



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 continuous 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 control 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 front 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



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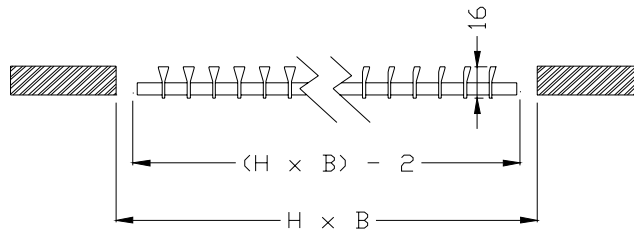
CONSTRUCTION

UF 0

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

UF 1

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

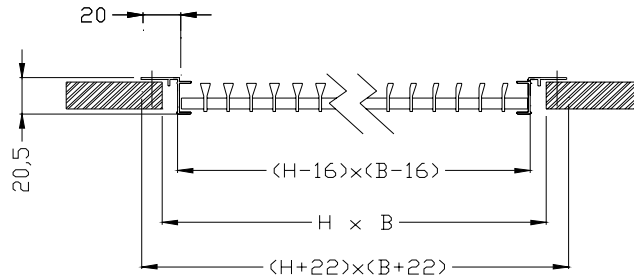


UF 0 AH

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

UF 1 AH

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

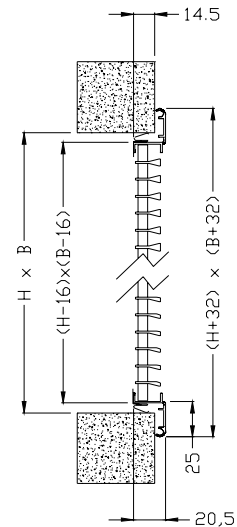


UF 0 A

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

UF 1 A

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





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CONSTRUCTION

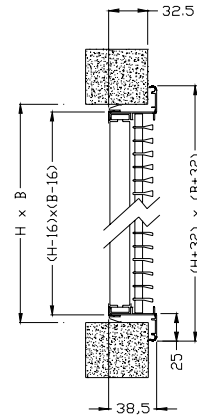
**UF
SERIES**

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

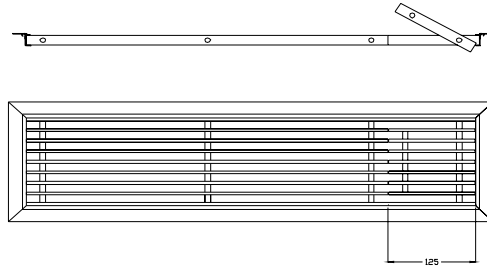
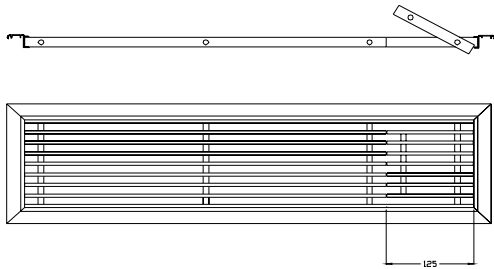
Grille with horizontal fixed blades and deflection angle 0°/15°, with high frame and grille door. In case of fixed blades with deflection angle 15° the position of the door on the left or right side is to be considered as seen from a frontal point of view with turned down deflection.

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

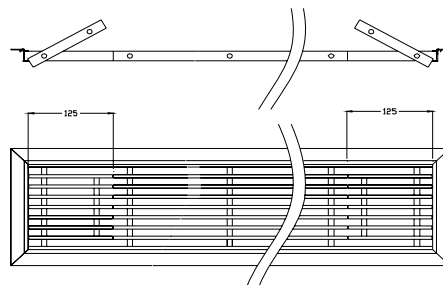
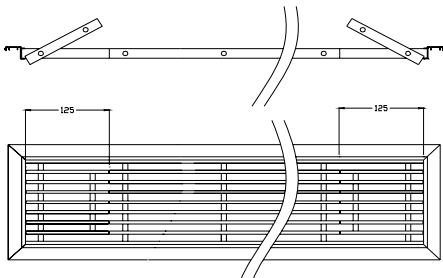
UF 1 A P2

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 .





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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]	Δps [Pa]	Lw [dBa]	T [m]	Δps [Pa]	Lw [dBa]	T [m]	Δps [Pa]	Lw [dBa]	T [m]	Δps [Pa]	Lw [dBa]	T [m]	Δps [Pa]	Lw [dBa]	T [m]	Δps [Pa]	Lw [dBa]	
300	75	4,1	7	21	8,3	27	42	10,6	32	46	11,3	24	43	12,2	20	42	13,0	18	41
400																			
500																			
600																			
800																			
1000																			
300	100				6,5	10	29	9,8	23	42	11,2	21	42						
400																			
500																			
600																			
800																			
1000																			
400	150						6,3	4	24	8,4	6	27	10,5	10	34	12,7	14	39	
500																			
600																			
800																			
1000																			
400																			
500																			
600																			
800																			
1000																			

V_t = 0,2 m/s Throw in isothermal condition

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]	Δps [Pa]	Lw [dBa]	T [m]	Δps [Pa]	Lw [dBa]	T [m]	Δps [Pa]	Lw [dBa]	T [m]	Δps [Pa]	Lw [dBa]	T [m]	Δps [Pa]	Lw [dBa]	T [m]	Δps [Pa]	Lw [dBa]	
300	100																		
400																			
500																			
600																			
800																			
1000																			
400	150																		
500																			
600																			
800																			
1000																			
400																			
500																			
600																			
800																			
1000																			
500	300																		
600																			
800																			
1000																			

V_t = 0,2 m/s Throw in isothermal condition