



LINEAR GRILLE WITH FIXED BLADES

UF
SERIES

OVERVIEW TECHNICAL CHARACTERISTICS

CHARACTERISTICS :

The UF linear grilles with fixed blades are used in the ventilation and air conditioning systems, both for ceiling and wall installation.

They are suitable for floor mounting and for application on fan-coils; as they are appropriate for both ventilation and aspiration, it is possible to maintain the same structure for each application. Moreover the possibility of composition is another important characteristic that permits to obtain continue air flow in large environments without changing the aesthetic figure.

The grille door, which does not change the design of the grille, represents a simple way to access to the command keys.

TECHNICAL CHARACTERISTICS :

The fixed blades can have two different profiles: with 0 degree deflection or with 15 degree deflection, which permit to obtain different flow directions. For this reason this type of grilles can be furnished with a second row of individually adjustable blades.

Moreover, MP3 can supply this product with or without frame which means only the core. Depending on the specific functional and application requirements, three types of frame profiles are available, each of them can be equipped with the grille door.

The UF grilles are made of anodized extruded aluminium and the fixed blades are to be considered as horizontal and therefore parallel to the base (usually the upper measure). The position of the door has always to be considered as referred to the grille seen from a frontal view and with turned down 15 degree blades.

This consideration is not necessary in case of grilles set of 0 pitch blades or with two doors.

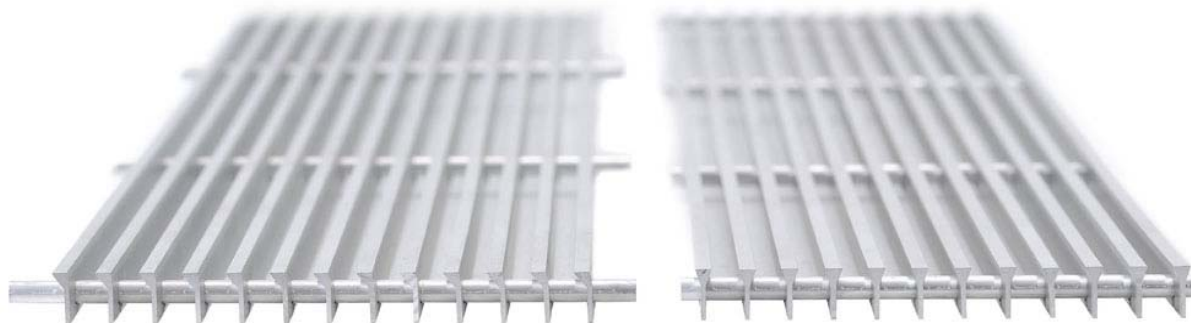
CONSTRUCTION :

Here below are indicated the maximum and minimum built dimensions, available models and the relative technical draws.

MINIMAL ASSEMBLY MEASUREMENTS	200 x 75 mm
MAXIMUM ASSEMBLY MEASUREMENTS	2.000 x 600 mm
2 PARTS ASSEMBLY	from 2.001 to 4.000 mm
MULTIPLE PARTS ASSEMBLY	more than 4.000 mm

ASSEMBLE MEASUREMENTS

< 4.000 mm	In 2 equal parts
4.100 mm	1.500 + 1.100 + 1.500
.....	1.500 + + 1.500
5.000 mm	1.500 + 2.000 + 1.500
5.100 mm	2.000 + 1.100 + 2.000
.....	2.000 + + 2.000
6.000 mm	2.000 + 2.000 + 2.000
6.100 mm	2.000 + 1.000 + 1.100 + 2.000
6.200 mm	2.000 + 1.100 + 1.100 + 2.000
.....	2.000 + + + 2.000
7.000 mm	2.000 + 1.500 + 1.500 + 2.000
7.100 mm	2.000 + 2.000 + 1.100 + 2.000
.....	2.000 + 2.000 + + 2.000
8.000 mm	2.000 + 2.000 + 2.000 + 2.000
8.100 mm	2.000 + 2.000 + 1.000 + 1.100 + 2.000
.....	2.000 + 2.000 + 1.000 + + 2.000
9.000 mm	2.000 + 2.000 + 1.000 + 2.000 + 2.000
9.100 mm	2.000 + 2.000 + 1.100 + 2.000 + 2.000
.....	2.000 + 2.000 + + 2.000 + 2.000
10.000 mm	2.000 + 2.000 + 2.000 + 2.000 + 2.000





LINEAR GRILLE WITH FIXED BLADES

UF SERIES

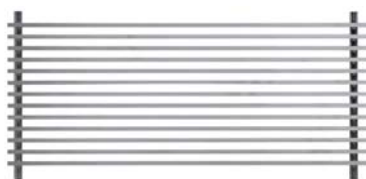
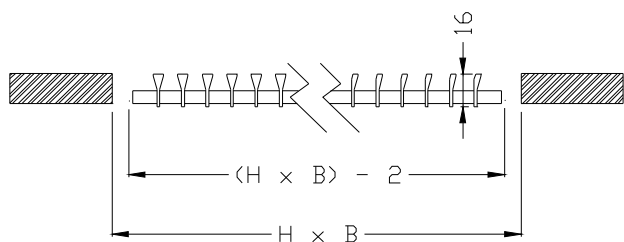
CONSTRUCTION

UF0

Grille with horizontal fixed blades with deflection angle 0° with low frame.

UF1

Grille with horizontal fixed blades with deflection angle 15° with low frame

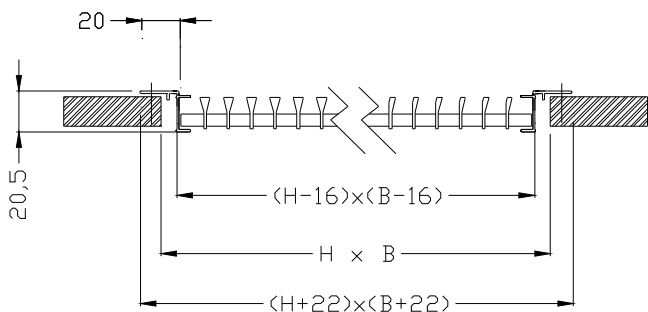


UF0 AH

Grille with horizontal fixed blades with deflection angle 0° with high frame and back adjustable vertical blades.

