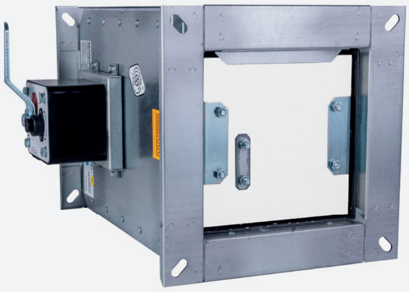
FD SERIES
FDMB
SELECTION TABLE



LxH	Vn (m/s)	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7
200x200	Flow rate (m³/h)	360	432	504	576	648	720	792	864	936	1008
	Pt (Pa)	9	13	17	22	28	35	42	50	59	68
	LwA	13,4	19,3	24,2	28,6	32,4	35,8	38,8	41,6	44,2	46,6
300x200	Flow rate (m³/h)	540	648	756	864	972	1080	1188	1296	1404	1512
	Pt (Pa)	4	6	9	11	14	18	21	26	30	35
	LwA	9,9	15,8	20,8	25,1	28,9	32,3	35,3	38,2	40,7	43,1
400x200	Flow rate (m³/h)	720	864	1008	1152	1296	1440	1584	1728	1872	2016
	Pt (Pa)	3	4	5	7	9	11	13	16	19	22
	LwA	7,4	13,3	18,3	22,6	26,4	29,8	32,9	35,7	38,3	40,6
1000x200	Flow rate (m³/h)	1800	2160	2520	2880	3240	3600	3960	4320	4680	5040
	Pt (Pa)	4	5	7	9	11	14	17	20	24	28
	LwA	13,3	19,2	24,2	28,5	32,3	35,7	38,8	41,6	44,2	46,6
250x250	Flow rate (m³/h)	562,5	675	787,5	900	1012,5	1125	1237,5	1350	1462,5	1575
	Pt (Pa)	6	8	11	14	18	22	27	32	37	43
	LwA	11,8	17,7	22,7	27	30,8	34,2	37,2	40,1	42,6	45
300x300	Flow rate (m³/h)	810	972	1134	1296	1458	1620	1782	1944	2106	2268
	Pt (Pa)	4	5	7	10	12	15	18	22	26	30
	LwA	10,5	16,4	21,3	25,6	29,5	32,9	35,9	38,7	41,3	43,7
400x300	Flow rate (m³/h)	1080	1296	1512	1728	1944	2160	2376	2592	2808	3024
	Pt (Pa)	2	3	5	6	8	9	11	13	16	18
	LwA	7,9	13,8	18,8	23,1	26,9	30,3	33,4	36,2	38,8	41,1
500x300	Flow rate (m³/h)	1350	1620	1890	2160	2430	2700	2970	3240	3510	3780
	Pt (Pa)	3	5	6	8	10	13	16	19	22	25
	LwA	11,4	17,3	22,3	26,6	30,4	33,8	36,8	39,7	42,2	44,6
600x300	Flow rate (m³/h)	1620	1944	2268	2592	2916	"240	3564	3888	4212	4536
	Pt (Pa)	3	4	6	7	9	11	14	16	19	22
	LwA	11,2	17,1	22,1	26,4	30,2	33,6	36,7	39,5	42	44,4
800x300	Flow rate (m³/h)	2160	2592	3024	3456	3888	4320	4752	5184	5616	6048
	Pt (Pa)	2	3	5	6	8	9	11	13	16	18
	LwA	10,9	16,8	21,8	26,1	29,9	33,3	36,4	39,2	41,8	44,2
900x300	Flow rate (m³/h)	2430	2916	3402	3888	4374	4860	5346	5832	6318	6804
	Pt (Pa)	2	3	4	6	7	9	11	13	15	17
	LwA	11	16,9	21,9	26,2	30	33,4	36,5	39,3	41,9	44,3
1000x300	Flow rate (m³/h)	2700	3240	3780	4320	4860	5400	5940	6480	7020	7560
	Pt (Pa)	2	3	4	6	7	9	11	13	15	17
	LwA	11,4	17,3	22,2	26,5	30,3	33,7	36,8	39,6	42,2	44,6
400x400	Flow rate (m³/h)	1440	1728	2016	2304	2592	2880	3168	3456	3744	4032
	Pt (Pa)	2	3	4	5	6	7	9	11	12	14
	LwA	7,3	13,2	18,2	22,5	26,3	29,7	32,8	35,6	38,2	40,6

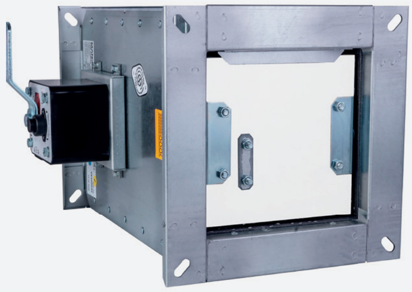
Legend
Vn (m/s): Nominal speed m/s
Pt = Pressure drop in Pa
LwA: Sound power level in dB(A)

FD SERIES
FDMB
SELECTION TABLE



LxH	Vn (m/s)	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7
500x400	Flow rate (m³/h)	1800	2160	2520	2880	3240	3600	3960	4320	4680	5040
	Pt (Pa)	3	4	5	7	8	10	13	15	18	20
	LwA	10,9	16,8	21,8	26,1	29,9	33,3	36,4	39,2	41,8	44,2
600x400	Flow rate (m³/h)	2160	2592	3024	3456	3888	4320	4752	5184	5616	6048
	Pt (Pa)	2	3	4	6	7	9	11	13	15	18
	LwA	10,7	16,6	21,6	25,9	29,7	33,1	36,1	39	41,5	43,9
700x400	Flow rate (m³/h)	2520	3024	3528	4032	4536	5040	5544	6048	6552	7056
	Pt (Pa)	2	3	4	5	7	8	10	12	14	16
	LwA	10,4	16,3	21,3	25,6	29,4	32,8	35,9	38,7	41,3	43,7
800x400	Flow rate (m³/h)	2880	3456	4032	4608	5184	5760	6336	6912	7488	8064
	Pt (Pa)	2	3	4	5	6	7	9	11	12	14
	LwA	10,3	16,2	21,2	25,5	29,3	32,7	35,8	38,6	41,2	43,6
1000x400	Flow rate (m³/h)	3600	4320	5040	5760	6480	7200	7920	8640	9360	10080
	Pt (Pa)	2	2	3	4	6	7	8	10	12	13
	LwA	10,7	16,6	21,6	25,9	29,7	33,1	36,1	39	41,5	43,9
500x500	Flow rate (m³/h)	2250	2700	3150	3600	4050	4500	4950	5400	5850	6300
	Pt (Pa)	2	3	4	6	7	9	11	13	15	18
	LwA	10,9	16,8	21,7	26,1	29,9	33,3	36,3	39,1	41,7	44,1
600x500	Flow rate (m³/h)	2700	3240	3780	4320	4860	5400	5940	6480	7020	7560
	Pt (Pa)	2	3	4	5	6	8	10	11	13	15
	LwA	10,6	16,5	21,5	25,8	29,6	33	36,1	38,9	41,4	43,8
800x500	Flow rate (m³/h)	3600	4320	5040	5760	6480	7200	7920	8640	9360	10080
	Pt (Pa)	2	2	3	4	5	6	8	9	11	12
	LwA	10,1	16	21	25,3	29,1	32,5	35,6	38,4	41	43,4
900x500	Flow rate (m³/h)	4050	4860	5670	6480	7290	8100	8910	9720	10530	11340
	Pt (Pa)	1	2	3	4	5	6	7	9	10	12
	LwA	10,1	16	21	25,3	29,1	32,5	35,6	38,4	41	43,4
1000x500	Flow rate (m³/h)	4500	5400	6300	7200	8100	9000	9900	10800	11700	12600
	Pt (Pa)	1	2	3	4	5	6	7	8	10	11
	LwA	10,4	16,3	21,3	25,6	29,4	32,8	35,9	38,7	41,3	43,7
600x600	Flow rate (m³/h)	3240	3888	4536	5184	5832	6480	7128	7776	8424	9072
	Pt (Pa)	2	3	3	5	6	7	9	10	12	14
	LwA	10,6	16,5	21,4	25,7	29,5	32,9	36	38,8	41,4	43,8
700x600	Flow rate (m³/h)	3780	4536	5292	6048	6804	7560	8316	9072	9828	10584
	Pt (Pa)	2	2	3	4	5	6	8	9	11	12
	LwA	10,3	16,2	21,2	25,5	29,3	32,7	35,8	38,6	41,1	43,5
800x600	Flow rate (m³/h)	4320	5184	6048	6912	7776	8640	9504	10368	11232	12096
	Pt (Pa)	1	2	3	4	5	6	7	8	10	12
	LwA	10,3	16,2	21,2	25,5	29,3	32,7	35,8	38,6	41,2	43,6

FD SERIES
FDMB
TECHNICAL DATA

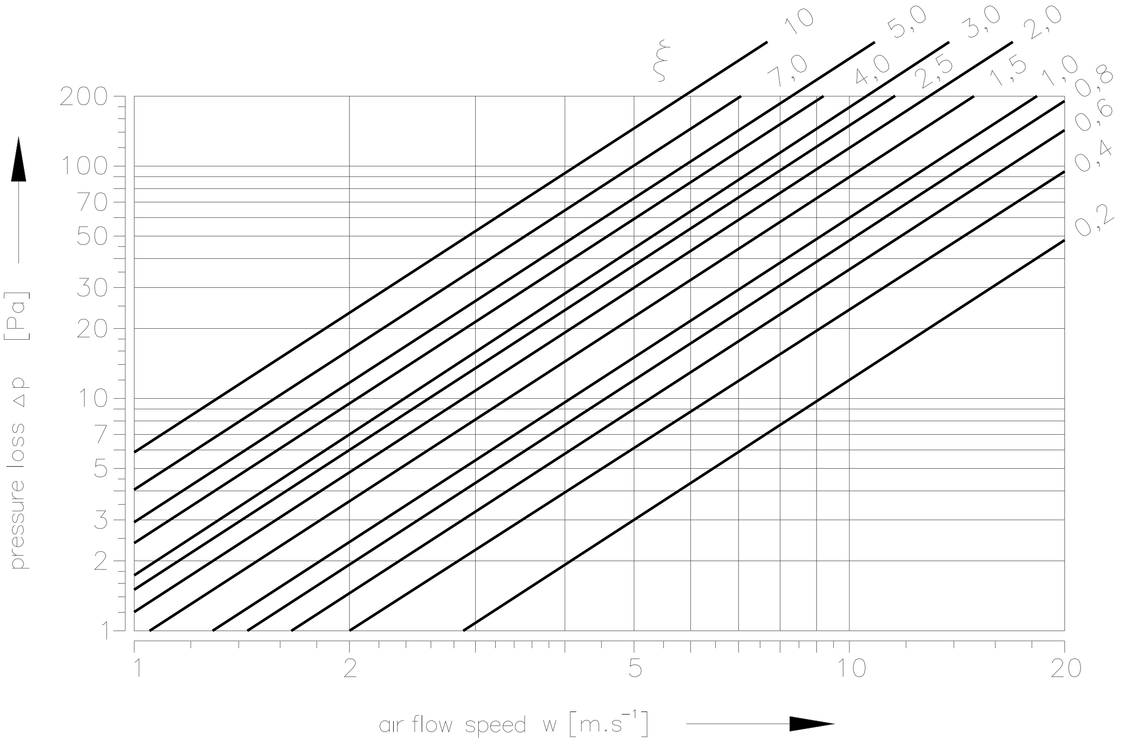


Pressure loss calculation

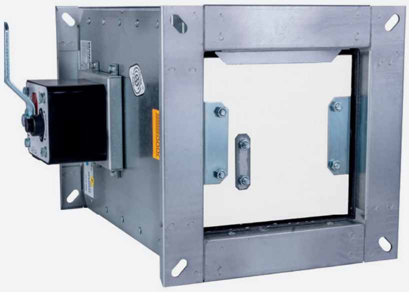
$$\Delta p = \xi \cdot \rho \cdot \frac{w^2}{2}$$

Δp	[Pa]	Pressure drop
w	[m.s⁻¹] → $[m.s^{-1}]$	Air flow velocity at nominal damper section
ρ	$[kg.m^{-3}]$	Air density
ξ	[-]	Local pressure loss coefficient for the nominal cross-section of the damper (see Tab. 11.1.1.).

Determination of pressure loss using p=1.2kg.m³ diagram



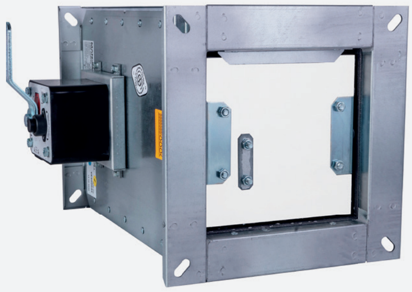
FD SERIES
FDMB
TECHNICAL DATA



Local pressure loss coefficient ξ (-)

A \ B	160	180	200	225	250	280	300	315	355	400	450	500
160	4,771	3,458	2,717	2,285	1,813	1,538	1,407	1,327	1,165	1,040	2,025	1,874
180	4,102	3,251	2,351	2,016	1,676	1,342	1,221	1,136	0,986	0,922	1,676	1,548
200	3,701	2,951	2,105	1,867	1,554	1,302	1,113	1,052	0,933	0,801	1,445	1,332
225	3,654	2,873	2,056	1,726	1,475	1,226	1,067	1,029	0,917	0,781	1,239	1,172
250	3,588	2,793	2,005	1,675	1,386	1,155	1,033	0,987	0,893	0,736	1,113	1,021
280	3,411	2,692	1,975	1,599	1,341	1,123	0,986	0,916	0,822	0,713	0,996	0,912
300	3,288	2,599	1,903	1,536	1,315	1,101	0,974	0,911	0,787	0,692	0,937	0,857
315	3,102	2,454	1,833	1,489	1,289	0,988	0,933	0,833	0,721	0,634	0,900	0,822
355	2,955	2,302	1,796	1,412	1,199	0,956	0,902	0,799	0,678	0,588	0,821	0,749
400	2,833	2,159	1,703	1,356	1,126	0,931	0,825	0,711	0,635	0,527	0,757	0,689
450	2,732	2,055	1,623	1,302	1,103	0,852	0,777	0,677	0,599	0,507	0,705	0,640
500	2,670	1,988	1,587	1,251	1,025	0,796	0,725	0,618	0,529	0,460	0,666	0,603
550	4,219	2,941	2,237	1,687	1,402	1,156	1,039	0,968	0,827	0,719	0,635	0,575
560	4,194	2,922	2,222	1,623	1,392	1,147	1,031	0,910	0,820	0,713	0,630	0,570
600	4,104	2,857	2,170	1,573	1,357	1,117	1,004	0,935	0,797	0,692	0,611	0,552
630	4,046	2,814	2,137	1,553	1,334	1,098	0,986	0,918	0,782	0,678	0,598	0,540
650	4,010	2,788	2,116	1,526	1,320	1,086	0,975	0,908	0,773	0,670	0,590	0,533
700	3,975	2,759	2,098	1,515	1,297	1,071	0,965	0,892	0,761	0,656	0,581	0,527
710	3,918	2,720	2,062	1,496	1,284	1,055	0,947	0,881	0,749	0,648	0,571	0,515
750	3,865	2,682	2,032	1,475	1,264	1,037	0,931	0,866	0,736	0,636	0,560	0,504
800	3,808	2,640	1,999	1,445	1,241	1,018	0,913	0,849	0,721	0,623	0,547	0,493
900	3,715	2,572	1,946	1,414	1,205	0,988	0,885	0,822	0,697	0,602	0,528	0,474
1000	3,643	2,519	1,904	1,395	1,177	0,964	0,863	0,801	0,679	0,585	0,512	0,460

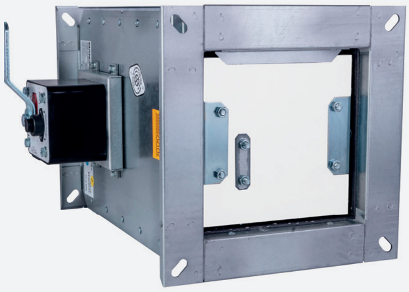
FD SERIES
FDMB
TECHNICAL DATA



Local pressure loss coefficient ξ (-)

	B										
A	550	560	600	630	650	700	710	750	800	900	1000
160	1,761	1,741	1,672	1,627	1,601	1,598	1,532	1,493	1,452	1,386	1,336
180	1,451	1,434	1,375	1,337	1,315	1,289	1,256	1,224	1,18	1,133	1,09
200	1,246	1,232	1,179	1,146	1,126	1,106	1,074	1,046	1,015	0,965	0,928
225	1,075	1,035	0,998	0,965	0,938	0,926	0,905	0,873	0,856	0,822	0,803
250	0,952	0,94	0,898	0,871	0,855	0,831	0,813	0,79	0,765	0,725	0,695
280	0,849	0,88	0,8	0,775	0,76	0,742	0,722	0,701	0,678	0,641	0,613
300	0,797	0,786	0,75	0,726	0,712	0,689	0,675	0,655	0,633	0,599	0,572
315	0,764	0,754	0,718	0,695	0,681	0,662	0,646	0,626	0,605	0,572	0,546
355	0,694	0,685	0,651	0,63	0,617	0,603	0,584	0,566	0,546	0,514	0,49
400	0,637	0,628	0,597	0,577	0,565	0,543	0,534	0,516	0,498	0,468	0,445
450	0,591	0,583	0,553	0,534	0,522	0,503	0,493	0,476	0,458	0,43	0,408
500	0,556	0,548	0,52	0,501	0,49	0,482	0,462	0,446	0,429	0,401	0,38
550	0,529	0,521	0,494	0,476	0,465	0,441	0,437	0,422	0,405	0,379	–
560	0,524	0,517	0,489	0,471	0,461	0,448	0,433	0,418	0,401	–	–
600	0,507	0,5	0,473	0,455	0,445	0,426	0,418	0,403	0,387	–	–
630	0,496	0,489	0,462	0,445	0,435	0,418	0,408	0,393	–	–	–
650	0,49	0,482	0,456	0,439	0,428	0,414	0,402	0,387	–	–	–
700	0,483	0,476	0,444	0,431	0,421	0,409	0,398	0,379	–	–	–
710	0,472	0,465	0,439	0,422	0,412	0,399	–	–	–	–	–
750	0,462	0,455	0,429	0,413	0,403	–	–	–	–	–	–
800	0,451	0,444	0,419	–	–	–	–	–	–	–	–
900	0,434	–	–	–	–	–	–	–	–	–	–

FD SERIES
FDMB
TECHNICAL DATA



Acoustic output level corrected by filter A

$$L_{WA} = L_{W1} + 10\log(S) + K_A$$

L_{WA}	[dB(A)]	Acoustic output level corrected by filter A
L_{W1}	[dB]	Sound output level L_{W1} related to 1 m² cross-section (see Tab.1)
S	[m²]	Duct cross section
K_A	[dB]	Weight filter A correction (see Tab.2)

Acoustic output level in octave ranges.

$$L_{Woct} = L_{W1} + 10\log(S) + L_{rel}$$

L_{Woct}	[dB]	Acoustic output spectrum in octave range
L_{W1}	[dB]	Acoustic output level L_{W1} related to 1 m² cross-section (see Tab.1)
S	[m²]	Duct cross section
L_{rel}	[dB]	Relative level expressing the shape of the spectrum (see Tab.3)

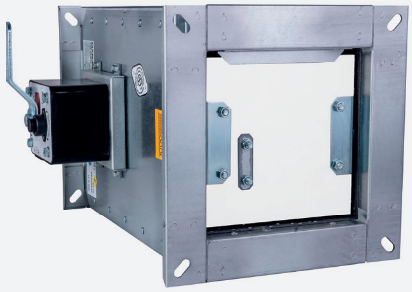
Table of acoustic values

Tab.1 Sound output level L_{W1} related to 1 m² cross-section

[-] ξ

v [m/s]	0,2	0,3	0,4	0,5	0,6	0,7	0,8	0,9	1	1,5	2	2,5	3	4	5
2	15,5	18,7	20,9	22,6	24	25,2	26,3	27,2	28	31,2	33,4	35,1	36,5	38,8	40,5
3	26,1	29,2	31,5	33,2	34,6	35,8	36,9	37,8	38,6	41,7	44	45,7	47,1	49,4	51,1
4	33,6	36,7	39	40,7	42,1	43,3	44,3	45,3	46,1	49,2	51,5	53,2	54,6	56,9	58,6
5	39,4	42,5	44,8	46,5	47,9	49,1	50,2	51,1	51,9	55	57,3	59	60,4	62,7	64,4
6	44,1	47,3	49,5	51,3	52,7	53,9	54,9	55,8	56,6	59,8	62	63,8	65,2	67,4	69,2
7	48,2	51,3	53,5	55,3	56,7	57,9	58,9	59,8	60,7	63,8	66,1	67,8	69,2	71,4	73,2
8	51,6	54,8	57	58,8	60,2	61,4	62,4	63,3	64,1	67,3	69,5	71,3	72,7	74,9	76,7
9	54,7	57,9	60,1	61,8	63,2	64,4	65,5	66,4	67,2	70,4	72,6	74,3	75,7	78	79,7
10	57,4	60,6	62,8	64,6	66	67,2	68,2	69,1	70	73,1	75,3	77,1	78,5	80,7	82,5
11	59,9	63,1	65,3	67,1	68,5	69,7	70,7	71,6	72,4	75,6	77,8	79,6	81	83,2	85
12	62,2	65,4	67,6	69,3	70,7	71,9	73	73,9	74,7	77,9	80,1	81,8	83,2	85,5	87,2

FD SERIES
FDMB
TECHNICAL DATA



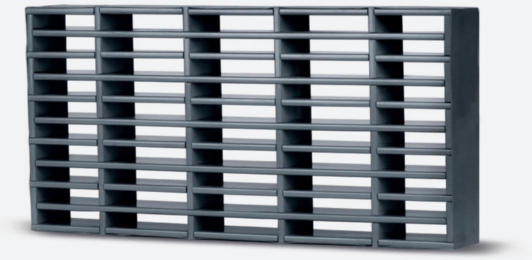
Filter A weight correction
Tab.2

W [m/s]	2	3	4	5	6	7	8	9	10	11	12
K_a [dB]	-15,0	-11,8	-9,8	-8,4	-7,3	6,4	-5,7	-5,0	-4,5	-4,0	-3,6

Tab.3 Relative level expressing the shape of the space L_{rel}

	f [Hz]							
w [m/s]	63	125	250	500	1000	2000	4000	8000
2	-4,5	-6,9	-10,9	-16,7	-24,1	-33,2	-43,9	-56,4
3	-3,9	-5,3	-8,4	-13,1	-19,5	-27,6	-37,4	-48,9
4	-3,9	-4,5	-6,9	-10,9	-16,7	-24,1	-33,2	-43,9
5	-4,0	-4,1	-5,9	-9,4	-14,6	-21,5	-30	-40,3
6	-4,2	-3,9	-5,3	-8,4	-13,1	-19,5	-27,6	-37,4
7	-4,5	-3,9	-4,9	-7,5	-11,9	-17,9	-25,7	-35,1
8	-4,9	-3,9	-4,5	-6,9	-10,9	-16,7	-24,1	-33,2
9	-5,2	-3,9	-4,3	-6,4	-10,1	-15,6	-22,7	-31,5
10	-5,5	-4	-4,1	-5,9	-9,4	-14,6	-21,5	-30
11	-5,9	-4,1	-4	-5,6	-8,9	-13,8	-20,4	-28,8
12	-6,2	-4,3	-3,9	-5,3	-8,4	-13,1	-19,5	-27,6

SV SERIES
SV - SVC
INTUMESCENT GRILLE



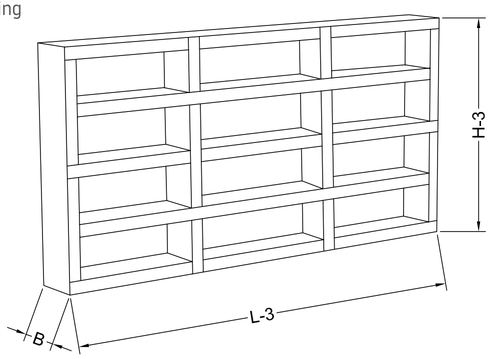
Model **SV.** Rectangular intumescent grille.
Model **SVC.** Circular intumescent grille.

Fire resistant ventilation grids that allow natural ventilation through construction intended for fire resistance (walls, partitions, doors, etc.)

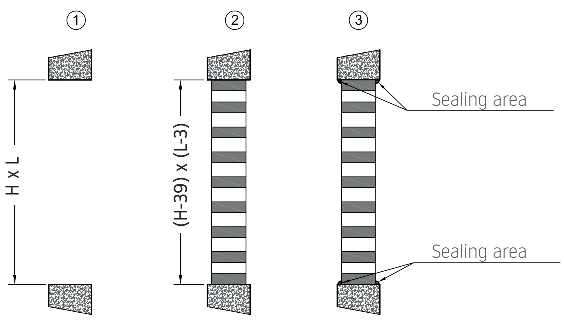
Characteristics:
Approved according to standards:
EN 1363-1 : 2012 and EN 1364-5:2017.
They react from 100ºC, the ventilation hole being completely sealed in about five minutes.
Clearance area ~60%.
Easy installation. Only to be used indoors. Avoid continuous temperatures over 40ºC.
Outer dimensions = Nominal dimensions -3mm.

SV

1. Hollow
2. Intumescent grid
3. Sealing

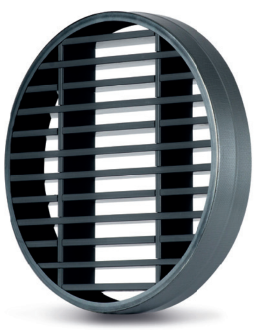


	B	
SV-60	40	EI60
SV-120	60	EI120



SVC

Dimensions Ø:
100 / 125 / 150 / 200 / 250 / 300 / 350 / 400



SV SERIES
SV - SVC
INTUMESCENT GRILLE

Legend:
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa
LwA = Sound power in dB(A)

		Pressure 2 Pa	Pressure 10 Pa
L x H	Area (m²)	m³/h	
200x100	0,02	75	150
300x100	0,03	100	225
400X100	0,04	150	300
300X200	0,06	225	475
400X200	0,08	300	650
300X300	0,09	325	700
500X200	0,1	375	800
400X300	0,12	450	950
500X300	0,15	550	1100
400X400	0,16	650	1350
500X400	0,2	900	1900
600X400	0,24	1350	2800
500X500	0,25	1500	3000
600X500	0,3	1900	3800
600X600	0,36	2500	5200

CI SERIES
CI
INTUMESCENT COLLAR

Model **CI.** Protecta® FR Collars are designed to maintain the fire resistance of fire rated walls and floors where they are penetrated for the passage of fixtures. They can be used in gypsum, masonry or concrete walls and floors.

Each collar consists of a circular steel casing that splits in two to fit around the penetrations by means of a simple “slide lock” system. The steel casing contains a reactive graphite-based material that reacts when exposed to heat, closing openings left by combustible installation material.

Properties:

- Patented, fast expanding graphite material.
- Rated for all types of constructions and installation passages, including plastic, multilayer and metallic pipes and cable bundles.
- Approved plastic pipe sizes range from the smallest to Ø 400 mm, each with a wide range of pipe wall thicknesses.
- The collars are available in various heights according to the required diameters.
- Smaller pipes can be installed inside larger collars.

larger collars if the opening around the pipe is too large.

- Rated up to EI 240. Maintaining integrity and insulation.
- Certified for use in U/U pipe ends.
- High acoustic insulation.
- No detrimental effects on PVC pipe, backed by mechanical testing.
- No emissions.
- Easy to install using standard fixings.

Classifications:

- Sound insulation:
  Rw 58 dB - Collars installed in walls.
- Fire resistance:
  Up to 4 hours depending on application.

Dimensions:

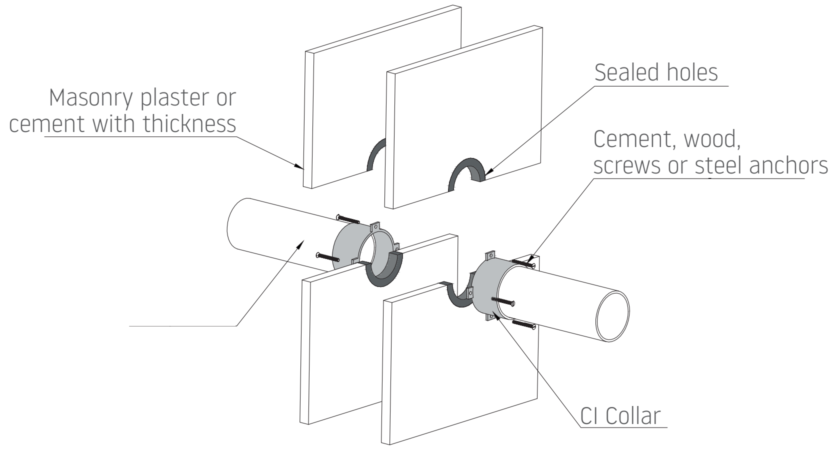
ø40 to ø315

Technical specifications:

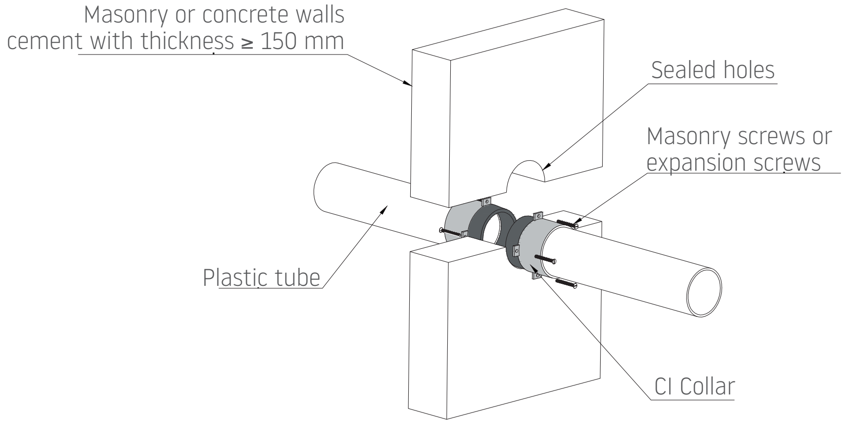
- Condition: Ready to use, steel housing with graphite material.
- Housing: 1mm powder coated steel.
- Conditioning procedure: EN 13238:2010.
- Expansion rate 17 : 1.
- Expansion pressure: 65.4 N.
- Density of graphite: 1409 kg/m³
- Normal expansion time: Less than 2 minutes.
- Minimum expansion temp.: 105 °C.
- Durability: International conditions Z2, with humidity class Z1, excluding temperatures below 0°C.
- Service life: Under normal conditions + 30 years.
- Installation temperature: 5 ˚C to 50 ˚C (sealant).
- CE Marking Classification: ETA-18/0854.

CI SERIES
CI
TECHNICAL DATA

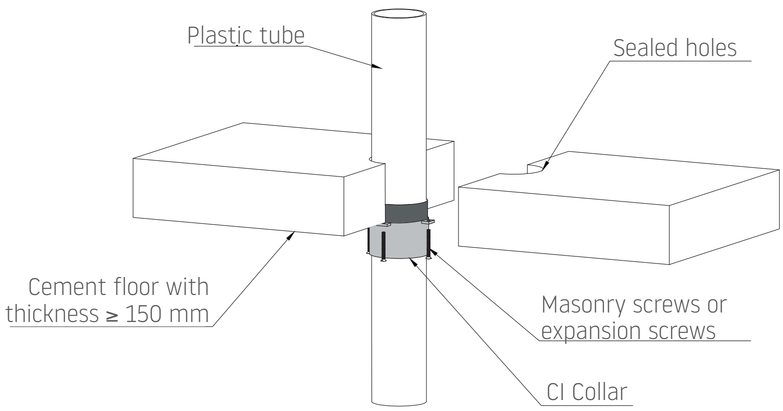
CI intumescent collar on flexible or rigid wall



CI intumescent collar on rigid wall



CI intumescent collar on rigid flooring



CF - FD - SV - CI SERIES

ORDER FORM

DESCRIPTION

Fire damper, type CFDM.01. Diameter Ø100. EI60.

Order form:

CFDM	.01	60	Ø100

Firefighinting systems series:	Mechanism:	EI:	Dimensions Ø:
CFDM	(.01)	60	100 / 125 / 160 / 200
CFDM-V	(.11)	90	
	(.15)	120	

DESCRIPTION

Circular fire damper, type FDMR.01. Diameter Ø 100.

Order form:

FDMR	.01	Ø100

Firefighinting systems series::	Mechanism:	Accessories:	Dimensions:
FDMR	(.01)	(.11)	Ø
	(.40)	(.80)	
	(.50)		

DESCRIPTION

Circular fire damper, type FDMB.01. 200x200.

Order form:

FDMB	.01	200x200

Firefighinting systems series:	Mechanism:	Accessories:	Dimensions:
FDMB	(.01)	(.11)	LxH
	(.40)	(.80)	
	(.50)		

CF - FD - SV - CI SERIES
ORDER FORM

DESCRIPTION

Rectangular intumescent grating, type SV-60. Dimensions LxH.

Order form:

SV	60	LxH

Firefighinting systems series:	EI:	Dimensions:
SV	60	LxH
SV-C	120	Ø

DESCRIPTION

ntumescent collar, type CI. ø 110.

Order form:

CI	110

Solutions

SMOKE EXTRACTION
SEDS SERIES

SEDS	Smoke extraction damper
SEDS-L	Smoke extraction damper

SAMOVENT® TECHNIK

DIFUSIÓN Y VENTILACIÓN

SMOKE EXTRACTION

SAMOVENT® TECHNIK

SEDS

SEDS-L

SEDS SERIES
SEDS
SMOKE EXTRACTION DAMPER

Model **SEDS.** Smoke extraction dampers - simple are louvers in smoke extraction piping systems. The dampers are designed to remove heat and products of combustion (e.g. smoke) from a fire compartment. The damper is operated by a drive mechanism.

Characteristics:

- The dampers can be installed in various duct sizes with respect to the direct application range according to EN 1366-9.
- The direct field of application based on test results is acceptable according to EN 1363-1, part A.1 and A.2, EN 1366-2, part 13 and EN 1366-10, part 9.
- Declaration of Performance No. PM/SEDS/01/21/1
- The dampers are designed for smoke evacuation systems with max. -1000 Pa underpressure or max. 500 Pa overpressure.
- The dampers are designed for a max. air velocity of 15 m/s.
- Smoke exhaust dampers - single are classified as E600 90 (ve-i <->o) A1000C_{300}AAsingle.
- In case of fire, the smoke and fire ventilation system opens the damper in the affected section, which removes the products of combustion and heat from this section.
- The dampers are designed for installation with horizontal louvred shaft. The direction of flow should be directed from the actuating side (it is marked with an arrow on the damper housing).
- The dampers are designed for macroclimatic zones with mild climate according to EN 60 721-3-3.
- The temperature at the installation site can range from -30°C to +50°C.

Dimensions:

200X200 a 1000x1000

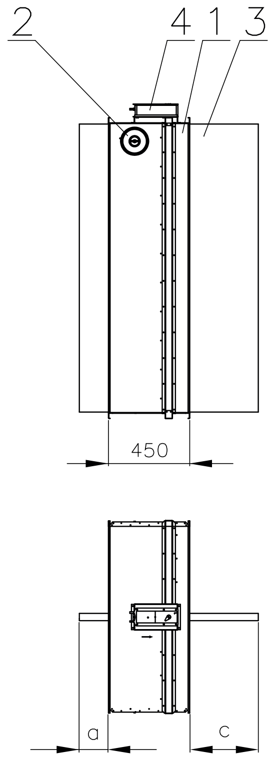
Models:

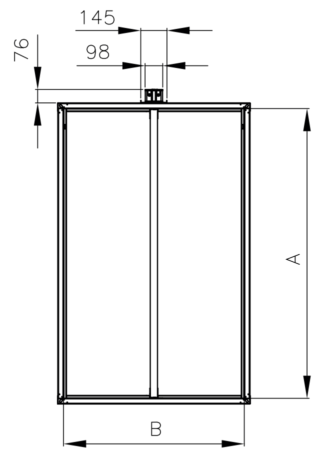
SEDS.44	Drive mechanism BLE230(BE230-12), InMax 50.75-S
SEDS.54	Drive mechanism BLE24(BE24-12), InMax 50.75-S
SEDS.66	Communication and power supply device BKNE 230-24 and drive mechanism BLE24 (BE24-12)-ST

SEDS SERIES
SEDS
SMOKE EXTRACTION DAMPER

SEDS

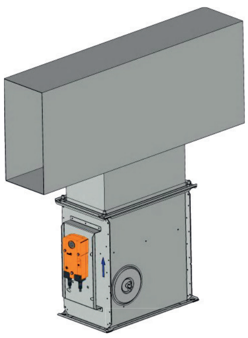
1.Damper body
2. Inspection hole cover
3. Damper blade
4. Actuating mechanism

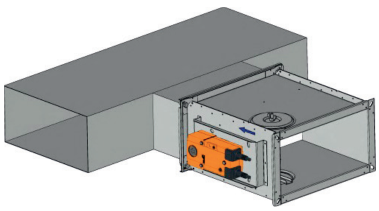




Installation examples

Smoke extraction dampers - single are designed to remove heat and products of combustion (e.g. smoke) from a fire compartment in accordance with EN 1366-9. Smoke extraction dampers - single are designed for installation with horizontal blade shaft. The back-to-back smoke exhaust duct must be hung or supported in such a way as to absolutely exclude any load transfer from the back-to-back smoke exhaust duct to the damper. To provide the necessary access space to the control device, all other objects must be located at least 350 mm from the control parts of the damper.





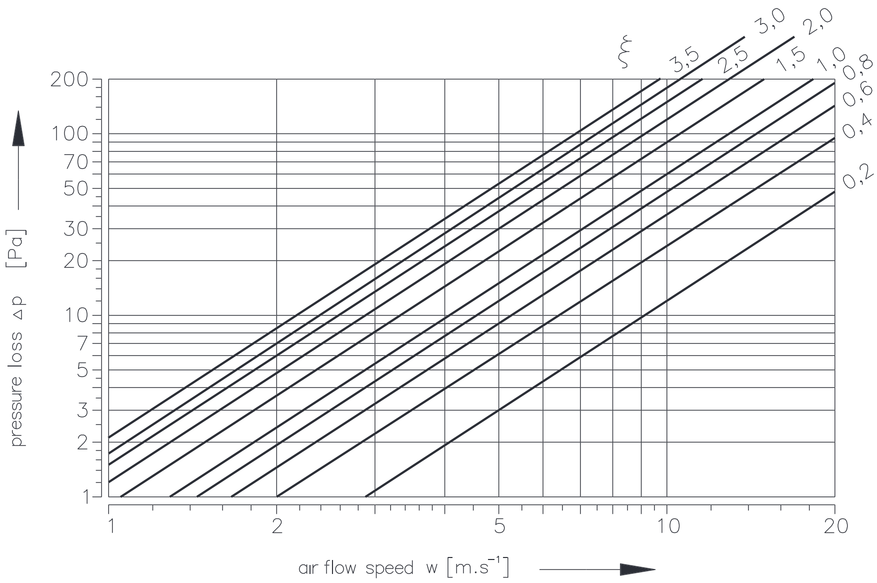
SEDS SERIES
SEDS
TECHNICAL DATA

Pressure loss calculation

$$\Delta p = \xi \cdot \rho \cdot \frac{w^2}{2}$$

Δp	[Pa]	Pressure drop
w	[$m.s^{-1}$]	Air flow velocity at nominal damper section
ρ	[$kg.m^{-3}$]	Air density
ξ	[-]	Local pressure loss coefficient for the nominal cross-section of the damper

Determination of pressure loss using p=1.2kg.m³ diagram



SEDS SERIES

SEDS

TECHNICAL DATA

Local pressure loss coefficient ξ (-)   ξ

A	B																				
	180	200	225	250	280	300	315	355	400	450	500	550	560	600	630	650	700	710	750	800	900	1000
180	1,849	1,476	1,186	0,983	0,869	0,776	0,703	0,608	0,535	0,478	0,437	0,411	0,400	0,381	0,369	0,352	0,349	0,343	0,331	0,322	0,304	0,291
200	1,737	1,385	1,152	0,921	0,823	0,736	0,658	0,569	0,500	0,446	0,407	0,385	0,373	0,356	0,344	0,331	0,325	0,320	0,312	0,300	0,284	0,271
225	1,635	1,296	1,078	0,877	0,778	0,682	0,614	0,543	0,479	0,421	0,386	0,364	0,348	0,336	0,327	0,315	0,311	0,302	0,296	0,281	0,268	0,254
250	1,553	1,236	1,012	0,819	0,716	0,635	0,583	0,504	0,442	0,394	0,360	0,346	0,330	0,316	0,304	0,294	0,289	0,286	0,278	0,264	0,255	0,239
280	1,513	1,201	0,981	0,789	0,681	0,618	0,549	0,489	0,426	0,375	0,352	0,327	0,312	0,303	0,291	0,284	0,282	0,278	0,263	0,253	0,248	0,231
300	1,475	1,166	0,925	0,752	0,669	0,593	0,534	0,475	0,415	0,367	0,331	0,313	0,306	0,291	0,279	0,275	0,272	0,269	0,251	0,246	0,237	0,224
315	1,415	1,124	0,899	0,728	0,641	0,579	0,518	0,456	0,400	0,356	0,325	0,302	0,297	0,276	0,274	0,263	0,258	0,254	0,241	0,238	0,225	0,215
355	1,359	1,079	0,856	0,713	0,628	0,545	0,506	0,436	0,383	0,341	0,311	0,288	0,284	0,268	0,262	0,254	0,248	0,243	0,233	0,228	0,215	0,205
400	1,312	1,041	0,811	0,687	0,601	0,532	0,487	0,420	0,368	0,328	0,299	0,279	0,273	0,263	0,252	0,246	0,241	0,234	0,226	0,219	0,207	0,197
450	1,271	1,009	0,789	0,665	0,589	0,519	0,471	0,406	0,356	0,317	0,289	0,268	0,264	0,256	0,243	0,238	0,231	0,226	0,221	0,211	0,199	0,190
500	1,240	0,983	0,786	0,648	0,556	0,499	0,449	0,395	0,346	0,308	0,281	0,265	0,257	0,246	0,236	0,228	0,223	0,219	0,211	0,205	0,194	0,185
550	1,219	0,971	0,763	0,637	0,543	0,482	0,442	0,389	0,341	0,305	0,278	0,261	0,251	0,244	0,234	0,224	0,221	0,215	0,207	0,203	0,191	0,183
560	1,211	0,960	0,758	0,632	0,533	0,483	0,437	0,385	0,337	0,300	0,274	0,258	0,250	0,241	0,230	0,221	0,219	0,214	0,203	0,200	0,189	0,180
600	1,191	0,948	0,753	0,627	0,527	0,473	0,431	0,379	0,331	0,298	0,270	0,257	0,247	0,234	0,228	0,216	0,214	0,211	0,202	0,198	0,186	0,178
630	1,184	0,938	0,749	0,617	0,521	0,463	0,427	0,376	0,329	0,293	0,267	0,253	0,244	0,231	0,225	0,213	0,210	0,208	0,201	0,195	0,184	0,176
650	1,179	0,926	0,738	0,613	0,511	0,458	0,425	0,372	0,327	0,291	0,265	0,251	0,241	0,231	0,224	0,212	0,209	0,206	0,200	0,194	0,183	0,175
700	1,169	0,922	0,736	0,607	0,501	0,453	0,421	0,370	0,324	0,289	0,263	0,250	0,240	0,227	0,223	0,211	0,208	0,205	0,199	0,193	0,181	0,173
710	1,160	0,919	0,722	0,604	0,502	0,444	0,417	0,368	0,322	0,287	0,261	0,248	0,239	0,224	0,220	0,210	0,206	0,204	0,197	0,191	0,180	0,172
750	1,151	0,907	0,716	0,599	0,499	0,441	0,411	0,364	0,318	0,285	0,258	0,247	0,237	0,221	0,218	0,209	0,204	0,202	0,195	0,189	0,178	0,169
800	1,140	0,903	0,711	0,593	0,496	0,438	0,409	0,361	0,316	0,281	0,256	0,246	0,234	0,221	0,215	0,208	0,203	0,200	0,193	0,187	0,176	0,168
900	1,122	0,888	0,709	0,583	0,484	0,427	0,402	0,355	0,310	0,276	0,252	0,244	0,230	0,221	0,212	0,207	0,201	0,196	0,187	0,184	0,173	0,165
1000	1,108	0,877	0,706	0,576	0,467	0,418	0,397	0,350	0,306	0,273	0,248	0,236	0,227	0,218	0,209	0,206	0,197	0,193	0,185	0,181	0,171	0,163
1100	1,095	0,867	0,701	0,569	0,456	0,412	0,392	0,345	0,302	0,269	0,245	0,231	0,224	0,211	0,206	0,201	0,194	0,191	0,182	0,179	0,168	0,161
1250	1,084	0,857	0,693	0,562	0,455	0,411	0,387	0,342	0,299	0,266	0,242	0,228	0,221	0,208	0,203	0,199	0,193	0,189	0,181	0,176	0,166	0,159
1400	1,073	0,849	0,688	0,557	0,454	0,410	0,383	0,338	0,296	0,263	0,240	0,225	0,219	0,206	0,201	0,196	0,192	0,187	0,179	0,175	0,165	0,157
1500	1,067	0,844	0,683	0,554	0,452	0,408	0,381	0,336	0,294	0,262	0,238	0,223	0,218	0,205	0,200	0,194	0,191	0,186	0,178	0,174	0,164	0,156
1600	1,062	0,840	0,657	0,551	0,451	0,406	0,379	0,334	0,293	0,260	0,237	0,222	0,216	0,203	0,199	0,192	0,190	0,185	0,176	0,173	0,163	0,155

SEDS SERIES
SEDS-L
SMOKE EXTRACTION DAMPER

Model **SEDS-L.** Smoke extraction dampers - simple are louvers in smoke extraction piping systems. The dampers are designed to remove heat and combustion products (e.g. smoke) from a single fire compartment. In the event of a fire, the smoke and fire exhaust system opens the damper in the affected section, which removes combustion products and heat from this section.

