

MFA/UFA/UFK b

Installation – Commissioning – Maintenance

20200128

Installation

MFA, UFA and UFK are designed to be mounted horizontally in floors, window sills etc. The grille is laid in place on the grooves cut for it. MFA can be supplied with countersunk screw holes in the flange for it to be fixed to the wall. This must be clearly stated in the specifications when ordering the grille.

Grilles exceeding 2000 mm in length are constructed by putting several units together.

Commissioning

The airflow is obtained by measuring the velocity of the air through the gaps and multiplying by the net area.

Example, MFA-10 with 5 air slots:

Read of the net area in the table on page 2, which is 0,05 m².
Multiply with the air velocity (in our example 5 m/s).

$$0,05 \times 5 = 0,25 \text{ m}^3/\text{s} = 250 \text{ l/s}$$

Maintenance

The grille is cleaned when necessary using lukewarm water with detergent added.

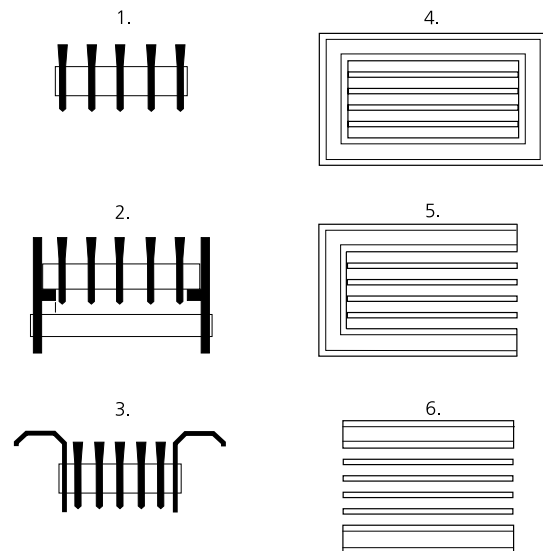


Figure 1.

1. Model UFA
2. Model UFK
3. Model MFA
4. Flange A for MFA
5. Flange B for MFA
6. Flange C for MFA

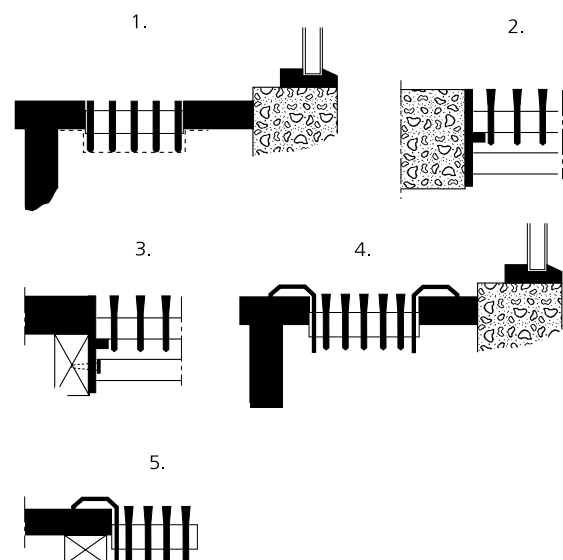


Figure 2.

1. UFA in window sill
2. UFK in floor
3. UFK in floor
4. MFA in window sill
5. MFA in floor

Dimensions and weight

The UNIVERSAL GRILLE has the following dimensions:

Length: As desired from 200 mm to 2000 mm in one and the same unit.

Height: See the table below. This dimension depends on the number of slots. Grilles with heights exceeding 200 mm are not recommended for installation in floors.

Grilles with 5 mm gap between blades

No. of air slots	Grille height (inlet dim.), H mm		Free area in m ² per 1000 mm length
	MFA-5	UFA-5	
3	27	-	0.015
4	36	40	0.020
5	45	49	0.025
6	54	58	0.030
7	63	67	0.035
8	72	76	0.040
9	81	85	0.045
10	90	94	0.050

Hole cutting size: MFA: H + 8 mm x L + 5 mm.

UFA, UFK: H + 8 mm x L + 2 mm.

Grilles with 10 mm gap between blades

No. of air slots	Grille height (inlet dim.), H mm			Free area in m ² per 1000 mm length
	MFA-10	UFA-10	UFK-10	
2	28	32	-	0.02
3	42	46	-	0.03
4	56	60	-	0.04
5	70	74	74	0.05
6	84	88	88	0.06
7	98	102	102	0.07
8	112	116	116	0.08
9	126	130	130	0.09
10	140	144	144	0.10

Hole cutting size: MFA: H + 8 mm x L + 5 mm.

UFA, UFK: H + 8 mm x L + 2 mm.

Grilles with 14 mm gap between blades

No. of air slots	Grille height (inlet dim.), H mm			Free area in m ² per 1000 mm length
	MFA-14	UFA-14	UFK-14	
2	36	40	-	0.028
3	54	58	-	0.042
4	72	76	76	0.056
5	90	94	94	0.070
6	108	112	112	0.084
7	126	130	130	0.098
8	144	148	148	0.112
9	162	166	166	0.126
10	180	184	184	0.140

Hole cutting size: MFA: H + 8 mm x L + 5 mm.

UFA, UFK: H + 8 mm x L + 2 mm.

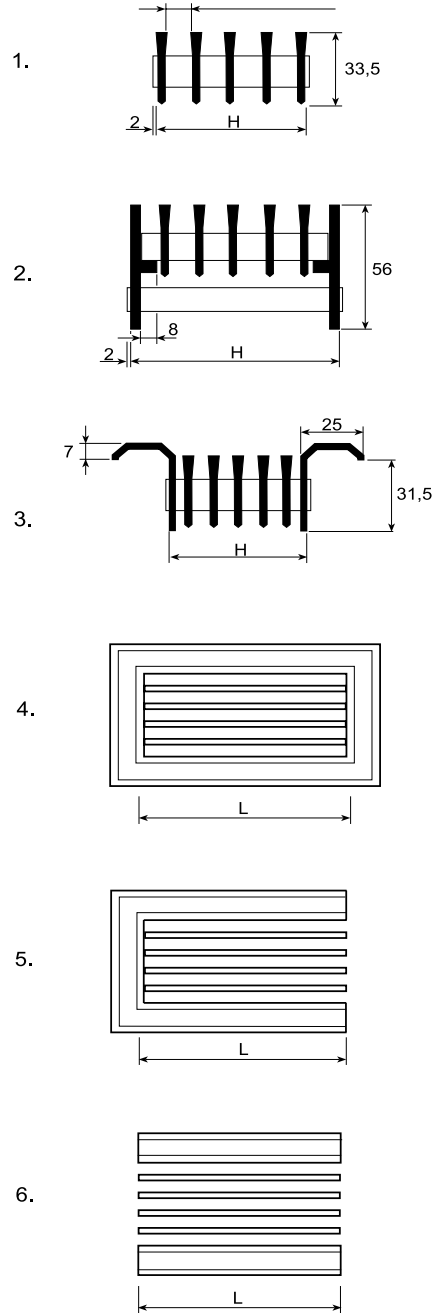


Figure 3. Dimensions.

- 1. Model UFA
- 2. Model UFK
- 3. Model MFA
- 4. Flange A for MFA
- 5. Flange B for MFA
- 6. Flange C for MFA
- 7. Width of slot: 5, 10, 14 mm (UFK min. 10 mm)