UF1 AH

Grille with horizontal fixed blades with deflection angle 15° with high frame and back adjustable vertical blades.

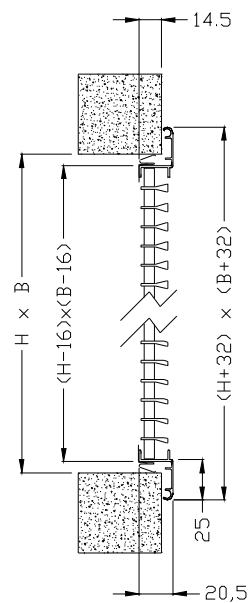


UF0 A

Grille with horizontal fixed blades with deflection angle 0° with high frame.

UF1 A

Grille with horizontal fixed blades with deflection angle 15° with high frame.





LINEAR GRILLE WITH FIXED BLADES

UF SERIES

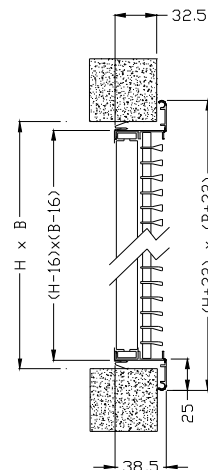
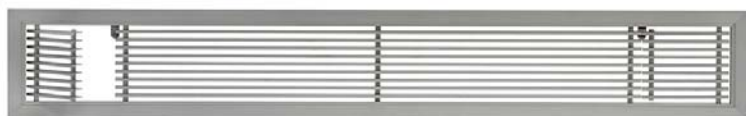
CONSTRUCTION

UF 0 AH

Grille with horizontal fixed blades with deflection angle 0° with high frame and back adjustable vertical blades.

UF 1 AH

Grille with fixed horizontal blades, deflection angle 15° with high frame and internal group of adjustable vertical blades.



UF 0 A P1

UF 1 A PD

UF 1 A PS

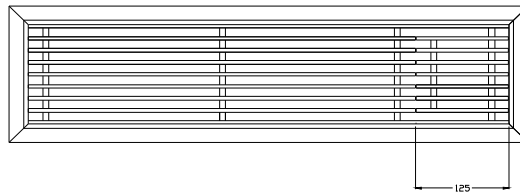
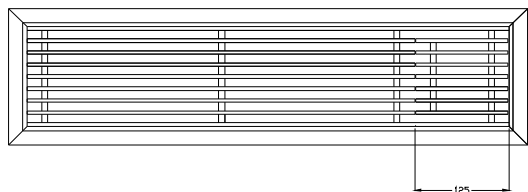
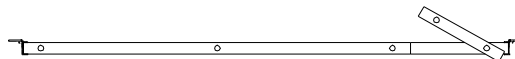
Grille with horizontal fixed blades and deflection angle 0°/15°, with high frame and grille door. In case of fixed blades with deflection angle 15° the position of the door on the left or right side is to be considered as seen from a frontal point of view with turned down deflection.

UF 0 B P1

UF 1 B PD

UF 1 B PS

Grille with horizontal fixed blades and deflection angle 0°/15°, with low frame and grille door. In case of fixed blades with deflection angle 15° the position of the door on the left or right side is to be considered as seen from a frontal point of view with turned down deflection.



UF 0 A P2

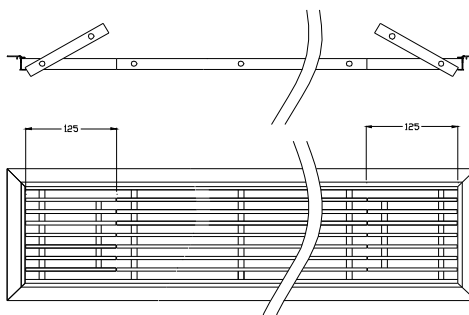
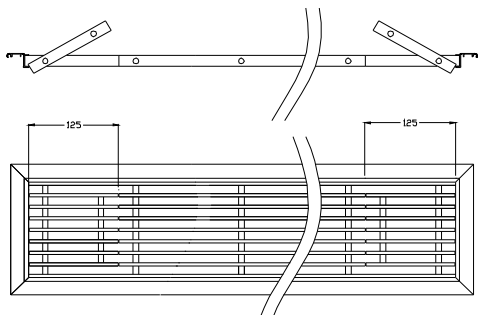
UF 1 A P2

Grille with fixed horizontal blades with deflection angle of 0° / 15°, with high frame and double gridded gate.

UF 0 B P2

UF 1 B P2

Grille with fixed horizontal bars, with deflection angle 0° / 15°, with flat frame and double gridded gate .