Characteristics:
- The dampers can be installed in various duct sizes with respect to the direct application range according to EN 1366-9.
- The direct application range based on test results is acceptable according to EN 1363-1, part A.1 and A.2, EN 1366-2, part 13 and EN 1366-10, part 9.
- Smoke extraction dampers - single are classified as o E_{600} 120 (v_e-i <->o) A1500C_{mod}MAsingle.
- CE-certified according to EN 12101-8
- Tested according to EN 1366-10
- Classified according to EN 13501- 4+A1
- External housing leakage min. class B, internal leakage min. class 3 acc. to EN 1751
- Cycle test in class Cmod according to EN 12101-8
- Certificate EN No. 1391-CPR-2020/0187
- Declaration of Performance No. PM/SEDS-L/01/20/2
- Hygienic evaluation of fire dampers - Report No. 1.6/pos/19c

Working conditions:
- The dampers are designed for smoke evacuation systems with a maximum underpressure of 1500 Pa. 1500 Pa or max. overpressure 500 Pa.
- The dampers are designed for a maximum air velocity of 12 m/s.
- The dampers are installed with horizontal or vertical blade axis.
- The dampers are intended for installation in air ducts and in/on walls, where in case of wall installation, this wall with damper has no fire resistance and therefore does not separate two fire sectors.
- The dampers are suitable for systems without abrasive, chemical and adhesive particles. The dampers are designed for macroclimatic zones with mild climate according to EN 60 721-3-3. The temperature at the installation site can range from -20°C to +50°C.

Dimensions:
200x200 to 1200x1200

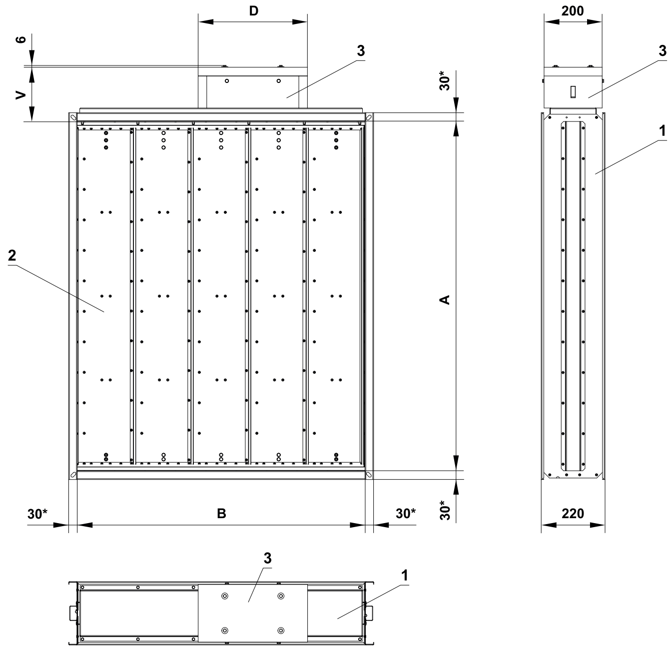
Models:

SEDS-L.44	Actuating mechanism BLE230(BE230-12)
SEDS-L.54	Actuating mechanism BLE24(BE24-12)

SEDS SERIES
SEDS-L
SMOKE EXTRACTION DAMPER

SEDS-L

1. Gate body
2. Damper blade
3. Actuating mechanism cover

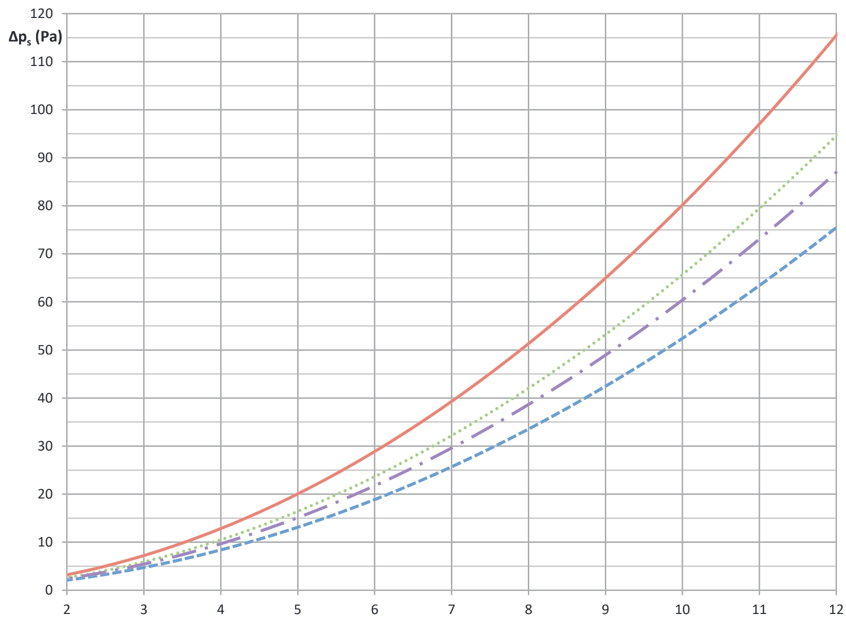


* standard flange height

Actuating mechanism	V [mm]	D [mm]
BEN /BEE	176,5	315
BE	186,5	380
BEN / BEE + BKNE	236,5	315
BE + BKNE	251,5	380

SEDS SERIES
SEDS-L
TECHNICAL DATA

Loss of pressure
The pressure losses of the damper were determined for an air density of 1.2 kg/m³.



Δps - static pressure drop
w - air velocity in free cross section (AxB)
B - damper height

B=200/400/600/800/1000/1200mm B=250mm B=300/450mm B=350/500/700/900/1100mm

Noise information
Sound power level corrected with filter A

Sound power level Lw in dB (A) for B= 250/300/450mm, damper fully open

w (m/s) / f (Hz)	63	125	250	500	1000	2000	4000	8000	Total
2	16	24	29	29	28	26	23	9	**35**
3	25	33	38	38	37	35	32	18	**44**
4	32	40	45	45	44	42	39	25	**51**
5	28	46	51	51	50	48	45	31	**57**
6	42	50	55	55	54	52	49	35	**61**
7	46	54	59	59	58	56	53	39	**65**
8	49	57	62	62	61	59	56	42	**68**
9	50	58	63	63	62	60	57	43	**69**
10	53	61	66	66	65	63	60	46	**72**
11	55	63	68	68	67	65	62	48	**74**
12	57	65	70	70	69	67	64	50	**76**

w - air velocity in the free cross section (AxB) - i.e. before the blades
f - octave band frequency

SEDS SERIES
SEDS-L
TECHNICAL DATA

Sound power level Lw in dB (A) for B= 350/500/700/900/1100mm, damper fully open

w (m/s) \ f (Hz)	63	125	250	500	1000	2000	4000	8000	Total
2	15	23	28	28	27	25	22	8	**34**
3	24	32	37	37	36	34	31	17	**43**
4	31	39	44	44	43	41	38	24	**50**
5	36	44	49	49	48	46	43	29	**55**
6	41	49	54	54	53	51	48	34	**60**
7	45	53	58	58	57	55	52	38	**64**
8	48	56	61	61	60	58	55	41	**67**
9	49	57	62	62	61	59	56	42	**68**
10	51	59	64	64	63	61	58	44	**70**
11	53	61	66	66	65	63	60	46	**72**
12	55	63	68	68	67	65	62	48	**74**

w - air velocity in the free cross section (AxB) - i.e. before the blades
f - octave band frequency

Sound power level Lw in dB (A) for B= 200/400/600/800/1000/1200mm, fully open damper

w (m/s) \ f (Hz)	63	125	250	500	1000	2000	4000	8000	Total
2	13	21	26	26	25	23	20	6	**32**
3	21	29	34	34	33	31	28	14	**40**
4	28	36	41	41	40	38	35	21	**47**
5	34	42	47	47	46	44	41	27	**53**
6	38	46	51	51	50	48	45	31	**57**
7	42	50	55	55	54	52	49	35	**61**
8	45	53	58	58	57	55	52	38	**64**
9	47	55	60	60	59	57	54	40	**66**
10	48	56	61	61	60	58	55	41	**67**
11	50	58	63	63	62	60	57	43	**69**
12	52	60	65	65	64	62	59	45	**71**

w - air velocity in the free cross section (AxB) - i.e. before the blades
f - octave band frequency

VOLUME CONTROL AND PRESSURE RELIEF SYSTEMS

ALD - ALS - ALR - SPP - SPT - TA SERIES

50-ALD-70	Volume control damper with double blades and 50 mm pitch
100-ALS-115	Volume control damper with simple blades and 100mm pitch
100-ALD-125	Volume control damper with double blades and 100 mm pitch
100-ALR-125	Volume control damper with double blades and 100 mm pitch
SPP	Pressure relief damper with L-shaped frame.
SPT	Pressure relief damper with U-shaped frame.
TA-65	External air louver

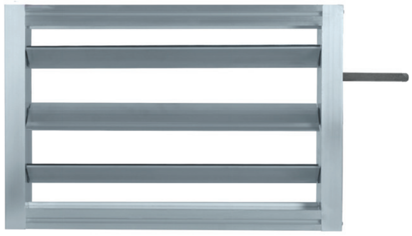
SAMOVENT® TECHNIK

DIFUSIÓN Y VENTILACIÓN

50-ALD-70

100-ALS-115

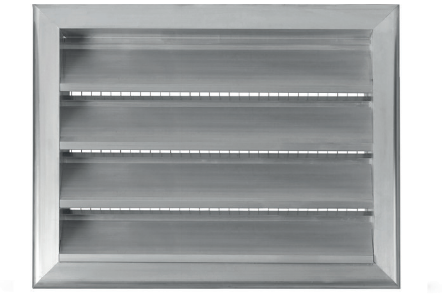
100-ALD-125



100-ALR-125

SPP

SPT



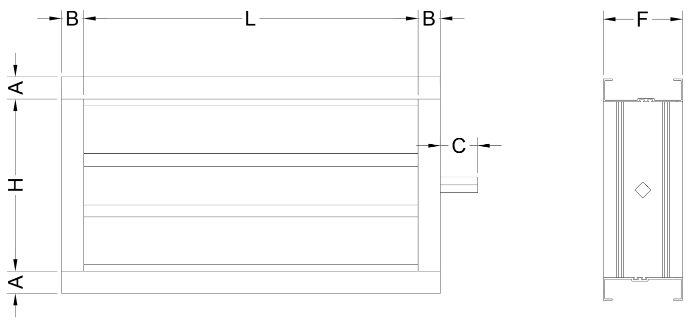
TA-65

ALD SERIES
50-ALD-70
VOLUME CONTROL DAMPER

Model 50-ALD-70. Aluminium regulation damper with double blades and 70mm frame with opening in opposition, by means of gears made of polyamide and glass fibre, located inside the side profile.

Made of extruded aluminium.
Incorporates thermoplastic rubber seals to improve the closure of the damper.
Drive for motorization or with incorporated servomotor.

50-ALD-70



	A	B	C	F
50-ALD-70	20	20	30	70

STANDARDIZED NOMINAL DIMENSIONS

L	200	300	400	500	600	700	800
H	105	155	205	255	305	355	

DESCRIPTION

Aluminium control damper with double blades, type 50-ALD-70 for motorisation (MT). Of 400x155.

Order form:

50-ALD-70	LxH	MT

Control Damper Series:
50-ALD-70

LxH:
400X155

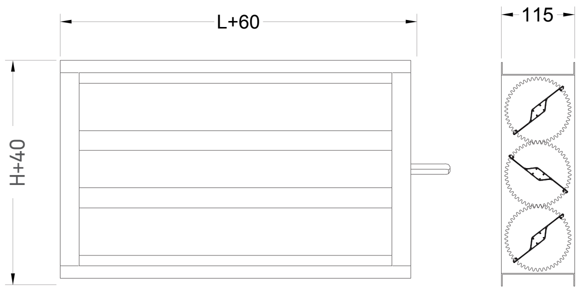
Drive:
(MT) Preparation for motorization
(MS) Incorporated servomotor

ALS SERIES
100-ALS-115
VOLUME CONTROL DAMPER

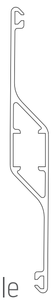
Model 100-ALS-115. CAluminium regulation damper with simple blades and 115mm frame with opening in opposition, by means of gears made of polyamide and fibreglass, located inside the side profile.

Made of extruded aluminium.
Incorporates thermoplastic seals to improve the closure of the damper.
Motorised drive, with manual control or built-in servomotor.
Damper interconnection in L-T-D version.

100-ALS-115



Lama

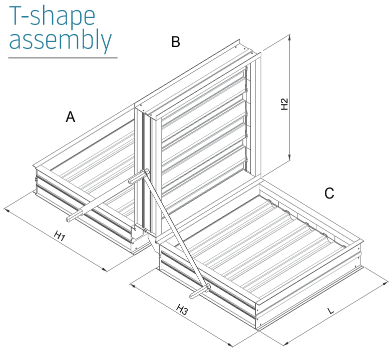


Simple

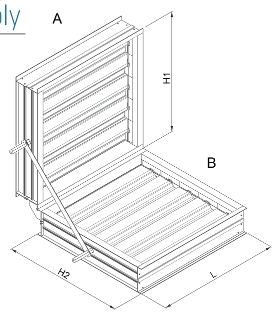
STANDARDIZED NOMINAL DIMENSIONS

L	200	300	400	500	...	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
H	111	211	312	412	512	613	713	813	914	1014	1114	1215	1315	1415	1515	

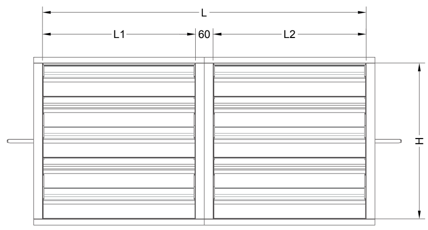
T-shape assembly



L-shape assembly



D-shape assembly



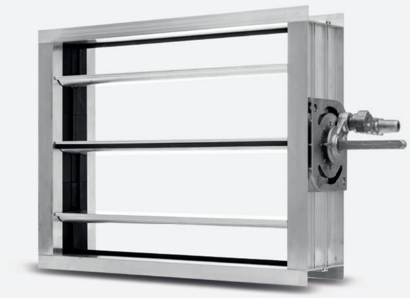
DESCRIPTION

Type 100-ALD-125 aluminium double bladed control damper for motorisation (MT). Of 400x312

Order form:

100-ALS-115	LxH	MT

Control Damper Series:	**LxH:**	**Drive:**
100-ALS-115	400X312	**(MN)** Manual control
		(MT) Preparation for motorization
		(MS) Incorporated servomotor



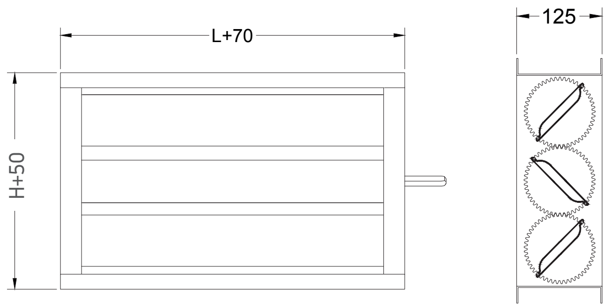
ALS SERIES
100-ALD-125
VOLUME CONTROL DAMPER

Model 100-ALD-125. Aluminium regulation damper with double blades and 125mm frame with opening in opposition, by means of gears made of polyamide and glass fibre, located inside the side profile.

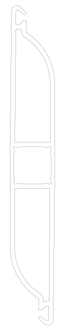
Made of extruded aluminium.
Incorporates thermoplastic rubber seals to improve the closure of the damper.
Drive for motorization, with manual control or built-in servomotor.
Damper interconnection in L-T-D version.

Possibility of manufacturing according to Class 3 UNI EN 1751:2003. Please consult us.

100-ALD-125



Lama

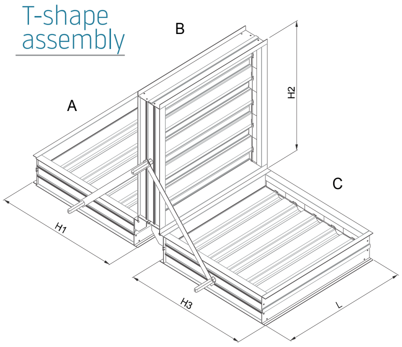


Double

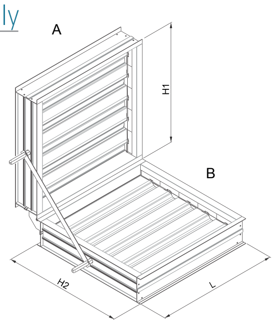
STANDARDIZED NOMINAL DIMENSIONS

L	200	300	400	500	...	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
H	111	211	312	412	512	613	713	813	914	1014	1114	1215	1315	1415	1515	

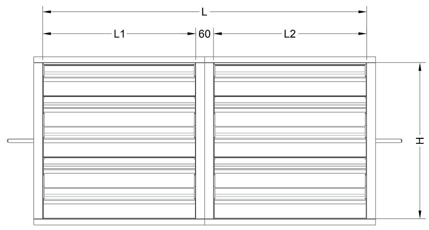
T-shape assembly



L-shape assembly



D-shape assembly



DESCRIPTION

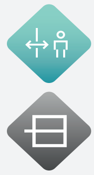
Aluminium control damper with double blades, 100-ALD-125 for motorisation (MT). Of 400x312.

Order form:

100-ALD-125	LxH	MT

Control Damper Series:	**LxH:**	**Drive:**
100-ALD-125	400x312	**(MN)** Manual control
		(MT) Preparation for motorization
		(MS) Incorporated servomotor

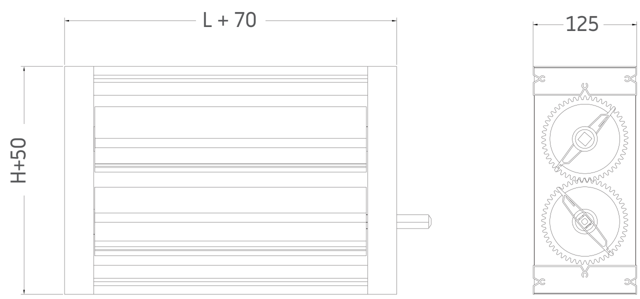
SERIE ALS
100-ALR-125
VOLUME CONTROL DAMPER



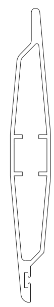
Model 100-ALR-125. Aluminium double bladed control damper with 125 mm frame with opening in opposition, by means of plastic gears, located on the side of the profile, protected by a cover formed in galvanized plate.

Made of extruded aluminium.
Drive for motorization, with manual control or incorporated servomotor.

100-ALR-125



Lama



STANDARDIZED NOMINAL DIMENSIONS

L	200	300	400	500	...	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
H	113	213	313	413	513	613	713	813	913	1013	1113	1213	1313	1413	1513	

DESCRIPTION

Aluminium regulating damper with double blades, type 100-ALR-125 for motorisation (MT). Of 400x 213.

Order form:

100-ALR-125	LxH	MT

Control Damper Series: 100-ALR-125

LxH: 400X213

Drive:
- **(MN)** Manual control
- **(MT)** Preparation for motorization
- **(MS)** Incorporated servomotor

ALS - ALD - ALR SERIES

SELECTION TABLE

Legend:
Q = Flow rate
Af = Face area in m² Vk = Effective velocity in m/s
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

Q (m^3/h) (l/s)	Af	0,02	0,03	0,04	0,06	0,08	0,10	0,14	0,18	0,24	0,33	0,44	0,56	0,75	1,00	1,26	1,71	2,30	3,00
250 69,4	Vk Pt LwA	3,5 2,6 24	2,3 1,1 16	1,7 0,6 10															
500 138,9	Vk Pt LwA	6,9 10,9 42	4,6 4,7 33	3,5 2,6 27	2,3 1,1 19	1,7 0,6 13													
750 208,3	Vk Pt LwA	10,4 25,0 52	6,9 10,9 44	5,2 6,0 38	3,5 2,6 29	2,6 1,5 23	2,1 0,9 19	1,5 0,5 12											
1000 277,8	Vk Pt LwA	13,9 45,2 59	9,3 19,6 51	6,9 10,9 45	4,6 4,7 36	3,5 2,6 30	2,8 1,7 26	2,0 0,8 19	1,5 0,5 14										
1500 416,7	Vk Pt LwA		13,9 45,2 61	10,4 25,0 55	6,9 10,9 47	5,2 6,0 41	4,2 3,8 36	3,0 1,9 29	2,3 1,1 24	1,7 0,6 18	1,3 0,3 11								
2000 555,6	Vk Pt LwA			13,9 45,2 62	9,3 19,6 54	6,9 10,9 48	5,6 6,9 43	4,0 3,5 36	3,1 2,1 31	2,3 1,1 25	1,7 0,6 18	1,3 0,3 12							
3000 833,3	Vk Pt LwA				13,9 45,2 64	10,4 25,0 58	8,3 15,8 53	6,0 7,9 46	4,6 4,7 41	3,5 2,6 35	2,5 1,4 29	1,9 0,8 23	1,5 0,5 18						
4000 1111,1	Vk Pt LwA					13,9 45,2 65	11,1 28,6 61	7,9 14,3 54	6,2 8,5 48	4,6 4,7 42	3,4 2,5 36	2,5 1,4 30	2,0 0,8 25	1,5 0,5 19					
6000 1666,7	Vk Pt LwA							11,9 32,9 64	9,3 19,6 59	6,9 10,9 53	5,1 5,7 46	3,8 3,1 40	3,0 1,9 35	2,2 1,0 29	1,7 0,6 23	1,3 0,4 18			
8000 2222,2	Vk Pt LwA								12,3 35,5 66	9,3 19,6 60	6,7 10,2 53	5,1 5,7 47	4,0 3,5 42	3,0 1,9 36	2,2 1,0 30	1,8 0,7 25	1,3 0,3 19		
10000 2777,8	Vk Pt LwA									11,6 31,1 65	8,4 16,2 59	6,3 9,0 53	5,0 5,5 48	3,7 3,0 42	2,8 1,7 36	2,2 1,0 31	1,6 0,6 25	1,2 0,3 18	
12500 3472,2	Vk Pt LwA										10,5 25,5 64	7,9 14,1 58	6,2 8,6 53	4,6 4,7 47	3,5 2,6 41	2,8 1,6 37	2,0 0,9 30	1,5 0,5 24	1,2 0,3 19
15000 4166,7	Vk Pt LwA											9,5 20,6 63	7,4 12,5 58	5,6 6,9 52	4,2 3,8 46	3,3 2,4 41	2,4 1,3 35	1,8 0,7 29	1,4 0,4 23
20000 5555,6	Vk Pt LwA												9,9 22,6 65	7,4 12,4 59	5,6 6,9 53	4,4 4,3 48	3,2 2,3 42	2,4 1,2 36	1,9 0,7 30
25000 6944,4	Vk Pt LwA													9,3 19,6 65	6,9 10,9 59	5,5 6,8 54	4,1 3,6 48	3,0 2,0 41	2,3 1,1 36
30000 8333,3	Vk Pt LwA														8,3 15,8 63	6,6 9,8 59	4,9 5,3 52	3,6 2,9 46	2,8 1,7 41
35000 9722,2	Vk Pt LwA															7,7 13,5 62	5,7 7,2 56	4,2 3,9 50	3,2 2,3 44
40000 11111,1	Vk Pt LwA															8,8 17,8 66	6,5 9,5 59	4,8 5,2 53	3,7 3,0 48

DAMPER OPENING

	100%	75%	50%	25%
Pt	x1	x8	x100	x440
LwA	+0	+6	+25	+55

SERVOMOTORS

POWER Nm	DAMPER SURFACE
4 Nm	Hasta 0,8 m2
8 Nm	Hasta 1,5 m2
16 Nm	Hasta 3 m2

ALS - ALD - ALR SERIES

SELECTION TABLE

Front area control dampers 100-AL

L	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
H 111	0,02	0,03	0,04	0,05	0,06	0,07	0,08	0,09	0,10	0,11	0,12	0,13	0,14	0,15	0,16	0,17	0,18	0,19	0,20
H 211	0,04	0,06	0,08	0,10	0,12	0,14	0,16	0,18	0,20	0,22	0,24	0,26	0,28	0,30	0,32	0,34	0,36	0,38	0,40
H 312	0,06	0,09	0,12	0,15	0,18	0,21	0,24	0,27	0,30	0,33	0,36	0,39	0,42	0,45	0,48	0,51	0,54	0,57	0,60
H412	0,08	0,12	0,16	0,20	0,24	0,28	0,32	0,36	0,40	0,44	0,48	0,52	0,56	0,60	0,64	0,68	0,72	0,76	0,80
H 512	0,10	0,15	0,20	0,25	0,30	0,35	0,40	0,45	0,50	0,55	0,60	0,65	0,70	0,75	0,80	0,85	0,90	0,95	1,00
H 613	0,12	0,18	0,24	0,30	0,36	0,42	0,48	0,54	0,60	0,66	0,72	0,78	0,84	0,90	0,96	1,02	1,08	1,14	1,20
H 713	0,14	0,21	0,28	0,35	0,42	0,49	0,56	0,63	0,70	0,77	0,84	0,91	0,98	1,05	1,12	1,19	1,26	1,33	1,40
H 813	0,16	0,24	0,32	0,40	0,48	0,56	0,64	0,72	0,80	0,88	0,96	1,04	1,12	1,20	1,28	1,36	1,44	1,52	1,60
H 914	0,18	0,27	0,36	0,45	0,54	0,63	0,72	0,81	0,90	0,99	1,08	1,17	1,26	1,35	1,44	1,53	1,62	1,71	1,80
H 1014	0,20	0,30	0,40	0,50	0,60	0,70	0,80	0,90	1,00	1,10	1,20	1,30	1,40	1,50	1,60	1,70	1,80	1,90	2,00
H 1114	0,22	0,33	0,44	0,55	0,66	0,77	0,88	0,99	1,10	1,21	1,32	1,43	1,54	1,65	1,76	1,87	1,98	2,09	2,20
H 1215	0,24	0,36	0,48	0,60	0,72	0,84	0,96	1,08	1,20	1,32	1,44	1,56	1,68	1,80	1,92	2,04	2,16	2,28	2,40
H 1315	0,26	0,39	0,52	0,65	0,78	0,91	1,04	1,17	1,30	1,43	1,56	1,69	1,82	1,95	2,08	2,21	2,34	2,47	2,60
H 1415	0,28	0,42	0,56	0,70	0,84	0,98	1,12	1,26	1,40	1,54	1,68	1,82	1,96	2,10	2,24	2,38	2,52	2,66	2,80
H 1515	0,30	0,45	0,60	0,75	0,90	1,05	1,20	1,35	1,50	1,65	1,80	1,95	2,10	2,25	2,40	2,55	2,70	2,85	3,00

Front area control dampers 50-AL

L	200	300	400	500	600	700	800
H 55	0,010	0,015	0,020	0,025	0,030	0,035	0,040
H 105	0,020	0,030	0,040	0,050	0,060	0,070	0,080
H 155	0,030	0,045	0,060	0,075	0,090	0,105	0,120
H 205	0,040	0,060	0,080	0,100	0,120	0,140	0,160
H 255	0,050	0,075	0,100	0,125	0,150	0,175	0,200
H 305	0,060	0,090	0,120	0,150	0,180	0,210	0,240
H 355	0,070	0,105	0,140	0,175	0,210	0,245	0,280

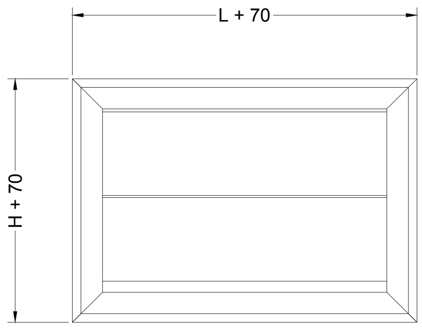
SP SERIES
SPP
PRESSURE RELIEF DAMPER

Pressure relief dampers are used as terminals for low and medium pressure ventilation systems. The moving blades of the damper open under the influence of the pressure increase in a ventilation system, in the same way the damper will be kept closed to protect the ventilation system against rain and possible air flows on its outside surface, thanks to its rotation stops.

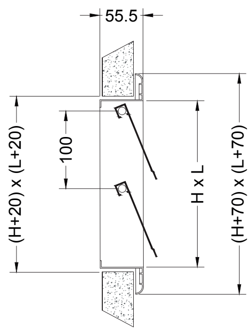
Model SPP-1. Pressure relief damper for air release, with movable air blades and L-shaped frame.
Model SPP-2. Pressure relief damper for air intake, with movable air blades and L-shaped frame.

Suitable for wall and duct installation.
Made of aluminium with movable blades.
Movable blades to the air passage.

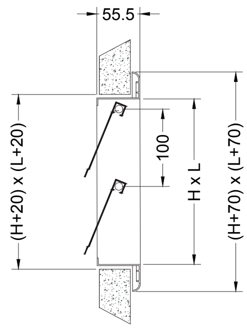
SPP-1
SPP-2



SPP-1



SPP-2



STANDARDIZED NOMINAL DIMENSIONS

L	300	400	500	600	700	800	900	1000	
H	220	320	420	520	620	720	820	920	1020

DESCRIPTION

Pressure relief damper for air release, with movable air blades and L-shaped frame, type SPP-1.

Order form:

SPP-1	500x1020

Pressure relief dampers series:	**LxH:**
SPP-1 SPP-2	500x1020

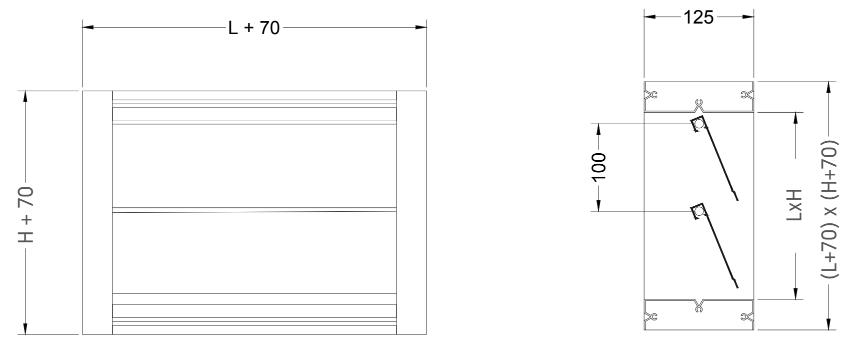
SP SERIES
SPT
PRESSURE RELIEF DAMPER

Pressure relief dampers are used as terminals for low and medium pressure ventilation systems. The moving blades of the damper open under the influence of the pressure increase in a ventilation system, in the same way the damper will be kept closed to protect the ventilation system against rain and possible air flows on its outside surface, thanks to its rotation stops.

Model SPT. Pressure relief damper with movable air blades and U-frame.
Standard natural aluminium finish.

Suitable for wall and duct installation.
Made of aluminium with movable blades.
Movable blades to the air passage.

SPT



STANDARDIZED NOMINAL DIMENSIONS

L	300	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000	
H	220	320	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520

VOLUME CONTROL

DESCRIPTION

Pressure relief damper with movable air blades and U-shaped frame, type SPT.

Order form:

SPT	500x1020

Pressure relief dampers series: SPT

LxH: 500x1020

SP SERIES
SPP - SPT
SELECTION TABLE

Legend:
Q = Flow rate
Af = Face area in m²
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

Q (m³/h) (l/s)	Af	0,07	0,15	0,30	0,50	0,75	1,00	1,25	1,50	2,00	2,50	3,00
500	Vk	2,0	0,9									
138,9	Pt	18	9									
1000	Vk	4,0	1,9									
277,8	Pt	37	17									
1250	Vk	5,0	2,3									
347,2	Pt	46	22									
1500	Vk	6,0	2,8	1,4								
416,7	Pt	55	26	13								
2000	Vk	7,9	3,7	1,9	1,1							
555,6	Pt A	74	34	17	10							
2500	Vk	9,9	4,6	2,3	1,4							
694,4	Pt	92	43	22	13							
3000	Vk		5,6	2,8	1,7	1,1						
833,3	Pt		52	26	16	10						
3500	Vk		6,5	3,2	1,9	1,3	1,0					
972,2	Pt		60	30	18	12	9					
4000	Vk		7,4	3,7	2,2	1,5	1,1					
1111,1	Pt		69	34	21	14	10					
5000	Vk		9,3	4,6	2,8	1,9	1,4	1,1				
1388,9	Pt		86	43	26	17	13	10				
6000	Vk			5,6	3,3	2,2	1,7	1,3	1,1			
1666,7	Pt			52	31	21	16	12	10			
8000	Vk			7,4	4,4	3,0	2,2	1,8	1,5	1,1		
2222,2	Pt			69	41	28	21	17	14	10		
10000	Vk			9,3	5,6	3,7	2,8	2,2	1,9	1,4	1,1	
2777,8	Pt			86	52	34	26	21	17	13	10	
15000	Vk				8,3	5,6	4,2	3,3	2,8	2,1	1,7	1,4
4166,7	Pt				78	52	39	31	26	19	16	13
20000	Vk					7,4	5,6	4,4	3,7	2,8	2,2	1,9
5555,6	Pt					69	52	41	34	26	21	17
25000	Vk					9,3	6,9	5,6	4,6	3,5	2,8	2,3
6944,4	Pt					86	65	52	43	32	26	22
30000	Vk						8,3	6,7	5,6	4,2	3,3	2,8
8333,3	Pt						78	62	52	39	31	26
35000	Vk						9,7	7,8	6,5	4,9	3,9	3,2
9722,2	Pt						90	72	60	45	36	30
40000	Vk							8,9	7,4	5,6	4,4	3,7
11111,1	Pt							83	69	52	41	34

SP SERIES
SPP - SPT
SELECTION TABLE

Front area pressure relief dampers

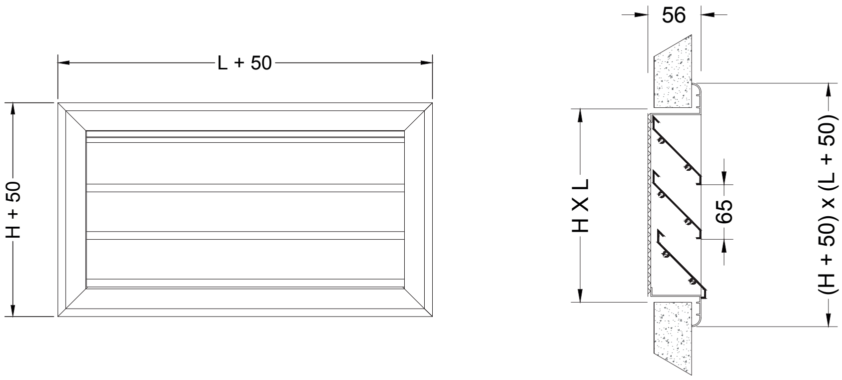
L	300	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000
H 220	0,07	0,09	0,11	0,13	0,15	0,18	0,20	0,22	0,26	0,31	0,35	0,40	0,44
H 320	0,10	0,13	0,16	0,19	0,22	0,26	0,29	0,32	0,38	0,45	0,51	0,58	0,64
H 420	0,13	0,17	0,21	0,25	0,29	0,34	0,38	0,42	0,50	0,59	0,67	0,76	0,84
H 520	0,16	0,21	0,26	0,31	0,36	0,42	0,47	0,52	0,62	0,73	0,83	0,94	1,04
H 620	0,19	0,25	0,31	0,37	0,43	0,50	0,56	0,62	0,74	0,87	0,99	1,12	1,24
H 720	0,22	0,29	0,36	0,43	0,50	0,58	0,65	0,72	0,86	1,01	1,15	1,30	1,44
H 820	0,25	0,33	0,41	0,49	0,57	0,66	0,74	0,82	0,98	1,15	1,31	1,48	1,64
H 920	0,28	0,37	0,46	0,55	0,64	0,74	0,83	0,92	1,10	1,29	1,47	1,66	1,84
H 1020	0,31	0,41	0,51	0,61	0,71	0,82	0,92	1,02	1,22	1,43	1,63	1,84	2,04
H 1120	0,34	0,45	0,56	0,67	0,78	0,90	1,01	1,12	1,34	1,57	1,79	2,02	2,24
H 1220	0,37	0,49	0,61	0,73	0,85	0,98	1,10	1,22	1,46	1,71	1,95	2,20	2,44
H 1320	0,40	0,53	0,66	0,79	0,92	1,06	1,19	1,32	1,58	1,85	2,11	2,38	2,64
H 1420	0,43	0,57	0,71	0,85	0,99	1,14	1,28	1,42	1,70	1,99	2,27	2,56	2,84
H 1520	0,46	0,61	0,76	0,91	1,06	1,22	1,37	1,52	1,82	2,13	2,43	2,74	3,04

TA SERIES
TA-65
EXTERNAL LOUVER

Model TA-65. External louver with fixed blades at 45º, with galvanized steel mesh on the inner side.
Standard natural aluminium finish.

Made of extruded aluminium.
Fixed blades at 45º.

TA-65



STANDARDIZED NOMINAL DIMENSIONS

L	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
H	220	285	350	415	480	545	610	675	740	805	870	935	1000	1130	1260	1390	1520

DESCRIPTION

External louver with fixed blades at 45º, with galvanized steel mesh on the inner side, type TA-65.

Order form:

TA-65	400X675

External louver series: TA-65

LxH: 400x675

TA SERIES
TA-65
SELECTION TABLE

Legend:
Q = Flow rate
Ak = Effective area in m²
Vk = Effective velocity in m/s
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

Q (m³/h) (l/s)	Ak	0,05	0,1	0,25	0,5	0,75	1	1,25	1,5	1,75	2	2,2
500 138,9	Vk Pt LwA	2,8 11 37	1,4 5 20									
1000 277,8	Vk Pt LwA	5,6 21 56	2,8 11 40	1,1 4 18								
2000 555,6	Vk Pt LwA		5,6 21 60	2,2 8 37	1,1 4 21							
3000 833,3	Vk Pt LwA		8,3 32 71	3,3 13 49	1,7 6 32	1,1 4 23						
4000 1111,1	Vk Pt LwA			4,4 17 57	2,2 8 41	1,5 6 31	1,1 4 24	0,9 3 18				
5000 1388,9	Vk Pt LwA			5,6 21 64	2,8 11 47	1,9 7 37	1,4 5 30	1,1 4 25	0,9 4 20			
6000 1666,7	Vk Pt LwA			6,7 25 69	3,3 13 52	2,2 8 42	1,7 6 35	1,3 5 30	1,1 4 26	1,0 4 22	0,8 3 19	
8000 2222,2	Vk Pt LwA				4,4 17 60	3,0 11 51	2,2 8 44	1,8 7 38	1,5 6 34	1,3 5 30	1,1 4 27	1,0 4 25
10000 2777,8	Vk Pt LwA				5,6 21 67	3,7 14 57	2,8 11 50	2,2 8 45	1,9 7 40	1,6 6 37	1,4 5 33	1,3 5 31
12500 3472,2	Vk Pt LwA				6,9 26 73	4,6 18 63	3,5 13 56	2,8 11 51	2,3 9 47	2,0 8 43	1,7 7 40	1,6 6 37
15000 4166,7	Vk Pt LwA					5,6 21 69	4,2 16 62	3,3 13 56	2,8 11 52	2,4 9 48	2,1 8 45	1,9 7 43
17500 4861,1	Vk Pt LwA					6,5 25 73	4,9 18 66	3,9 15 61	3,2 12 56	2,8 11 53	2,4 9 49	2,2 8 47
20000 5555,6	Vk Pt LwA						5,6 21 70	4,4 17 65	3,7 14 60	3,2 12 56	2,8 11 53	2,5 10 51
22500 6250,0	Vk Pt LwA						6,3 24 73	5,0 19 68	4,2 16 64	3,6 14 60	3,1 12 57	2,8 11 54
25000 6944,4	Vk Pt LwA							5,6 21 71	4,6 18 67	4,0 15 63	3,5 13 60	3,2 12 57
30000 8333,3	Vk Pt LwA								5,6 21 72	4,8 18 68	4,2 16 65	3,8 14 63
35000 9722,2	Vk Pt LwA									5,6 21 72	4,9 18 69	4,4 17 67
40000 11111,1	Vk Pt LwA										5,6 21 73	5,1 19 71

TA SERIES
TA-65
SELECTION TABLE

Effective area of external air intake TA-65

L	400	500	600	700	800	900	1.000	1.100	1.200	1300	1400	1500	1600	1700	1800	1900	2000
H 220	0,04	0,05	0,06	0,07	0,08	0,09	0,10	0,11	0,12	0,13	0,14	0,15	0,16	0,17	0,18	0,19	0,20
H 285	0,06	0,07	0,09	0,10	0,12	0,13	0,15	0,16	0,18	0,19	0,21	0,22	0,24	0,25	0,27	0,28	0,30
H 350	0,08	0,10	0,12	0,14	0,16	0,18	0,20	0,22	0,24	0,26	0,28	0,30	0,32	0,34	0,36	0,38	0,40
H 415	0,10	0,12	0,15	0,17	0,20	0,22	0,25	0,27	0,30	0,32	0,35	0,37	0,40	0,42	0,45	0,47	0,50
H 480	0,11	0,14	0,17	0,20	0,23	0,26	0,29	0,32	0,35	0,38	0,41	0,44	0,47	0,50	0,53	0,56	0,59
H 545	0,13	0,17	0,20	0,24	0,27	0,31	0,34	0,38	0,41	0,45	0,48	0,52	0,55	0,59	0,62	0,66	0,69
H 610	0,15	0,19	0,23	0,27	0,31	0,35	0,39	0,43	0,47	0,51	0,55	0,59	0,63	0,67	0,71	0,75	0,79
H 675	0,17	0,22	0,26	0,31	0,35	0,40	0,44	0,49	0,53	0,58	0,62	0,67	0,71	0,76	0,80	0,85	0,89
H 740	0,19	0,24	0,29	0,34	0,39	0,44	0,49	0,54	0,59	0,64	0,69	0,74	0,79	0,84	0,89	0,94	0,99
H 805	0,21	0,26	0,32	0,37	0,43	0,48	0,54	0,59	0,65	0,70	0,76	0,81	0,87	0,92	0,98	1,03	1,09
H 870	0,23	0,29	0,35	0,41	0,47	0,53	0,59	0,65	0,71	0,77	0,83	0,89	0,95	1,01	1,07	1,13	1,19
H 935	0,25	0,31	0,38	0,44	0,51	0,57	0,64	0,70	0,77	0,83	0,90	0,96	1,03	1,09	1,16	1,22	1,29
H 1000	0,27	0,34	0,41	0,48	0,55	0,62	0,69	0,76	0,83	0,90	0,97	1,04	1,11	1,18	1,25	1,32	1,39
H 1065	0,29	0,36	0,44	0,51	0,59	0,66	0,74	0,81	0,89	0,96	1,04	1,11	1,19	1,26	1,34	1,41	1,49
H 1130	0,30	0,38	0,46	0,54	0,62	0,70	0,78	0,86	0,94	1,02	1,10	1,18	1,26	1,34	1,42	1,50	1,58
H 1195	0,32	0,41	0,49	0,58	0,66	0,75	0,83	0,92	1,00	1,09	1,17	1,26	1,34	1,43	1,51	1,60	1,68
H 1260	0,34	0,43	0,52	0,61	0,70	0,79	0,88	0,97	1,06	1,15	1,24	1,33	1,42	1,51	1,60	1,69	1,78
H 1325	0,36	0,46	0,55	0,65	0,74	0,84	0,93	1,03	1,12	1,22	1,31	1,41	1,50	1,60	1,69	1,79	1,88
H 1390	0,38	0,48	0,58	0,68	0,78	0,88	0,98	1,08	1,18	1,28	1,38	1,48	1,58	1,68	1,78	1,88	1,98
H 1455	0,40	0,50	0,61	0,71	0,82	0,92	1,03	1,13	1,24	1,34	1,45	1,55	1,66	1,76	1,87	1,97	2,08
H 1520	0,42	0,53	0,64	0,75	0,86	0,97	1,08	1,19	1,30	1,41	1,52	1,63	1,74	1,85	1,96	2,07	2,18

Solutions

CATALOGUE

REGULATION
COSTANT FLOW

RPM-K - RPMC-K - RDR - ALIZE AUTO SERIES

RPM-K	Air flow regulator, with constant flow. Circular
RPC-K	Air flow regulator, with constant flow. Square
RDR	Air flow regulator
ALIZE AUTO	Air flow regulator

REGULATION
COSTANT FLOW

SAMOVENT®
TECHNIK

DIFUSIÓN Y VENTILACIÓN

SAMOVENT®
TECHNIK

RPM-K

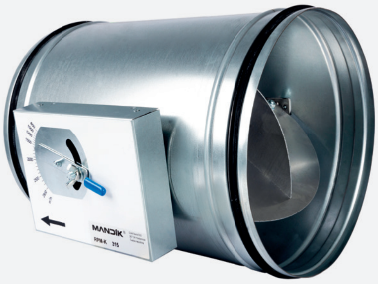
RPC-K

RDR

ALIZE AUTO

RPM-K SERIES

CONSTANTAIR VOLUME CONTROLLER



Model RPM-K. Air flow regulators with constant flow (CAV) are designed for regulating of air supply or air exhaust in ventilation systems. They can be installed in a horizontal, vertical or inclined positions. To ensure proper operation, the regulator (CAV) must be installed with horizontal position of its blade´s axis. The aerodynamic forces acting on the regulator blade due to the flow are balanced by the control device, which is set according to the required flow.

Adjustment of required flow is simply performed by lever with a pointer and scale. Mechanical controllers need not be connected to any external power source. The controller consists of the casing of the controller with a control blade and control device. Control device is placed inside of box with scale for adjustment of required flow. Accuracy of the scale is ± 5 %.

Characteristics:
- Nominal size DN 80 a DN 400
- Length L = 450
- Thickness acc. to EN 1751. External casing leakage class C
- Air flow volume 50 a 4 500 m /h
- Accuracy ±15-20% for air velocities less than 4m/s
- ±10% for air velocities more than 4m/s
- Pollution, deformation of the damper body or non-steady air circulation in the all cross section of the damper can bring bigger inaccuracy.

Working conditions:
- The faultless functioning of the controllers is ensured under the following conditions:
  a) maximum speed of air flow 10 m/s
  b) maximum pressure in the duct 1000 Pa
  c) the air circulation in the whole controller section must be secured as steady on whole surface
- Controllers are designed for macroclimatic areas with mild climate according to EN 60 721-3-3.
- Controllers are suitable for systems without abrasive, chemical and adhesive particles.
- Temperature in the place of installation is permitted to range from 0°C to + 50°C.

Dimensions:
ø80 to ø400

Models:
RPM-K.01
RPM-K.45
RPM-K.46
RPM-K.55
RPM-K.56
RPM-K.57

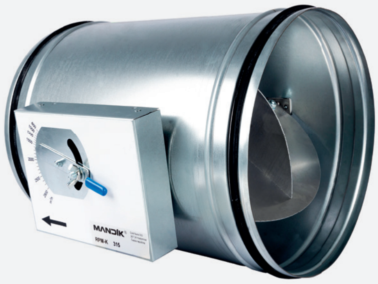
* see model descriptions in table.

* **Models:**

RPM-K.01	Manually controlled
RPM-K.45	Actuating mechanism 230V, open-close control
RPM-K.46	Actuating mechanism 230V, open-close control, with limit switch
RPM-K.55	Actuating mechanism 24V, open-close control
RPM-K.56	Actuating mechanism 24V, open-close control, with limit switch
RPM-K.57	Actuating mechanism 24V SR modulating control

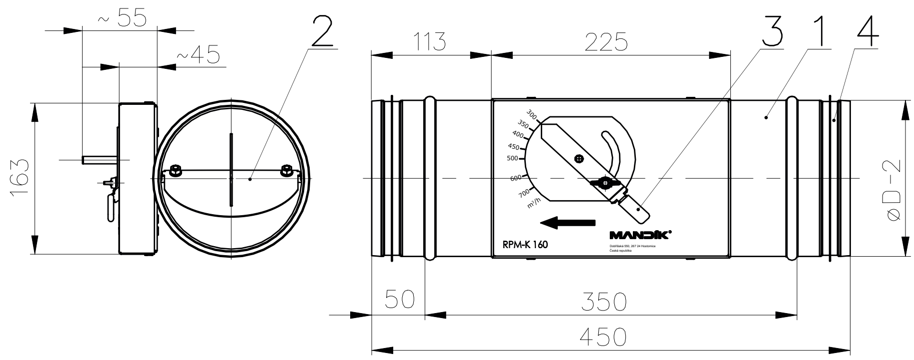
RPM-K SERIES

CONSTANTAIR VOLUME CONTROLLER



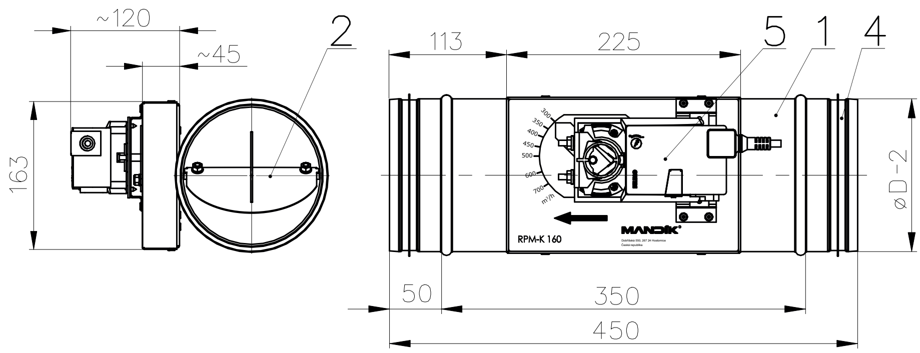
RPM-K.01

1 Controller casing
2 Controller blade
3 Lever
4 Rubber sealing
5 Flange

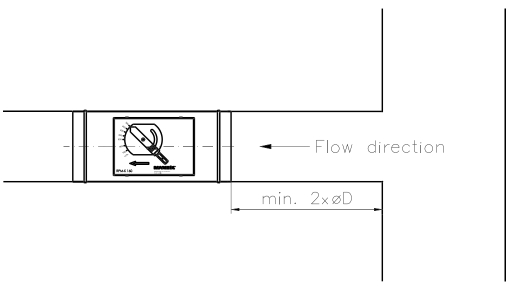


RPM-K.45 / .55

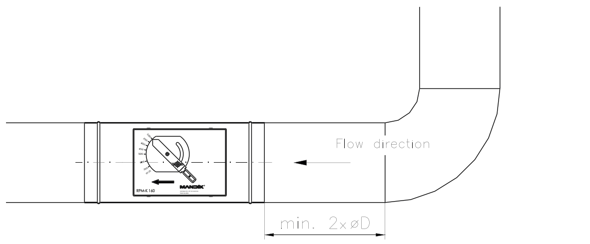
1 Controller casing
2 Controller blade
3 Lever
4 Rubber sealing
5 Flange

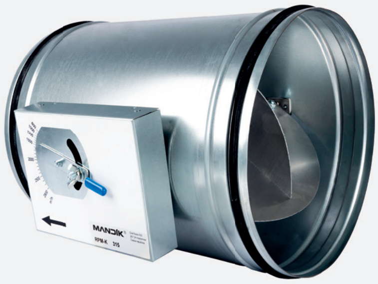


RPM-K
Recomended distance from double branch joint



RPM-K
Recommended distance from bend

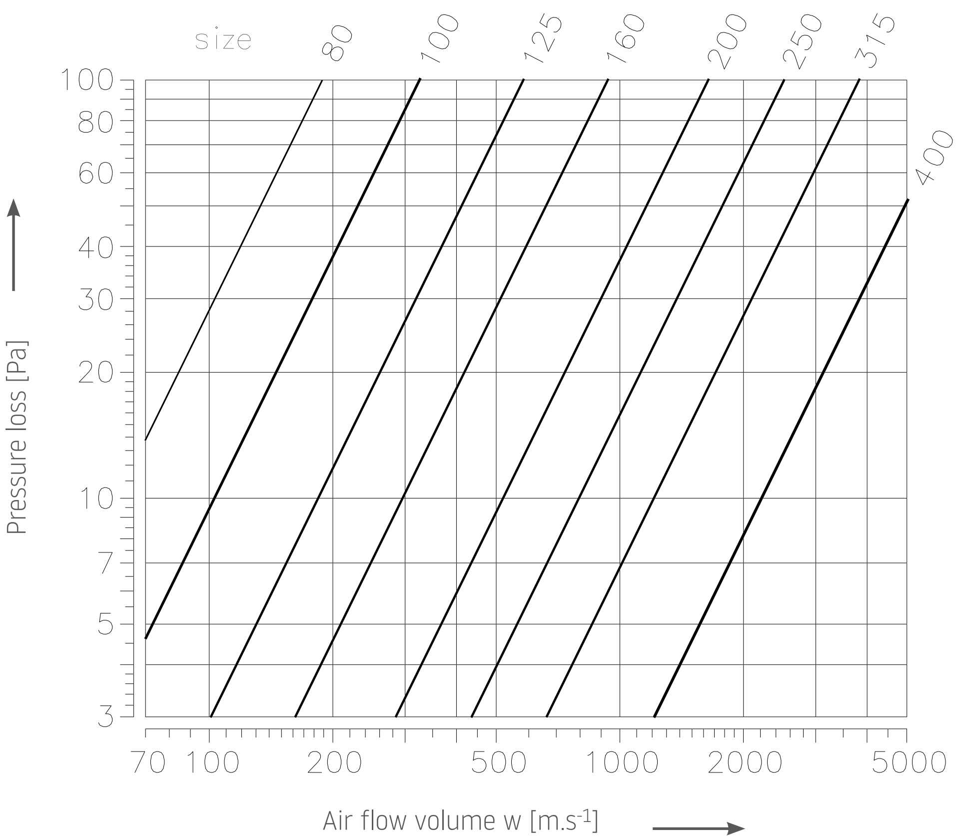




RPM-K SERIES
TECHNICAL DATA

Pressure losses

Pressure losses (the values are valid when the damper of the controlles is completely open)



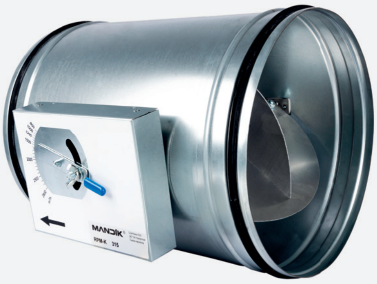
Noise data

The noise arising due to the flow of air volume controller is listed in the following tables

V [m³h⁻¹] - air flow volume
Δst [Pa] - pressure differential
L_W [dB/Okt.] - level of acoustic power in the octave band
L_{WA} [dB(A)] - total level of acoustic power corrected by filter A
fm [Hz] - mean frequencies in the octave bands

RPM-K SERIES

TECHNICAL DATA

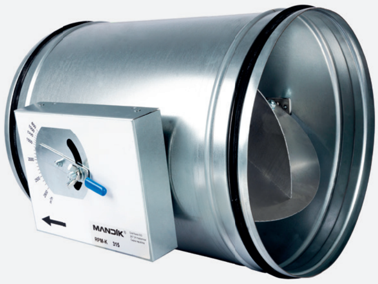


Sound power level inside the pipeline at pressure difference 50 Pa

$\Delta P_{st} = 50$ Pa

Size [mm]	V [m^3/h]	L_w [dB/Okt] f_m [Hz] 63	125	250	500	1000	2000	4000	8000	L_{WA} [dB(A)]
80	50	48	38	32	32	35	31	23	<15	38
	100	54	45	41	38	39	34	28	18	43
	150	60	52	48	44	43	39	35	23	48
	200	66	58	54	49	46	42	39	28	52
100	80	49	39	33	33	36	32	24	<15	39
	155	56	47	43	40	41	37	30	20	45
	225	62	54	50	46	45	41	37	26	50
	300	67	59	56	51	48	44	41	30	54
125	125	50	40	34	34	37	33	26	<15	40
	250	58	49	46	43	44	40	33	22	47
	380	64	56	52	48	47	44	40	28	52
	500	70	62	58	53	50	46	43	32	56
160	200	54	44	38	38	41	37	29	18	44
	430	59	50	46	45	44	40	34	23	48
	650	65	57	53	49	48	44	40	28	53
	900	68	61	57	52	49	45	42	31	55
200	300	53	43	37	37	40	36	29	17	43
	630	60	51	47	44	45	41	35	24	49
	960	66	58	54	50	49	45	41	29	54
	1300	72	64	60	55	52	48	45	34	58
250	500	54	44	38	38	41	37	29	18	44
	1000	60	51	47	44	45	41	34	24	49
	1500	66	58	54	50	49	46	42	30	54
	2000	72	64	60	55	52	48	45	34	58
315	800	55	45	39	39	42	38	30	19	45
	1500	62	53	49	46	47	43	36	25	51
	2150	66	58	54	50	49	45	41	30	54
	2800	74	66	62	57	54	50	47	36	60
400	1200	38	28	22	22	25	21	<15	<15	28
	2300	41	32	28	25	26	22	15	<15	30
	3400	44	36	32	28	27	23	19	<15	32
	4500	47	39	35	30	27	23	20	<15	33

RPM-K SERIES
TECHNICAL DATA

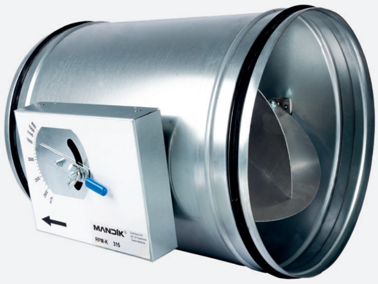


Sound power level inside the pipeline at pressure difference 100 Pa

ΔP_{st}= 100 Pa

Size [mm]	V [m³/h]	L_w [dB/Okt] f_m [Hz] 63	125	250	500	1000	2000	4000	8000	L_{wA} [dB(A)]
80	50	52	42	36	36	39	35	27	15	42
	100	58	49	45	42	43	39	32	21	47
	150	64	56	52	48	47	43	39	27	52
	200	70	62	58	53	50	46	43	32	56
100	80	53	43	37	37	40	36	28	16	43
	155	60	51	47	44	45	41	34	23	49
	225	66	58	54	50	49	45	41	29	54
	300	72	64	60	55	52	48	45	34	58
125	125	55	45	39	39	42	38	30	18	45
	250	63	54	50	47	48	44	37	26	52
	380	69	61	57	53	52	48	44	32	57
	500	74	66	62	57	55	50	47	36	61
160	200	58	48	42	42	45	41	33	21	48
	430	64	55	51	48	49	45	38	27	53
	650	69	61	57	53	52	48	44	32	57
	900	74	66	62	57	54	50	47	36	60
200	300	58	48	42	42	45	41	33	21	48
	630	65	56	52	49	50	46	39	28	54
	960	70	62	58	54	53	49	45	33	58
	1300	76	68	64	59	56	52	49	38	62
250	500	59	49	43	43	46	42	34	22	49
	1000	65	56	52	49	50	46	39	28	54
	1500	71	63	59	55	54	50	46	34	59
	2000	76	68	64	59	56	52	49	38	62
315	800	60	50	44	44	47	43	35	23	50
	1500	66	57	53	50	51	47	40	29	55
	2150	71	63	59	55	54	50	46	34	59
	2800	78	70	65	59	57	53	51	40	63
400	1200	67	58	54	51	52	48	41	30	56
	2300	70	62	58	54	55	51	45	33	59
	3400	73	65	60	57	58	53	49	36	62
	4500	76	68	64	60	59	55	51	39	64

RPM-K SERIES
TECHNICAL DATA

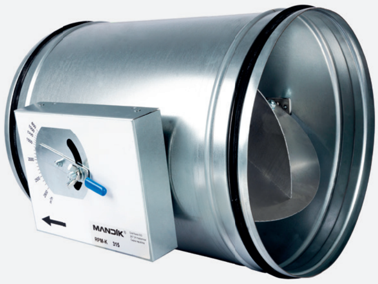


Sound power level inside the pipeline at pressure difference 250 Pa

$\Delta P_{st} = 250$ Pa

Size [mm]	V [m³/h]	L_w [dB/Okt] f_m [Hz] 63	125	250	500	1000	2000	4000	8000	L_{wA} [dB(A)]
80	50	58	48	42	42	45	41	33	21	48
	100	64	55	51	48	49	45	38	27	53
	150	70	62	58	54	53	49	45	33	58
	200	76	68	64	59	56	52	49	38	62
100	80	59	49	43	43	46	42	34	22	49
	155	65	56	52	49	50	46	39	28	54
	225	73	65	61	56	55	52	48	36	60
	300	77	69	65	60	57	53	50	39	63
125	125	64	54	48	47	50	47	39	27	53
	250	69	60	56	53	54	50	43	32	58
	380	75	67	63	59	58	54	50	38	63
	500	81	73	69	64	61	58	55	44	67
160	200	66	56	50	50	53	49	41	29	56
	430	72	63	59	56	57	53	46	35	61
	650	77	69	65	61	60	56	52	40	65
	900	79	73	69	64	63	55	53	42	68
200	300	67	57	51	51	54	50	42	30	57
	630	72	63	59	56	57	53	46	35	61
	960	77	69	65	61	60	56	52	40	65
	1300	81	73	69	64	61	57	54	43	67
250	500	68	58	52	52	55	51	43	31	58
	1000	72	63	59	58	58	53	46	35	62
	1500	77	69	65	62	61	57	52	40	66
	2000	82	74	70	65	63	58	55	44	69
315	800	68	58	52	52	55	51	43	31	58
	1500	74	65	61	58	59	55	48	37	63
	2150	78	70	66	62	61	57	53	41	66
	2800	82	74	70	65	63	58	55	44	69
400	1200	73	64	58	58	60	57	50	37	64
	2300	75	67	63	61	62	58	50	38	66
	3400	77	69	66	63	65	59	51	41	68
	4500	81	74	70	66	65	61	56	44	70

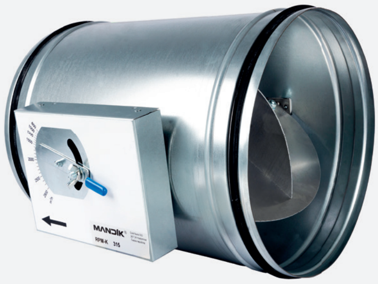
RPM-K SERIES
TECHNICAL DATA



Sound power level inside the pipeline at pressure difference 500 Pa

ΔP_{st}= 500 Pa

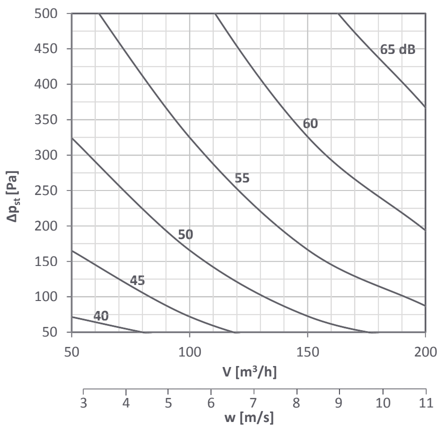
Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{wA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
80	50	64	54	48	48	51	47	39	27	54
	100	70	61	57	54	55	51	44	33	59
	150	76	68	64	60	59	55	51	39	64
	200	82	74	70	65	62	58	55	44	68
100	80	65	55	49	49	52	48	40	28	55
	155	71	62	58	55	56	52	45	34	60
	225	78	70	66	62	61	57	53	41	66
	300	83	75	71	66	63	60	57	46	69
125	125	71	61	55	54	57	54	46	34	60
	250	76	67	63	60	61	57	50	39	65
	380	82	74	70	66	65	61	57	45	70
	500	87	79	75	70	67	63	60	49	73
160	200	72	62	56	56	59	55	47	35	62
	430	79	70	66	63	63	60	53	42	67
	650	83	75	71	67	66	62	58	46	71
	900	88	80	76	71	68	64	61	50	74
200	300	74	64	58	58	61	57	49	37	64
	630	79	70	66	63	64	60	53	42	68
	960	83	75	71	67	66	62	58	46	71
	1300	87	79	75	70	67	63	60	49	73
250	500	76	66	60	60	63	59	51	39	66
	1000	80	71	67	64	65	61	54	43	69
	1500	84	76	72	68	67	63	59	47	72
	2000	88	80	76	71	68	64	61	50	74
315	800	76	66	60	60	63	59	51	39	66
	1500	80	71	67	66	66	61	54	43	70
	2150	85	77	73	68	67	64	60	48	72
	2800	88	80	76	71	68	64	61	50	74
400	1200	79	70	65	66	68	62	53	42	71
	2300	83	74	70	68	69	65	58	47	73
	3400	86	76	73	70	71	66	59	48	75
	4500	88	81	77	73	72	68	64	51	77



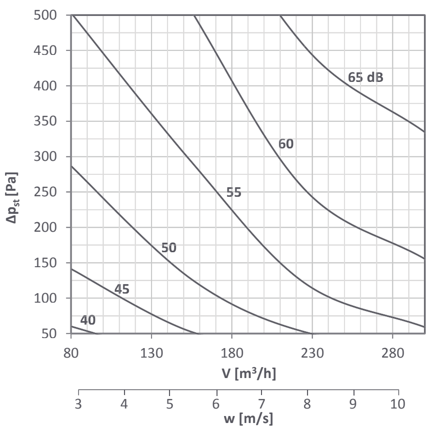
RPM-K SERIES
TECHNICAL DATA

Sound power level Lwa (dB A)) inside the pipeline

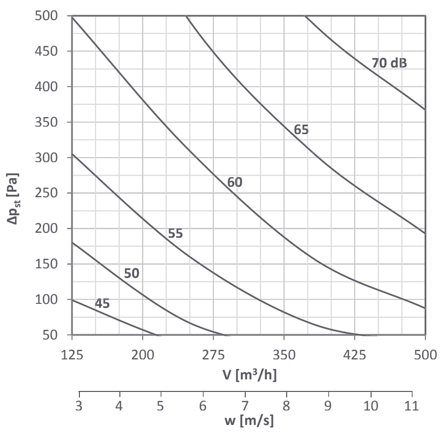
ø 80



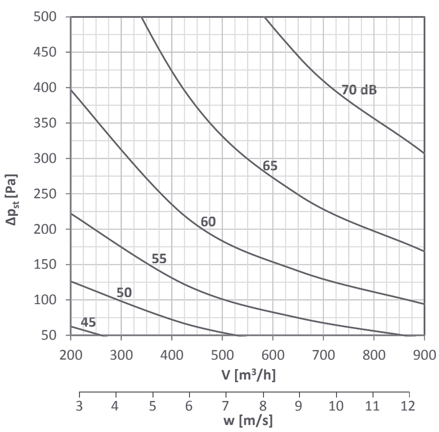
ø 100



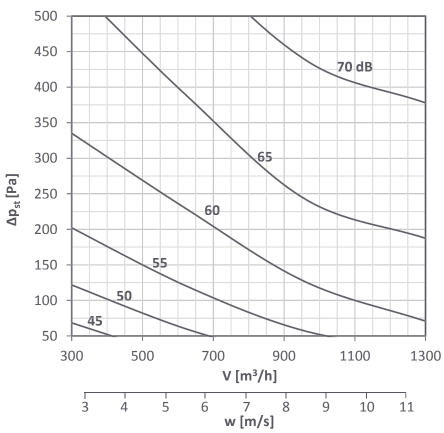
ø 125



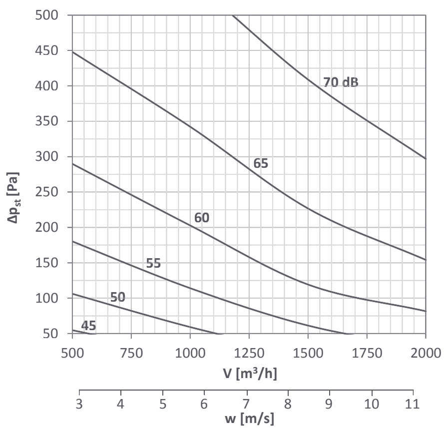
ø 160



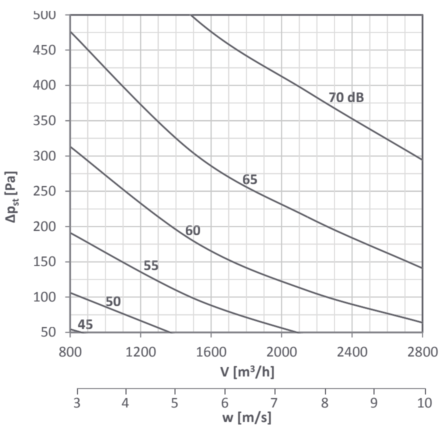
ø 200



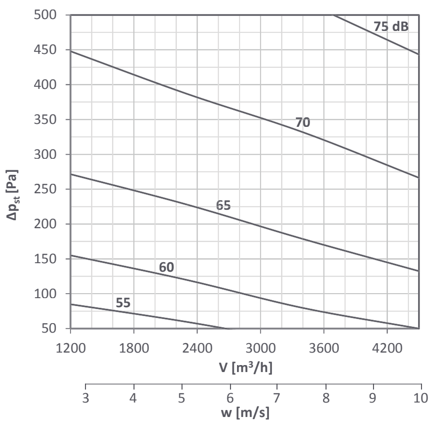
ø 250



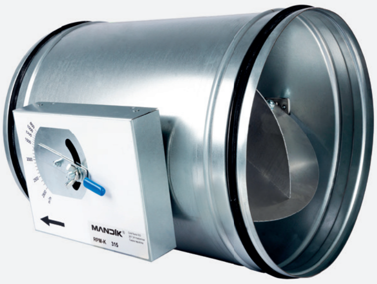
ø 315



ø 400



RPM-K SERIES
TECHNICAL DATA



Sound power level radiated outside the pipeline - without insulation

The radiated noise of the air volume controller is listed below.

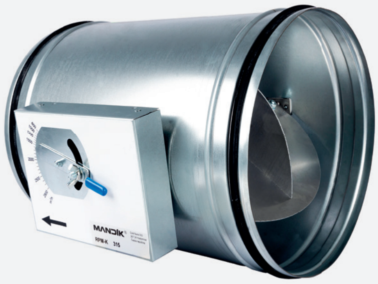
Radiated noise

V [m³h⁻¹] - air flow volume
Δ_{st} [Pa] - pressure differential

L_{WA} [dB(A)] - total level of acoustic power corrected by filter A

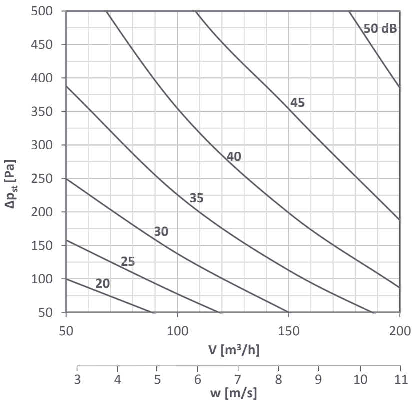
Dimension [mm]	V [m³/h]	L_{WA} [dB(A)] ΔP_{st}= 50 Pa	L_{WA} [dB(A)] ΔP_{st}= 100 Pa	L_{WA} [dB(A)] ΔP_{st}= 250 Pa	L_{WA} [dB(A)] ΔP_{st}= 500 Pa
80	100	<15	<15	<15	<15
	150	<15	<15	15	20
	200	<15	<15	17	22
100	80	<15	<15	<15	<15
	155	<15	<15	<15	15
	225	<15	<15	19	22
	300	<15	<15	20	25
125	125	<15	<15	<15	15
	250	<15	<15	15	20
	380	<15	17	24	28
	500	18	21	28	30
160	200	<15	<15	19	22
	430	<15	18	26	30
	650	20	23	32	35
	900	21	25	31	37
200	300	<15	15	20	22
	630	16	19	25	30
	960	22	26	34	38
	1300	25	29	36	40
250	500	<15	15	23	27
	1000	16	20	28	33
	1500	24	28	36	42
	2000	27	31	39	44
315	800	<15	16	22	27
	1500	18	22	28	34
	2150	25	29	35	41
	2800	29	33	38	45
400	1200	19	22	28	32
	2300	24	27	33	37
	3400	30	33	39	43
	4500	33	36	42	46

RPM-K SERIES
TECHNICAL DATA

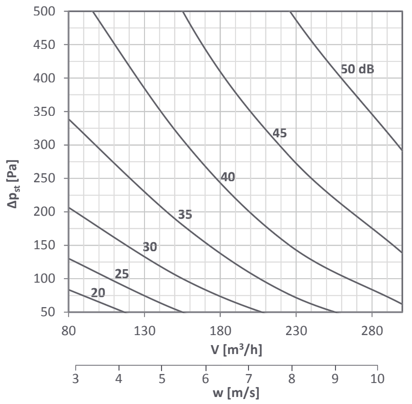


Sound power level L_{WA} (dB (A)) in the interior of the car - without insulation

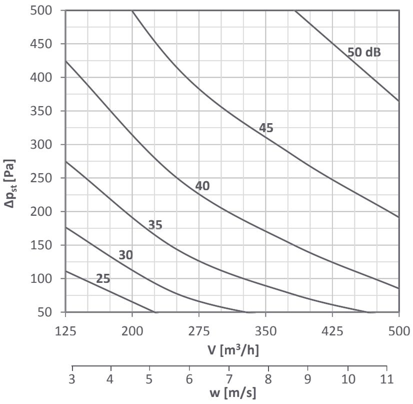
ø 80



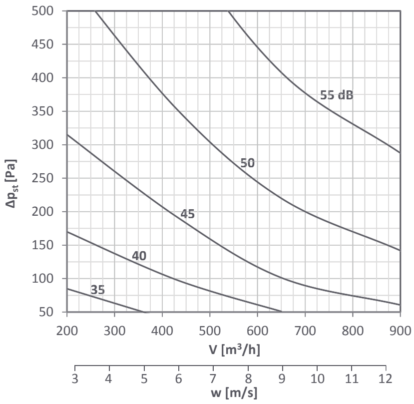
ø 100



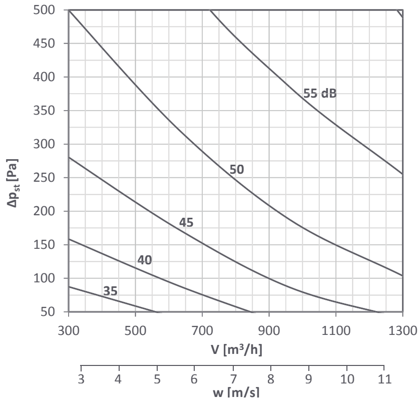
ø 125



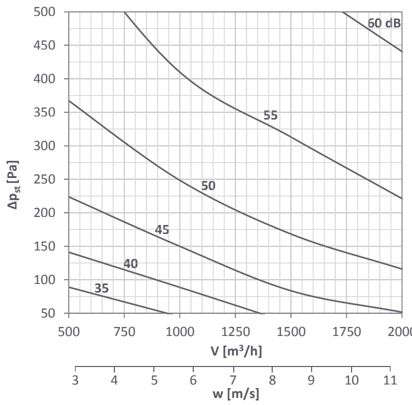
ø 160



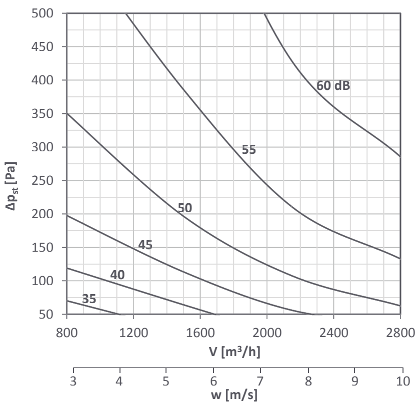
ø 200



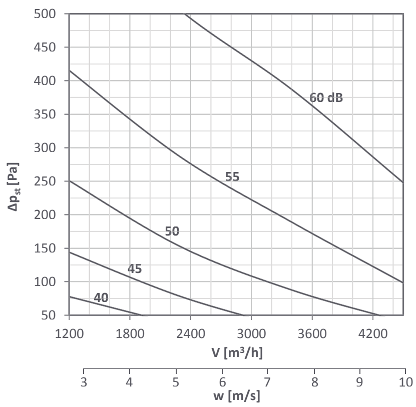
ø 250



ø 315



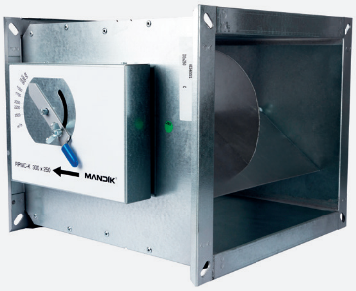
ø 400



REGULATION
COSTANT FLOW

RPMC-K SERIES

CONSTANT AIR VOLUMEN CONTROLLER



Model RPMC-K. Constant mechanical air volume controllers are meant for input or output air systems. Controllers can be installed in horizontal or vertical position with horizontal blade axis. The aerodynamic forces acting the list due to the flow are compensated by the control device adjusted according required flow. Mechanical controllers need not be connected to any external power source. Adjustment of required flow is simply performed by lever with a pointer and scale.The controller consists of the casing of the controller with a control blade and control device. Control device is placed inside of box with scale for adjustment of required flow. Accuracy of the scale is ± 5 %.

Characteristics:

- Nominal size 200x100 a 600x600
- Length L = 350
- Thickness acc. to EN 1751.External casing leakage class C
- Air flow volume 250 a 12 000 m /h
- Accuracy 10% -15% (on the min./max. positions 20%)

Working conditions:

- The faultless functioning of the controllers is ensured under the following conditions::
  a) maximum speed of air flow 10 m/s
  b) maximum pressure in the duct 1000 Pa
  c) the air circulation in the whole controller section must be secured as steady on whole surface
- Controllers are designed for macroclimatic areas with mild climate according to EN 60 721-3-3.
- Controllers are suitable for systems without abrasive, chemical and adhesive particles.
- Temperature in the place of installation is permitted to range from 0°C to + 50°C.