LINEAR GRILLE WITH FIXED BLADES WITHOUT FRAME

UFO
SERIES

PERFORMANCE

L x H	Q = 100 [m ³ /h]			Q = 200 [m ³ /h]			Q = 300 [m ³ /h]			Q = 400 [m ³ /h]			Q = 500 [m ³ /h]			Q = 600 [m ³ /h]		
	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa
300	2,9	1,9	<20	5,8	7,6	33	8,7	17,1	45									
400	2,5	1,1	<20	5,0	4,3	25	7,6	9,6	38									
500	2,3	<1	<20	4,5	2,7	<20	6,8	6,2	32	9,0	11	40						
600	2,1	<1	<20	4,1	1,9	<20	6,2	4,3	27	8,2	8	36	10,3	<1	42			
800	1,8	<1	<20	3,6	1,1	<20	5,4	2,4	<20	7,1	4	28	8,9	<1	35	10,7	10	41
1000	1,6	<1	<20	3,2	0,7	<20	4,8	1,5	<20	6,4	3	23	8,0	<1	29	9,6	6	35
300	2,5	1,1	<20	5,0	4,3	25	7,6	9,6	38									
400	2,2	<1	<20	4,4	2,4	<20	6,6	5,4	30	8,7	10	39						
500	2,0	<1	<20	3,9	1,5	<20	5,9	3,5	25	7,8	6	33	9,8	<1	40			
600	1,8	<1	<20	3,6	1,1	<20	5,4	2,4	<20	7,1	4	28	8,9	<1	35	10,7	10	41
800	1,5	<1	<20	3,1	0,6	<20	4,6	1,4	<20	6,2	2	21	7,7	<1	28	9,3	5	33
1000	1,4	<1	<20	2,8	0,4	<20	4,1	<1	<20	5,5	2	<20	6,9	<1	22	8,3	3	28
400	1,8	<1	<20	3,6	1,1	<20	5,4	2,4	<20	7,1	4	28	8,9	<1	35	10,7	10	41
500	1,6	<1	<20	3,2	0,7	<20	4,8	1,5	<20	6,4	3	23	8,0	<1	29	9,6	6	35
600	1,5	<1	<20	2,9	0,5	<20	4,4	1,1	<20	5,8	2	<20	7,3	<1	25	8,7	4	30
800	1,3	<1	<20	2,5	0,3	<20	3,8	<1	<20	5,0	1	<20	6,3	<1	<20	7,6	2	23
1000	1,1	<1	<20	2,3	0,2	<20	3,4	<1	<20	4,5	<1	<20	5,6	<1	<20	6,8	2	<20
400	1,5	<1	<20	3,1	0,6	<20	4,6	1,4	<20	6,2	2	21	7,7	<1	28	9,3	5	33
500	1,4	<1	<20	2,8	0,4	<20	4,1	<1	<20	5,5	2	<20	6,9	<1	22	8,3	3	28
600	1,3	<1	<20	2,5	0,3	<20	3,8	<1	<20	5,0	1	<20	6,3	<1	<20	7,6	2	23
800	1,1	<1	<20	2,2	0,2	<20	3,3	<1	<20	4,4	<1	<20	5,5	<1	<20	6,6	1	<20
1000	1,0	<1	<20	2,0	0,1	<20	2,9	<1	<20	3,9	<1	<20	4,9	<1	<20	5,9	<1	<20

$V_t = 0,2 \text{ m/s}$

Throwin isothermal conditions

L x H	Q = 700 [m ³ /h]			Q = 800 [m ³ /h]			Q = 1000 [m ³ /h]			Q = 1500 [m ³ /h]			Q = 2000 [m ³ /h]			Q = 2500 [m ³ /h]		
	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa
300																		
400																		
500																		
600																		
800	10,8	7,4	38	12,4	9,6	42												
1000	9,7	4,7	32	11,1	6,2	36	13,8	9,6	43									
400																		
500	11,2	8,4	39	12,8	11,0	43												
600	10,2	5,8	35	11,7	7,6	39												
800	8,8	3,3	27	10,1	4,3	31	12,6	6,7	38									
1000	7,9	2,1	22	9,0	2,7	26	11,3	4,3	32	16,9	10	45						
400	10,8	7,4	38	12,4	9,6	42												
500	9,7	4,7	32	11,1	6,2	36	13,8	9,6	43									
600	8,8	3,3	27	10,1	4,3	31	12,6	6,7	38									
800	7,7	1,8	20	8,7	2,4	24	10,9	3,8	31	16,4	8	43						
1000	6,8	1,2	<20	7,8	1,5	<20	9,8	2,4	25	14,7	5	37						
500	7,9	2,1	22	9,0	2,7	26	11,3	4,3	32	16,9	10	45						
600	7,2	1,5	<20	8,2	1,9	21	10,3	3,0	28	15,5	7	40						
800	6,2	<1	<20	7,1	1,1	<20	8,9	1,7	20	13,4	4	33	17,9	<1	41			
1000	5,6	<1	<20	6,4	0,7	<20	8,0	1,1	<20	12,0	2	27	16,0	<1	35	20,0	7	42