Dimensions:
200X100 to 600x600

Models:
RPMC-K.01
RPMC-K.45
RPMC-K.46
RPMC-K.55
RPMC-K.56
RPMC-K.57

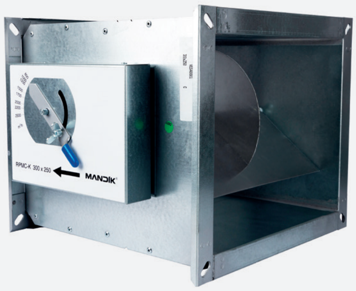
* see model descriptions in table

* **Models:**

RPMC-K.01	Manually controlled
RPMC-K.45	Actuating mechanism 230V, open-close control
RPMC-K.46	Actuating mechanism 230V, open-close control, with limit switch
RPMC-K.55	Actuating mechanism 24V, open-close control
RPMC-K.56	Actuating mechanism 24V, open-close control, with limit switch
RPMC-K.57	Actuating mechanism 24V SR modulating control

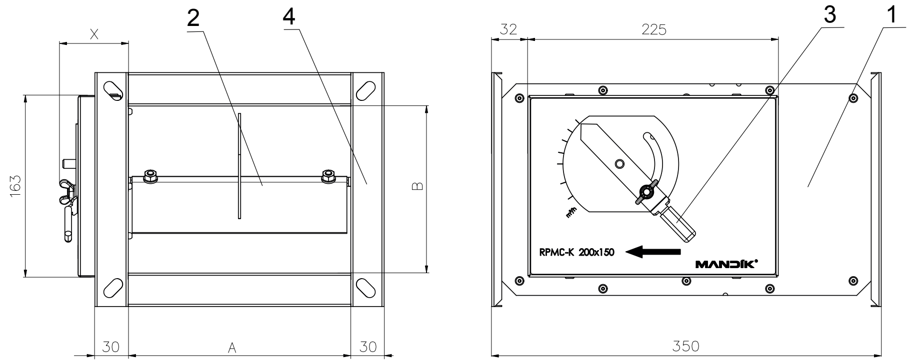
RPMC-K SERIES

CONSTANT AIR VOLUMEN CONTROLLER



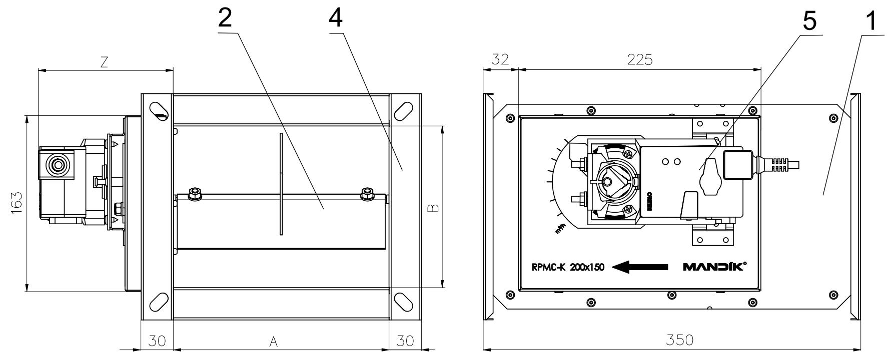
RPMC-K.01

1. Controller cap
2. Controlle blade
3. Lever
4. Tab
5. Actuating mechanism

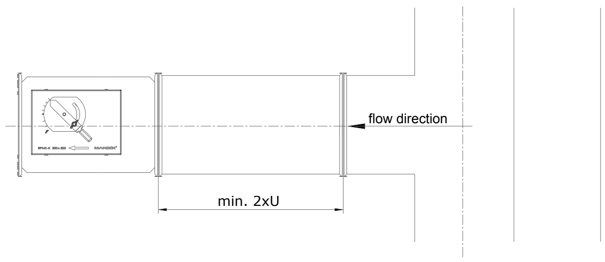


RPMC-K.45 / .55

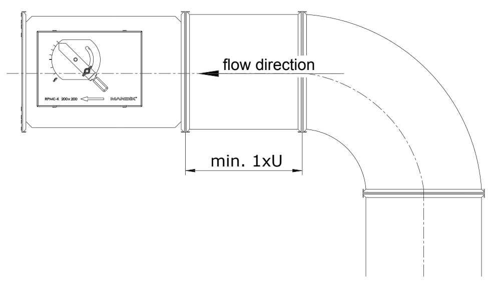
1. Controller cap
2. Controlle blade
3. Lever
4. Tab
5. Actuating mechanism



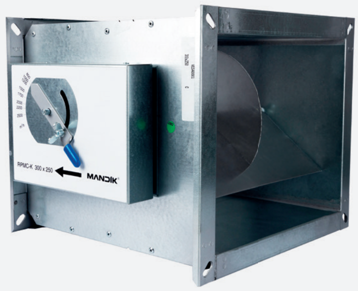
RPMC-K
Recommended distance from double branch joint



RPMC-K
Recommended distance from bend



*U = diagonal



RPMC-K SERIES
TECHNICAL DATA

Presure losses

$$\Delta p = \xi \cdot \rho \cdot \frac{w^2}{2}$$

Δp	[Pa]	pressure drop
w	$[m.s^{-1}]$	air flow velocity at the nominal section of the controller
ρ	$[kg.m^{-3}]$	air density
ξ	[-]	Local pressure loss coefficient for the nominal controller cross section nominal section of the controller

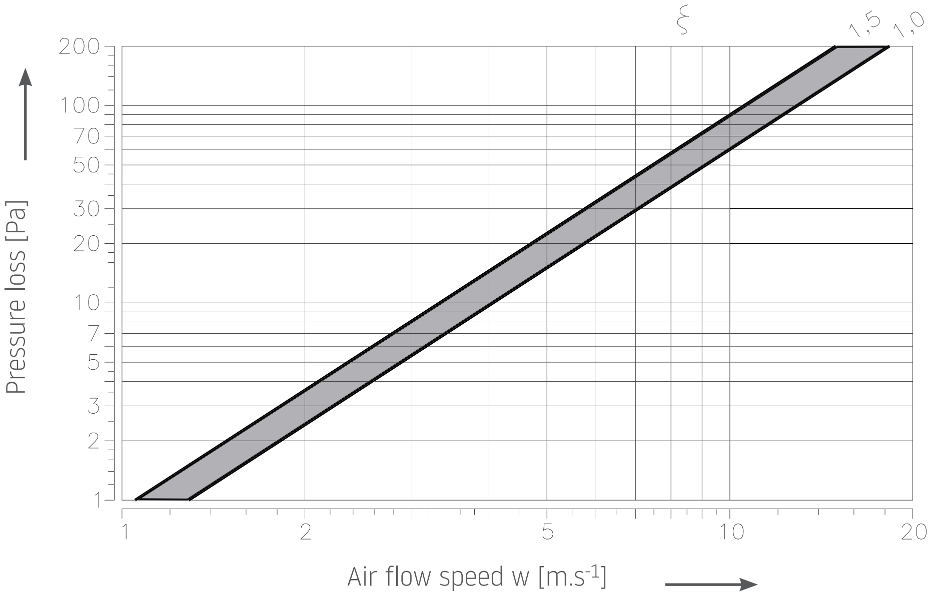
Coefficient of local pressure loss (the values are valid when the damper of the controller is completely open)

Dimensions AxB [mm]	Volume Air $[m^3.h^{-1}]$		ξ
	min.	máx.	
200x100	250	700	1.386
200x150	400	1000	1.379
200x200	500	1300	1.372
300x100	400	1000	1.379
300x150	500	1500	1.368
300x200	600	2000	1.358
300x250	800	2500	1.347
300x300	1000	3000	1.337

Dimensions AxB [mm]	Volume Air $[m^3.h^{-1}]$		ξ
	min.	máx.	
400x200	900	2700	1.344
400x250	1200	3400	1.330
400x300	1500	4200	1.316
400x400	1800	5400	1.288
500x200	1100	3400	1.330
500x250	1500	4200	1.312
500x300	1800	4800	1.295
500x400	2200	6800	1.260

Dimensions AxB [mm]	Volume Air $[m^3.h^{-1}]$		ξ
	min.	máx.	
500x500	3000	8400	1.224
600x200	1500	4000	1.316
600x250	1800	5000	1.295
600x300	2100	6000	1.274
600x400	3000	8000	1.231
600x500	3600	10000	1.189
600x600	4200	12000	1.147

Pressure losses (the values are valid when the damper of the controller y completely open)

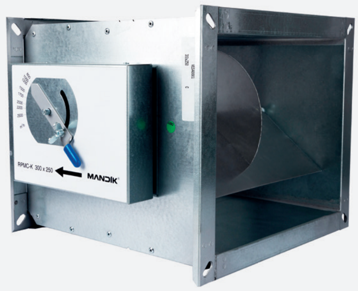


Noise data

The noise arising due to the flow of air volume controller is listed in the following tables

V $[m^3h^{-1}]$ -	air flow volume
Δst [Pa] -	pressure differential
L_W [dB/Okt.] -	level of acoustic power in the octave band
L_{WA} [dB(A)] -	total level of acoustic power corrected by filter A
fm [Hz] -	mean frequencies in the octave bands

RPMC-K SERIES
TECHNICAL DATA

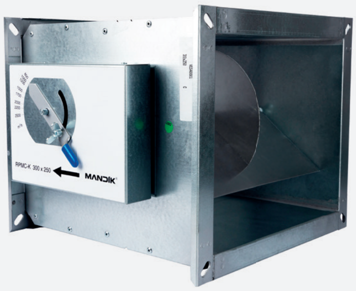


Sound power level inside the pipeline at a pressure difference of 50 Pa

$\Delta P_{st} = 50$ Pa

Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{WA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
200x100	250	39	38	34	34	35	36	35	33	42
	400	44	43	41	40	39	41	41	38	47
	550	43	45	44	43	45	43	44	40	50
	700	47	46	47	47	48	46	47	41	53
200x150	400	42	41	37	37	37	38	38	35	44
	600	44	43	42	43	42	42	42	39	49
	800	45	46	45	45	46	45	46	43	52
	1000	49	49	48	48	49	48	48	44	55
200x200	500	42	41	37	37	37	38	38	35	44
	765	45	44	42	41	40	42	42	39	48
	1035	44	46	47	46	46	44	44	38	51
	1300	47	46	47	48	48	47	47	39	54
300x100	400	45	44	40	40	40	41	41	38	47
	600	48	47	45	44	43	45	45	42	51
	800	48	50	51	50	50	48	48	42	55
	1000	51	50	51	52	52	51	51	43	58
300x150	500	42	41	37	37	37	38	38	35	44
	835	46	45	43	42	41	43	43	40	49
	1165	47	49	50	49	49	47	47	41	54
	1500	51	50	51	52	52	51	51	43	58
300x200	600	44	43	39	39	39	40	40	37	46
	1065	47	46	44	43	42	44	44	41	50
	1535	47	49	50	49	49	47	47	41	54
	2000	52	51	52	53	53	52	52	44	59
300x250	800	45	44	40	40	40	41	41	38	47
	1365	49	47	45	44	43	45	45	42	51
	1935	48	50	51	50	50	48	48	42	55
	2500	51	50	51	52	52	51	51	43	58
300x300	1000	45	44	40	40	40	41	41	38	47
	4665	48	47	45	44	43	45	45	42	51
	2335	48	50	51	50	50	48	48	42	55
	3000	51	50	51	52	52	51	51	43	58
400x200	900	45	44	40	40	40	41	41	38	47
	1500	47	46	44	44	42	44	44	41	50
	2100	47	49	50	49	49	47	47	41	54
	2700	50	49	50	51	51	50	50	42	57
400x250	1200	46	45	41	41	40	42	42	39	48
	1935	48	47	45	44	43	45	45	42	51
	2665	47	49	50	49	49	47	47	41	54
	3400	50	49	50	51	51	50	50	42	57
400x300	1500	47	46	42	42	41	43	43	40	49
	2400	49	48	46	45	44	46	46	43	52
	3300	49	51	52	51	51	49	49	43	56
	4200	53	52	53	54	54	53	53	45	60
400x400	1800	48	48	44	44	43	45	45	42	51
	3000	51	50	48	47	46	48	48	45	54
	4200	50	52	53	52	52	50	50	44	57
	4500	82	74	70	65	62	58	55	44	68

RPMC-K SERIES
TECHNICAL DATA

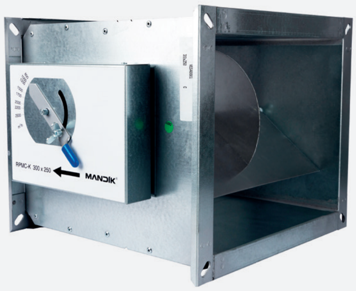


Sound power level inside the pipeline at a pressure difference of 50 Pa

$\Delta P_{st} = 50$ Pa

Size [mm]	V [m³/h]	L_W [dB/Okt]								L_{WA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
500x200	1100	43	42	38	38	37	39	39	36	45
	1865	45	43	42	41	39	42	42	39	48
	2635	44	46	47	46	46	44	44	38	51
	3400	48	47	48	49	49	48	48	40	55
500x250	1500	45	44	40	40	39	41	41	38	47
	2400	48	47	45	44	42	45	45	42	51
	3300	47	49	50	49	49	47	47	41	54
	4200	49	48	49	50	50	49	49	41	56
500x300	1800	46	45	41	41	40	42	42	39	48
	2800	48	47	45	44	42	45	45	42	51
	3800	48	50	51	50	50	48	48	42	55
	4800	51	50	51	52	52	51	51	43	58
500x400	2200	51	50	46	46	45	47	47	44	53
	3735	54	53	51	50	47	51	51	48	57
	5265	53	55	56	55	55	53	53	47	60
	6800	56	55	56	57	57	56	56	48	63
500x500	3000	53	52	48	48	48	49	49	46	55
	4800	56	55	53	52	49	53	53	50	59
	6600	55	57	58	57	57	55	55	49	62
	8400	58	57	58	59	59	58	58	50	65
600x200	1500	43	42	39	39	39	40	40	37	46
	2335	47	45	43	42	40	43	43	40	49
	3165	46	48	49	48	48	46	46	40	53
	4000	49	48	49	50	50	49	49	41	56
600x250	1800	45	45	41	41	41	42	42	39	48
	2865	48	47	45	44	42	45	45	42	51
	3935	47	49	50	49	49	47	47	41	54
	5000	50	49	50	51	51	50	50	42	57
600x300	2100	48	47	43	43	43	44	44	41	50
	3400	49	48	46	45	44	46	46	43	52
	4700	48	50	51	50	50	48	48	42	55
	6000	51	50	51	52	52	51	51	43	58
600x400	3000	51	50	46	46	46	47	47	44	53
	4665	53	52	50	49	48	50	50	47	56
	6335	53	55	56	55	55	53	53	47	60
	8000	55	54	55	56	56	55	55	47	62
600x500	3600	53	52	48	48	48	49	49	46	55
	5735	56	55	53	52	51	53	53	50	59
	7865	55	57	58	57	57	55	55	49	62
	10000	58	57	58	59	59	58	58	50	65
600x600	4200	56	55	51	51	51	52	52	49	58
	6800	58	57	55	54	53	55	55	52	61
	9400	57	59	60	59	59	57	57	51	64
	12000	59	58	59	60	60	59	59	51	66

RPMC-K SERIES
TECHNICAL DATA

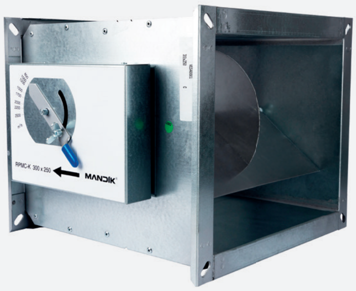


Sound power level inside the pipeline at a pressure difference of 100 Pa

ΔP_{st}= 100 Pa

Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{WA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
200x100	250	46	45	41	41	41	42	42	39	48
	400	49	48	46	45	44	46	46	43	52
	550	50	50	51	50	50	48	48	43	55
	700	52	51	53	52	52	51	51	45	58
200x150	400	46	45	42	42	42	43	43	39	49
	600	50	49	47	46	45	47	46	43	53
	800	51	51	52	51	51	49	49	43	56
	1000	52	51	52	53	53	52	52	44	59
200x200	500	48	47	43	43	43	44	44	41	50
	765	50	49	47	46	45	47	47	44	53
	1035	49	51	52	51	51	49	49	43	56
	1300	52	51	52	53	53	52	52	44	59
300x100	400	49	48	44	44	44	45	45	42	51
	600	51	50	48	47	46	48	48	45	54
	800	51	53	54	53	53	51	51	45	58
	1000	54	53	54	55	55	54	54	46	61
300x150	500	47	46	42	42	42	43	43	40	49
	835	51	50	48	47	46	48	48	45	54
	1165	52	54	55	54	54	52	52	46	59
	1500	57	55	56	57	57	56	56	48	63
300x200	600	50	49	45	45	45	46	46	43	52
	1065	53	52	50	49	48	50	50	47	56
	1535	53	55	56	55	55	53	53	47	60
	2000	57	56	57	58	58	57	57	49	64
300x250	800	51	50	46	46	46	47	47	44	53
	1365	55	53	51	50	49	51	51	48	57
	1935	53	55	56	55	55	53	53	47	60
	2500	56	55	56	57	57	56	56	48	63
300x300	1000	51	50	46	46	46	47	47	44	53
	4665	54	53	51	50	49	51	51	48	57
	2335	54	55	56	55	55	53	53	47	60
	3000	56	55	56	57	57	56	56	48	63
400x200	900	51	50	46	46	46	47	47	44	53
	1500	53	52	50	49	48	50	50	47	56
	2100	52	54	55	54	54	52	52	46	59
	2700	55	54	55	56	56	55	55	47	62
400x250	1200	52	51	47	47	47	48	48	45	54
	1935	54	53	51	50	49	51	51	48	57
	2665	53	55	56	55	55	53	53	47	60
	3400	55	54	55	56	56	55	55	47	62
400x300	1500	53	52	48	48	48	49	49	46	55
	2400	55	54	52	51	50	52	52	49	58
	3300	55	57	58	57	57	55	55	49	62
	4200	59	58	59	60	60	59	59	51	66
400x400	1800	55	54	50	50	50	51	51	48	57
	3000	57	56	54	53	52	54	54	51	60
	4200	56	58	59	58	58	56	56	50	63
	5400	60	59	60	61	61	60	60	52	67

RPMC-K SERIES
TECHNICAL DATA

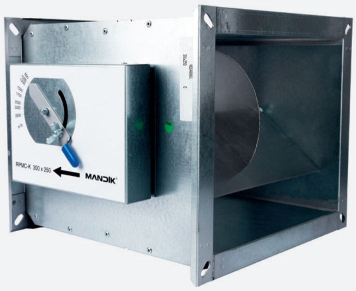


Sound power level inside the pipeline at a pressure difference of 100 Pa

$\Delta P_{st} = 100$ Pa

Size [mm]	V [m³/h]	L_w [dB/Okt] f_m [Hz] 63	125	250	500	1000	2000	4000	8000	L_{WA} [dB(A)]
500x200	1100	49	48	44	44	44	45	45	42	51
	1865	51	50	48	47	46	48	48	45	54
	2635	50	52	53	52	52	50	50	44	57
	3400	53	52	53	54	54	53	53	45	60
500x250	1500	51	50	46	46	46	47	47	44	53
	2400	53	52	50	49	48	50	50	47	56
	3300	52	54	55	54	54	52	52	46	59
	4200	54	53	54	55	55	54	54	46	61
500x300	1800	52	51	47	47	47	48	48	45	54
	2800	54	53	51	50	49	51	51	48	57
	3800	53	55	56	55	55	53	53	47	60
	4800	56	55	56	57	57	56	56	48	63
500x400	2200	56	55	51	51	51	52	52	49	58
	3735	59	58	56	55	54	56	56	53	62
	5265	58	60	61	60	60	58	58	52	65
	6800	61	60	61	62	62	61	61	53	68
500x500	3000	58	57	53	53	53	54	54	51	60
	4800	61	60	58	57	56	58	58	55	64
	6600	60	62	63	62	62	60	60	54	67
	8400	62	61	62	63	63	62	62	54	69
600x200	1500	50	49	45	45	45	46	46	43	52
	2335	53	51	49	48	47	49	49	46	55
	3165	51	53	54	53	53	51	51	45	58
	4000	54	53	54	55	55	54	54	46	61
600x250	1800	52	51	47	47	47	48	48	45	54
	2865	54	53	51	50	49	51	51	48	57
	3935	54	55	56	55	55	53	53	47	60
	5000	57	55	56	57	57	56	56	48	63
600x300	2100	53	52	48	48	48	49	49	46	55
	3400	55	54	52	51	50	52	52	49	58
	4700	54	56	57	56	56	54	54	48	61
	6000	56	55	56	57	57	56	56	48	63
600x400	3000	57	56	52	52	52	53	53	50	59
	4665	59	58	56	55	54	56	56	53	62
	6335	58	60	61	60	60	58	58	52	65
	8000	60	59	60	61	61	60	60	52	67
600x500	3600	59	58	54	54	54	55	55	52	61
	5735	61	60	58	57	56	58	58	55	64
	7865	60	62	63	62	62	60	60	54	67
	10000	63	62	63	64	64	63	63	55	70
600x600	4200	61	60	56	56	56	57	57	54	63
	6800	63	62	60	59	58	60	60	57	66
	9400	62	64	65	64	64	62	62	56	69
	12000	63	62	63	64	64	63	63	55	70

RPMC-K SERIES
TECHNICAL DATA

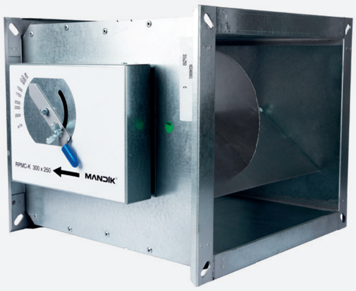


Sound power level inside the pipeline at a pressure difference of 250 Pa

ΔP_{st}= 250 Pa

Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{WA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
200x100	250	54	53	49	49	49	50	50	47	56
	400	57	56	54	53	52	54	54	51	60
	550	56	58	59	58	58	56	56	52	63
	700	59	58	59	60	60	59	59	53	66
200x150	400	55	54	50	50	50	51	52	49	58
	600	58	57	55	54	53	55	55	52	61
	800	57	58	60	58	59	57	57	51	64
	1000	60	59	61	61	61	60	59	53	67
200x200	500	56	55	51	51	51	52	52	49	58
	765	58	57	55	54	53	55	55	52	61
	1035	57	59	60	59	59	57	57	51	64
	1300	60	59	60	61	61	60	60	52	67
300x100	400	56	55	51	51	51	52	52	49	58
	600	58	57	55	54	53	55	55	52	61
	800	57	59	60	59	59	57	57	51	64
	1000	60	59	60	61	61	60	60	52	67
300x150	500	56	55	51	51	51	52	52	49	58
	835	59	58	56	55	54	56	56	53	62
	1165	59	61	62	61	61	59	59	53	66
	1500	62	61	62	63	63	62	62	54	69
300x200	600	59	58	54	54	54	55	55	52	61
	1065	61	60	58	57	56	58	58	55	64
	1535	61	63	64	63	63	61	61	55	68
	2000	64	63	64	65	65	64	64	56	71
300x250	800	60	59	55	55	55	56	56	53	62
	1365	62	61	59	58	57	59	59	56	65
	1935	61	63	64	63	63	61	61	55	68
	2500	64	63	64	65	65	64	64	56	71
300x300	1000	61	60	56	56	56	57	57	54	63
	4665	63	62	60	59	58	60	60	57	66
	2335	62	64	65	64	64	62	62	56	69
	3000	65	64	65	66	66	65	65	57	72
400x200	900	61	60	56	56	56	57	57	54	63
	1500	62	61	59	58	57	59	59	56	65
	2100	61	63	64	63	63	61	61	55	68
	2700	63	62	63	64	64	63	63	55	70
400x250	1200	61	60	56	56	56	57	57	54	63
	1935	63	62	60	59	58	60	60	57	66
	2665	61	63	64	63	63	61	61	55	68
	3400	63	62	63	64	64	63	63	55	70
400x300	1500	62	61	57	57	57	58	58	55	64
	2400	64	63	61	60	59	61	61	58	67
	3300	64	65	66	65	65	63	63	57	70
	4200	66	65	66	67	67	66	66	58	73
400x400	1800	64	63	59	59	59	60	60	57	66
	3000	66	65	63	62	61	63	63	60	69
	4200	64	66	67	66	66	64	64	58	71
	5400	67	66	67	68	68	67	67	59	74

RPMC-K SERIES
TECHNICAL DATA

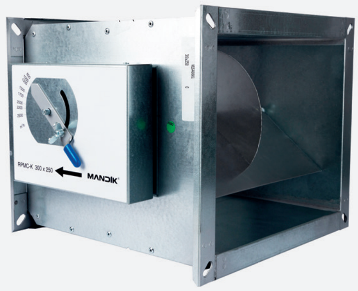


Sound power level inside the pipeline at a pressure difference of 250 Pa

$\Delta P_{st} = 250$ Pa

Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{wA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
500x200	1100	59	58	54	54	54	55	55	52	61
	1865	61	60	58	57	56	58	58	55	64
	2635	59	61	62	61	61	59	59	53	66
	3400	61	60	61	62	62	61	61	53	68
500x250	1500	61	60	56	56	56	57	57	54	63
	2400	62	61	59	58	57	59	59	56	65
	3300	60	62	63	62	62	60	60	54	67
	4200	62	61	62	63	63	62	62	54	69
500x300	1800	62	61	57	57	57	58	58	55	64
	2800	63	62	60	59	58	60	60	57	66
	3800	61	63	64	63	63	61	61	55	68
	4800	63	62	63	64	64	63	63	55	70
500x400	2200	65	64	60	60	60	61	61	58	67
	3735	67	66	64	63	62	64	64	61	70
	5265	66	68	69	68	68	66	66	60	73
	6800	69	68	69	70	70	69	69	61	76
500x500	3000	67	66	62	62	62	63	63	60	69
	4800	69	68	66	65	64	66	66	63	72
	6600	67	69	70	69	69	67	67	61	74
	8400	69	68	69	70	70	69	69	61	76
600x200	1500	59	58	54	54	54	55	55	52	61
	2335	61	60	58	57	56	58	58	55	64
	3165	59	61	62	61	61	59	59	53	66
	4000	62	61	62	63	63	62	62	54	69
600x250	1800	60	59	55	55	55	56	56	53	62
	2865	63	61	59	58	57	59	59	56	65
	3935	61	63	64	63	63	61	61	55	68
	5000	64	63	64	65	65	64	64	56	71
600x300	2100	62	61	57	57	57	58	58	55	64
	3400	63	62	60	59	58	60	60	57	66
	4700	61	63	64	63	63	61	61	55	68
	6000	63	62	63	64	64	63	63	55	70
600x400	3000	65	64	60	60	60	61	61	58	67
	4665	67	66	64	63	62	64	64	61	70
	6335	66	68	69	68	68	66	66	60	73
	8000	68	67	68	69	69	68	68	60	75
600x500	3600	67	66	62	62	62	63	63	60	69
	5735	69	68	66	65	64	66	66	63	72
	7865	68	70	71	70	70	68	68	62	75
	10000	71	70	71	72	72	71	71	63	78
600x600	4200	70	69	65	65	65	66	66	63	72
	6800	71	70	68	67	66	68	68	65	74
	9400	69	71	72	71	71	69	69	63	76
	12000	70	69	70	71	71	70	70	62	77

RPMC-K SERIES
TECHNICAL DATA

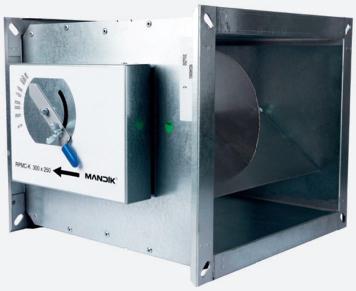


Sound power level inside the pipeline at a pressure difference of 500 Pa

ΔP_{st}= 500 Pa

Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{wA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
200x100	250	60	59	55	55	55	56	56	53	62
	400	63	62	60	59	58	60	60	57	66
	550	64	63	65	64	64	62	62	59	69
	700	66	65	66	67	67	66	65	61	73
200x150	400	62	61	57	57	56	58	57	54	64
	600	64	63	61	60	59	60	60	57	67
	800	63	65	66	65	65	63	63	57	70
	1000	66	65	67	67	67	66	66	58	73
200x200	500	62	61	57	57	57	58	58	55	64
	765	65	64	62	61	60	62	62	59	68
	1035	64	66	67	66	66	64	64	58	71
	1300	67	66	67	68	68	67	67	59	74
300x100	400	62	61	57	57	57	58	58	55	64
	600	64	63	61	60	59	61	61	58	67
	800	63	65	66	65	65	63	63	57	70
	1000	66	65	66	67	67	66	66	58	73
300x150	500	62	61	57	57	57	58	58	55	64
	835	65	64	62	61	60	62	62	59	68
	1165	65	67	68	67	67	65	65	59	72
	1500	68	67	68	69	69	68	68	60	75
300x200	600	65	64	60	60	60	61	61	58	67
	1065	68	67	65	64	63	65	65	62	71
	1535	67	69	70	69	69	67	67	61	74
	2000	70	69	70	71	71	70	70	62	77
300x250	800	67	66	62	62	62	63	63	60	69
	1365	69	68	66	65	64	66	66	63	72
	1935	68	70	71	70	70	68	68	62	75
	2500	71	70	71	72	72	71	71	63	78
300x300	1000	68	67	63	63	63	64	64	61	70
	4665	70	69	67	66	65	67	67	64	73
	2335	69	71	72	71	71	69	69	63	76
	3000	72	71	72	73	73	72	72	64	79
400x200	900	68	67	63	63	63	64	64	61	70
	1500	70	69	67	66	65	67	67	64	73
	2100	68	70	71	70	70	68	68	62	75
	2700	70	69	70	71	71	70	70	62	77
400x250	1200	67	66	62	62	65	63	63	60	70
	1935	70	69	67	66	66	67	67	64	73
	2665	68	70	71	70	66	68	68	62	75
	3400	70	69	70	71	71	70	70	62	77
400x300	1500	68	67	63	63	66	64	64	61	71
	2400	71	70	68	67	67	68	68	65	74
	3300	69	71	72	71	67	69	69	63	76
	4200	71	70	71	72	72	71	71	63	78
400x400	1800	71	69	65	65	68	66	66	63	73
	3000	73	72	70	69	69	70	70	67	76
	4200	71	73	74	73	69	71	71	65	78
	5400	73	72	73	74	74	73	73	65	80

RPMC-K SERIES
TECHNICAL DATA

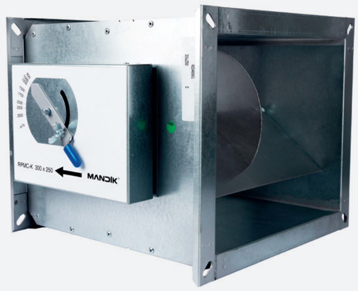


Sound power level inside the pipeline at a pressure difference of 500 Pa

$\Delta P_{st} = 500$ Pa

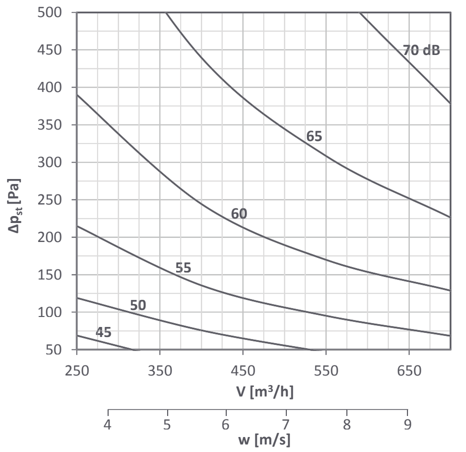
Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{WA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
500x200	1100	66	65	61	61	64	62	62	59	69
	1865	67	66	64	63	66	64	64	61	71
	2635	66	68	69	68	65	66	66	60	73
	3400	69	68	69	70	66	69	69	61	75
500x250	1500	67	66	62	62	65	63	63	60	70
	2400	68	67	65	64	67	65	65	62	72
	3300	67	69	70	69	66	67	67	61	74
	4200	70	69	70	71	67	70	70	62	76
500x300	1800	68	67	63	63	66	64	64	61	71
	2800	69	68	66	65	68	66	66	63	73
	3800	68	70	71	70	67	68	68	62	75
	4800	71	70	71	72	68	71	71	63	77
500x400	2200	70	69	65	65	68	66	66	63	73
	3735	72	71	69	68	71	69	69	66	76
	5265	72	74	75	74	74	72	72	66	79
	6800	76	75	76	77	74	76	76	68	82
500x500	3000	74	73	69	69	68	70	70	67	76
	4800	75	74	72	71	74	72	72	69	79
	6600	74	76	77	76	76	74	74	68	81
	8400	77	76	77	78	75	77	77	69	83
600x200	1500	66	65	61	61	60	62	62	59	68
	2335	67	66	64	63	66	64	64	61	71
	3165	66	68	69	68	68	66	66	60	73
	4000	70	69	70	71	68	70	70	62	76
600x250	1800	67	66	62	62	61	63	63	60	69
	2865	68	67	65	64	67	65	65	62	72
	3935	68	70	71	70	70	68	68	62	75
	5000	71	70	71	72	72	71	71	63	78
600x300	2100	68	67	63	63	63	64	64	61	70
	3400	69	68	66	65	64	66	66	63	72
	4700	67	69	70	69	69	67	67	61	74
	6000	69	68	69	70	70	69	69	61	76
600x400	3000	72	71	67	67	67	68	68	65	74
	4665	74	73	71	70	69	71	71	68	77
	6335	73	75	76	75	75	73	73	67	80
	8000	75	74	75	76	76	75	75	67	82
600x500	3600	74	73	69	69	69	70	70	67	76
	5735	75	74	72	71	70	72	72	69	78
	7865	74	76	77	76	76	74	74	68	81
	10000	77	76	77	78	78	77	77	69	84
600x600	4200	76	75	71	71	71	72	72	69	78
	6800	77	76	74	73	72	74	74	71	80
	9400	75	77	78	77	77	75	75	69	82
	12000	76	75	76	77	77	76	76	68	83

RPMC-K SERIES
TECHNICAL DATA

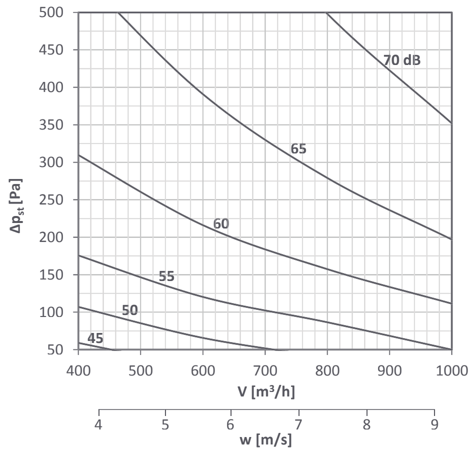


Sound power level L_{wa} [dB (A)] inside the pipeline

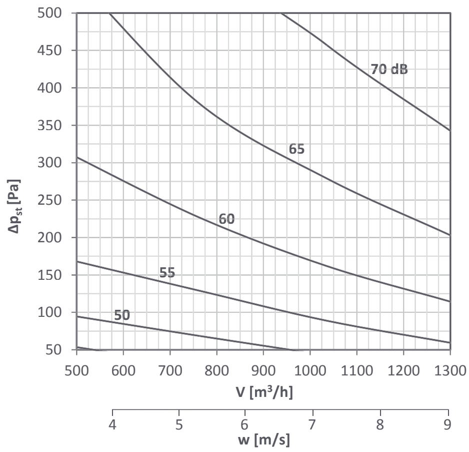
200x100



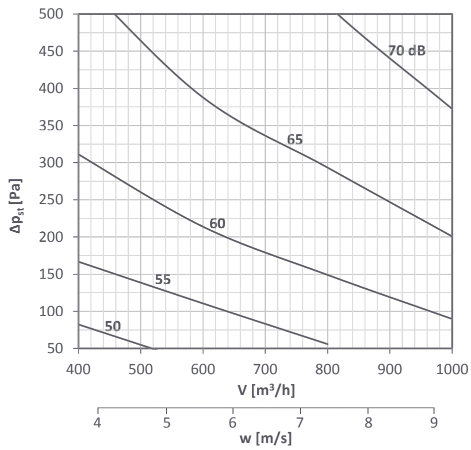
200x150



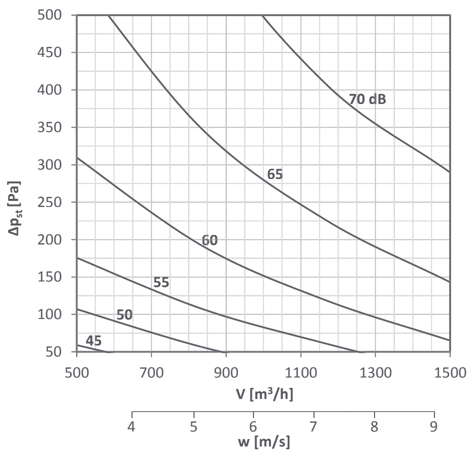
200x200



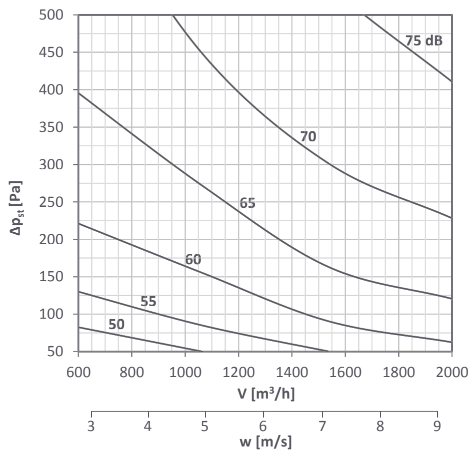
300x100



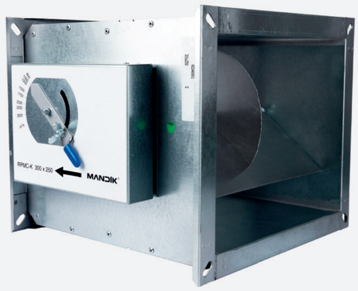
300x150



300x200

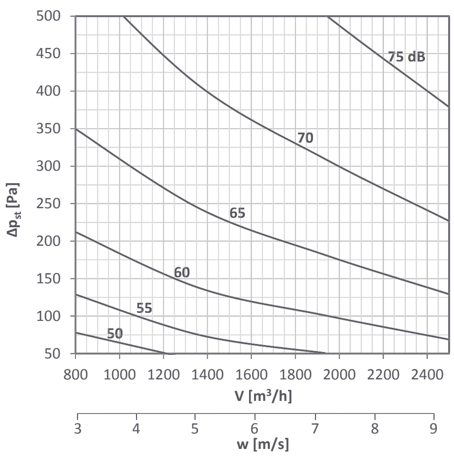


RPMC-K SERIES
TECHNICAL DATA

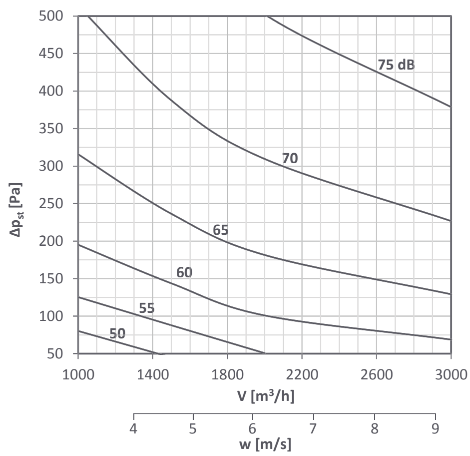


Sound power level L_{WA} [dB (A)] inside the pipeline

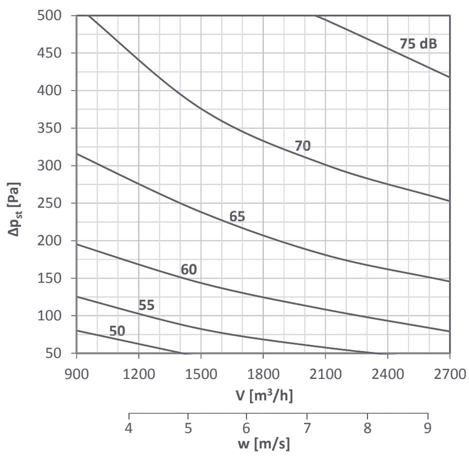
300x250



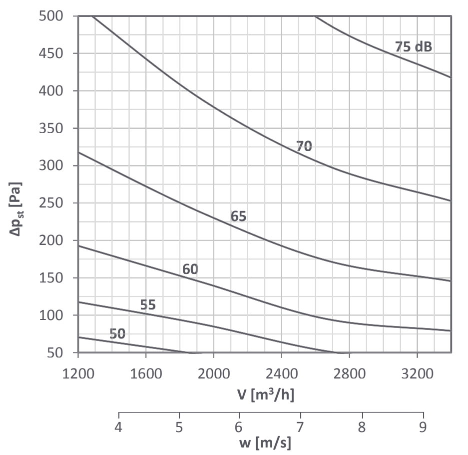
300x300



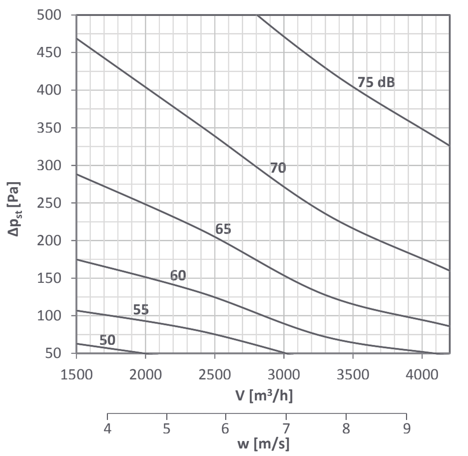
400x200



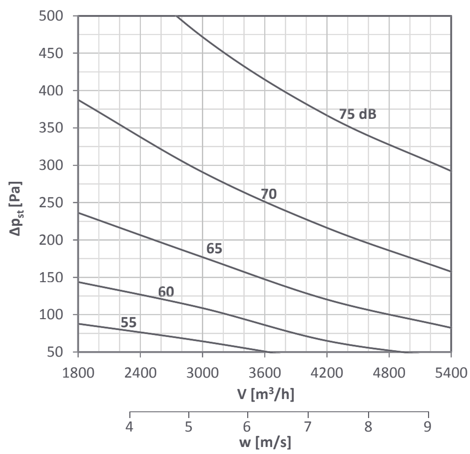
400x250



400x300

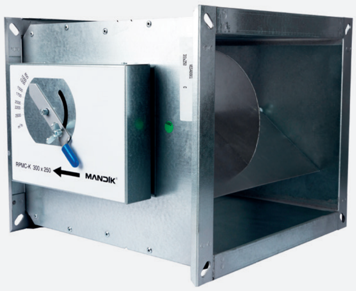


400x400



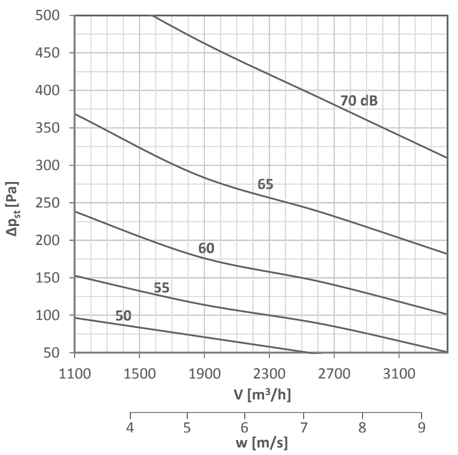
RPMC-K SERIES

TECHNICAL DATA

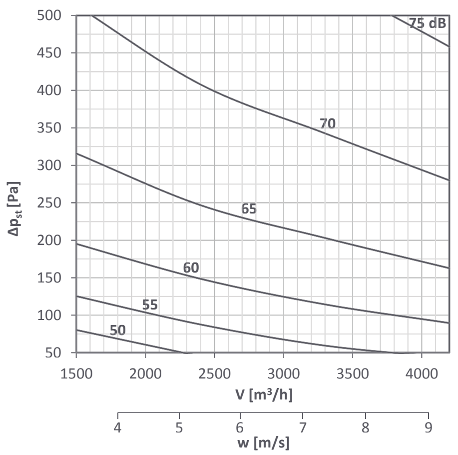


Sound power level L_{WA} [dB (A)] inside the pipeline

500x200



500x250



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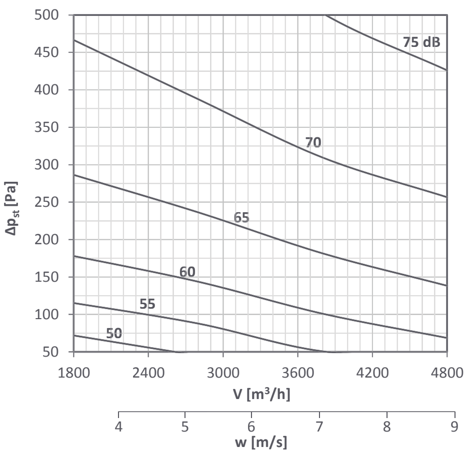

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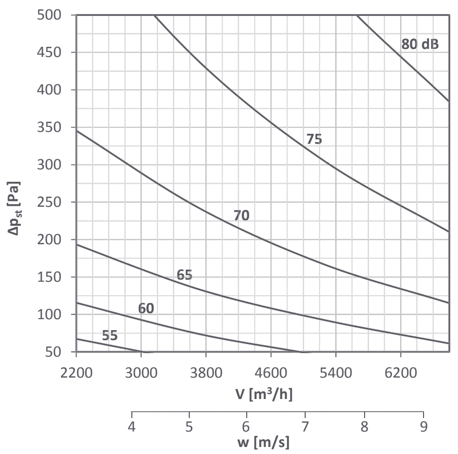

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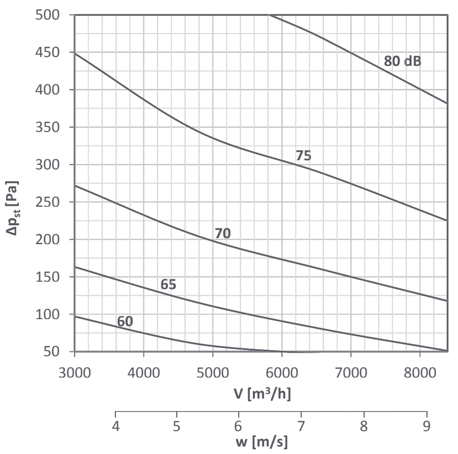

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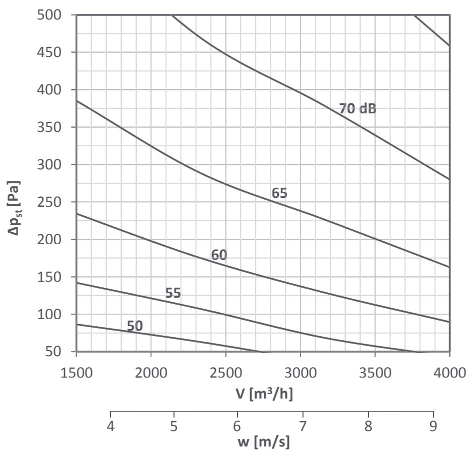
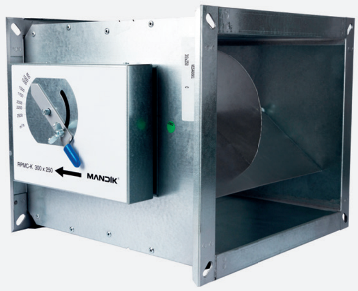


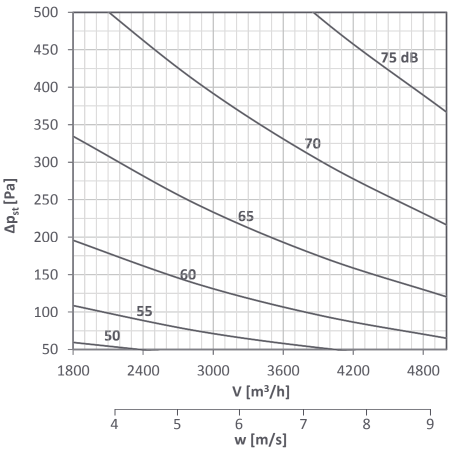
RPMC-K SERIES

TECHNICAL DATA



Sound power level L_{wa} [dB (A)] inside the pipeline

600x250



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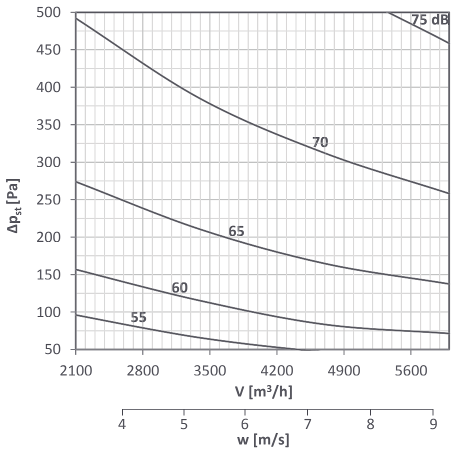

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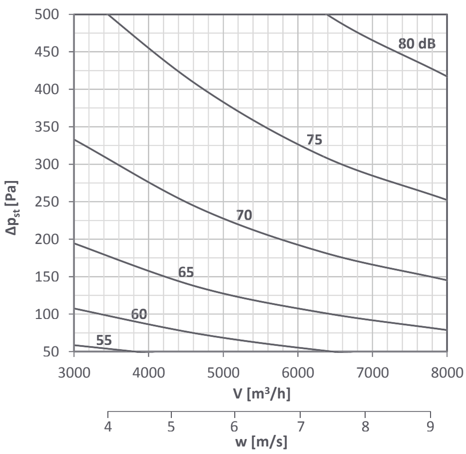

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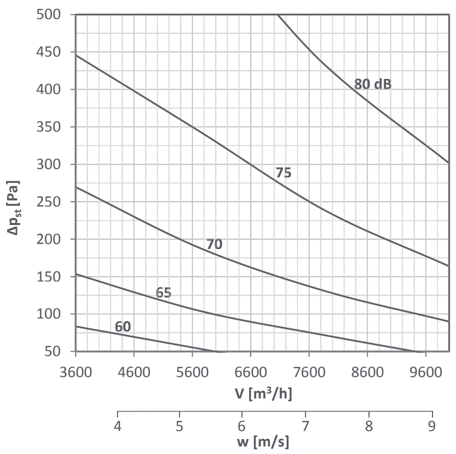

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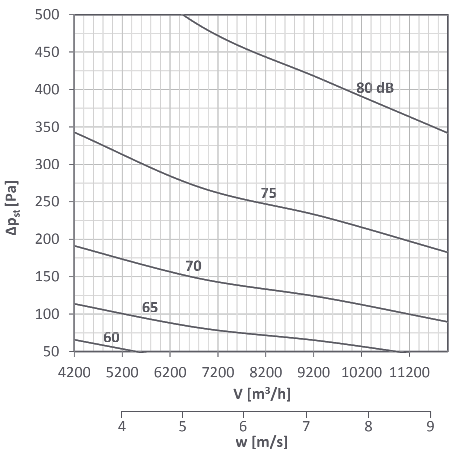
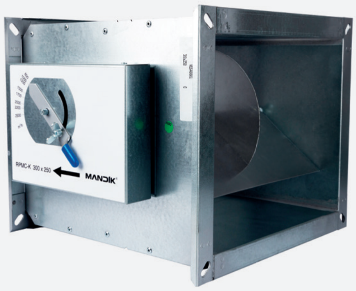


RPMC-K SERIES
TECHNICAL DATA



Radiated noise

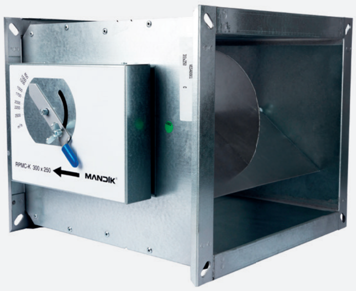
The radiated noise of the air volume controller is listed below.

V [m³h⁻¹] - air flow volume
Δ_{st} [Pa] - pressure differential

L_{WA} [dB(A)] - total level of acoustic power corrected by filter A

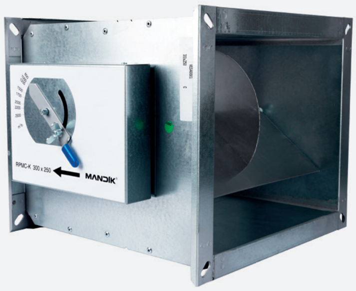
Size [mm]	V [m³/h]	L_{WA} [dB(A)] ΔP_{st}= 50 Pa	L_{WA} [dB(A)] ΔP_{st}= 100 Pa	L_{WA} [dB(A)] ΔP_{st}= 250 Pa	L_{WA} [dB(A)] ΔP_{st}= 500 Pa
200x100	250	33	39	48	55
	400	38	43	51	57
	550	42	46	53	59
	700	45	49	55	61
200x150	400	34	39	46	52
	600	38	42	49	55
	800	41	45	52	58
	1000	43	48	55	61
200x200	500	35	40	47	53
	765	40	44	51	56
	1035	43	47	54	59
	1300	45	49	56	62
300x100	400	36	40	46	52
	600	40	44	50	56
	800	43	47	53	59
	1000	45	49	55	61
300x150	500	35	39	46	52
	835	40	44	51	57
	1165	44	48	54	60
	1500	47	51	57	63
300x200	600	35	40	48	54
	1065	39	44	52	58
	1535	43	48	55	61
	2000	46	51	58	64
300x250	800	36	41	49	56
	1365	40	45	53	60
	1935	44	49	56	63
	2500	47	52	59	66
300x300	1000	36	41	49	57
	4665	40	45	53	61
	2335	44	49	57	64
	3000	48	53	60	67
400x200	900	35	40	48	55
	1500	40	45	52	59
	2100	43	48	55	61
	2700	45	50	57	63
400x250	1200	38	43	50	56
	1935	42	47	54	60
	2665	45	50	57	63
	3400	47	52	59	65
400x300	1500	39	44	52	58
	2400	43	48	56	62
	3300	46	51	59	65
	4200	48	53	61	67
400x400	1800	43	48	56	62
	3000	46	51	59	65
	4200	48	53	61	67
	5400	50	55	63	69

RPMC-K SERIES
TECHNICAL DATA



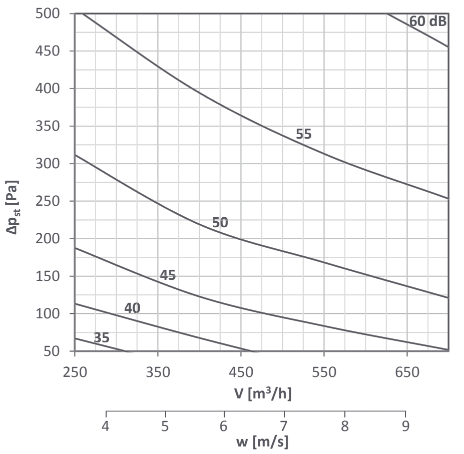
Size [mm]	V [m³/h]	L_{WA} [dB(A)] ΔP_{st}= 50 Pa	L_{WA} [dB(A)] ΔP_{st}= 100 Pa	L_{WA} [dB(A)] ΔP_{st}= 250 Pa	L_{WA} [dB(A)] ΔP_{st}= 500 Pa
500x200	1100	35	40	48	55
	1865	40	45	52	58
	2635	43	48	55	61
	3400	47	51	58	63
500x250	1500	36	41	49	56
	2400	40	45	53	60
	3300	43	48	56	63
	4200	46	52	59	66
500x300	1800	38	43	51	57
	2800	42	47	55	61
	3800	44	49	58	64
	4800	47	52	60	66
500x400	2200	42	46	54	60
	3735	46	50	57	63
	5265	49	53	60	66
	6800	52	56	63	69
500x500	3000	45	50	57	63
	4800	48	53	60	66
	6600	51	56	63	68
	8400	55	59	65	70
600x200	1500	35	40	48	55
	2335	39	44	52	59
	3165	42	47	55	62
	4000	45	50	58	65
600x250	1800	36	42	50	56
	2865	40	45	53	60
	3935	43	48	56	63
	5000	46	51	59	66
600x300	2100	38	43	51	57
	3400	42	47	54	60
	4700	45	50	57	63
	6000	48	53	60	66
600x400	3000	40	45	53	60
	4665	44	49	56	63
	6335	47	52	59	65
	8000	51	55	61	67
600x500	3600	43	48	56	62
	5735	46	51	59	65
	7865	48	53	61	67
	10000	51	56	63	69
600x600	4200	45	50	57	63
	6800	48	53	60	66
	9400	51	55	62	68
	12000	53	57	64	70

RPMC-K SERIES
TECHNICAL DATA

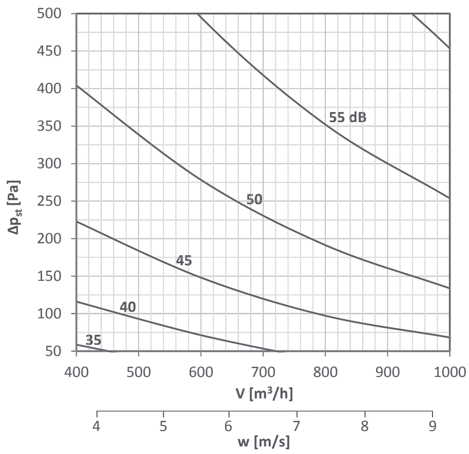


Sound power level L_{wa} [dB (A)] radiated ouside the pipeline - without insulation

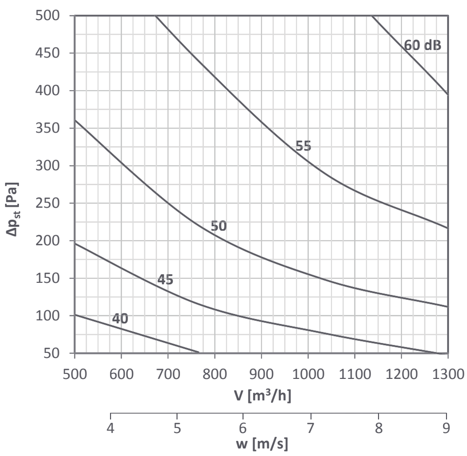
200x100



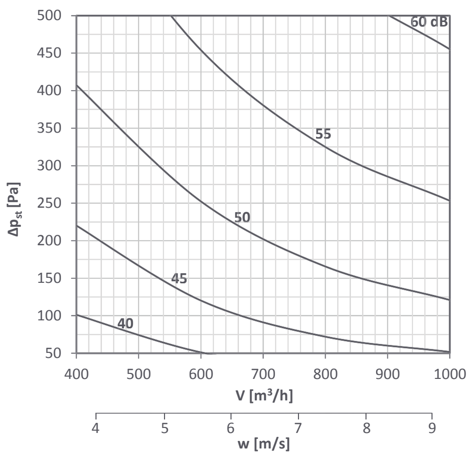
200x150



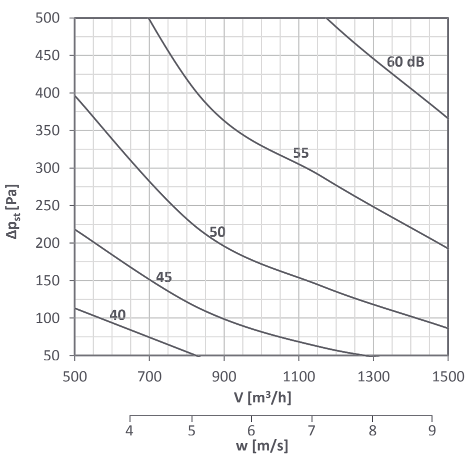
200x200



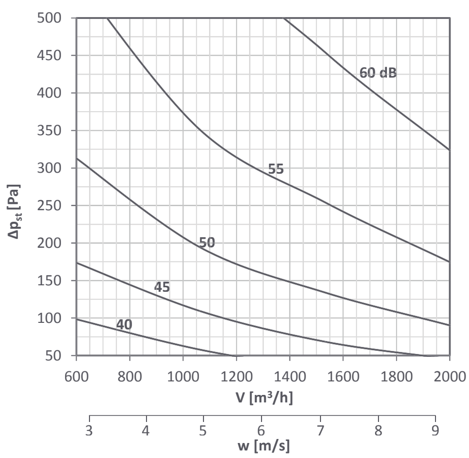
300x100



300x150

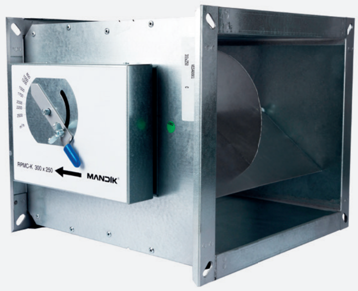


300x200



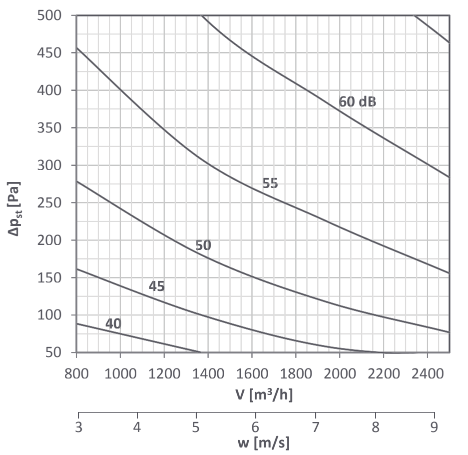
RPMC-K SERIES

TECHNICAL DATA

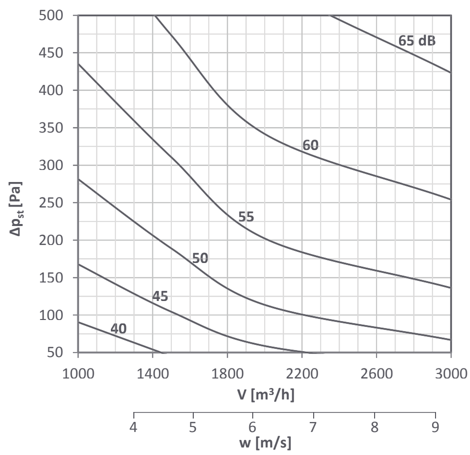


Sound power level L_{wa} [dB (A)] radiated ouside the pipeline - without insulation

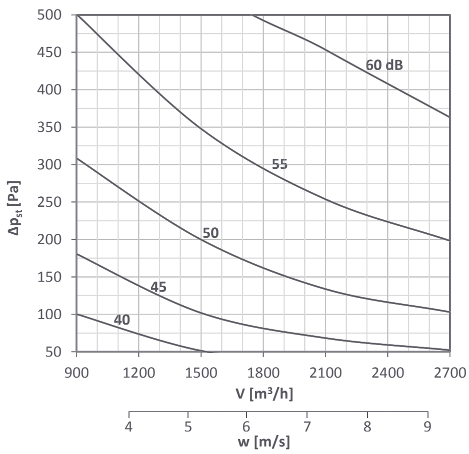
300x250



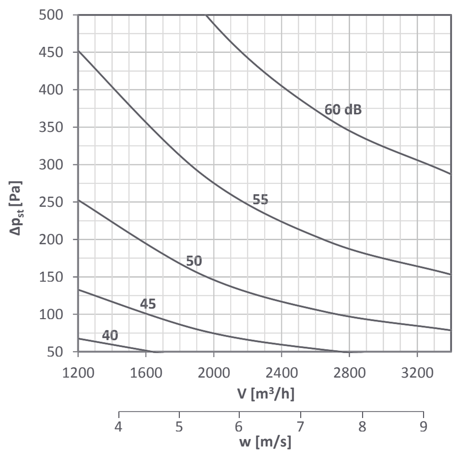
300x300



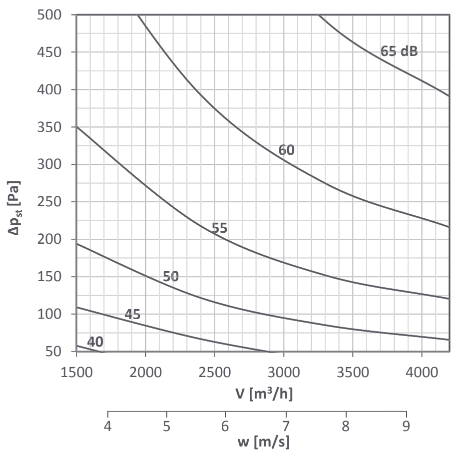
400x200



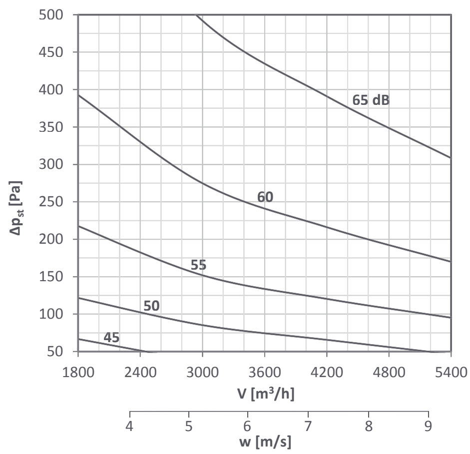
400x250



400x300



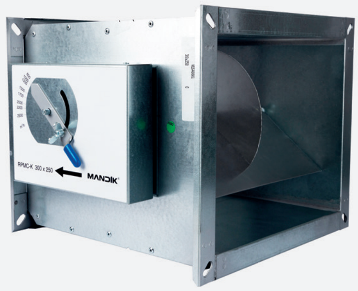
400x400



REGULATION
COSTANT FLOW

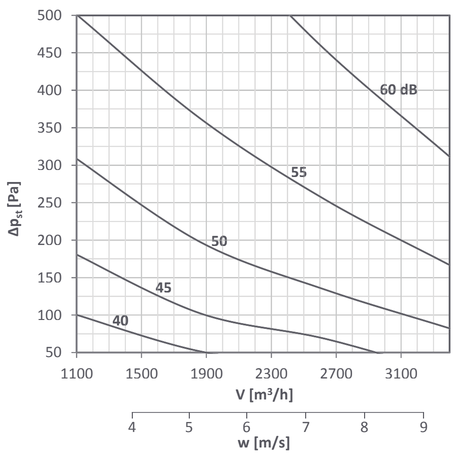
SAMOVENT® TECHNIK

RPMC-K SERIES
TECHNICAL DATA

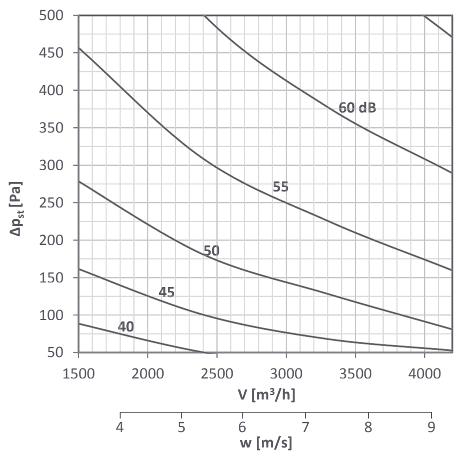


Sound power level L_{wa} [dB (A)] radiated ouside the pipeline - without insulation

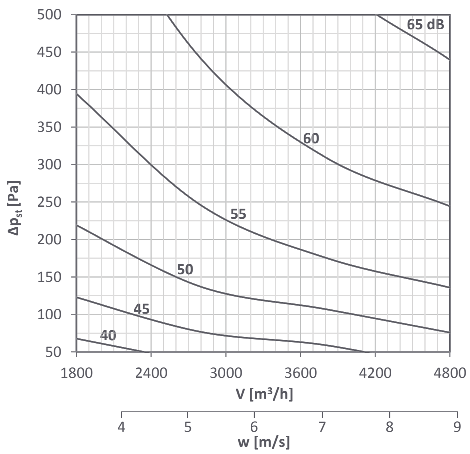
500x200



500x250



500x300



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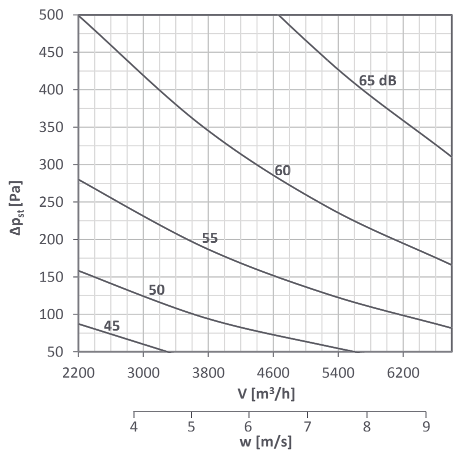
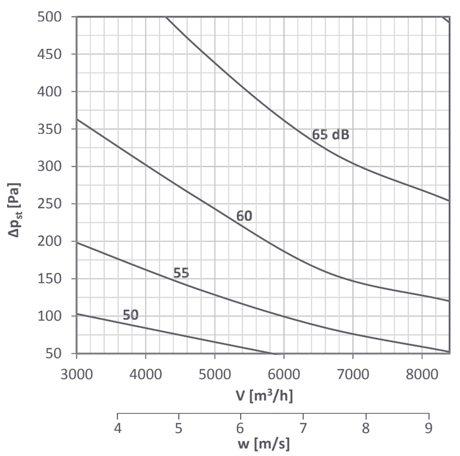
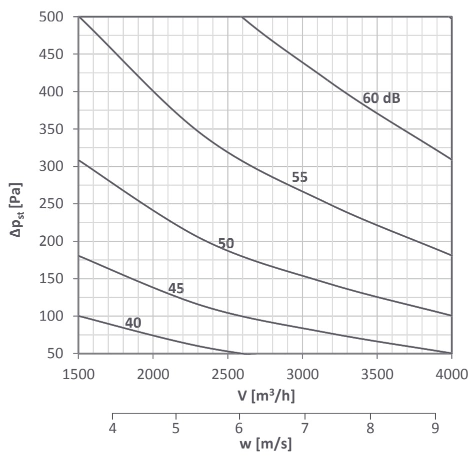


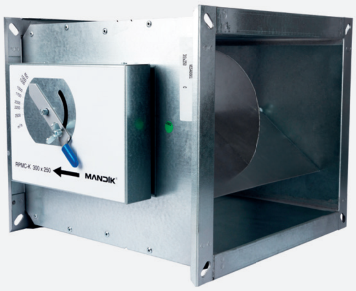
500x500



600x200

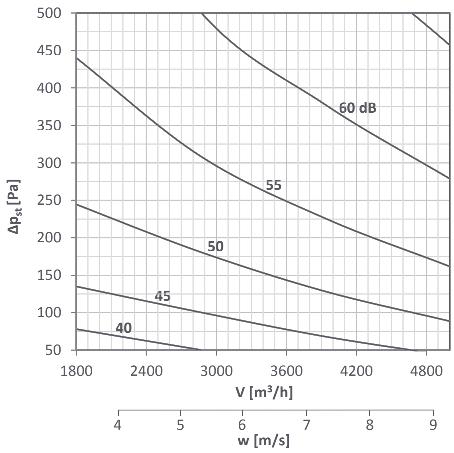


RPMC-K SERIES
TECHNICAL DATA

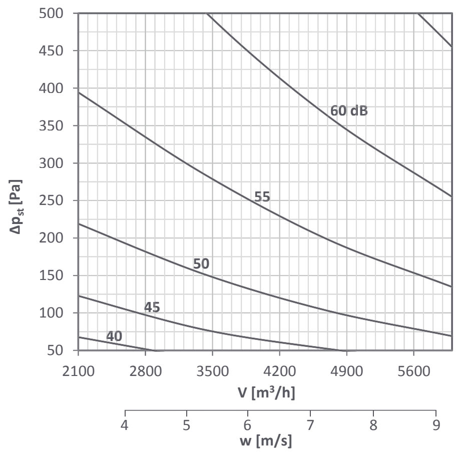


Sound power level L_{wa} [dB (A)] radiated ouside the pipeline - without insulation

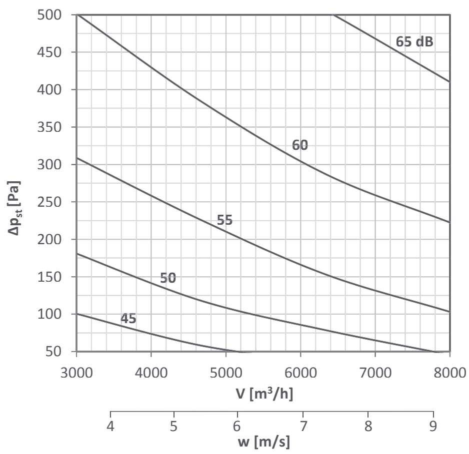
600x250



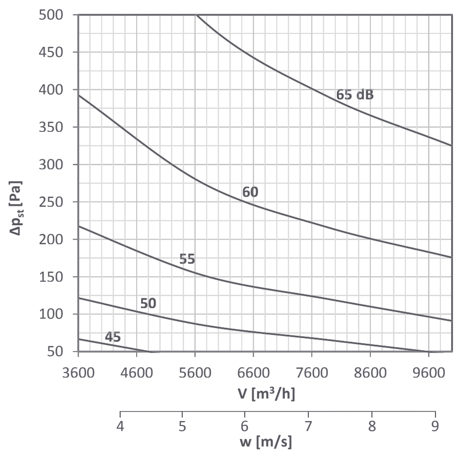
600x300



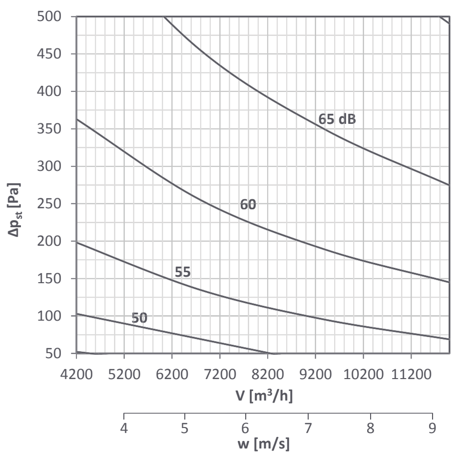
600x400



600x500



600x600



RDR SERIES
FLOW REGULATOR

Model **RDR.** The flow regulator RDR is an element placed inside the duct in order to obtain a constant flow within a pressure range from 50 to 250 Pascals. It is used in air conditioning or ventilation systems either in extraction or blowing mode. Aeraulic characteristics meeting the requirements of the draft standard NF-E-51-776-2.

Characteristics:

- Self adjusting on the pressure range 50 to 250 Pa.
- Easy adjustment.
- The requested air flow is fixed by a screw driver «torx n°10».
- Made in plastic material (classified M1).
- Use with a maximum temperature of 60°C.

Presentation:

- The self adjusting flow regulator RDR can be adjusted on sites according to the requested airflow.
- The marks on the sides of the opening indicate the settings.

Models:

ø80 to ø250 mm.

Adjustment:

Before setting the regulator, it's necessary to calibrate the flow:

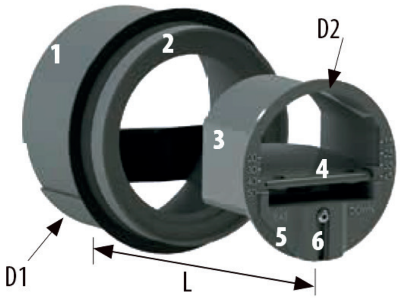
- Using a T10 Torx screwdriver, loosen the screw on the adjustment module by one quarter turn.
- Set the cursor (on the left or right) to the desired fl ow rate.
- Retighten the adjustment module locking screw.

It is possible to obtain other fl ow rates than those indicated on the controller by setting the mark of the adjustment module to an intermediate position. The setting steps are given in the table opposite.

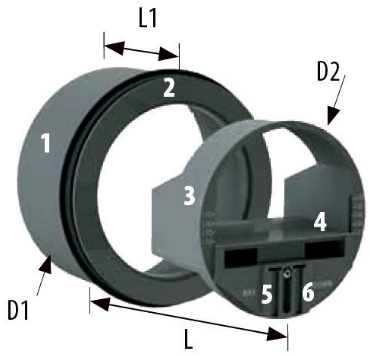
RDR SERIES

FLOW REGULATOR

RDR
ø80 to ø125



RDR
ø160 to ø250



Components and dimensions:
1. Sleeve with lip seal
2. Cale (according to the airfl ow)
3. Regulator casing
4. Piece of regulation
5. Air flow setting
6. Screw to fix the airflow

Size	øD1	øD2	L
ø80	76	76	57
ø100	96	93	68
ø125	120	117	86 (68*)
ø160	148	148	85
ø200	195	195	91
ø250	244	245	120

* for flow rates from 15 to 100 m³/h

RDR SERIES
TECHNICAL DATA

Air flow

Ø	Adjustable flow range (m3/h)	Caudales estándar preestablecidos (m3/h)*
80	15 to 50	15/25/30/45/50
100	15 to 50	15/25/30/45/50
100	50 to 100	60/75/90/100
125	15 to 50	15/25/30/45/50
125	50 to 100	60/75/90/100
125	100 to 180	120/150/180
160	15 to 50	50
160	50 to 100	100
160	180 to 300	120/150/180
160	180 to 300	210/240/250/270/300
200	100 to 180	180
200	180 to 300	210/240/250/270/300
200	300 to 500	350/400/450/500
250	180 to 300	300
250	300 to 500	350/400/450/500
250	450 to 800	550/600/650/700

Sound power

The controllers are characterized by their sound power levels Lw expressed in dB(A).

Ø (mm)	Flow (m³/h)	Lw en dB (A)			
		50 Pa	100 Pa	150 Pa	200 Pa
80	15	24	30	33	35
	30	27	33	39	43
	45	27	33	39	42
	50	28	34	38	42
100	15	24	26	30	33
	30	27	33	37	42
	45	29	36	40	42
	60	31	37	41	44
	75	31	38	42	45
	90	33	39	43	46
	100	33	39	43	46
125	15	25	29	32	34
	30	27	32	37	42
	45	28	33	37	41
	60	30	35	39	43
	75	31	35	39	43
	90	32	35	39	43
	100	35	40	44	48
	120	35	41	45	47
	150	36	42	45	47
	180	38	42	45	47

Ø (mm)	Flow (m³/h)	Lw en dB (A)			
		50 Pa	100 Pa	150 Pa	200 Pa
160	100	38	44	46	49
	120	39	44	47	49
	150	40	45	49	51
	180	38	43	46	49
	210	39	45	48	50
	240	40	44	47	49
	270	39	45	48	50
	300	41	46	49	51
200	180	39	45	47	50
	210	40	46	48	49
	240	40	46	49	51
	270	40	47	50	51
	300	39	44	48	50
	350	41	45	49	51
	400	41	47	50	52
	450	41	47	51	53
	500	42	48	52	54
250	300	34	44	48	49
	350	36	45	49	50
	400	37	46	50	52
	450	35	45	47	50
	500	36	44	48	51
	550	44	48	51	54
	600	45	50	52	58
	650	45	50	53	57
	700	46	51	55	56
	750	46	52	55	56
	800	46	54	55	57

ALIZÉ AUTO SERIES

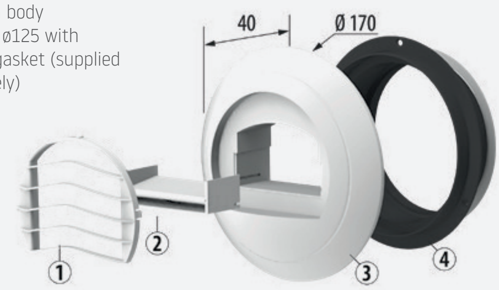
ALIZÉ AUTO SINGLE FLOW

Model ALIZÉ AUTO. Designed to equip CMV installations in homes and commercial premises, the ALIZÉ AUTO range of self-regulating extractor fans meets regulatory requirements by combining aesthetics and technology.

Characteristics:
- Complies with regulatory requirements (decree 82, NRA...).
- Easy installation of the appliance + accessories
- Easy maintenance due to the easy removal of the regulation module - Indication of the opening corresponding to the maximum flow rate of the appliance
- Indication of the opening corresponding to the maximum extraction flow rate of the cooking appliance
- Made of white polystyrene, with removable grille

Presentation:
- The ALIZÉ AUTO nozzle is available in the following flow rates: 15, 30, 45, 60, 60, 75, 90, 120 and 150 m³/h.

1. Removable grille
2. Regulating module
3. Mouth body
4.Sleeve ø125 with sealing gasket (supplied separately)



- For mounting the ALIZE AUTO 120 and 150 on the ø99 sleeve, use the spacer for adapting to the ø99 sleeve (code 1941).

Alizé auto without sleeve

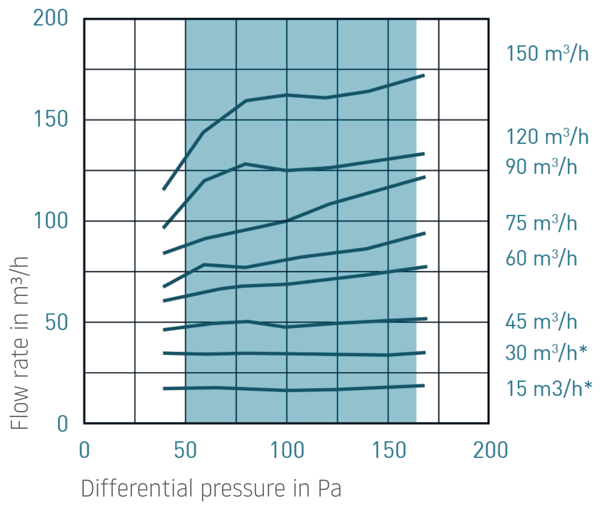
ALIZÉ AUTO 15 m³/h
ALIZÉ AUTO 30 m³/h
ALIZÉ AUTO 45 m³/h
ALIZÉ AUTO 60 m³/h
ALIZÉ AUTO 75 m³/h
ALIZÉ AUTO 90 m³/h

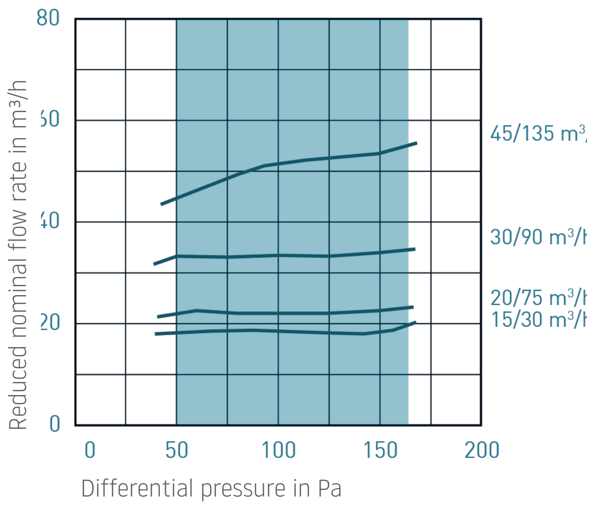
Connecting sleeve

sleeve ø99
sleeve ø116
sleeve ø120
sleeve ø125
sleeve ø150
sleeve with gasket ø99
sleeve with gasket ø116
sleeve with gasket ø125
sleeve with gasketa ø160
three-pronged plasterboard sleeve: ø100. L100
three-pronged plasterboard sleeve: ø125. L100
three-pronged plasterboard sleeve: ø125+80. L100

ALIZÉ AUTO SERIES
TECHNICAL DATA

Air flow rate





** Curves from the CETIAT test reports*

Acoustics

These valves are characterised by their standardised acoustic performance Dn, e, w (C) and their sound power level (Lw).

Dimensions according to EN 13141-2.

ALIZÉ AUTO	Lw in dB(A)				Dn,e,w (C) dB	
	70 Pa	100 Pa	136 Pa NF	160 Pa	NF	With MIA
15 m³/h	23	27	**32**	35	**61**	64
30 m³/h	25	30	**35**	38	**56**	60

Valores del informe de la prueba CETIAT

NF Valores certificados

ALIZÉ AUTO	Lw in dB(A)				Dn,e,w (C) dB	
	70 Pa	100 Pa	136 Pa NF	160 Pa	NF	With MIA
20/75 m³/h	23	27	**32**	35	**55**	59
30/90 m³/h	25	30	**35**	38	**53**	57
45/135 m³/h	32	34	**37**	39	**53**	57

Caudal 45/105 y 45/120: tomar los valores de la válvula 45/135

Valores del informe de la prueba CETIAT

Test reports

CETIAT* Test Reports No. 2714172 and 1114080
*Technical Centre for the Air and Heat Industries

CATALOGUE

REGULATION
VARIABLE FLOW

RPM-V - RPMC-V SERIES

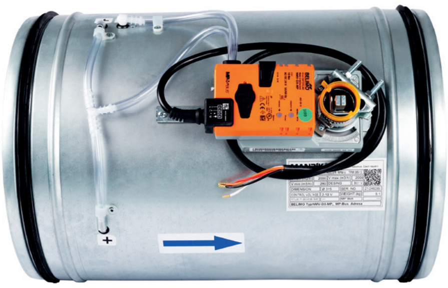
RPM-V	Air flow regulator, with variable flow. Circular
RPMC-V	Air flow regulator, with variable flow. Square

REGULATION
VARIABLE FLOW

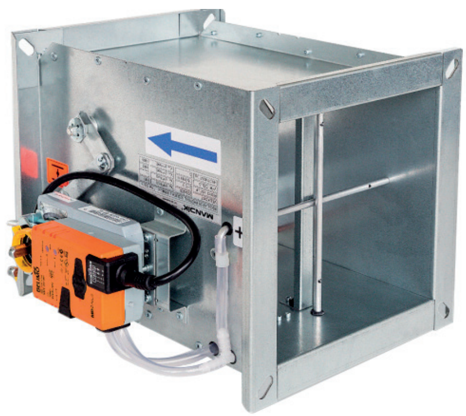
SAMOVENT®
TECHNIK

DIFUSIÓN Y VENTILACIÓN

SAMOVENT®
TECHNIK



RPM-V



RPMC-V

RPM-V SERIES
VARIABLE FLOW DAMPER

Model RPM-V. The air volume controllers are meant for systems with a variable air volume that is used for input or output air. The required amount of air that is taken into the individual rooms or working areas is variable with respect to time and can be changed according to momentary need when the controllers are installed. Total power of air-conditioning system can be lower. This variable systems enable a more economical operation air-conditioning systems and while ensuring individual well-being on the premises setting. The controller consists of the body of the controller with a control blade and pressure probes for determining the through-flow of air. An compact controller is affixed to the body for controlling the control blade.