$V_t = 0,2 \text{ m/s}$

Throwin isothermal conditions



LINEAR GRILLE
WITH FIXED BLADES
WITHOUT FRAME

UFI
SERIES

PERFORMANCE

L x H	Q = 100 [m ³ /h]			Q = 200 [m ³ /h]			Q = 300 [m ³ /h]			Q = 400 [m ³ /h]			Q = 500 [m ³ /h]			Q = 600 [m ³ /h]		
	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa
300	2,8	1,9	<20	5,7	7,6	33	8,5	17,1	45									
400	2,4	1,1	<20	4,9	4,3	25	7,3	9,6	38									
500	2,2	<1	<20	4,4	2,7	<20	6,6	6,2	32	8,8	11	40						
600	2,0	<1	<20	4,0	1,9	<20	6,0	4,3	27	8,0	8	36	10,0	<1	42			
800	1,7	<1	<20	3,5	1,1	<20	5,2	2,4	<20	6,9	4	28	8,7	<1	35	10,4	10	41
1000	1,5	<1	<20	3,1	0,7	<20	4,6	1,5	<20	6,2	3	23	7,7	<1	29	9,3	6	35
300	2,4	1,1	<20	4,9	4,3	25	7,3	9,6	38									
400	2,1	<1	<20	4,2	2,4	<20	6,4	5,4	30	8,5	10	39						
500	1,9	<1	<20	3,8	1,5	<20	5,7	3,5	25	7,6	6	33	9,5	<1	40			
600	1,7	<1	<20	3,5	1,1	<20	5,2	2,4	<20	6,9	4	28	8,7	<1	35	10,4	10	41
800	1,5	<1	<20	3,0	0,6	<20	4,5	1,4	<20	6,0	2	21	7,5	<1	28	9,0	5	33
1000	1,3	<1	<20	2,7	0,4	<20	4,0	<1	<20	5,4	2	<20	6,7	<1	22	8,0	3	28
400	1,7	<1	<20	3,5	1,1	<20	5,2	2,4	<20	6,9	4	28	8,7	<1	35	10,4	10	41
500	1,5	<1	<20	3,1	0,7	<20	4,6	1,5	<20	6,2	3	23	7,7	<1	29	9,3	6	35
600	1,4	<1	<20	2,8	0,5	<20	4,2	1,1	<20	5,7	2	<20	7,1	<1	25	8,5	4	30
800	1,2	<1	<20	2,4	0,3	<20	3,7	<1	<20	4,9	1	<20	6,1	<1	<20	7,3	2	23
1000	1,1	<1	<20	2,2	0,2	<20	3,3	<1	<20	4,4	<1	<20	5,5	<1	<20	6,6	2	<20
400	1,5	<1	<20	3,0	0,6	<20	4,5	1,4	<20	6,0	2	21	7,5	<1	28	9,0	5	33
500	1,3	<1	<20	2,7	0,4	<20	4,0	<1	<20	5,4	2	<20	6,7	<1	22	8,0	3	28
600	1,2	<1	<20	2,4	0,3	<20	3,7	<1	<20	4,9	1	<20	6,1	<1	<20	7,3	2	23
800	1,1	<1	<20	2,1	0,2	<20	3,2	<1	<20	4,2	<1	<20	5,3	<1	<20	6,4	1	<20
1000	0,9	<1	<20	1,9	0,1	<20	2,8	<1	<20	3,8	<1	<20	4,7	<1	<20	5,7	<1	<20

V_t = 0,2 m/s

Throwin isothermal conditions

L x H	Q = 700 [m ³ /h]			Q = 800 [m ³ /h]			Q = 1000 [m ³ /h]			Q = 1500 [m ³ /h]			Q = 2000 [m ³ /h]			Q = 2500 [m ³ /h]		
	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa
300																		
400																		
500																		
600																		
800	10,5	7,4	38	12,0	9,6	42												
1000	9,4	4,7	32	10,7	6,2	36	13,4	9,6	43									
400																		
500	10,8	8,4	39	12,4	11,0	43												
600	9,9	5,8	35	11,3	7,6	39												
800	8,6	3,3	27	9,8	4,3	31	12,2	6,7	38									
1000	7,7	2,1	22	8,8	2,7	26	11,0	4,3	32	16,4	10	45						
400	10,5	7,4	38	12,0	9,6	42												
500	9,4	4,7	32	10,7	6,2	36	13,4	9,6	43									
600	8,6	3,3	27	9,8	4,3	31	12,2	6,7	38									
800	7,4	1,8	20	8,5	2,4	24	10,6	3,8	31	15,9	8	43						
1000	6,6	1,2	<20	7,6	1,5	<20	9,5	2,4	25	14,2	5	37						
500	7,7	2,1	22	8,8	2,7	26	11,0	4,3	32	16,4	10	45						
600	7,0	1,5	<20	8,0	1,9	21	10,0	3,0	28	15,0	7	40						
800	6,1	<1	<20	6,9	1,1	<20	8,7	1,7	20	13,0	4	33	17,3	<1	41			
1000	5,4	<1	<20	6,2	0,7	<20	7,7	1,1	<20	11,6	2	27	15,5	<1	35	19,4	7	42

V_t = 0,2 m/s

Throwin isothermal conditions



LINEAR GRILLE
WITH FIXED BLADES
WITH FRAME

UFO
SERIES



PERFORMANCE

L x H	Q = 100 [m ³ /h]			Q = 200 [m ³ /h]			Q = 300 [m ³ /h]			Q = 400 [m ³ /h]			Q = 500 [m ³ /h]			Q = 600 [m ³ /h]		
	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa
300	4,1	7,7	30															
400	3,5	4,1	22	7,0	16,2	42												
500	3,1	2,5	<20	6,2	10,0	36												
600	2,8	1,7	<20	5,7	6,8	31	8,5	15,3	43									
800	2,4	<1	<20	4,9	3,7	24	7,3	8,4	36	9,7	15	44						
1000	2,2	<1	<20	4,3	2,3	<20	6,5	5,3	30	8,7	9	38						
300	3,3	3,0	<20	6,5	12,0	39												
400	2,8	1,6	<20	5,6	6,4	31	8,4	14,3	43									
500	2,5	<1	<20	4,9	3,9	24	7,4	8,9	36									
600	2,2	<1	<20	4,5	2,7	<20	6,7	6,0	32	9,0	11	40						
800	1,9	<1	<20	3,9	1,5	<20	5,8	3,3	24	7,7	6	32	9,6	<1	39	11,6	13	45
1000	1,7	<1	<20	3,4	0,9	<20	5,2	2,1	<20	6,9	4	26	8,6	<1	33	10,3	8	39
400	2,1	<1	<20	4,2	2,1	<20	6,3	4,7	28	8,4	8	37	10,6	<1	44			
500	1,9	<1	<20	3,7	1,3	<20	5,6	2,9	22	7,5	5	31	9,4	<1	38	11,2	12	43
600	1,7	<1	<20	3,4	0,9	<20	5,1	2,0	<20	6,8	4	26	8,5	<1	33	10,2	8	38
800	1,5	<1	<20	2,9	0,5	<20	4,4	1,1	<20	5,8	2	<20	7,3	<1	25	8,8	4	30
1000	1,3	<1	<20	2,6	0,3	<20	3,9	<1	<20	5,2	1	<20	6,5	<1	<20	7,8	3	24
400	1,8	<1	<20	3,5	1,0	<20	5,3	2,3	<20	7,1	4	28	8,8	<1	35	10,6	9	40
500	1,6	<1	<20	3,1	0,6	<20	4,7	1,4	<20	6,3	3	22	7,8	<1	28	9,4	6	34
600	1,4	<1	<20	2,8	0,4	<20	4,3	<1	<20	5,7	2	<20	7,1	<1	23	8,5	4	29
800	1,2	<1	<20	2,4	0,2	<20	3,7	<1	<20	4,9	<1	<20	6,1	<1	<20	7,3	2	21
1000	1,1	<1	<20	2,2	0,1	<20	3,3	<1	<20	4,4	<1	<20	5,4	<1	<20	6,5	1	<20