Characteristics:

- Type of regulation:
  control of air flow
  control of pressure in the duct
  control of pressure in the room
- Nominal size: DIM 80 a DIM 630
- Length L = 450 / 600 mm according to nominal size. Tightness acc. to EN 1751 External casing leakage class C. Tightness through the damper blade: class 4
- Air flow volume 18 ÷ 7 900 m³/h (for 12m/s is max. Air flow vol. 13 500 m³/h*)
- Accuracy ± 8 % for velocity up to 3 m/s and ± 5 % for higher velocity.
- Air-velocity Standard set-up is in range from min. 1 m/s to 7 m/s by Belimo, Gruner or Siemens actuators

Working conditions:

- The faultless functioning of the controllers is ensured under the following conditions:
  a) maximum speed of air flow 7 m/s
  b) maximum pressure in the duct 1000 Pa
  c) the air circulation in the whole controller section must be secured as steady on whole surface - see point 4.1.
- Controllers are designed for macroclimatic areas with mild climate according to EN 60 721-3-3.
- Controllers are suitable for systems without abrasive, chemical and adhesive particles.
- Temperature in the place of installation is permitted to range from 0°C to +50°C.
- The controllers are supplied without insulation or in an insulated design. Insulation thickness is 50 mm.aislado. El grosor del aislamiento es de 50 mm.

Models:

RPM-V.01 For control with 0(2)...10 V signal or MP-BUS protocol.

RPM-V.02 For control with signal 0(2)...10 V or using Modbus RTU, BACnet or MP-BUS protocol

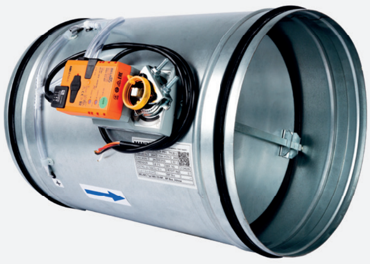
Optional:
RPM-V.75
RPM-V.78
RPM-V.91
RPM-V.92

* see model descriptions in table.

REGULATION VARIABLE FLOW

*

Air flow	compact solution (sensor, controller and actuator in one box)	Dynamic	Analog MPBus	LMV-D3-MP (5 N.m, NMV-D3-MP 10 N.m, SMV-D3-MP 20 N.m)	0...500Pa	.01
			MODBUS BACnet MPBus	LMV-D3-MOD (5 N.m, NMV-D3-MOD 10 N.m, SMV-D3-MOD 20 N.m)	0...500Pa	.02
Pressure	sensor, controller and actuator all in separate boxes	Static	Analog MP-Bus	Controlador VRU-M1-BAC (STP) + LM24A-VST (5 N.m., NM24A-VST 10 N.m, SM24A-VST 20 N.m)	0...600 Pa	.75
			ModBus	Controlador VRU-M1-BAC (STP) + LM24A-VST (5 N.m., NM24A-VST 10 N.m, SM24A-VST 20 N.m)	0...600 Pa	.78
Pressure in the room	sensor, controller and actuator all in separate boxes	Static	BACnet	Controlador VRU-M1R-BAC (STP) + LM24A-VST (5 N.m., NM24A-VST 10 N.m, SM24A-VST 20 N.m)	-75...+75	.91
			ModBus BACnet	Controlador VRU-M1R-BAC (STP) + LM24A-VST (5 N.m., NM24A-VST 10 N.m, SM24A-VST 20 N.m)	-75...+75	.92

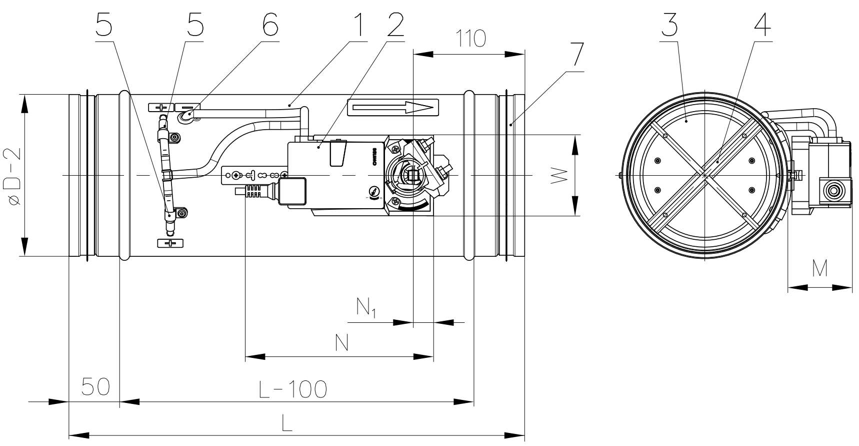


RPM-V SERIES

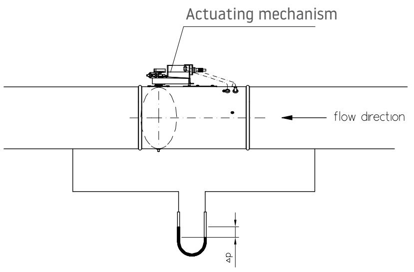
VARIABLE FLOW DAMPER

RPM-V

1. Regulator body
2. Controller
3. Controller blade
4. Tab
5. Pressure sampling -p1
6. Pressure sampling -p2
7. Rubber seal

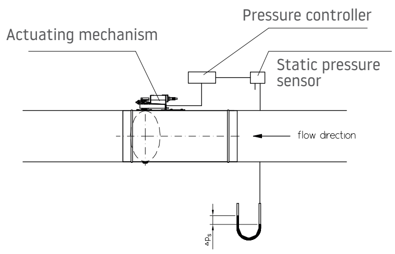


RPM-V
Air flow control



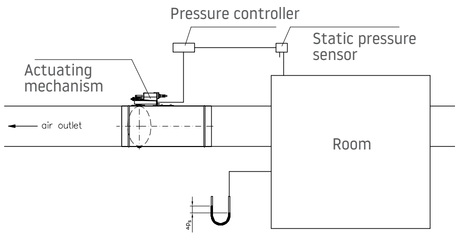
Δp [Pa] Controller pressure loss

RPM-V
Pipe pressure control



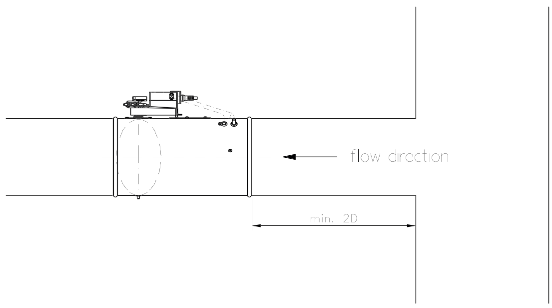
Δp_s [Pa] Static pressure difference between duct and surrounding environment

RPM-V
Room pressure control

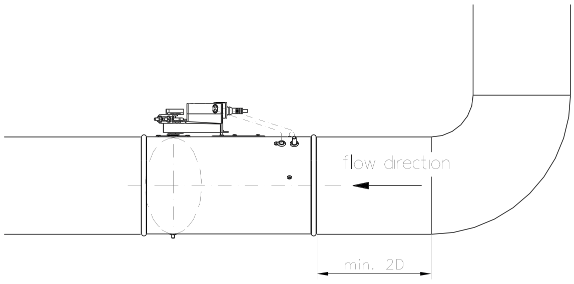


Δp_s [Pa] Static pressure diference between room and surrounding environment

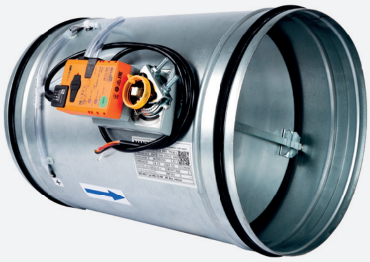
RPM-V
Recommmended distance from double branch joint



RPM-V
Recommended distance from bend



RPM-V SERIES
TECHNICAL DATA



Air volume

Dimensions AxB [mm]	Air volume [m³/h]					
	Standard values*			Maximum values		
	Minimal (w ≈ 1m/s)	Maximal (w ≈ 7m/s)	V_{nom}	Minimal (w ≈ 1m/s)	Maximal (w ≈ 12m/s)	V_{nom}
80	18	125	125	18	220	220
100	30	200	200	30	350	350
125	45	310	310	45	550	550
140	55	400	400	55	700	700
160	70	500	500	70	900	900
180	90	650	650	90	1200	1200
200	115	800	800	115	1400	1400
225	145	1000	1000	145	1800	1800
250	180	1250	1250	180	2200	2200
280	220	1550	1550	220	2800	2800
315	280	2000	2000	280	3500	3500
355	355	2500	2500	355	4500	4500
400	455	3200	3200	455	5800	5800
500	710	5000	5000	710	8500	8500
630	1120	7900	7900	1120	13500	13500

*Default controller settings

RPM-V SERIES
TECHNICAL DATA

Determination of actual air volume

Air volume value is determined by means of the computation from the measured value U_5

Sample for the operating mode 2...10V

$$\dot{V} = \frac{U_5 - 2{,}0}{8} \cdot \dot{V}_{nom}$$

Sample for the operating mode 0...10V

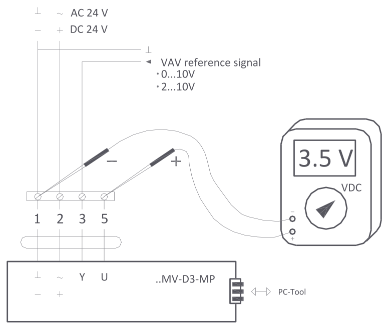
$$\dot{V} = \frac{U_5 \,.\, \dot{V}_{nom}}{10}$$

Searched for : actual air volume
Voltage measured on U_5 : 3,5 V

$$\dot{V}_{nom} = 2800\ m^3.h^{-1}$$

$$\dot{V} = \frac{3{,}5 - 2{,}0}{8} \cdot 2800 = 525$$

Actual air volume is 525 $m^3\ h^{-1}$



Searched for : actual air volume
Voltage measured on U_5 : 3,5 V

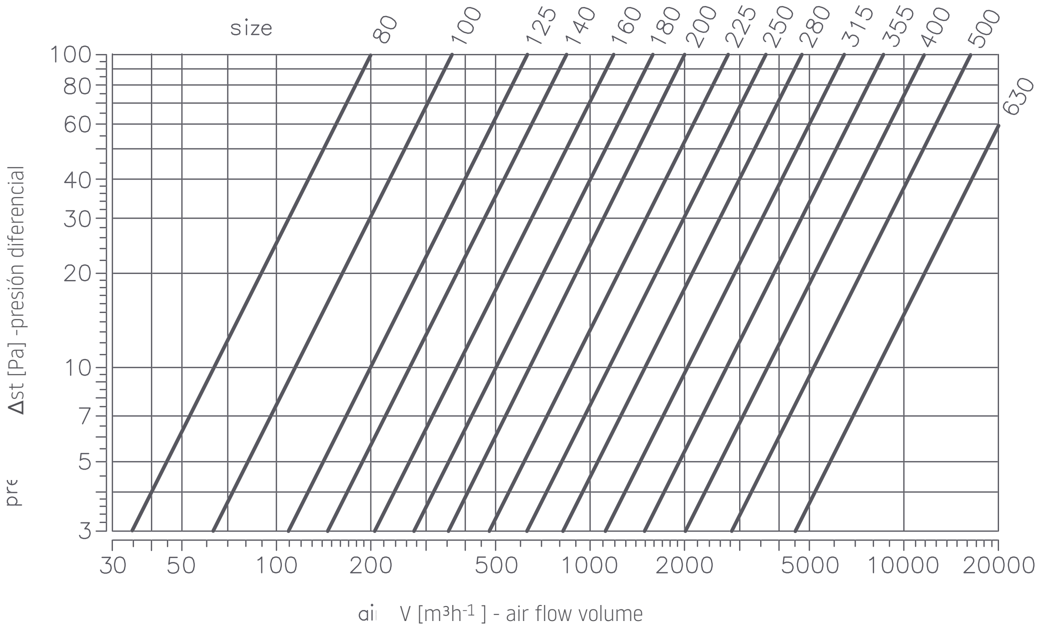
$$\dot{V}_{nom} = 2200\ m^3.h^{-1}$$

$$\dot{V} = \frac{3{,}5 \,.\, 2200}{10} = 770$$

Actual air volume is 770 $m^3\ h^{-1}$

Pressure losses

Pressure losses (the values are valid when the damper of the controller is completely open)



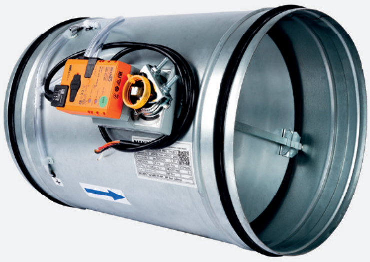
Noise data

Air-generated noise
The noise arising due to the flow of air volume controller is listed in the following tables

V [m^3h^{-1}] - air flow volume
Δst [Pa] - pressure differential
L_W [dB/Okt.] - level of acoustic power in the octave band

L_{WA} [dB(A)] - total level of acoustic power corrected by filter A
fm [Hz] - mean frequencies in the octave bands

RPM-V SERIES
TECHNICAL DATA



Sound power level inside the pipeline at pressure difference 50 Pa

$\Delta P_{st} = 50$ Pa

Size [mm]	V [m³/h]	L_W [dB/Okt] f_m [Hz] 63	125	250	500	1000	2000	4000	8000	L_{WA} [dB(A)]
80	18	40	31	31	25	28	24	18	7	32
	88	54	44	38	38	41	37	29	18	44
	154	59	49	43	43	46	43	35	23	49
	220	63	53	47	47	50	46	38	27	53
100	30	42	33	27	27	31	26	20	9	34
	140	58	49	45	45	43	39	39	22	48
	245	65	58	54	54	49	50	41	29	56
	350	69	63	59	59	51	53	42	31	60
125	45	44	34	28	28	31	28	20	10	34
	220	59	50	46	43	44	41	34	24	48
	385	64	56	52	48	47	43	40	28	52
	550	71	63	59	54	51	43	44	34	57
140	55	45	36	30	30	33	29	21	11	36
	280	61	52	49	45	43	40	36	25	49
	490	64	57	53	49	48	44	40	28	53
	700	72	64	60	55	52	48	45	35	58
160	70	48	39	32	32	36	32	23	14	39
	360	60	51	47	44	46	41	34	24	49
	630	66	58	54	50	49	45	41	30	54
	900	72	65	60	57	54	49	46	35	59
180	90	48	38	33	33	36	32	24	13	39
	480	60	51	47	45	45	42	35	24	49
	840	66	58	55	51	50	46	42	30	55
	1200	74	66	62	57	54	50	47	37	60
200	115	47	36	31	31	35	33	24	13	39
	560	60	51	47	45	46	42	35	24	49
	980	68	60	56	52	51	47	43	31	56
	1400	75	67	63	58	55	51	38	38	61
225	145	49	39	33	33	36	32	25	13	39
	720	60	51	47	45	46	42	35	24	49
	1260	68	60	56	52	51	47	43	32	56
	1800	75	67	63	59	56	52	49	38	61
250	180	48	36	32	32	34	31	23	12	38
	880	61	53	49	46	47	43	36	26	51
	1540	68	61	57	53	52	48	44	32	57
	2200	74	66	63	58	55	51	48	37	61
280	220	50	40	34	34	36	33	27	15	40
	1120	64	56	52	49	50	46	39	28	54
	1960	69	62	58	54	53	49	45	33	58
	2800	77	69	65	60	57	50	50	39	63
315	280	49	55	34	34	37	33	25	15	42
	1400	63	55	51	48	49	45	38	27	53
	2450	70	62	58	54	53	49	45	34	58
	3500	78	70	66	61	58	54	51	40	64
355	355	51	41	36	36	39	37	28	17	43
	1800	63	54	50	47	48	44	38	27	52
	3150	70	62	58	54	53	49	45	34	58
	4500	77	69	65	60	57	53	50	40	63
400	455	53	44	38	38	41	37	29	18	44
	2320	63	54	50	47	48	44	38	27	52
	4060	70	62	58	54	53	49	45	34	58
	5800	76	68	64	59	57	53	50	39	63
500	710	49	40	34	34	37	33	25	15	40
	4200	64	55	51	48	49	45	39	28	53
	6300	71	63	59	55	54	50	46	35	59
	8500	77	69	65	60	58	54	51	40	63
630	1120	52	44	38	38	41	37	30	20	44
	6700	66	57	53	50	51	47	40	30	55
	10000	73	65	61	57	56	52	48	37	61
	13500	78	70	66	62	60	56	53	42	65

RPM-V SERIES

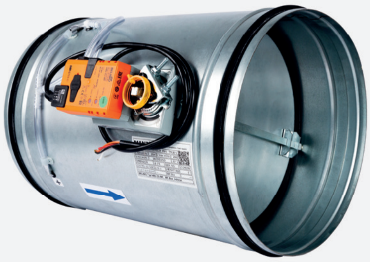
TECHNICAL DATA

Sound power level inside the pipeline at pressure difference 100 Pa

$\Delta P_{st} = 100$ Pa

Size [mm]	V [m³/h]	L_W [dB/Okt]								L_{WA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
80	18	46	36	30	30	34	29	21	9	37
	88	59	49	43	43	46	42	34	22	49
	154	64	54	48	48	51	47	39	27	54
	220	68	58	52	52	55	51	43	31	58
100	30	48	38	32	32	35	31	23	12	38
	140	63	54	50	50	48	44	37	26	52
	245	70	62	59	59	53	49	45	33	60
	350	73	66	64	64	55	51	47	35	64
125	45	49	39	33	33	37	32	24	13	40
	220	65	56	52	50	49	45	39	28	53
	385	69	61	57	53	52	48	44	32	57
	550	76	68	64	59	56	52	49	38	62
140	55	51	41	35	35	38	34	26	14	41
	280	65	56	52	49	50	46	39	28	54
	490	70	62	58	54	53	49	45	33	58
	700	77	69	65	60	57	53	50	39	63
160	70	54	44	38	38	41	37	30	17	44
	360	65	56	52	49	50	46	39	28	54
	630	71	63	59	55	54	50	46	34	59
	900	78	70	66	61	58	54	51	40	64
180	90	54	44	38	38	41	37	29	17	44
	480	66	57	53	50	51	47	40	29	55
	840	72	64	60	56	55	51	47	35	60
	1200	79	71	67	62	59	55	52	41	65
200	115	54	44	38	38	42	37	29	18	45
	560	66	57	53	50	51	47	40	29	55
	980	73	65	61	57	56	52	48	36	61
	1400	80	72	68	63	60	56	53	42	66
225	145	55	45	39	39	43	38	29	18	46
	720	66	57	53	50	51	47	40	29	55
	1260	73	65	61	57	56	52	48	36	61
	1800	80	72	68	63	60	56	53	42	66
250	180	52	43	37	37	41	36	28	16	44
	880	67	58	54	51	52	48	41	30	56
	1540	73	65	61	57	56	52	48	36	61
	2200	79	71	67	62	59	55	52	41	65
280	220	55	45	39	39	43	39	31	19	46
	1120	70	61	57	54	55	51	44	33	59
	1960	74	66	62	58	57	53	49	37	62
	2800	81	73	69	64	61	57	54	43	67
315	280	56	46	41	41	44	41	32	20	47
	1400	69	60	56	53	54	50	43	32	58
	2450	75	67	63	59	58	54	50	38	63
	3500	82	74	70	65	62	58	55	44	68
355	355	58	48	42	42	46	41	33	31	49
	1800	69	60	56	53	54	50	43	32	58
	3150	75	67	63	59	58	55	51	39	63
	4500	82	74	70	65	62	58	55	44	68
400	455	58	49	42	42	46	42	34	22	49
	2320	69	60	56	53	54	50	43	32	58
	4060	76	68	64	60	59	55	51	39	64
	5800	82	74	70	65	62	58	55	44	68
500	710	56	46	40	40	43	39	31	21	46
	4200	69	60	56	53	54	51	44	33	58
	6300	77	69	65	61	60	56	52	40	65
	8500	82	74	70	65	62	59	56	45	68
630	1120	60	49	44	44	45	43	35	23	49
	6700	72	63	59	56	57	53	46	35	61
	10000	79	71	67	63	62	58	54	42	67
	13500	85	77	73	68	65	61	58	47	71

RPM-V SERIES
TECHNICAL DATA



Sound power level inside the pipeline at pressure difference 250 Pa

ΔP_{st}= 250 Pa

Size [mm]	V [m³/h]	L_W [dB/Okt] f_m [Hz] 63	125	250	500	1000	2000	4000	8000	L_{WA} [dB(A)]
80	18	54	44	38	38	41	37	29	17	44
	88	67	57	51	51	54	50	42	30	57
	154	72	62	56	56	59	55	47	35	62
	220	76	66	60	60	63	59	51	39	66
100	30	56	46	41	41	43	40	32	20	47
	140	70	61	57	57	55	52	44	33	60
	245	77	69	65	66	61	55	52	40	67
	350	83	75	71	72	63	59	56	45	72
125	45	58	48	42	42	45	41	33	21	48
	220	70	61	58	55	56	51	45	34	60
	385	77	69	65	61	60	55	51	39	65
	550	83	75	71	65	62	58	55	44	69
140	55	60	50	44	44	48	44	35	23	51
	280	72	63	59	56	57	53	46	35	61
	490	77	69	65	61	60	56	52	40	65
	700	83	75	71	66	63	59	56	45	69
160	70	61	51	45	45	49	44	36	24	52
	360	73	64	60	57	58	54	47	36	62
	630	78	70	66	62	61	57	53	41	66
	900	84	76	72	67	64	60	57	46	70
180	90	63	53	47	47	50	45	37	25	53
	480	73	65	62	59	58	55	47	36	63
	840	78	71	67	63	62	57	53	41	67
	1200	84	77	74	69	65	61	57	46	72
200	115	63	53	47	47	51	46	38	26	54
	560	74	65	61	58	59	55	48	37	63
	980	79	72	68	64	63	58	54	42	68
	1400	85	77	73	69	65	61	58	47	72
225	145	64	54	48	48	51	49	40	28	55
	720	74	65	61	58	59	55	48	37	63
	1260	80	72	68	64	63	59	55	43	68
	1800	86	78	74	69	66	62	59	48	72
250	180	64	55	48	48	50	47	40	27	54
	880	74	65	61	58	59	55	48	37	63
	1540	80	72	68	64	63	59	55	43	68
	2200	86	78	74	69	66	62	59	48	72
280	220	65	55	49	49	53	48	41	29	56
	1120	76	67	63	60	61	56	49	38	65
	1960	81	73	69	65	64	60	56	44	69
	2800	87	79	75	70	67	63	60	49	73
315	280	66	57	50	50	53	51	43	30	57
	1400	76	67	63	60	61	57	50	39	65
	2450	82	74	70	66	65	61	57	45	70
	3500	88	80	76	71	68	64	61	50	74
355	355	67	57	51	51	54	52	43	31	58
	1800	77	68	64	61	62	58	51	40	66
	3150	82	75	71	67	67	62	57	45	71
	4500	88	80	76	71	68	64	61	50	74
400	455	70	60	54	54	58	53	45	33	61
	2320	77	69	65	62	63	59	51	40	67
	4060	82	75	71	67	66	62	57	45	71
	5800	88	80	76	71	68	64	61	50	74
500	710	66	56	50	50	53	49	42	30	56
	4200	79	70	66	63	64	60	53	42	68
	6300	84	76	73	69	68	63	59	47	73
	8500	90	82	78	73	70	66	63	52	76
630	1120	68	58	50	50	52	50	43	31	56
	6700	81	72	68	65	66	62	55	44	70
	10000	86	79	75	71	70	65	61	49	75
	13500	92	84	80	75	72	68	65	54	78

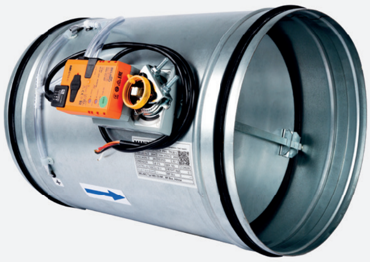
RPM-V SERIES
TECHNICAL DATA

Sound power level inside the pipeline at pressure difference 500 Pa

$\Delta P_{st} = 500$ Pa

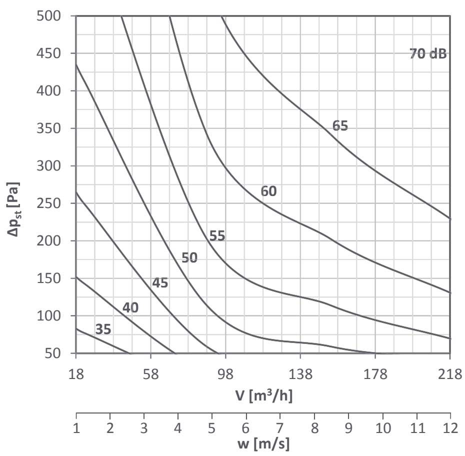
Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{WA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
80	18	61	51	45	45	48	46	37	25	52
	88	74	64	58	58	61	58	50	38	64
	154	79	70	63	63	66	62	54	42	69
	220	83	73	67	68	70	67	59	47	73
100	30	64	54	48	48	51	47	39	27	54
	140	77	68	64	64	62	58	51	40	66
	245	84	76	72	72	67	63	59	47	73
	350	90	82	78	78	70	66	63	52	78
125	45	66	54	50	50	54	50	41	29	57
	220	78	69	65	61	63	58	51	40	66
	385	83	75	71	67	66	63	59	47	71
	550	89	81	77	72	69	66	63	52	75
140	55	67	57	51	51	54	50	42	30	57
	280	79	70	66	63	64	60	53	42	68
	490	81	76	72	68	67	63	59	47	72
	700	89	81	77	72	69	65	62	51	75
160	70	69	59	53	53	56	52	44	32	59
	360	81	72	68	65	66	62	55	44	70
	630	86	78	74	70	69	65	61	49	74
	900	91	83	79	74	71	67	64	53	77
180	90	70	60	54	54	58	53	45	33	61
	480	81	72	68	65	66	62	55	44	70
	840	86	78	74	70	69	65	61	49	74
	1200	92	84	80	75	72	68	65	54	78
200	115	71	61	55	55	59	54	46	34	62
	560	81	72	68	65	66	62	55	44	70
	980	86	78	74	70	69	65	61	49	74
	1400	92	84	80	75	72	68	65	54	78
225	145	72	62	56	56	60	55	47	35	63
	720	81	72	68	65	66	62	55	44	70
	1260	86	78	74	70	69	65	61	49	74
	1800	91	83	79	74	71	67	64	53	77
250	180	72	62	56	56	59	55	47	35	62
	880	80	71	67	64	65	61	54	43	69
	1540	85	77	73	69	68	64	60	48	73
	2200	91	83	79	74	71	67	64	53	77
280	220	73	64	58	58	60	57	49	37	64
	1120	82	73	68	67	66	63	56	45	71
	1960	86	78	74	70	69	65	61	49	74
	2800	92	84	80	75	72	68	65	54	78
315	280	75	65	59	59	63	58	50	38	66
	1400	83	74	70	67	68	65	58	47	72
	2450	87	80	76	72	71	66	63	50	76
	3500	93	85	81	76	73	69	66	55	79
355	355	77	67	61	61	65	60	52	50	68
	1800	85	76	72	69	70	66	59	48	74
	3150	90	82	78	74	73	69	65	53	78
	4500	94	86	82	77	74	70	67	56	80
400	455	79	69	63	63	66	61	53	41	69
	2320	86	77	73	70	71	67	60	49	75
	4060	90	82	78	74	73	69	65	53	78
	5800	94	86	82	77	74	70	67	56	80
500	710	78	67	60	60	63	60	53	41	66
	4200	88	79	75	72	73	69	62	51	77
	6300	92	84	80	76	75	71	67	55	80
	8500	96	88	84	79	76	72	69	58	82
630	1120	80	70	65	65	68	63	55	43	71
	6700	90	81	77	74	75	71	64	53	79
	10000	94	86	82	78	77	73	69	57	82
	13500	98	90	86	81	78	74	71	60	84

RPM-V SERIES
TECHNICAL DATA

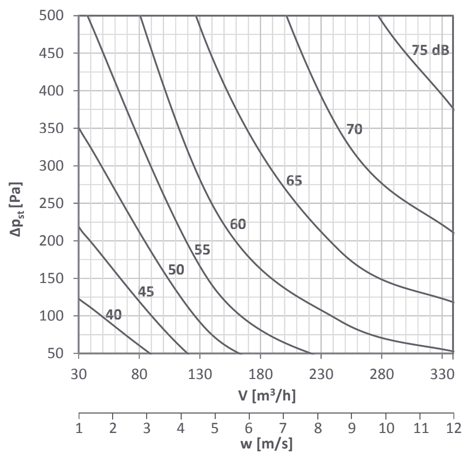


Sound power level L_{WA} [dB (A)] inside the pipeline

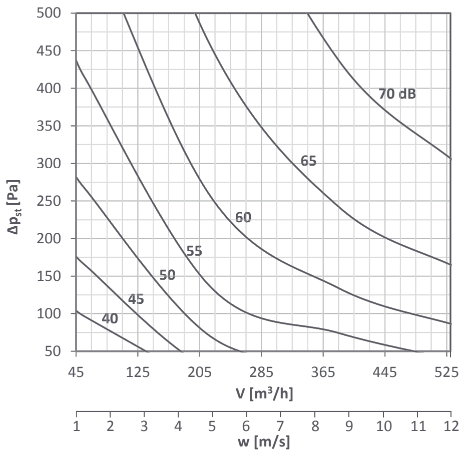
ø 80



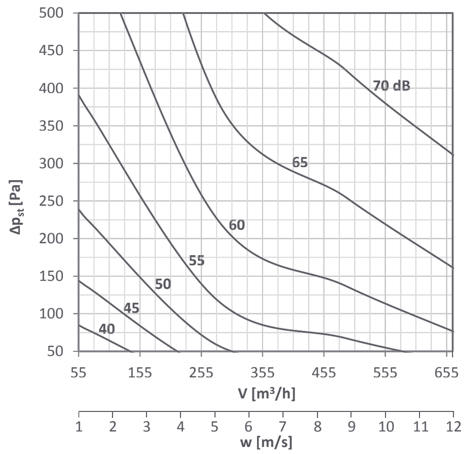
ø 100



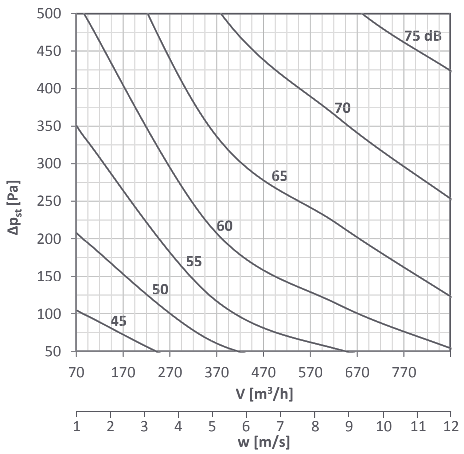
ø 125



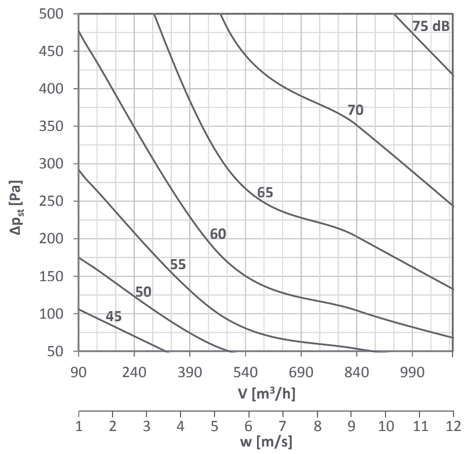
ø 160



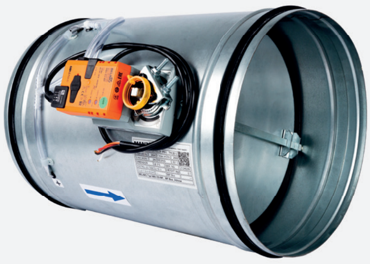
ø 200



ø 250

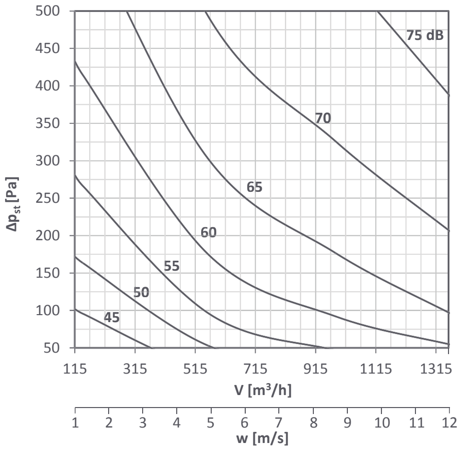


RPM-V SERIES
TECHNICAL DATA

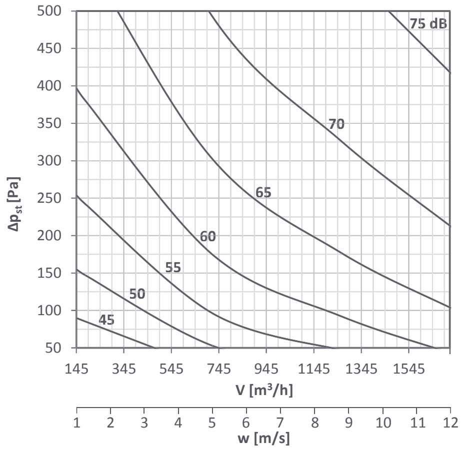


Sound power level L_{WA} [dB (A)] inside the pipeline

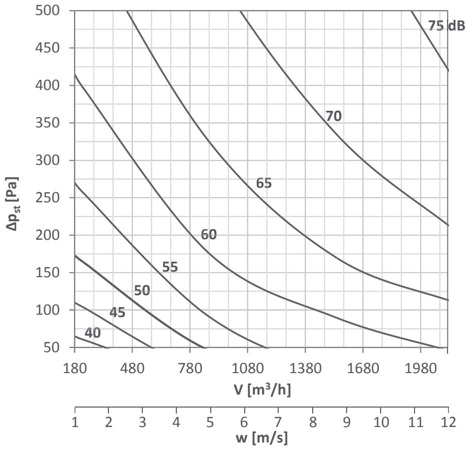
ø 200



ø 225



ø 250



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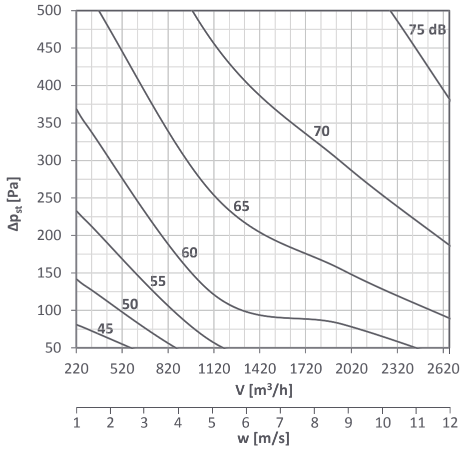
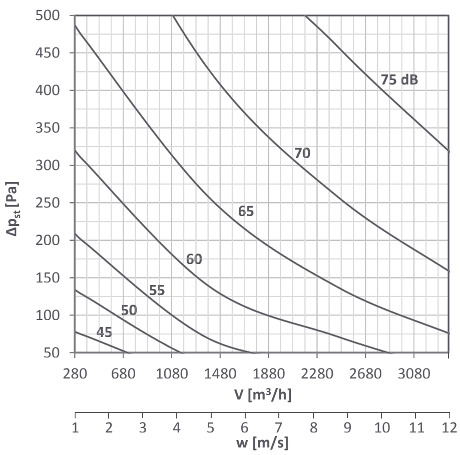
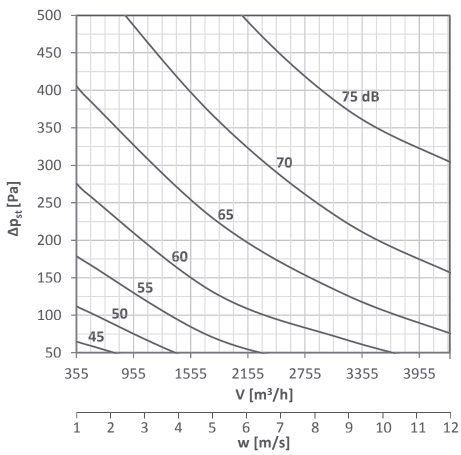


ø 315



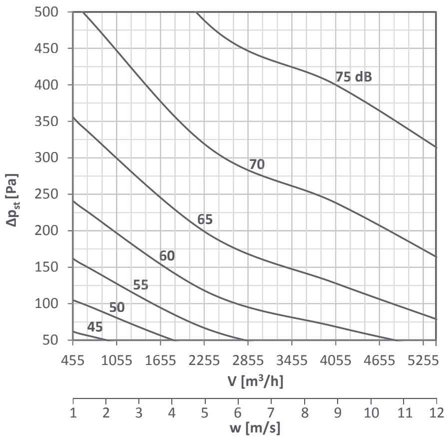
ø 355



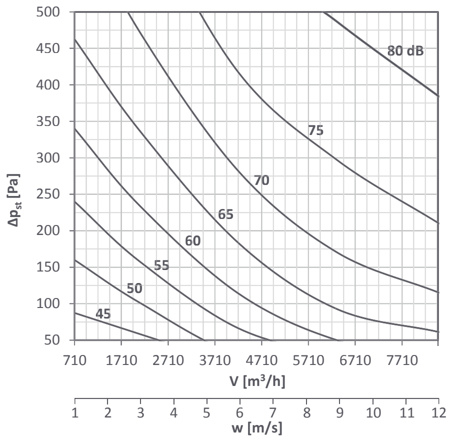
RPM-V SERIES
TECHNICAL DATA

Sound power level L_{WA} [dB (A)] inside the pipeline

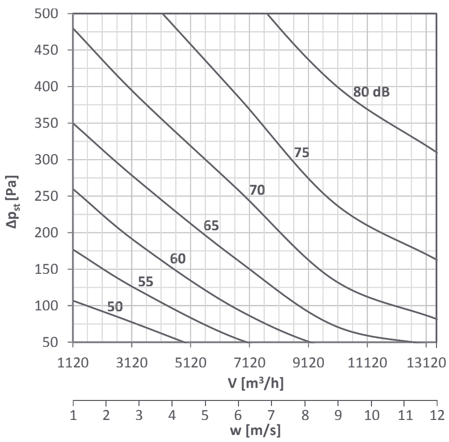
ø 400



ø 500

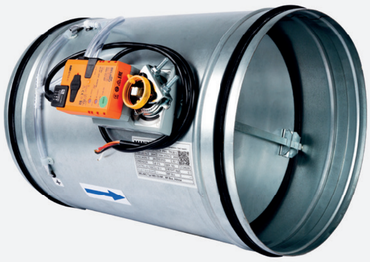


ø 630



RPM-V SERIES

TECHNICAL DATA



Sound power level radiated outside the pipeline - without insulation

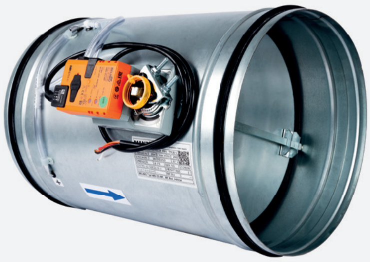
The radiated noise of the air volume controller is given below

V [m³h⁻¹] - air flow volume
Δst [Pa] - pressure differential

L_{WA} [dB(A)] - otal level of acoustic power corrected by filter A

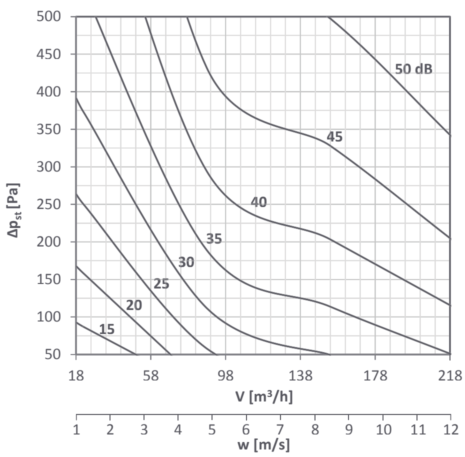
Size [mm]	V [m³/h]	L_{WA} [dB(A)] ΔP_{st}= 50 Pa	L_{WA} [dB(A)] ΔP_{st}= 100 Pa	L_{WA} [dB(A)] ΔP_{st}= 250 Pa	L_{WA} [dB(A)] ΔP_{st}= 500 Pa
80	18	12	16	24	33
	88	24	29	38	47
	154	30	34	42	50
	220	35	39	47	54
100	30	14	18	27	37
	140	26	31	39	47
	245	33	38	45	52
	350	36	41	48	55
125	45	15	19	28	38
	220	27	33	41	49
	385	33	38	45	52
	550	37	42	49	56
140	55	18	23	31	39
	280	29	34	42	50
	490	34	39	46	53
	700	39	44	50	56
160	70	21	26	33	42
	360	30	35	43	51
	630	34	39	47	54
	900	39	44	51	57
180	90	21	25	33	42
	480	31	36	44	52
	840	35	40	48	56
	1200	40	45	52	59
200	115	22	27	34	43
	560	31	36	44	52
	980	35	40	48	55
	1400	41	45	52	58
225	145	23	28	38	46
	720	33	38	46	53
	1260	37	42	49	56
	1800	42	46	53	59
250	180	25	30	39	47
	880	36	40	47	53
	1540	40	44	51	57
	2200	44	48	54	60
280	220	28	33	43	51
	1120	37	42	50	56
	1960	42	46	54	60
	2800	45	50	57	63
315	280	30	34	44	53
	1400	39	44	52	59
	2450	44	48	56	62
	3500	47	51	59	65
355	355	29	34	44	54
	1800	39	44	52	60
	3150	44	49	56	63
	4500	48	53	60	66
400	455	30	36	46	54
	2320	38	44	53	61
	4060	44	49	57	64
	5800	50	54	61	67
500	710	31	36	47	55
	4200	45	50	59	66
	6300	51	56	64	70
	8400	55	60	67	73
630	1120	40	44	52	60
	6700	52	57	64	70
	10000	56	61	68	74
	13300	59	64	71	77