V_t = 0,2 m/s

Throwin isothermal conditions

L x H	Q = 700 [m ³ /h]			Q = 800 [m ³ /h]			Q = 1000 [m ³ /h]			Q = 1500 [m ³ /h]			Q = 2000 [m ³ /h]			Q = 2500 [m ³ /h]		
	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa
300																		
400																		
500																		
600																		
800																		
1000	12,0	11,2	43															
400																		
500																		
600	11,9	10,7	43															
800	10,2	5,9	35	11,7	7,7	39												
1000	9,1	3,7	29	10,4	4,8	33	13,0	7,5	40									
400	12,4	12,6	45															
500	11,0	7,8	38	12,5	10,1	42												
600	9,9	5,3	34	11,4	6,9	38	14,2	10,7	44									
800	8,6	2,9	26	9,8	3,8	30	12,2	5,9	36									
1000	7,6	1,8	<20	8,7	2,4	24	10,9	3,7	31	16,3	8	43						
500	8,7	3,0	26	9,9	4,0	30	12,4	6,2	37									
600	7,9	2,1	22	9,0	2,7	26	11,2	4,2	32	16,9	9	44						
800	6,8	1,1	<20	7,7	1,5	<20	9,7	2,3	24	14,5	5	37						
1000	6,0	<1	<20	6,9	0,9	<20	8,6	1,4	<20	12,9	3	31	17,2	<1	39			

V_t = 0,2 m/s

Throwin isothermal conditions



LINEAR GRILLE
WITH FIXED BLADES
WITH FRAME

UFI
SERIES



PERFORMANCE

L x H	Q = 100 [m ³ /h]			Q = 200 [m ³ /h]			Q = 300 [m ³ /h]			Q = 400 [m ³ /h]			Q = 500 [m ³ /h]			Q = 600 [m ³ /h]		
	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa
300	4,0	7,7	30															
400	3,4	4,1	22	6,8	16,2	42												
500	3,0	2,5	<20	6,1	10,0	36												
600	2,7	1,7	<20	5,5	6,8	31	8,2	15,3	43									
800	2,4	<1	<20	4,7	3,7	24	7,1	8,4	36	9,5	15	44						
1000	2,1	<1	<20	4,2	2,3	<20	6,3	5,3	30	8,4	9	38						
300	3,2	3,0	<20	6,3	12,0	39												
400	2,7	1,6	<20	5,4	6,4	31	8,1	14,3	43									
500	2,4	<1	<20	4,8	3,9	24	7,2	8,9	36									
600	2,2	<1	<20	4,4	2,7	<20	6,5	6,0	32	8,7	11	40						
800	1,9	<1	<20	3,7	1,5	<20	5,6	3,3	24	7,5	6	32	9,4	<1	39	11,2	13	45
1000	1,7	<1	<20	3,3	0,9	<20	5,0	2,1	<20	6,7	4	26	8,3	<1	33	10,0	8	39
400	2,0	<1	<20	4,1	2,1	<20	6,1	4,7	28	8,2	8	37	10,2	<1	44			
500	1,8	<1	<20	3,6	1,3	<20	5,4	2,9	22	7,3	5	31	9,1	<1	38	10,9	12	43
600	1,6	<1	<20	3,3	0,9	<20	4,9	2,0	<20	6,6	4	26	8,2	<1	33	9,9	8	38
800	1,4	<1	<20	2,8	0,5	<20	4,2	1,1	<20	5,7	2	<20	7,1	<1	25	8,5	4	30
1000	1,3	<1	<20	2,5	0,3	<20	3,8	<1	<20	5,0	1	<20	6,3	<1	<20	7,6	3	24
400	1,7	<1	<20	3,4	1,0	<20	5,1	2,3	<20	6,9	4	28	8,6	<1	35	10,3	9	40
500	1,5	<1	<20	3,0	0,6	<20	4,6	1,4	<20	6,1	3	22	7,6	<1	28	9,1	6	34
600	1,4	<1	<20	2,8	0,4	<20	4,1	<1	<20	5,5	2	<20	6,9	<1	23	8,3	4	29
800	1,2	<1	<20	2,4	0,2	<20	3,6	<1	<20	4,7	<1	<20	5,9	<1	<20	7,1	2	21
1000	1,1	<1	<20	2,1	0,1	<20	3,2	<1	<20	4,2	<1	<20	5,3	<1	<20	6,3	1	<20

V_t = 0,2 m/s

Throw in isothermal conditions

L x H	Q = 700 [m ³ /h]			Q = 800 [m ³ /h]			Q = 1000 [m ³ /h]			Q = 1500 [m ³ /h]			Q = 2000 [m ³ /h]			Q = 2500 [m ³ /h]		
	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa	T [m]	Δpt [Pa]	Lw dBa
300																		
400																		
500																		
600																		
800																		
1000	11,7	11,2	43															
400																		
500																		
600	11,5	10,7	43															
800	9,9	5,9	35	11,3	7,7	39												
1000	8,8	3,7	29	10,1	4,8	33	12,6	7,5	40									
400	12,0	12,6	45															
500	10,6	7,8	38	12,2	10,1	42												
600	9,6	5,3	34	11,0	6,9	38	13,8	10,7	44									
800	8,3	2,9	26	9,5	3,8	30	11,9	5,9	36									
1000	7,4	1,8	<20	8,4	2,4	24	10,6	3,7	31	15,8	8	43						
500	8,4	3,0	26	9,6	4,0	30	12,0	6,2	37									
600	7,6	2,1	22	8,7	2,7	26	10,9	4,2	32	16,4	9	44						
800	6,6	1,1	<20	7,5	1,5	<20	9,4	2,3	24	14,1	5	37						
1000	5,8	<1	<20	6,7	0,9	<20	8,3	1,4	<20	12,5	3	31	16,7	<1	39			