RPM-V SERIES
TECHNICAL DATA

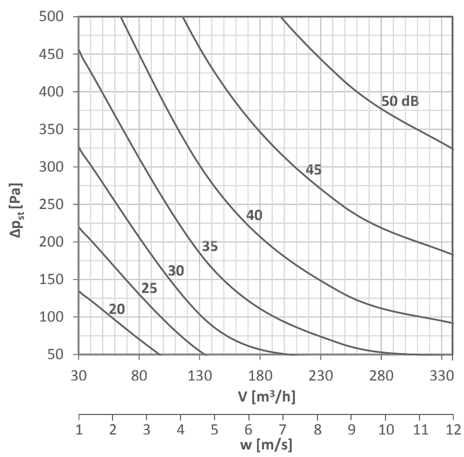


Sound power level L_{WA} [dB(A)] radiated outside the pipeline, without insulation

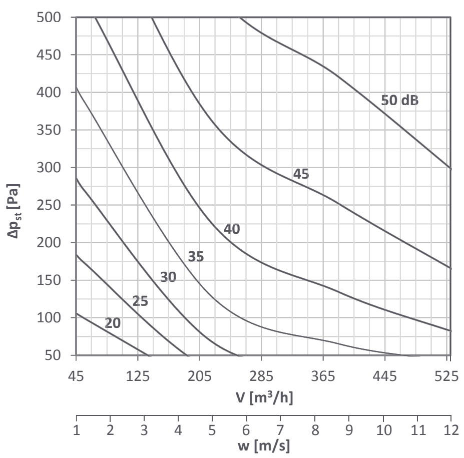
ø 80



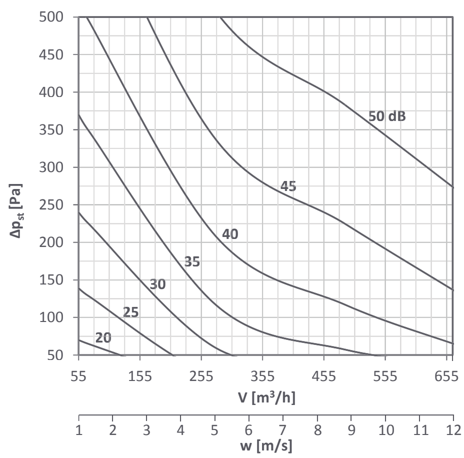
ø 100



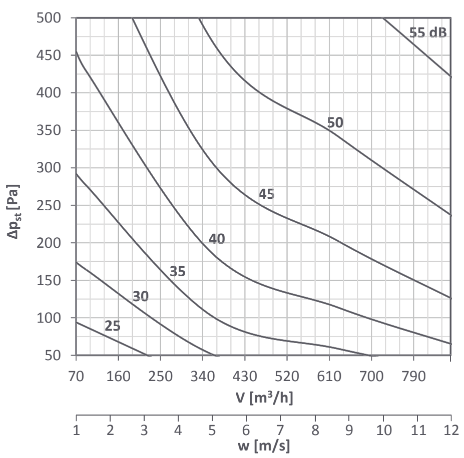
ø 125



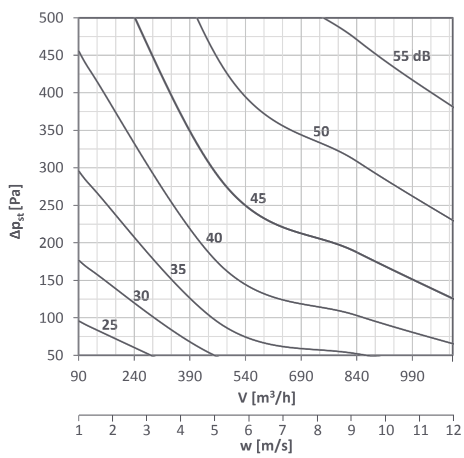
ø 160



ø 200

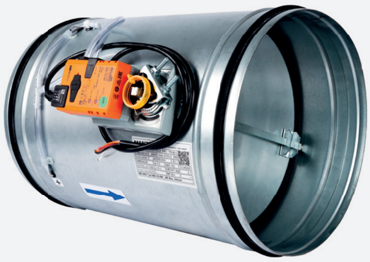


ø 250



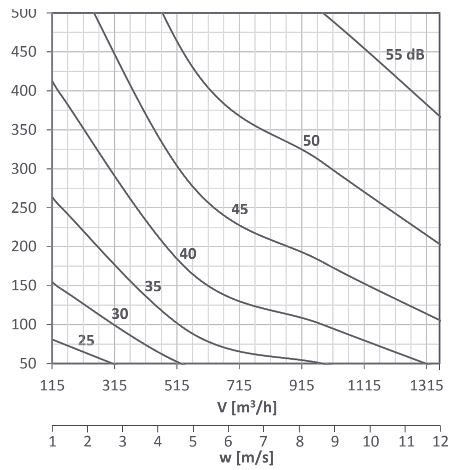
RPM-V SERIES

TECHNICAL DATA

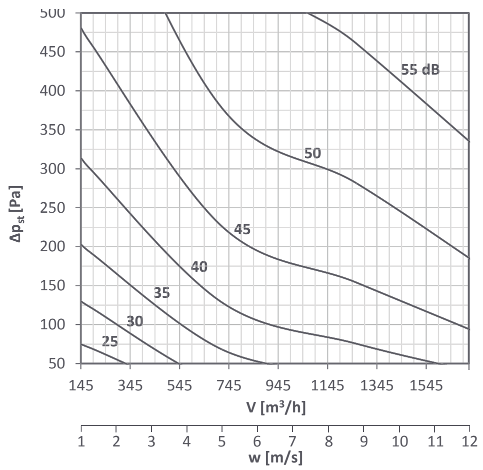


Sound power level L_{WA} [dB(A)] radiated outside the pipeline, without insulation

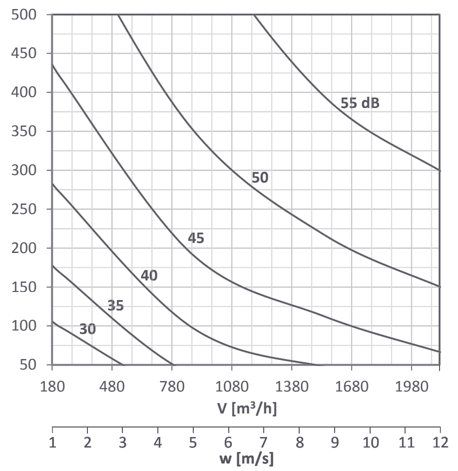
ø 200



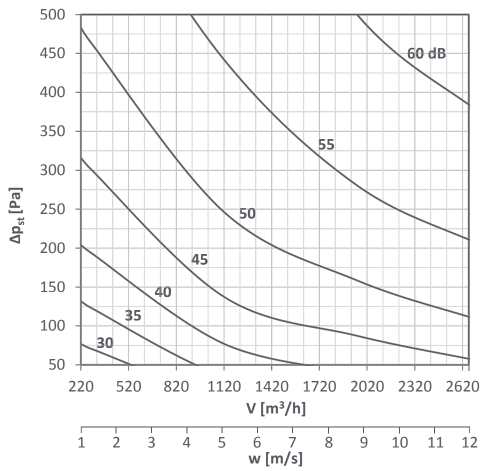
ø 225



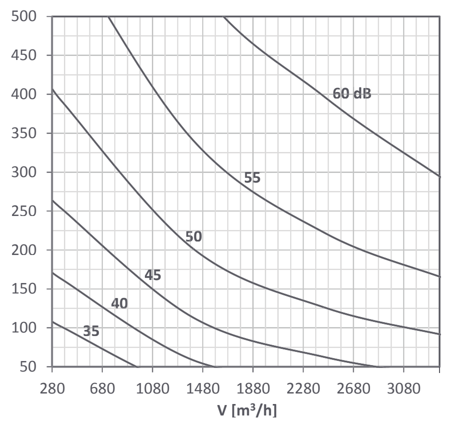
ø 250



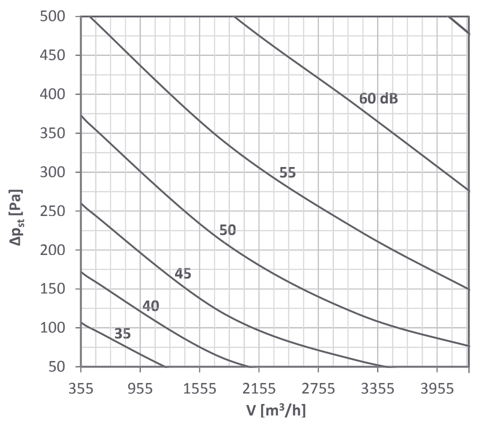
ø 280



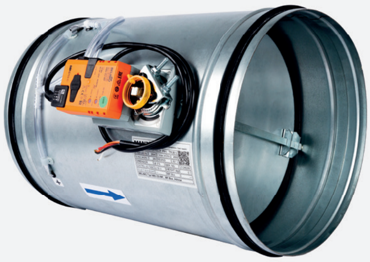
ø 315



ø 355

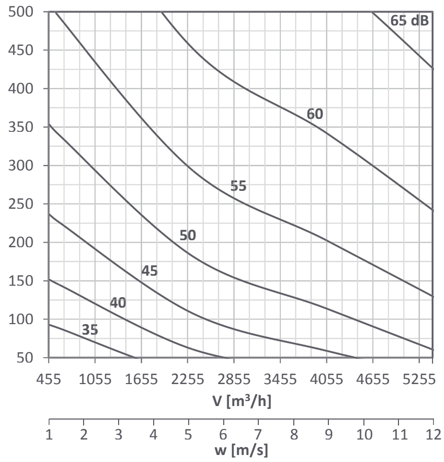


RPM-V SERIES
TECHNICAL DATA

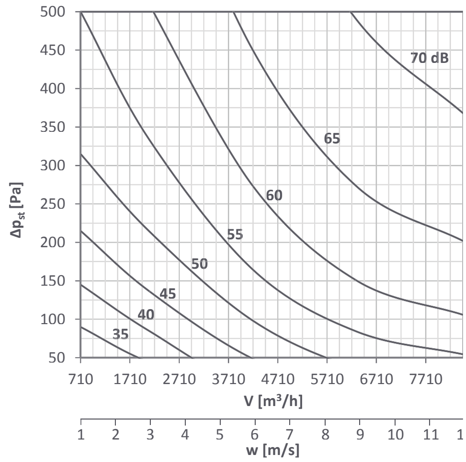


Sound power level L_{wa} [dB(A)] radiated outside the pipeline, without insulation

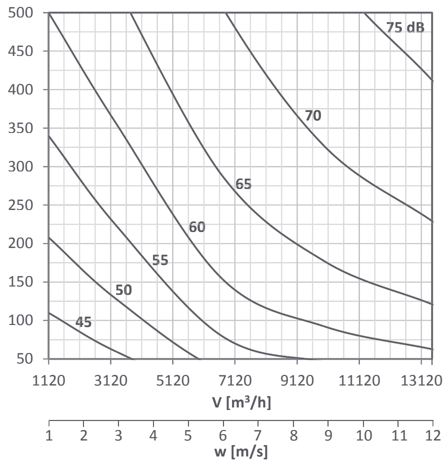
ø 400



ø 500

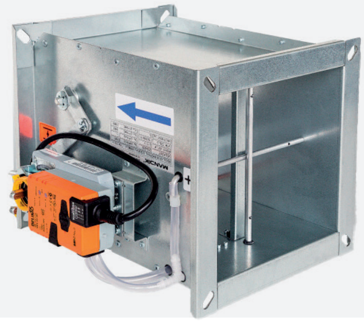


ø 630



RPMC-V SERIES

VARIABLE FLOW DAMPER



Model RPMC-V. The air volume controllers are meant for systems with a variable air volume that is used for input or output air. The required amount of air that is taken into the individual rooms or working areas is variable with respect to time and can be changed according to momentary need when the controllers are installed. Total power of air-conditioning system can be lower. This variable systems enable a more economical operation air-conditioning systems and while ensuring individual well-being on the premises setting. The controller consists of the body of the controller with a control blades and pressure probes for determining the through-flow of air. An compact controller is affixed to the body for controlling the control blades.

Characteristics:

- Type of regulation:
  - air flow control
  - duct pressure control room pressure control
- Nominal size 200x100 ÷ 1000x1000
- Length L = 300 mm
- Tightness according to EN 1751 External casing leakage class C
- Internal leakage class 3
- Air flow volume 70 ÷ 26 000 m³/h (for 12m/s it is a maximum air flow volume of 43 000 m³/h*)
- Accuracy ± 8 % for velocity up to 3 m/s and ± 5 % for higher velocity.
- Air velocity Standard setting is in the range of min. 1 m/s to 7 m/s per Belimo.

Working conditions:

- The faultless functioning of the controllers is ensured under the following conditions:
  - a) maximum speed of air flow 7 m/s
  - b) maximum pressure in the duct 1000 Pa
  - c) the air circulation in the whole controller section must be secured as steady on whole surface - see point 4.1.
- Controllers are designed for macroclimatic areas with mild climate according to EN 60 721-3-3.
- Controllers are suitable for systems without abrasive, chemical and adhesive particles.
- Temperature in the place of installation is permitted to range from 0°C to +50°C.
- The controllers are supplied without insulation or in an insulated design. Insulation thickness is 40 mm.

Modelo:

RPMC-V.01 PFor control with 0(2)...10 V signal or MP-BUS protocol.

RPMC-V.02 For control with signal 0(2)...10 V or using Modbus RTU, BACnet or MP-BUS protocol

Optional:

RPMC-V.75

RPMC-V.78

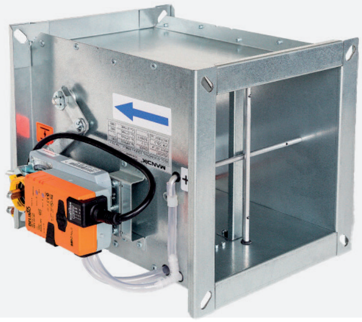
RPMC-V.91

RPMC-V.92

* see model descriptions in table.

*

Air flow	compact solution (sensor, controller and actuator in one box)	Dynamic	Analog MPBus	LMV-D3-MP (5 N.m, NMV-D3-MP 10 N.m, SMV-D3-MP 20 N.m)	0...500Pa	.01
			MODBUS BACnet MPBus	LMV-D3-MOD (5 N.m, NMV-D3-MOD 10 N.m, SMV-D3-MOD 20 N.m)	0...500Pa	.02
Pressure	sensor, controller and actuator all in separate boxes	Static	Analog MP-Bus	Controlador VRU-M1-BAC (STP) + LM24A-VST (5 N.m., NM24A-VST 10 N.m, SM24A-VST 20 N.m)	0...600 Pa	.75
			ModBus	Controlador VRU-M1-BAC (STP) + LM24A-VST (5 N.m., NM24A-VST 10 N.m, SM24A-VST 20 N.m)	0...600 Pa	.78
Pressure in the room	sensor, controller and actuator all in separate boxes	Static	BACnet	Controlador VRU-M1R-BAC (STP) + LM24A-VST (5 N.m., NM24A-VST 10 N.m, SM24A-VST 20 N.m)	-75...+75	.91
			ModBus BACnet	Controlador VRU-M1R-BAC (STP) + LM24A-VST (5 N.m., NM24A-VST 10 N.m, SM24A-VST 20 N.m)	-75...+75	.92



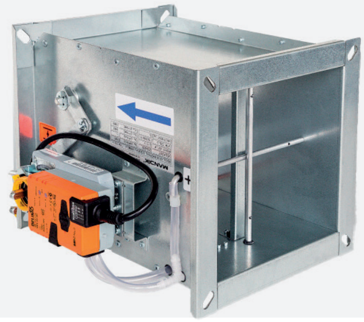
RPMC-V SERIES
VARIABLE FLOW DAMPER

Air Volume

Dimensions AxB [mm]	Air Volume [m³/h]					
	Standard values*			Maximum values		
	Minimal (w ≈ 1m/s)	Maximal (w ≈ 7m/s)	V_{nom}	Minimal (w ≈ 1m/s)	Maximal (w ≈ 12m/s)	V_{nom}
200x100	70	500	500	70	900	900
x200	145	1000	1000	145	1800	1800
300x100	110	750	750	110	1300	1300
x200	215	1500	1500	215	2600	2600
x300	325	2300	2300	325	3900	3900
400x100	145	1000	1000	145	1800	1800
x200	290	2000	2000	290	3500	3500
x300	430	3100	3100	430	5200	5200
x400	580	4100	4100	580	7000	7000
500x100	180	1250	1250	180	2200	2200
x200	360	2500	2500	360	4400	4400
x300	540	3800	3800	540	6500	6500
x400	720	5100	5100	720	8700	8700
x500	900	6400	6400	900	11000	11000
600x100	215	1500	1500	215	2600	2600
x200	430	3100	3100	430	5200	5200
x300	650	4600	4600	650	7800	7800
x400	865	6200	6200	865	10500	10500
x500	1080	7700	7700	1080	13000	13000
x600	1300	9200	9200	1300	16000	16000
700x200	500	3600	3600	500	6000	6000
x300	800	5400	5400	800	9000	9000
x400	1000	7200	7200	1000	12000	12000
x500	1250	9000	9000	1250	15000	15000
800x200	580	4100	4100	580	7000	7000
x300	870	6200	6200	870	10500	10500
x400	1150	8200	8200	1150	14000	14000
x500	1450	10500	10500	1450	17500	17500
x600	1730	12500	12500	1730	21000	21000
x800	2300	16500	16500	2300	28000	28000
900x300	980	6900	6900	980	12000	12000
x400	1300	9200	9200	1300	16000	16000
x500	1620	12000	12000	1620	20000	20000
1000x300	1080	7700	7700	1080	13000	13000
x400	1440	10500	10500	1440	17500	17500
x500	1800	13000	13000	1800	22000	22000
x600	2160	15500	15500	2160	26000	26000
x800	2880	21000	21000	2880	35000	35000
x1000	3600	26000	26000	3600	43000	43000

*Default controller settings

RPMC-V SERIES
TECHNICAL DATA



Determination of actual air volume

Air volume value is determined by means of the computation from the measured value U_5

Sample for the operating mode 2...10V

$$\dot{V} = \frac{U_5 - 2{,}0}{8} \cdot \dot{V}_{nom}$$

Sample for the operating mode 0...10V

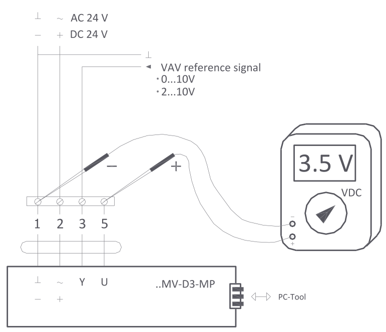
$$\dot{V} = \frac{U_5 \, . \, \dot{V}_{nom}}{10}$$

Searched for : actual air volume
Voltage measured on U_5 : 3,5 V

$$\dot{V}_{nom} = 2800 \ m^3.h^{-1}$$

$$\dot{V} = \frac{3{,}5 - 2{,}0}{8} \cdot 2800 = 525$$

Actual air volume is 525 m³ h-1



Searched for : actual air volume
Voltage measured on U_5 : 3,5 V

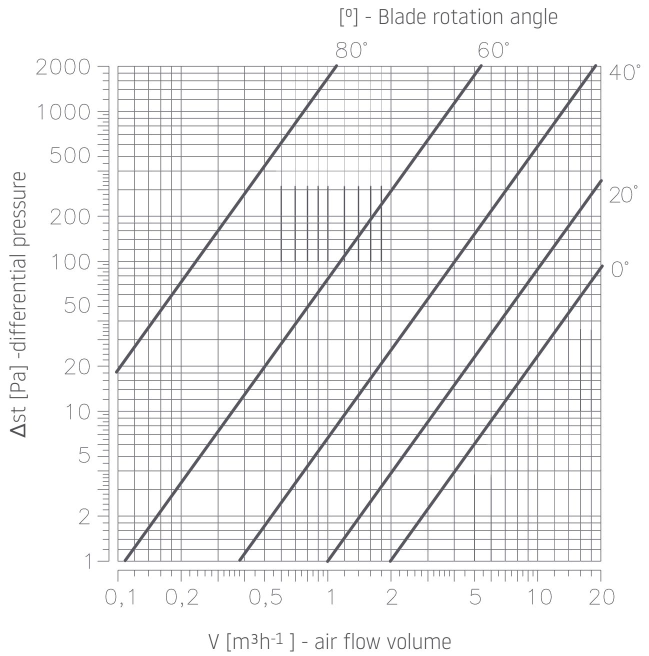
$$\dot{V}_{nom} = 2200 \ m^3.h^{-1}$$

$$\dot{V} = \frac{3{,}5 \, . \, 2200}{10} = 770$$

Actual air volume is 770 m³ h-1

Pressure losses

Determination of pressure loss using p=1.2kg.m³ diagram

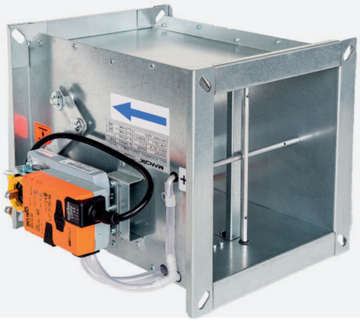


Noise data

Air-generated noise
The noise arising due to the flow of air volume controller is listed in the following tables

V [m³h-1] - air flow volume
Δst [Pa] - pressure differential
L_W [dB/Okt.] - level of acoustic power in the octave band
L_{WA} [dB(A)] - total level of acoustic power corrected by filter A
fm [Hz] - mean frequencies in the octave bands

RPMC-V SERIES
TECHNICAL DATA



Sound power level inside the pipeline at pressure difference 50 Pa

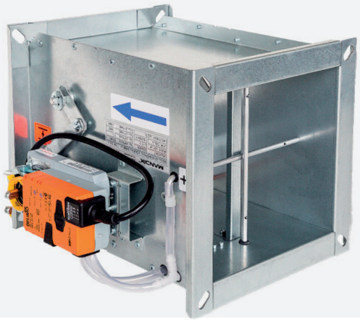
$\Delta P_{st} = 50$ Pa

Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{wA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
200x100	90	44	43	39	39	39	40	43	37	47
	360	44	43	41	40	34	41	43	38	48
	630	45	47	48	47	47	45	47	39	52
	900	51	50	51	52	52	51	50	44	57
200x200	180	47	47	42	42	42	43	43	40	50
	720	46	45	43	42	41	43	43	40	50
	1260	46	48	49	48	48	46	46	40	53
	1800	51	50	51	52	52	51	51	43	57
300x100	130	44	43	39	39	39	40	40	38	47
	520	45	45	43	42	42	43	43	40	49
	910	45	47	48	47	47	45	45	40	52
	1300	50	49	50	51	51	50	50	43	56
300x200	260	46	45	41	41	42	42	42	39	49
	1040	46	45	44	43	43	44	44	41	50
	1820	48	50	51	50	50	48	48	42	58
	2600	52	51	52	53	53	52	52	44	58
300x300	390	46	45	41	41	41	42	42	39	49
	1560	46	45	43	42	41	43	43	40	49
	2730	47	49	50	49	51	47	47	41	54
	3900	53	52	53	54	54	53	53	45	59
400x100	180	45	44	40	40	40	41	41	38	48
	720	46	45	43	42	41	43	43	40	49
	1260	46	48	49	48	48	46	46	40	53
	1800	52	51	52	53	53	52	52	44	58
400x200	350	46	45	41	41	41	42	42	39	49
	1400	47	46	44	43	42	44	44	41	50
	2450	48	50	51	50	50	48	48	42	55
	3500	52	51	52	53	53	52	52	44	58
400x300	520	45	44	40	46	40	41	41	38	47
	2080	47	46	44	43	42	44	44	41	51
	3640	48	50	51	50	50	48	48	42	55
	5200	54	53	54	55	55	54	54	46	60
400x400	700	50	49	45	45	45	46	46	43	53
	2800	52	51	49	48	47	49	49	46	56
	4900	53	55	56	55	55	53	53	47	60
	7000	60	59	61	61	61	60	60	52	66
500x100	220	47	46	42	42	42	43	43	40	50
	880	47	46	44	43	42	44	44	51	51
	1540	47	49	60	49	49	47	47	41	54
	2200	52	51	52	53	53	52	52	44	58
500x200	440	45	44	41	41	41	42	42	39	48
	1760	47	46	44	43	42	44	44	41	51
	3080	48	50	51	50	50	48	48	42	55
	4400	54	53	54	55	55	54	54	46	60
500x300	650	54	44	40	40	40	41	41	38	48
	2600	46	45	43	42	42	43	43	40	50
	4550	47	48	48	47	47	47	47	42	53
	6500	54	53	53	53	53	53	53	47	59
500x400	870	46	45	42	41	41	42	42	39	49
	3480	47	46	44	43	42	44	44	41	51
	6090	47	49	50	49	49	47	47	41	54
	8700	55	54	55	56	56	55	55	47	61

*Default controller settings

RPMC-V SERIES

TECHNICAL DATA



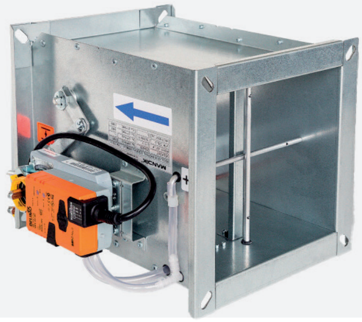
Sound power level inside the pipeline at pressure difference 50 Pa

ΔP_{st}= 50 Pa

Size [mm]	V [m³/h]	L_W [dB/Okt]								L_{WA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
500x500	1100	47	46	42	42	42	43	43	40	50
	4400	49	48	46	45	44	46	46	43	53
	7700	50	52	51	51	51	50	50	45	57
	11000	58	58	57	57	57	57	57	51	63
600x100	260	46	45	41	41	41	42	42	39	49
	1040	46	45	44	43	42	44	44	41	50
	1820	48	50	51	50	50	48	48	42	55
	2600	52	51	52	53	53	52	52	44	58
600x200	520	46	45	41	41	41	42	42	39	49
	2080	47	47	45	44	43	45	45	42	51
	3640	48	50	52	51	51	48	48	41	55
	5200	54	53	54	55	55	55	54	46	60
600x300	780	46	45	42	42	42	43	43	40	49
	3120	48	47	46	45	44	46	46	43	52
	5460	49	51	52	51	51	49	49	43	56
	7800	55	54	55	56	56	55	55	47	61
600x400	1050	46	45	41	41	41	42	42	39	49
	4200	48	47	45	44	43	45	45	42	52
	7350	48	50	51	50	50	48	48	43	55
	10500	55	54	55	56	56	55	55	47	61
600x500	1300	50	49	45	45	45	46	46	43	53
	5200	54	53	51	39	49	51	51	48	58
	9100	54	56	57	56	56	54	54	48	60
	13000	61	60	61	62	62	61	61	53	67
600x600	160	51	50	46	46	46	47	47	44	54
	5440	53	52	50	49	48	50	50	47	57
	10720	58	58	58	57	57	55	55	49	62
	16000	62	61	62	63	62	62	62	54	68
700x200	600	45	44	40	40	40	41	41	38	48
	2400	48	47	46	45	44	46	46	43	52
	4200	49	51	52	51	51	49	49	43	56
	6000	55	54	55	56	56	55	55	47	60
700x300	900	46	45	41	41	41	42	42	39	49
	3600	48	47	71	44	43	45	45	42	52
	6300	49	50	51	50	50	49	49	43	55
	9000	55	54	55	56	56	55	55	47	61
700x400	1200	46	45	41	41	40	42	42	39	49
	4800	49	48	47	46	44	47	47	44	53
	8400	49	51	52	51	51	49	49	44	56
	12000	57	56	57	58	58	57	57	49	62
700x500	1500	51	50	46	46	45	47	47	44	54
	6000	55	54	52	51	49	52	52	49	59
	10500	55	57	58	57	57	55	55	49	62
	15000	63	62	63	64	64	63	63	55	69
800x200	700	49	48	44	44	44	45	45	42	52
	2800	52	51	49	48	46	49	49	46	56
	4900	53	55	55	54	54	53	53	47	60
	7000	59	58	58	58	58	58	58	51	64
800x300	1050	46	45	41	41	41	42	42	39	49
	4200	48	48	46	45	43	46	46	43	52
	7350	48	50	52	51	50	48	48	42	55
	10500	55	54	55	56	56	56	56	46	61

RPMC-V SERIES

TECHNICAL DATA



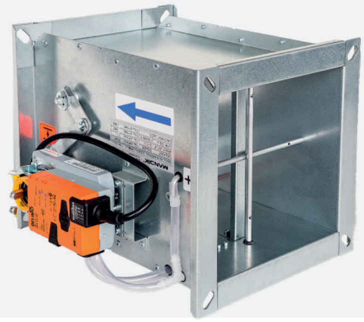
Sound power level inside the pipeline at pressure difference 50 Pa

$\Delta P_{st} = 50$ Pa

Size [mm]	V [m³/h]	L_W [dB/Okt] f_m [Hz] 63	125	250	500	1000	2000	4000	8000	L_{WA} [dB(A)]
800x400	1400	46	45	41	41	40	42	42	39	49
	5600	49	48	46	45	43	46	46	43	53
	9800	50	52	53	52	52	50	50	45	57
	14000	57	56	57	58	57	57	57	49	63
800x500	1750	51	50	46	46	46	47	47	44	54
	7000	55	54	52	51	50	52	52	49	59
	12250	56	58	59	58	58	56	56	50	62
	17500	63	62	63	64	64	63	63	55	69
800x600	2100	51	50	47	47	47	48	48	45	54
	8400	56	55	53	52	51	53	53	50	60
	14700	56	58	59	58	58	56	56	50	63
	21000	64	63	64	65	65	64	64	56	70
800x800	2800	52	51	47	47	47	48	48	45	55
	11200	57	56	54	53	52	54	54	51	60
	19600	58	57	60	59	59	58	58	52	64
	28000	66	65	66	67	67	66	66	58	72
900x300	1200	51	50	46	46	46	47	47	44	54
	4800	54	53	51	50	49	51	51	48	58
	8400	55	57	57	57	57	55	55	49	61
	12000	61	60	61	62	62	61	61	53	67
900x400	1600	52	51	47	47	47	48	48	45	55
	6400	55	54	52	51	50	52	52	49	59
	11200	56	57	58	57	57	56	56	50	62
	16000	62	61	62	63	63	62	62	54	68
900x500	2000	52	51	47	47	47	48	48	45	55
	8000	56	55	53	52	51	53	53	50	60
	14000	57	58	59	58	58	57	57	51	63
	20000	64	63	64	65	65	64	64	56	70
1000x300	1300	51	50	46	46	46	47	47	44	54
	5200	54	53	51	50	49	51	51	48	58
	9100	54	56	57	56	56	54	54	48	61
	13000	62	61	62	63	63	62	62	54	68
1000x400	1750	52	51	47	47	47	48	48	45	55
	7000	54	53	51	50	49	51	51	48	58
	12250	56	58	59	58	58	56	56	50	63
	17500	63	62	63	64	64	63	63	55	69
1000x500	2200	50	49	45	45	45	46	46	43	53
	8800	56	55	53	52	51	53	53	50	60
	15400	57	59	60	59	59	57	57	51	63
	22000	64	63	64	65	65	64	64	56	70
1000x600	2600	53	52	48	48	48	49	49	46	56
	10400	57	56	54	53	52	54	54	51	60
	18200	57	59	60	59	59	57	57	51	63
	26000	65	64	65	66	66	65	65	57	71
1000x800	3500	54	53	49	49	49	50	50	47	57
	14000	58	57	55	54	53	55	55	52	61
	24500	59	60	61	60	60	59	59	53	65
	35000	67	66	67	68	68	67	67	59	73
1000x1000	4300	54	53	49	49	49	50	50	47	57
	17200	59	58	56	55	54	56	56	53	62
	30100	59	61	62	61	61	59	59	53	66
	43000	67	66	67	68	68	67	67	59	73

*Default controller settings

RPMC-V SERIES
TECHNICAL DATA

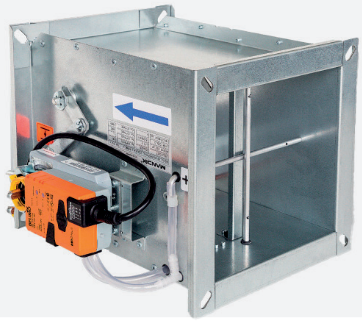


Sound power level inside the pipeline at pressure difference 100 Pa

$\Delta P_{st} = 100$ Pa

Size [mm]	V [m³/h]	L_W [dB/Okt]								L_{WA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
200x100	90	48	47	43	43	43	44	47	41	51
	360	49	48	46	45	44	46	48	43	53
	630	50	52	53	52	52	50	52	44	57
	900	56	55	56	57	57	56	55	48	62
200x200	180	50	49	45	45	45	46	46	43	53
	720	51	50	48	47	46	48	48	45	55
	1260	51	53	54	53	53	51	51	45	58
	1800	56	55	56	57	57	56	56	48	62
300x100	130	49	48	44	44	44	45	45	42	52
	520	51	50	48	47	46	48	48	45	55
	910	51	53	54	53	53	51	51	45	58
	1300	56	55	56	57	57	56	56	48	62
300x200	260	50	49	45	45	45	46	46	43	53
	1040	52	51	49	48	47	49	49	46	56
	1820	53	55	56	55	55	53	53	47	60
	2600	57	56	57	58	58	57	57	49	63
300x300	390	50	49	45	45	45	46	46	43	53
	1560	51	50	48	47	46	48	48	45	55
	2730	52	54	55	54	54	52	52	46	59
	3900	58	57	58	59	59	58	58	50	64
400x100	180	49	48	44	44	44	45	45	42	52
	720	51	50	48	47	46	48	48	45	55
	1260	51	53	54	53	53	51	51	45	58
	1800	56	55	56	57	57	56	56	48	62
400x200	350	50	49	45	45	45	46	46	43	53
	1400	52	51	49	48	47	49	49	46	56
	2450	53	55	56	55	55	53	53	47	60
	3500	59	58	59	60	60	59	59	51	65
400x300	520	50	49	45	45	45	46	46	43	53
	2080	53	52	50	49	48	50	50	47	57
	3640	53	55	56	55	55	53	53	47	60
	5200	59	58	59	60	60	59	59	51	65
400x400	700	55	54	50	50	50	51	51	48	58
	2800	58	57	55	54	53	55	55	52	62
	4900	59	61	62	61	61	59	59	53	66
	7000	65	64	65	66	66	65	65	57	71
500x100	220	49	48	44	44	44	45	45	42	52
	880	51	50	48	47	46	48	48	45	55
	1540	51	53	54	53	53	51	51	45	58
	2200	56	55	56	57	57	56	56	48	62
500x200	440	49	48	44	44	44	45	45	42	52
	1760	52	51	49	48	47	49	49	46	56
	3080	53	55	56	55	55	53	53	47	60
	4400	59	58	59	60	60	59	59	51	65
500x300	650	49	48	44	44	44	45	45	42	52
	2600	52	51	49	48	47	49	49	46	56
	4550	52	54	55	54	54	52	52	46	59
	6500	59	58	59	60	60	59	59	51	65
500x400	870	51	50	46	46	46	47	47	44	54
	3480	53	52	50	49	48	50	50	47	57
	6090	53	55	56	55	55	53	53	47	60
	8700	60	59	60	61	61	60	60	52	66

RPMC-V SERIES
TECHNICAL DATA



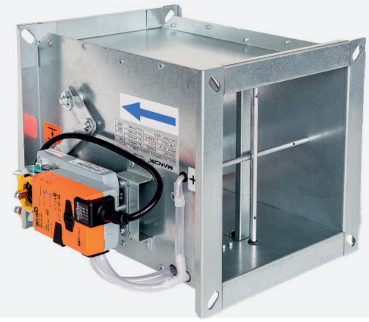
Sound power level inside the pipeline at pressure difference 100 Pa

$\Delta P_{st} = 100$ Pa

Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{wA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
500x500	1100	51	50	46	46	46	47	47	44	54
	4400	54	53	51	50	49	51	51	48	58
	7700	55	57	58	57	57	55	55	49	62
	11000	63	62	63	64	64	63	63	55	69
600x100	260	50	49	45	45	45	46	46	43	53
	1040	52	51	49	48	47	49	49	46	56
	1820	53	55	56	55	55	53	53	47	60
	2600	57	56	57	58	58	57	57	49	63
600x200	520	50	49	45	45	45	46	46	43	53
	2080	53	52	50	49	48	50	50	47	57
	3640	53	55	56	55	55	53	53	47	60
	5200	59	58	59	60	60	59	59	51	65
600x300	780	51	50	46	46	46	47	47	44	54
	3120	54	53	51	50	49	51	51	48	58
	5460	54	56	57	56	56	54	54	48	61
	7800	61	60	61	62	62	61	61	53	67
600x400	1050	51	50	46	46	46	47	47	44	54
	4200	54	53	51	50	49	51	51	48	58
	7350	54	56	57	56	56	54	54	48	61
	10500	61	60	61	62	62	61	61	53	67
600x500	1300	55	54	50	50	50	51	51	48	58
	5200	59	58	56	55	54	56	56	53	63
	9100	59	61	62	61	61	59	59	53	66
	13000	67	66	67	68	68	67	67	59	73
600x600	160	56	55	51	51	51	52	52	49	59
	5440	59	58	56	55	54	56	56	53	63
	10720	60	62	63	62	62	60	60	54	67
	16000	68	67	68	69	69	68	68	60	74
700x200	600	50	49	45	45	45	46	46	43	53
	2400	54	53	51	50	49	51	51	48	58
	4200	54	56	57	56	56	54	54	48	61
	6000	60	59	60	61	61	60	60	52	66
700x300	900	51	50	46	46	46	47	47	44	54
	3600	53	52	50	49	48	50	50	47	57
	6300	54	56	57	56	56	54	54	48	61
	9000	60	59	60	61	61	60	60	52	66
700x400	1200	51	50	46	46	46	47	47	44	54
	4800	55	54	52	51	50	52	52	49	59
	8400	55	57	58	57	57	55	55	49	62
	12000	62	61	62	63	63	62	62	54	68
700x500	1500	56	55	51	51	51	52	52	49	59
	6000	60	59	57	56	55	57	57	54	64
	10500	60	62	63	62	62	60	60	54	67
	15000	68	67	68	69	69	68	68	60	74
800x200	700	55	54	50	50	50	51	51	48	58
	2800	58	57	55	54	53	55	55	52	62
	4900	59	61	62	61	61	59	59	53	66
	7000	65	64	65	66	66	65	65	57	71
800x300	1050	51	50	46	46	46	47	47	44	54
	4200	54	53	51	50	49	51	51	48	58
	7350	54	56	57	56	56	54	54	48	61
	10500	61	60	61	62	62	61	61	53	67

*Default controller settings

RPMC-V SERIES
TECHNICAL DATA

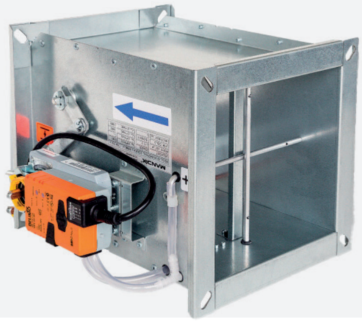


Sound power level inside the pipeline at pressure difference 100 Pa

ΔP_{st}= 100 Pa

Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{wA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
800x400	1400	51	50	46	46	46	47	47	44	54
	5600	55	54	52	51	50	52	52	49	59
	9800	55	57	58	57	57	55	55	49	62
	14000	63	62	63	64	64	63	63	55	69
800x500	1750	56	55	51	51	51	52	52	49	59
	7000	60	59	57	56	55	57	57	54	64
	12250	61	63	64	63	63	61	61	55	68
	17500	69	68	69	70	70	69	69	61	75
800x600	2100	57	56	52	52	52	53	53	50	60
	8400	61	60	58	57	56	58	58	55	65
	14700	62	64	65	64	64	62	62	56	69
	21000	70	69	70	71	71	70	70	62	76
800x800	2800	58	57	53	53	53	54	54	51	61
	11200	62	61	59	58	57	59	59	56	66
	19600	63	65	66	65	65	63	63	57	70
	28000	72	71	72	73	73	72	72	64	78
900x300	1200	56	55	51	51	51	52	52	49	59
	4800	59	58	56	55	54	56	56	53	63
	8400	60	62	63	62	62	60	60	54	67
	12000	67	66	67	68	68	67	67	59	73
900x400	1600	57	56	52	52	52	53	53	50	60
	6400	60	59	57	56	55	57	57	54	64
	11200	61	63	64	63	63	61	61	55	68
	16000	68	67	68	69	69	68	68	60	74
900x500	2000	57	56	52	52	52	53	53	50	60
	8000	61	60	58	57	56	58	58	55	65
	14000	62	64	65	64	64	62	62	56	69
	20000	70	69	70	71	71	70	70	62	76
1000x300	1300	56	55	51	51	51	52	52	49	59
	5200	59	58	56	55	54	56	56	53	63
	9100	59	61	62	61	61	59	59	53	66
	13000	67	66	67	68	68	67	67	59	73
1000x400	1750	57	56	52	52	52	53	53	50	60
	7000	60	59	57	56	55	57	57	54	64
	12250	61	63	64	63	63	61	61	55	68
	17500	69	68	69	70	70	69	69	61	75
1000x500	2200	57	56	52	52	52	53	53	50	60
	8800	61	60	58	57	56	58	58	55	65
	15400	62	64	65	64	64	62	62	56	69
	22000	70	69	70	71	71	70	70	62	76
1000x600	2600	58	57	53	53	53	54	54	51	61
	10400	62	61	59	58	57	59	59	56	66
	18200	62	64	65	64	64	62	62	56	69
	26000	71	70	71	72	72	71	71	63	77
1000x800	3500	59	58	54	54	54	55	55	52	62
	14000	63	62	60	59	58	60	60	57	67
	24500	64	66	67	66	66	64	64	58	71
	35000	73	72	73	74	74	73	73	65	79
1000x1000	4300	59	58	54	54	54	55	55	52	62
	17200	64	63	61	60	59	61	61	58	68
	30100	65	67	68	67	67	65	65	59	72
	43000	73	72	73	74	74	73	73	65	79