V_t = 0,2 m/s

Throw in isothermal conditions





SUPPLY DIFFUSERS WITH CURVED BLADES

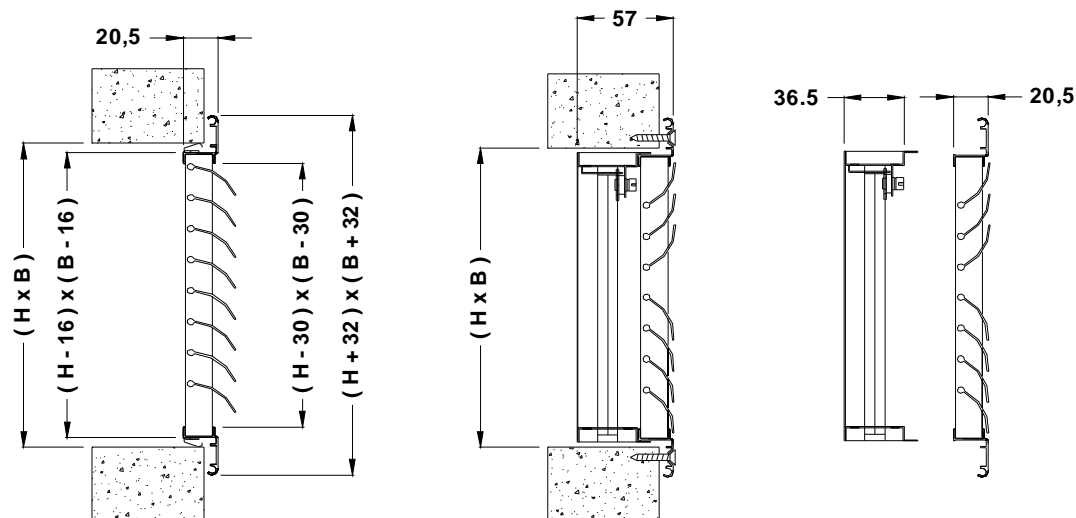
KG
SERIES

OVERVIEW TECHNICAL CHARACTERISTICS

OVERVIEW AND CHARACTERISTICS :

The KG series is made up of a range of fully adjustable inlets, with curved blades that can be oriented individually, arranged in one or two ranks. The first horizontal rank of curved blades is used to control the way the air is emitted, and controls the angle the airflow is deflected. The second horizontal rank with straight blades, when fitted, is used to correct the lateral direction in which the air moves.

Frame : In extruded aluminium, 25 mm in width, with rounded edges and made up in four parts, which are connected to one another invisibly using a mechanical assembly system. Blades : In extruded aluminium at 20 mm centres, hinged on a self-locking nylon track, which is inserted into the frame. Transverse reinforcing : Included for all the diffusers which are longer than 600 mm. Damper : Made entirely of steel, with multiple fins that move in opposite directions. Counterframe: Rigid structure in steel sheet suitable for installing using exposed screws and hidden clips. Installing the diffuser on a wall or ceiling: Done using a system without screws and with clips and a counterframe, with the screw system traditionally used directly on the ducting or wall, or using clips or screws directly into the plenum chamber. Finish : The KG series is made in natural anodised aluminium or with an epoxy powder coating finish - colour RAL 9010.

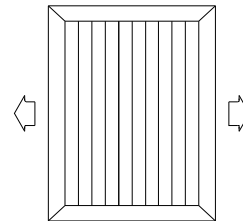
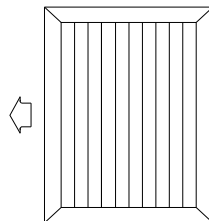
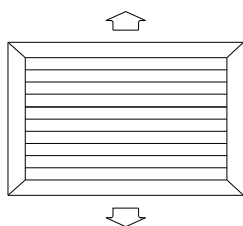
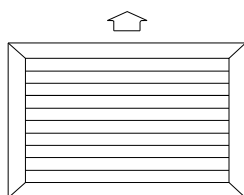


KG1L

KG2L

KG1C

KG2C







SUPPLY GRILLE FOR CIRCULAR DUCT

UDC
SERIES

OVERVIEW

CHARACTERISTICS :

The UDC grille, purposely studied for the installation on circular ducts, is different due to the realization of the profile in a single Anodized extruded natural aluminium body, with moulded frontal profile, horizontal and vertical blades to adjustable shape of drop singularly, in Anodized extruded aluminium natural, with moulded front, horizontal and vertical adjustable drop shaped blades, each one adjustable independently, all in anodized extruded natural aluminium. The particular geometry and the interchangeable ends (made in ABS, class 1, antistatic) purposely designed (patent P.T. MI2003A001089), allow it to adapt to the different diameters ($\varnothing 200 \div \varnothing 800$) of the ducts. In this way, there is the possibility of using one single item for the different diameters, with the advantage of not having to order different models but simply of changing the grille ends, resulting in a quick installation and a complete adaptability to the duct. The original design of the grille, also allows the installation on a calibration sliding damper or a collection damper, without the need to vary the space used.

ACCESSORIES :

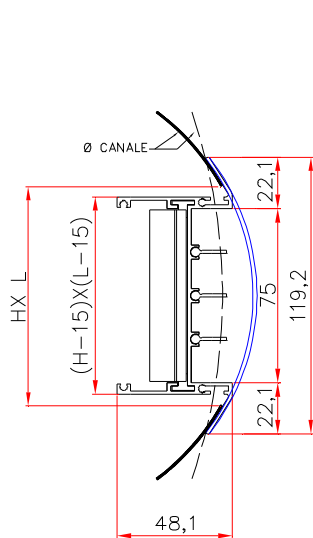
Sliding calibrating damper, collection damper and Ends.

INSTALLATION :

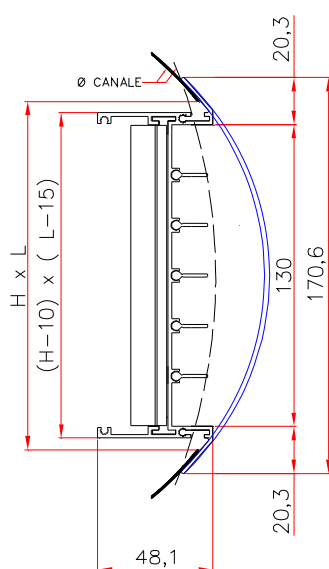
Fixing on duct with visible screws through the front of the grille.

ASSEMBLY DRAWINGS :

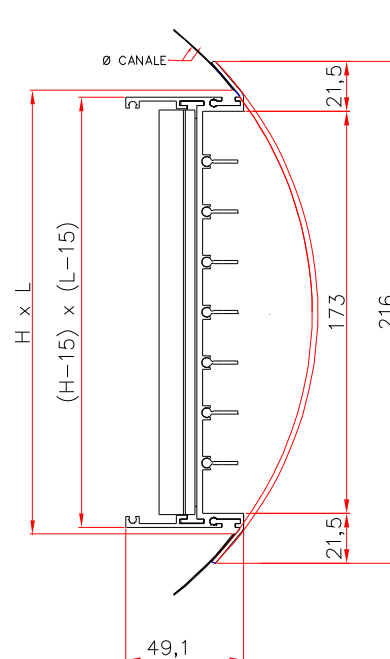
UDC 100



UDC 150



UDC 200



Note : When ordering specify the diameter for the correct installation of the end caps.

If necessary it is possible to substitute at a later stage the end caps to adapt the grill to ducts with a smaller diameter than firstly intended.



SUPPLY GRILLE FOR CIRCULAR DUCT

UDC
SERIES

PERFORMANCE

UDC 100 MODEL

L	H	Q	T	Δp	Lw	Ak
mm	mm	m ³ /h	m	Pa	dBa	m ²
200	100	100	4,2	3	<20	0,015
300	100		3,2	1	<20	0,023
200	100	200	8,4	12	<20	0,015
300	100		6,4	5	<20	0,023
400	100		5,3	3	<20	0,030
200	100	300	12,7	26	30	0,015
300	100		9,6	12	20	0,023
400	100		7,9	7	<20	0,030
500	100		6,8	4	<20	0,038
300	100	350	11,2	16	24	0,023
400	100		9,2	9	<20	0,030
500	100		7,9	6	<20	0,038
600	100	400	7,0	4	<20	0,045
400	100		10,6	12	21	0,030
500	100		9,1	7	<20	0,038
600	100		8,0	5	<20	0,045
800	100		6,6	3	<20	0,060
1000	100		5,7	2	<20	0,075

L	H	Q	T	Δp	Lw	Ak
mm	mm	m ³ /h	m	Pa	dBa	m ²
400	100	500	13,2	18	27	0,030
500	100		11,3	12	22	0,038
600	100		10,0	8	<20	0,045
800	100		8,3	5	<20	0,060
1000	100	600	7,2	3	<20	0,075
500	100		13,6	17	33	0,038
600	100		12,1	12	27	0,045
800	100		10,0	7	22	0,060
1000	100	700	8,6	4	<20	0,075
600	100		14,1	16	27	0,045
800	100		11,7	9	20	0,060
1000	100	800	10,0	6	<20	0,075
800	100		13,3	12	24	0,060
1000	100	900	11,4	7	<20	0,075
800	100		15,0	15	27	0,060
1000	100	1000	12,9	9	21	0,075
800	100		16,6	18	30	0,060
1000	100		14,3	12	25	0,075

UDC 150 MODEL

L	H	Q	T	Δp	Lw	Ak
mm	mm	m ³ /h	m	Pa	dBa	m ²
200	150	200	5,3	3	<20	0,026
300	150		4,1	1	<20	0,039
200	150	300	7,9	7	<20	0,026
300	150		6,1	3	<20	0,039
400	150	400	5,1	2	<20	0,052
200	150		10,7	12	24	0,026
300	150		8,1	5	<20	0,039
400	150		6,7	3	<20	0,052
500	150	500	5,7	2	<20	0,065
300	150		10,1	8	20	0,039
400	150		8,4	5	<20	0,052
500	150		7,2	3	<20	0,065
600	150	600	6,4	2	<20	0,078
400	150		10,0	7	<20	0,052
500	150		8,6	4	<20	0,065
600	150		7,6	3	<20	0,078
800	150		6,3	2	<20	0,104
1000	150		5,4	1	<20	0,130

L	H	Q	T	Δp	Lw	Ak
mm	mm	m ³ /h	m	Pa	dBa	m ²
400	150	700	11,7	9	22	0,052
500	150		10,0	6	<20	0,065
600	150		8,9	4	<20	0,078
800	150		7,4	2	<20	0,104
1000	150	800	6,3	1	<20	0,130
500	150		11,6	8	21	0,065
600	150		10,2	5	<20	0,078
800	150		8,4	3	<20	0,104
1000	150	900	7,3	2	<20	0,130
600	150		11,4	7	<20	0,078
800	150		9,5	4	<20	0,104
1000	150	1000	8,1	2	<20	0,130
800	150		10,5	5	<20	0,104
1000	150	1200	9,0	3	<20	0,130
800	150		12,5	7	20	0,104
1000	150	1500	10,9	4	<20	0,130
800	150		15,7	10	27	0,104
1000	150		13,5	7	21	0,130