RPMC-V SERIES
TECHNICAL DATA

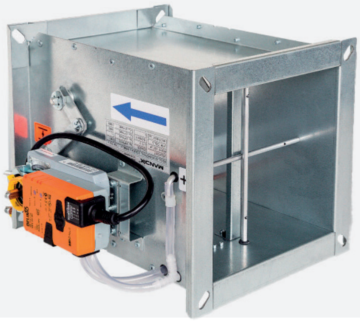


Sound power level inside the pipeline at pressure difference 250 Pa

ΔP_{st}= 250 Pa

Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{WA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
200x100	90	54	53	49	49	49	50	53	47	57
	360	58	57	55	54	53	55	57	52	62
	630	58	60	61	60	60	58	60	52	65
	900	65	64	65	66	66	65	64	57	71
200x200	180	58	57	53	53	53	54	54	51	61
	720	60	59	57	56	55	57	57	54	64
	1260	59	61	62	61	61	59	59	53	66
	1800	64	63	64	65	65	64	64	56	70
300x100	130	54	53	49	49	49	50	50	47	57
	520	58	57	55	54	53	55	55	52	62
	910	58	60	61	60	60	58	58	52	65
	1300	62	61	62	63	63	62	62	54	68
300x200	260	57	56	52	52	52	54	53	50	60
	1040	59	58	56	55	54	56	56	53	63
	1820	60	62	63	62	62	60	60	54	67
	2600	65	64	65	66	66	65	65	57	71
300x300	390	58	57	53	53	53	54	54	51	61
	1560	60	59	57	56	55	57	57	54	64
	2730	61	63	64	63	63	61	61	55	68
	3900	66	65	66	67	67	66	66	58	72
400x100	180	57	56	52	52	52	53	53	50	60
	720	59	58	56	55	54	56	56	53	63
	1260	59	61	62	61	61	59	59	53	66
	1800	66	65	66	67	67	66	66	58	72
400x200	350	58	57	53	53	53	54	54	51	61
	1400	60	59	57	56	55	57	57	54	64
	2450	61	63	64	63	63	61	61	55	68
	3500	65	64	65	66	66	65	65	57	71
400x300	520	58	57	53	53	53	54	54	51	61
	2080	61	60	58	57	56	58	58	55	65
	3640	62	64	65	64	64	62	62	56	69
	5200	67	66	67	68	68	67	67	59	73
400x400	700	59	58	54	54	54	55	55	52	62
	2800	62	61	59	58	57	59	59	56	66
	4900	62	64	65	64	64	62	62	56	69
	7000	68	67	68	69	69	68	68	60	74
500x100	220	57	56	52	52	52	53	53	50	60
	880	60	59	57	56	55	57	57	54	64
	1540	60	62	63	62	62	60	60	54	67
	2200	63	62	63	64	64	63	63	55	69
500x200	440	58	57	53	53	53	54	54	51	61
	1760	61	60	58	57	56	58	58	55	65
	3080	62	64	65	64	64	62	62	56	69
	4400	65	64	65	66	66	65	65	57	71
500x300	650	58	57	53	53	53	54	54	51	61
	2600	61	60	58	57	57	58	58	55	65
	4550	61	63	61	60	60	61	61	58	68
	6500	65	66	64	63	63	64	64	61	71
500x400	870	60	58	56	55	55	56	56	53	63
	3480	62	61	59	58	57	59	59	56	66
	6090	62	64	65	64	64	62	62	56	69
	8700	68	67	68	69	69	68	68	60	74

RPMC-V SERIES
TECHNICAL DATA

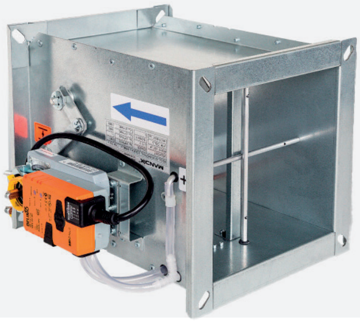


Sound power level inside the pipeline at pressure difference 250 Pa

ΔP_{st}= 250 Pa

Size [mm]	V [m³/h]	L_w [dB/Okt] f_m [Hz] 63	125	250	500	1000	2000	4000	8000	L_{wA} [dB(A)]
500x500	1100	64	63	59	59	59	60	60	57	67
	4400	66	66	62	62	62	63	63	60	70
	7700	66	69	65	65	65	66	66	63	73
	11000	71	73	69	69	69	70	70	67	77
600x100	260	57	56	52	52	52	53	53	50	60
	1040	59	58	56	55	54	56	56	53	63
	1820	60	62	63	62	62	60	60	54	67
	2600	64	63	64	65	65	64	64	56	70
600x200	520	59	58	54	54	54	55	55	52	62
	2080	61	60	58	57	56	58	58	55	65
	3640	62	64	65	64	64	62	62	56	69
	5200	66	65	66	67	67	66	66	58	72
600x300	780	59	58	54	54	54	55	55	52	62
	3120	62	61	59	58	57	59	59	56	66
	5460	63	65	66	65	65	63	63	57	70
	7800	67	66	67	68	68	67	67	59	73
600x400	1050	60	59	55	55	55	56	56	53	63
	4200	63	62	60	59	58	60	60	57	67
	7350	63	65	66	65	65	63	63	57	70
	10500	68	67	68	69	69	68	68	60	74
600x500	1300	64	63	59	59	59	60	60	57	67
	5200	67	66	64	63	62	64	64	61	71
	9100	66	68	69	68	68	66	66	60	73
	13000	71	70	71	72	72	71	71	63	77
600x600	160	63	62	58	58	58	59	59	56	66
	5440	66	65	63	62	61	63	63	60	70
	10720	67	69	70	69	69	67	67	61	74
	16000	72	71	72	73	73	72	72	64	78
700x200	600	59	58	54	54	54	55	55	52	62
	2400	62	61	59	58	57	59	59	56	66
	4200	62	64	65	64	64	62	62	56	69
	6000	66	65	66	67	67	66	66	58	72
700x300	900	60	59	55	55	55	56	56	53	63
	3600	63	62	60	59	58	60	60	57	67
	6300	63	65	66	65	65	63	63	57	70
	9000	68	67	68	69	69	68	68	60	74
700x400	1200	61	60	56	56	56	57	57	54	64
	4800	64	63	61	60	59	61	61	58	68
	8400	64	66	67	66	66	64	64	58	71
	12000	70	69	70	71	71	70	70	62	76
700x500	1500	64	63	59	59	59	60	60	57	67
	6000	67	66	64	63	62	64	64	61	71
	10500	67	69	70	69	69	67	67	61	74
	15000	73	72	73	74	74	73	73	65	79
800x200	700	59	58	54	54	54	55	55	52	62
	2800	62	61	58	58	58	59	59	56	66
	4900	62	64	61	61	61	62	62	56	69
	7000	66	65	64	64	64	65	65	58	72
800x300	1050	61	60	56	56	56	57	57	54	64
	4200	63	62	60	59	58	60	60	57	67
	7350	63	65	66	65	65	63	63	57	70
	10500	68	67	68	69	69	68	68	60	74

RPMC-V SERIES
TECHNICAL DATA



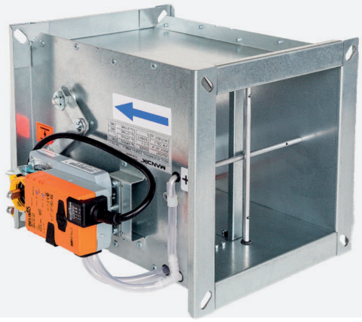
Sound power level inside the pipeline at pressure difference 250 Pa

ΔP_{st}= 250 Pa

Size [mm]	V [m³/h]	L_w [dB/Okt]								L_{wA} [dB(A)]
		f_m [Hz]								
		63	125	250	500	1000	2000	4000	8000	
800x400	1400	61	60	56	56	56	57	57	54	64
	5600	64	63	61	60	59	61	61	58	68
	9800	67	69	70	69	69	67	67	61	74
	14000	70	69	70	71	71	70	70	62	76
800x500	1750	65	64	60	60	60	61	61	58	68
	7000	68	67	65	64	63	65	65	62	72
	12250	68	70	71	70	70	68	68	62	75
	17500	73	72	73	74	74	73	73	65	79
800x600	2100	66	65	61	61	61	62	62	59	69
	8400	69	68	66	65	64	66	66	63	73
	14700	68	70	71	70	70	68	68	62	75
	21000	74	73	74	75	75	74	74	66	80
800x800	2800	65	64	60	60	60	61	61	58	68
	11200	69	68	66	65	64	66	66	63	73
	19600	70	72	73	72	72	70	70	64	77
	28000	76	75	76	77	77	76	76	68	82
900x300	1200	63	62	58	58	58	59	59	56	66
	4800	66	65	63	62	61	63	63	60	70
	8400	66	68	69	68	68	66	66	60	73
	12000	70	69	70	71	71	70	70	62	76
900x400	1600	64	63	59	59	59	60	60	57	67
	6400	67	66	64	63	62	64	64	61	71
	11200	67	69	70	69	69	67	67	61	74
	16000	72	71	72	73	73	72	72	64	78
900x500	2000	65	64	60	60	60	61	61	58	68
	8000	68	67	65	64	63	65	65	62	72
	14000	68	70	71	70	70	68	68	62	75
	20000	74	73	74	75	75	74	74	66	80
1000x300	1300	64	63	59	59	59	60	60	57	67
	5200	67	66	64	63	62	64	64	61	71
	9100	67	69	70	69	69	67	67	61	74
	13000	72	71	72	73	73	72	72	64	78
1000x400	1750	64	63	59	59	59	60	60	57	67
	7000	67	66	64	63	62	64	64	61	71
	12250	68	70	71	70	70	68	68	62	75
	17500	73	72	73	74	74	73	73	65	79
1000x500	2200	60	59	55	55	55	56	56	53	63
	8800	68	67	65	64	63	65	65	62	72
	15400	69	71	72	71	71	69	69	63	76
	22000	74	73	74	75	75	74	74	66	80
1000x600	2600	65	64	60	60	60	61	61	58	68
	10400	69	68	66	65	64	66	66	63	73
	18200	69	71	72	71	71	69	69	63	76
	26000	75	74	75	76	76	75	75	67	81
1000x800	3500	66	65	61	61	61	62	62	59	69
	14000	70	69	67	66	65	67	67	64	74
	24500	71	73	74	73	73	71	71	65	78
	35000	77	76	77	78	78	77	77	69	83
1000x1000	4300	67	66	62	62	62	63	63	60	70
	17200	71	70	68	67	66	68	68	65	75
	30100	71	73	74	73	73	71	71	65	78
	43000	77	76	77	78	78	77	77	69	83

*Default controller settings

RPMC-V SERIES
TECHNICAL DATA



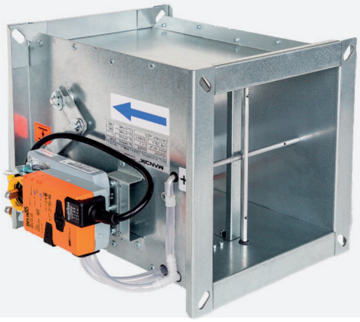
Sound power level inside the pipeline at pressure difference 500 Pa

ΔP_{st}= 500 Pa

Size [mm]	V [m³/h]	L_w [dB/Okt] f_m [Hz] 63	125	250	500	1000	2000	4000	8000	L_{wA} [dB(A)]
200x100	90	61	60	56	56	56	57	60	54	64
	360	65	64	62	61	60	62	64	59	69
	630	64	66	67	66	66	64	66	58	71
	900	72	71	72	73	73	72	71	64	78
200x200	180	61	60	56	56	56	57	57	54	64
	720	66	65	63	62	61	63	63	60	70
	1260	66	68	69	68	68	66	66	60	73
	1800	70	69	70	71	71	70	70	62	76
300x100	130	61	60	56	56	56	57	57	54	64
	520	65	64	62	61	60	62	62	59	69
	910	65	67	68	67	67	65	65	59	72
	1300	69	68	69	70	70	69	69	61	75
300x200	260	62	61	57	57	57	58	58	55	65
	1040	67	66	64	63	62	64	64	61	71
	1820	67	69	70	69	69	67	67	61	74
	2600	71	70	71	72	72	71	71	63	77
300x300	390	63	62	58	58	58	59	59	56	66
	1560	67	66	64	63	62	64	64	61	71
	2730	68	70	71	70	70	68	68	62	75
	3900	72	71	72	73	73	72	72	64	78
400x100	180	62	61	57	57	57	58	58	55	65
	720	66	65	63	62	61	63	63	60	70
	1260	66	68	69	68	68	66	66	60	73
	1800	70	69	70	71	71	70	70	62	76
400x200	350	63	62	58	58	58	59	59	56	66
	1400	68	67	65	64	63	65	65	62	72
	2450	68	70	71	70	70	68	68	62	75
	3500	72	71	72	73	73	72	72	64	78
400x300	520	65	64	60	60	60	61	61	58	68
	2080	69	68	66	65	64	66	66	63	73
	3640	69	71	72	71	71	69	69	63	76
	5200	73	72	73	74	74	73	73	65	79
400x400	700	66	65	61	61	61	62	62	59	69
	2800	70	69	67	66	65	67	67	64	74
	4900	69	71	72	71	71	69	69	63	76
	7000	75	74	75	76	76	75	75	67	81
500x100	220	63	62	58	58	58	59	59	56	66
	880	67	66	64	63	62	64	64	61	71
	1540	67	69	70	69	69	67	67	61	74
	2200	70	69	70	71	71	70	70	62	76
500x200	440	63	62	58	58	58	59	59	56	66
	1760	68	67	65	64	63	65	65	62	72
	3080	69	71	72	71	71	69	69	63	76
	4400	72	71	72	73	73	72	72	64	78
500x300	650	65	64	60	60	60	61	61	58	68
	2600	70	69	67	66	65	67	67	64	74
	4550	69	71	72	71	71	69	69	63	76
	6500	74	73	74	75	75	74	74	66	80
500x400	870	67	66	62	62	62	63	63	60	70
	3480	71	70	68	67	66	68	68	65	75
	6090	70	72	73	72	72	70	70	64	77
	8700	76	75	76	77	77	76	76	68	82

RPMC-V SERIES

TECHNICAL DATA



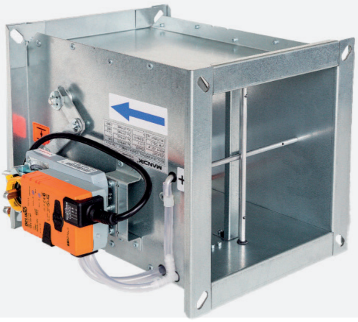
Sound power level inside the pipeline at pressure difference 500 Pa

ΔP_{st}= 500 Pa

Size [mm]	V [m³/h]	L_w [dB/Okt] f_m [Hz] 63	125	250	500	1000	2000	4000	8000	L_{wA} [dB(A)]
500x500	1100	70	69	65	65	65	66	66	63	73
	4400	73	72	70	69	68	70	70	67	77
	7700	73	75	76	75	75	73	73	67	80
	11000	79	78	79	80	80	79	79	71	85
600x100	260	63	62	58	58	58	59	59	56	66
	1040	67	66	64	63	62	64	64	61	71
	1820	67	69	70	69	69	67	67	61	74
	2600	71	70	71	72	72	71	71	63	77
600x200	520	65	64	60	60	60	61	61	58	68
	2080	69	68	66	65	64	66	66	63	73
	3640	69	71	72	71	71	69	69	63	76
	5200	74	73	74	75	75	74	74	66	80
600x300	780	66	65	61	61	61	62	62	59	69
	3120	70	69	67	66	65	67	67	64	74
	5460	70	72	73	72	72	70	70	64	77
	7800	75	74	75	76	76	75	75	67	81
600x400	1050	68	67	63	63	63	64	64	61	71
	4200	71	70	68	67	66	68	68	65	75
	7350	71	73	74	73	73	71	71	65	78
	10500	77	76	77	78	78	77	77	69	83
600x500	1300	71	70	66	66	66	67	67	64	74
	5200	74	73	71	70	69	71	71	68	78
	9100	74	76	77	76	76	74	74	68	81
	13000	80	79	80	81	81	80	80	72	86
600x600	160	70	69	65	65	65	66	66	63	73
	5440	74	73	71	70	69	71	71	68	78
	10720	74	76	77	76	76	74	74	68	81
	16000	81	80	81	82	82	81	81	73	87
700x200	600	66	65	61	61	61	62	62	59	69
	2400	70	69	67	66	65	67	67	64	74
	4200	69	71	72	71	71	69	69	63	76
	6000	74	73	74	75	75	74	74	66	80
700x300	900	67	66	62	62	62	63	63	60	70
	3600	70	69	66	66	66	67	67	64	74
	6300	70	72	73	72	72	70	70	64	77
	9000	76	75	76	77	77	76	76	68	82
700x400	1200	68	67	63	63	63	64	64	61	71
	4800	72	71	69	68	67	69	69	66	76
	8400	72	74	75	74	74	72	72	66	79
	12000	78	77	78	79	79	78	78	70	84
700x500	1500	71	70	66	66	66	67	67	64	74
	6000	75	74	72	71	70	72	72	69	79
	10500	74	76	77	76	76	74	74	68	81
	15000	81	80	81	82	82	81	81	73	87
800x200	700	67	66	62	62	62	63	63	60	70
	2800	70	69	67	66	65	67	67	64	74
	4900	70	72	73	72	72	70	70	64	77
	7000	75	74	75	76	76	75	75	67	81
800x300	1050	68	67	63	63	63	64	64	61	71
	4200	71	71	67	67	67	68	68	65	75
	7350	71	73	74	73	73	71	71	65	78
	10500	77	76	77	78	78	77	77	69	83

*Default controller settings

RPMC-V SERIES
TECHNICAL DATA

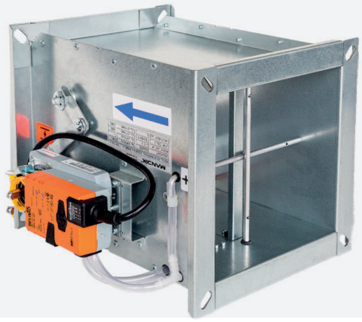


Sound power level inside the pipeline at pressure difference 500 Pa

ΔP_{st}= 500 Pa

Size [mm]	V [m³/h]	L_w [dB/Okt] f_m [Hz] 63	125	250	500	1000	2000	4000	8000	L_{WA} [dB(A)]
800x400	1400	68	67	63	63	63	64	64	61	71
	5600	72	71	69	68	67	69	69	66	76
	9800	72	74	72	71	70	72	72	69	79
	14000	79	78	79	80	80	79	79	71	85
800x500	1750	72	71	67	67	67	68	68	65	75
	7000	75	74	72	71	70	72	72	69	79
	12250	76	78	79	78	78	76	76	70	83
	17500	83	82	83	84	84	83	83	75	89
800x600	2100	72	71	67	67	67	68	68	65	75
	8400	76	75	73	72	71	73	73	70	80
	14700	77	79	80	79	79	77	77	71	84
	21000	84	83	84	85	85	84	84	76	90
800x800	2800	73	72	68	68	68	69	69	66	76
	11200	77	76	74	73	72	74	74	71	81
	19600	79	81	82	81	81	79	79	73	86
	28000	87	86	87	88	88	87	87	79	93
900x300	1200	70	69	65	65	65	66	66	63	73
	4800	74	73	71	70	69	71	71	68	78
	8400	74	76	77	76	76	74	74	68	81
	12000	80	79	80	81	81	80	80	72	86
900x400	1600	75	74	70	70	70	71	71	68	78
	6400	75	74	72	71	70	72	72	69	79
	11200	75	77	78	77	77	75	75	69	82
	16000	82	81	82	83	83	82	82	74	88
900x500	2000	72	71	67	67	67	68	68	65	75
	8000	76	75	73	72	71	73	73	70	80
	14000	76	78	79	78	78	76	76	70	83
	20000	83	82	83	84	84	83	83	75	89
1000x300	1300	70	69	65	65	65	66	66	63	73
	5200	74	73	71	70	69	71	71	68	78
	9100	73	75	76	75	75	73	73	67	80
	13000	79	78	79	80	80	79	79	71	85
1000x400	1750	71	70	66	66	66	67	67	64	74
	7000	75	74	72	71	70	72	72	69	79
	12250	75	77	78	77	77	75	75	69	82
	17500	82	81	82	83	83	82	82	74	88
1000x500	2200	72	71	67	67	67	68	68	65	75
	8800	76	75	73	72	71	73	73	70	80
	15400	77	79	80	79	79	77	77	71	84
	22000	84	83	84	85	85	84	84	76	90
1000x600	2600	73	72	68	68	68	69	69	66	76
	10400	77	76	74	73	72	74	74	71	81
	18200	77	79	80	79	79	77	77	71	84
	26000	85	84	85	86	86	85	85	77	91
1000x800	3500	74	73	69	69	69	70	70	67	77
	14000	78	77	75	74	73	75	75	72	82
	24500	80	82	83	82	82	80	80	74	87
	35000	88	87	88	89	89	88	88	80	94
1000x1000	4300	75	74	70	70	70	71	71	68	78
	17200	79	78	76	75	74	76	76	73	83
	30100	80	82	83	82	82	80	80	74	87
	43000	89	88	89	90	90	89	89	81	95

RPMC-V SERIES
TECHNICAL DATA



Radiated noise

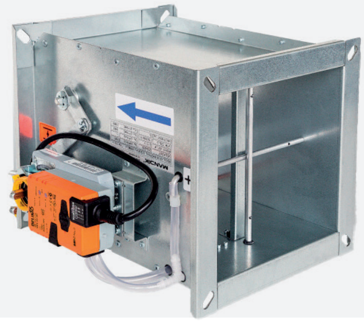
The radiated noise of the air volume controller is given below

V [m³h⁻¹] - air flow volume
Δst [Pa] - pressure differential

L_{WA} [dB(A)] - total level of acoustic power corrected by filter A

Size [mm]	V [m³/h]	L_{WA} [dB(A)] ΔP_{st}= 50 Pa	L_{WA} [dB(A)] ΔP_{st}= 100 Pa	L_{WA} [dB(A)] ΔP_{st}= 250 Pa	L_{WA} [dB(A)] ΔP_{st}= 500 Pa
200x100	90	35	39	43	48
	360	37	42	47	53
	630	42	47	52	58
	900	45	49	55	62
200x200	180	40	42	47	49
	720	40	44	49	54
	1260	44	48	52	57
	1800	48	52	55	61
300x100	130	37	40	46	50
	520	38	42	49	55
	910	43	47	54	59
	1300	48	52	58	63
300x200	260	38	41	47	52
	1040	39	44	51	57
	1820	44	49	56	61
	2600	49	53	60	64
300x300	390	39	42	49	54
	1560	40	45	52	58
	2730	45	50	57	63
	3900	52	56	63	68
400x100	180	39	42	47	50
	720	40	44	50	54
	1260	44	48	52	57
	1800	49	52	58	61
400x200	350	39	43	50	55
	1400	41	46	53	60
	2450	45	50	57	63
	3500	49	54	60	66
400x300	520	38	42	50	55
	2080	40	45	53	59
	3640	46	51	58	64
	5200	52	56	63	68
400x400	700	39	43	51	56
	2800	42	47	54	61
	4900	47	52	59	65
	7000	53	57	63	69
500x100	220	39	42	48	52
	880	39	44	51	57
	1540	44	49	55	61
	2200	48	52	58	63
500x200	440	40	43	50	55
	1760	41	46	53	59
	3080	46	51	57	64
	4400	50	55	60	66
500x300	650	41	44	52	57
	2600	43	47	55	61
	4550	47	52	59	65
	6500	52	56	62	69

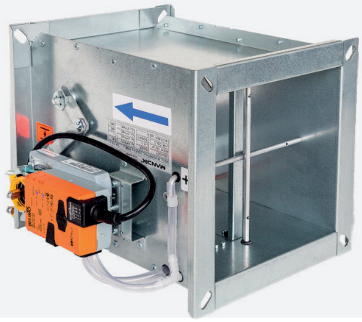
RPMC-V SERIES
TECHNICAL DATA



Size [mm]	V [m³/h]	L_{WA} [dB(A)] ΔP_{st}= 50 Pa	L_{WA} [dB(A)] ΔP_{st}= 100 Pa	L_{WA} [dB(A)] ΔP_{st}= 250 Pa	L_{WA} [dB(A)] ΔP_{st}= 500 Pa
500x400	870	40	44	52	57
	3480	43	48	55	61
	6090	47	52	60	66
	8700	53	58	63	70
500x500	1100	42	46	54	58
	4400	46	51	57	64
	7700	51	56	62	70
	11000	57	62	67	76
600x100	260	38	41	47	51
	1040	39	44	51	55
	1820	44	49	56	58
	2600	48	53	59	61
600x200	520	39	42	50	55
	2080	40	45	53	60
	3640	46	51	58	64
	5200	52	56	62	69
600x300	780	39	43	51	57
	3120	41	46	54	60
	5460	46	51	59	65
	7800	52	57	63	70
600x400	1050	40	44	52	59
	4200	44	48	56	63
	7350	49	54	61	68
	10500	54	59	64	72
600x500	1300	41	45	53	59
	5200	45	50	58	65
	9100	53	58	63	71
	13000	62	67	68	78
600x600	160	42	46	53	59
	5440	47	52	58	65
	10720	53	58	64	72
	16000	62	68	68	79
700x200	600	37	42	47	56
	2400	41	46	53	60
	4200	46	51	58	65
	6000	52	56	62	68
700x300	900	40	44	51	57
	3600	42	47	55	61
	6300	47	52	60	66
	9000	52	57	63	70
700x400	1200	41	45	53	59
	4800	44	49	56	64
	8400	49	54	61	68
	12000	54	59	65	73
700x500	1500	42	46	53	60
	6000	47	52	59	66
	10500	53	58	64	72
	15000	63	68	71	79
800x200	700	39	43	51	57
	2800	42	47	54	61
	4900	47	52	59	66
	7000	52	57	62	70

RPMC-V SERIES

TECHNICAL DATA



Size [mm]	V [m³/h]	L_{WA} [dB(A)] ΔP_{st}= 50 Pa	L_{WA} [dB(A)] ΔP_{st}= 100 Pa	L_{WA} [dB(A)] ΔP_{st}= 250 Pa	L_{WA} [dB(A)] ΔP_{st}= 500 Pa
800x300	1050	40	44	52	59
	4200	44	48	56	63
	7350	49	54	61	68
	10500	54	59	64	73
800x400	1400	39	44	53	60
	5600	44	49	57	64
	9800	49	54	62	69
	14000	53	60	63	74
800x500	1750	42	46	55	61
	7000	48	53	59	67
	12250	53	59	64	73
	17500	62	69	70	82
800x600	2100	43	47	56	62
	8400	49	54	60	68
	14700	54	60	65	75
	21000	64	70	72	84
800x800	2800	43	48	55	62
	11200	50	55	62	71
	19600	56	62	67	77
	28000	68	74	75	88
900x300	1200	43	47	53	59
	4800	47	52	58	65
	8400	53	58	63	71
	12000	62	66	71	78
900x400	1600	49	47	53	60
	6400	48	53	59	67
	11200	54	59	64	73
	16000	63	68	72	81
900x500	2000	43	48	54	62
	8000	49	54	60	69
	14000	54	60	65	74
	20000	65	70	74	83
1000x300	1300	43	47	53	59
	5200	47	52	58	65
	9100	52	57	63	70
	13000	63	67	70	77
1000x400	1750	42	47	53	60
	7000	48	53	59	67
	12250	55	60	65	73
	17500	65	70	73	80
1000x500	2200	42	47	54	61
	8800	49	54	61	68
	15400	55	60	66	74
	22000	66	71	76	84
1000x600	2600	43	48	54	62
	10400	50	55	61	69
	18200	55	61	66	75
	26000	67	72	76	86
1000x800	3500	44	49	56	63
	14000	51	56	63	72
	24500	57	63	68	78
	35000	69	75	78	89
1000x1000	4300	44	49	57	65
	17200	52	57	64	73
	30100	57	63	69	79
	43000	68	74	78	91


Solutions

AIR VALVES EXTRACTION

BEC SERIES

BEC Sheet metal air valve extraction

SAMOVENT® TECHNIK

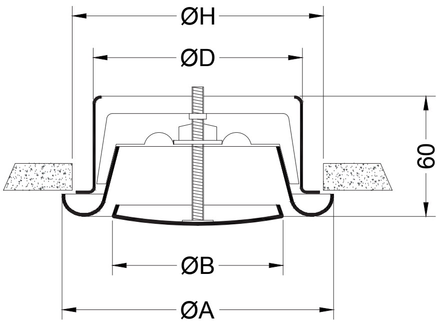
DIFUSIÓN Y VENTILACIÓN

BEC SERIES
BEC
AIR VALVE EXTRACTION

Model **BEC.** Sheet metal air valve extraction

Suitable for mounting in false ceilings or laminated plaster ceilings.
Made of metal sheet.
Flow regulation by means of a central valve.

BEC



	Ø D	Ø A	Ø B	Ø H
BEC 100	98	140	78	110
BEC 125	123	163	99	135
BEC 150	148	198	119	160
BEC 200	198	248	157	210

DESCRIPTION

Air valve, type BEC. With dimensions Ø 100.

Order form:

BEC	Ø 100

Air valve extraction series:	Dimensions Ø:
BEC	100

BEC SERIES
BEC
SELECTION TABLE

Legend:
Q = Flow rate
S = Valve position
Pt = Pressure drop in Pa
LwA = Sound power level in dB(A)

ø100

Q (m³/h) (l/s)	S	-8	-6	-4	-2	0	2	4	6	8
25	Pt	64	37	23	15					
6,9	LwA	18	16	14	13					
50	Pt	258	152	94	60	41	29			
13,9	LwA	32	28	24	22	20	18			
75	Pt			213	137	92	65	48	37	
20,8	LwA			33	30	27	25	23	21	
100	Pt			380	245	165	116	85	66	53
27,8	LwA			42	37	34	31	28	26	25
125	Pt				384	259	182	134	103	83
34,7	LwA				44	40	36	34	31	30
150	Pt					374	263	194	149	120
41,7	LwA					46	42	39	36	34

ø125

Q (m³/h) (l/s)	S	-12	-9	-6	-3	0	3	6	9	12
50	Pt	85	45	25	15					
13,9	LwA	24	19	15	13					
75	Pt	190	100	57	34	22				
20,8	LwA	37	29	24	20	16				
100	Pt		178	101	61	40	28			
27,8	LwA		40	33	27	22	19			
125	Pt			157	95	62	43	33		
34,7	LwA			42	34	28	24	20		
150	Pt				137	89	62	47	38	
41,7	LwA				42	35	29	25	21	
200	Pt					158	111	83	67	58
55,6	LwA					47	40	34	29	25

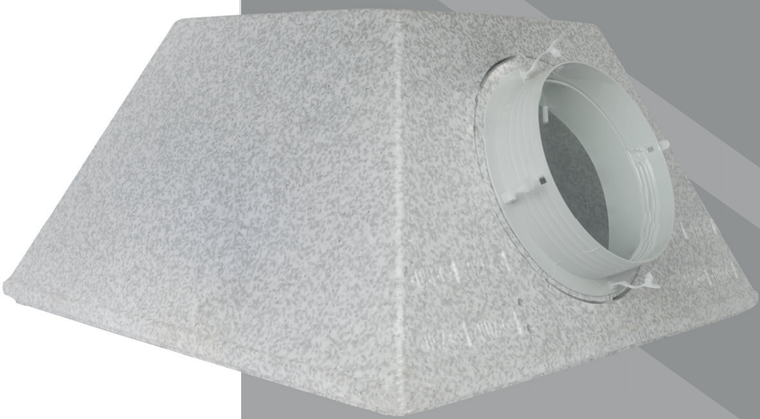
BEC SERIES
BEC
SELECTION TABLE

ø 150

Q (m³/h) (l/s)	S	-12	-9	-6	-3	0	3	6	9	12
100	Pt	151	92	59	39					
27,8	LwA	34	29	24	20					
150	Pt		210	133	88	60	43	32		
41,7	LwA		44	37	31	26	23	20		
200	Pt			239	158	108	77	57	43	34
55,6	LwA			49	42	36	31	27	23	20
250	Pt					170	121	89	68	54
69,4	LwA					45	39	33	29	26
300	Pt						174	129	99	78
83,3	LwA						47	40	35	31
350	Pt							176	135	107
97,2	LwA							47	41	37

ø 200

Q (m³/h) (l/s)	S	-16	-12	-8	-4	0	4	8	12	16
150	Pt	97	55	32						
41,7	LwA	28	23	19						
200	Pt	174	99	58	36					
55,6	LwA	37	30	25	20					
250	Pt	273	155	91	56	35				
69,4	LwA	46	37	31	25	21				
300	Pt		224	132	81	51	34			
83,3	LwA		44	36	30	25	21			
375	Pt			208	127	81	53	36		
104,2	LwA			45	37	31	26	22		
400	Pt			301	184	117	77	52	37	27
125	LwA			54	45	37	31	26	22	19

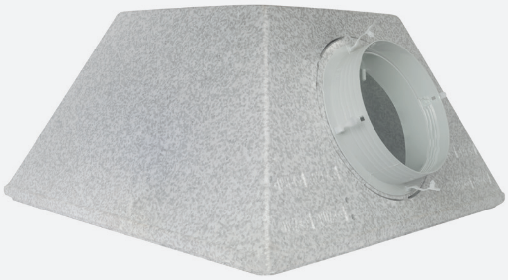


ACCESSORIES

PPS	Polystyrene Plenum
PCL - PCS	Plenum sheet plenum
MM	Mounting frame for grilles
CR	Control damper for gratings

SAMOVENT®
TECHNIK

DIFUSIÓN Y VENTILACIÓN



PPS
PLENUM
POLYSTYRENE PLENUM

The plenum box model PPS, made of polystyrene foam with a density of 45 Kg/mc, approved according to class 1, is configured as a safe and easy to install option thanks to its lightness and great thermo-acoustic insulation.

Model PPS-CR. Polystyrene plenum box with duct connection and regulation damper (790 gr).
Model PPS-K. Polystyrene plenum box with duct connection, regulation damper and equalizer plate (990 gr).

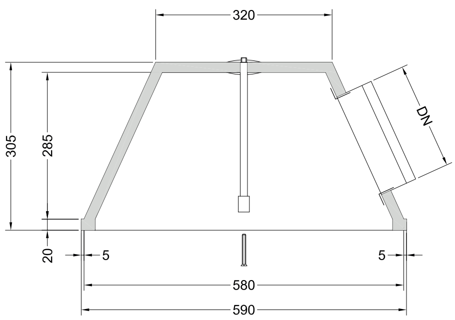
Characteristics:

Transmission coefficient 0.0318 W/mk
High thermal-acoustic insulation.
Designed to be used with plate diffusers with dimensions 600x600.
Duct connection diameters: Ø160, Ø200, Ø250.
Possibility of incorporating ceiling fixing bracket, model CH-PPS.
Supplied disassembled to optimise storage and transport.
Easy installation, thanks to its lightness.
Time saving in installation.
Space saving of 50% compared to traditional plenum

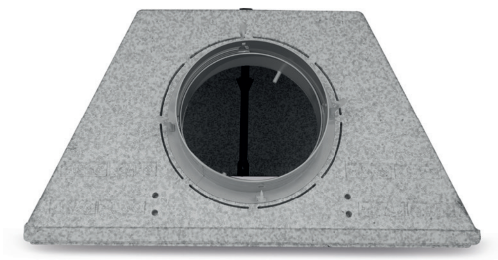
Accessories:

CH-PPS.
PPS plenum ceiling fixing bracket.

PPS



Front

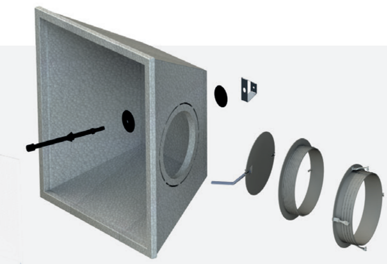


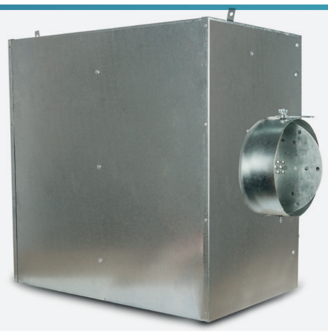
DESCRIPTION

Polystyrene plenum box with duct connection and regulation damper, type PPS-CR Ø 200 and ceiling fixing bracket type CH-PPS.

Order form:

PPS-CR | Ø 200 | CH-PPS





PC
PCL - PCS
METAL SHEET PLENUM

Model **PC.** Plenum box in galvanised sheet metal, with butterfly damper and mounting bracket for swirl diffuser. Includes hanging plates for ceiling mounting.

Accesorios:

(PCL) Plenum box for square plate with side connection

(PCL-A) Plenum box for square panel with side entry, insulated.

(PCS) Plenum box for square plate with top connection.

(PCS-A) Plenum box for square plate with top connection, insulated.

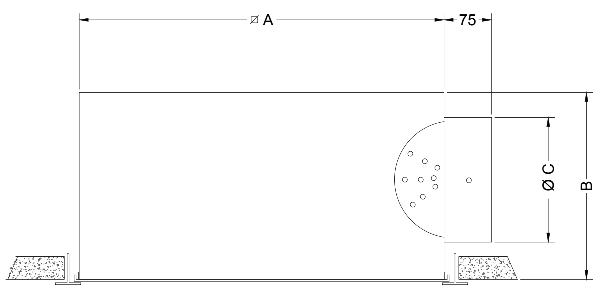
(PCLR) Plenum box for circular plate with side connection.

(PCLR-A) Plenum box for circular plate with side connection, insulated.

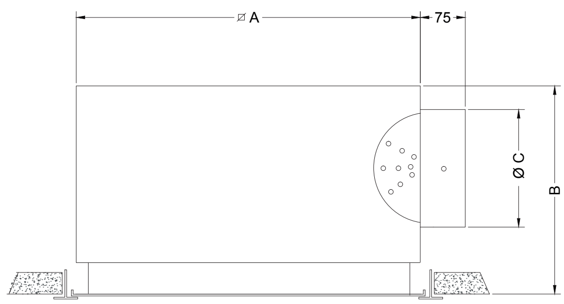
(PCSR) Plenum box for circular plate with top connection.

(PCSR-A) Plenum box for circular plate with top connection, insulated.

PCL



PCLR



	⌀ A	B	Ø C
PCL 400	375	250	160
PCL 500	475	318	200 - 250
PCL 600	575	350	200 - 250
PCS 400	375	325	160
PCS 500	475	393	200 - 250
PCS 600	575	425	200 - 250

	⌀ A	B	Ø C
PCLR 400	375	295	160
PCLR 500	475	363	200 - 250
PCLR 600	575	395	200 - 250
PCSR 400	375	370	160
PCSR 500	475	438	200 - 250
PCSR 600	575	470	200 - 250

DESCRIPTION

Plenum box with insulated side entry connection, for panel 600. Type PCL-A 600 - 200

Order form:

PCL-A | 600 | 200

Plenum sheet metal series:

PCL PCLR PCS PCSR
PCL-A PCLR-A PCS-A PCSR-A

⌀ of plate:

400 / 500 / 600

Ø collar:

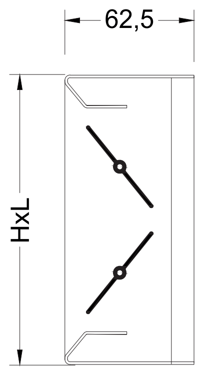
160 / 200 /250

CR
CRX - CRZ
REGULATION DAMPER

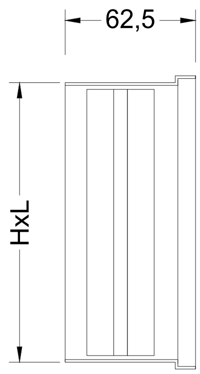
The CR regulation dampers are manufactured with an extruded aluminium frame to offer great resistance to the assembly. The movable blades opposite each other are made of both aluminium and PVC.
The opening and closing system consists of gears connected to a manually operated worm screw. It is arranged for the adjustment of the blades in the required position. Thanks to the worm screw the position of the blades will not suffer changes in their degree of inclination when acting as a lever, the CR regulation is coupled to the internal face of the grille by means of fixing clips.

Modelo CRX.   Regulation damper, with horizontal fins parallel to the level L.
Slats built in PVC up to L=300 and in Aluminium for L≥350
Modelo CRZ.   Regulation damper, with vertical blades parallel to the H level. Blades manufactured in PVC up to H=300 and in Aluminium for H ≥350

CRX



CRZ



CRX STANDARDIZED NOMINAL DIMENSIONS

L	200	250	300	700	350	400	450	500	600
H	100	150	200	250	300	350	400	500	

CRZ STANDARDIZED NOMINAL DIMENSIONS

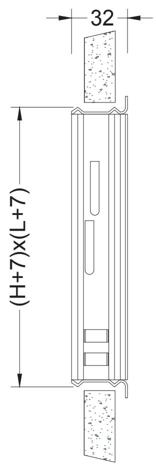
L	200	250	300	700	350	400	450	500	600		
H	50	75	100	125	150	200	250	300	350	400	500

MM
MM
MOUNTING FRAME

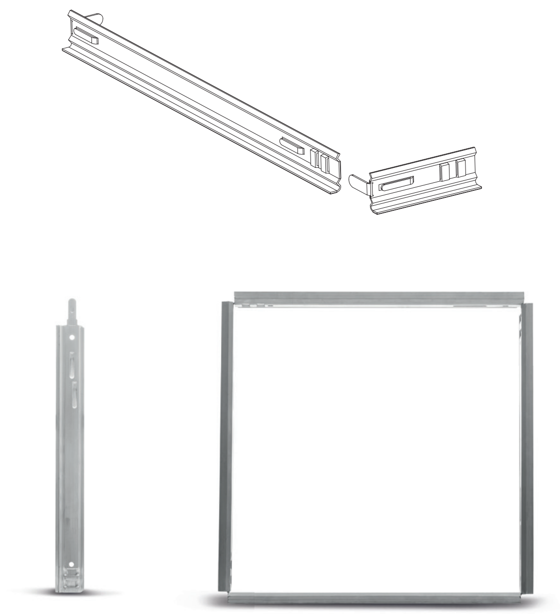
Model **MM.** Mounting frame for grilles.

Made of extruded aluminium.
High resistance and easy installation.
Fixing plates for plaster plates from 15 to 18mm.

MM



MM
Detail of mounting frame



STANDARDIZED NOMINAL DIMENSIONS

L										
50	75	100	125	150	200	250	300	350	400	450
500	600	700	800	900	1000	1100	1200	1300	1400	1500

SIMBOLOGY

TECHNICAL ICONS

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