SUPPLY GRILLE FOR CIRCULAR DUCT

PERFORMANCE

UDC
SERIES

UDC 200 MODEL

L	H	Q	T	Δp	Lw	Ak
mm	mm	m ³ /h	m	Pa	dBa	m ²
200	200	300	6,6	4	<20	0,036
300	200		5,1	2	<20	0,052
200	200	400	8,8	7	<20	0,036
300	200		6,7	3	<20	0,052
400	200		5,5	2	<20	0,690
200	200	500	11,0	10	23	0,036
300	200		8,4	5	<20	0,052
400	200		6,9	3	<20	0,690
500	200		5,9	2	<20	0,086
300	200	600	10,0	7	<20	0,052
400	200		8,3	4	<20	0,690
500	200		7,2	2	<20	0,086
600	200	800	6,3	2	<20	0,104
400	200		11,0	7	<20	0,690
500	200		9,5	4	<20	0,086
600	200		8,4	3	<20	0,104
800	200		6,9	2	<20	0,138
1000	200		5,9	1	<20	0,173

L	H	Q	T	Δp	Lw	Ak
mm	mm	m ³ /h	m	Pa	dBa	m ²
400	200	1000	13,8	10	25	0,690
500	200		11,9	7	20	0,086
600	200		10,5	5	<20	0,104
800	200		8,7	3	<20	0,138
1000	200		7,5	2	<20	0,173
500	200	1200	14,2	10	25	0,086
600	200		12,5	7	20	0,104
800	200		10,3	4	<20	0,138
1000	200	1300	8,9	2	<20	0,173
600	200		13,6	8	23	0,104
800	200		11,2	4	<20	0,138
1000	200	1400	9,7	3	<20	0,173
800	200		12,1	5	<20	0,138
1000	200	1600	10,5	3	<20	0,173
800	200		13,9	7	21	0,138
1000	200	1800	11,9	4	<20	0,173
800	200		15,6	8	25	0,138
1000	200		13,4	5	<20	0,173

Index

L Length (mm)

H Height (mm)

Q Air Flow (m³/h)

T Throw (m)

Δp_s Static pressure loss (Pa)

Lp Noise pressure (dBa)

Note

Noise pressure with 8dBa room absorption

Terminal velocity 0,25 m/s

distance from ceiling 300 mm

The indicated throws are for a blade angle of 0°

For installation distances between 400 and 600 mm the blades must be angled at 15° towards the ceiling

Throw is isothermic conditions $\Delta T = 0$

With $\Delta T = -11^\circ\text{C}$ (summer conditions) the throw must be multiplied by 0,9

With $\Delta T = +11^\circ\text{C}$ (winter conditions) the throw must be multiplied by 1,1



SUPPLY GRILLE FOR CIRCULAR DUCT

UDC
SERIES

AVAILABLE SIZES

The supply grills for circular ducts can be installed on different diameter.
The diameter of the duct determines the type of end cap to be applied to the grill.
The below table shows the different diameters of the possible ducts, for those diameters not shown its is possible to use the end caps for the smaller diameter up to 800mm.

GRILLS FOR CIRCULAR DUCT		DUCT DIAMETERS					
L	H	Ø	Ø	Ø	Ø	Ø	Ø
200	100	200	250	315	400	500	630
300	100	200	250	315	400	500	630
400	100	200	250	315	400	500	630
500	100	200	250	315	400	500	630
600	100	200	250	315	400	500	630
800	100	200	250	315	400	500	630
1000	100	200	250	315	400	500	630
200	150		250	315	400	500	630
300	150		250	315	400	500	630
400	150		250	315	400	500	630
500	150		250	315	400	500	630
600	150		250	315	400	500	630
800	150		250	315	400	500	630
1000	150		250	315	400	500	630
200	200			315	400	500	630
300	200			315	400	500	630
400	200			315	400	500	630
500	200			315	400	500	630
600	200			315	400	500	630
800	200			315	400	500	630
1000	200			315	400	500	630

Duct size	End piece/grill height		
	100	150	200
200	X		
250	X	X	
315	X	X	X
400	X	X	X
500	X	X	X
630	X	X	X

The grills are always supplied with end caps.
It is possible to adapt the grills to a duct size different that originally indicated by simply substituting the end caps.

For this reason it is also foreseen the supply only of spare end pieces.

UDCS Supply grill with 1 layer of blades

UDC Supply grill with 2 blade layers

UDSS Slidable damper

UDSC Collecting Damper

??? x ??? Dimensions

UDCT End caps for supply grille for circular duct

??? / ??? End caps height / Duct Diameter



SUPPLY GRILLE FOR CIRCULAR DUCT

UDC
SERIES

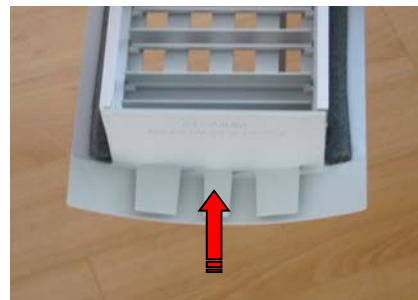


Installation

The UDC series of duct grills represent both an innovative and a highly aesthetic product. All the models are supplied with gasket to guarantee an adequate air tight seal. They are planned to guarantee a quick installation in three simple moves, as shown below.

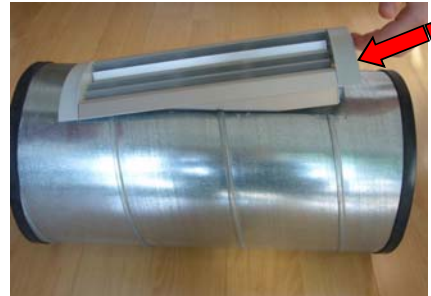
1

In the duct opening, insert the left hand side of the grill, the side with the long plastic strips.



2

Push the right hand side of the grill in the duct.



3

Push the grill to the right so as to fix it into place in the duct.

