

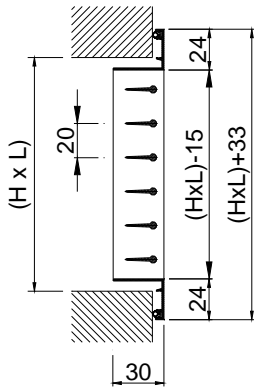
AMT single deflection grilles for air supply



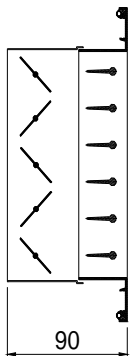
MADEL®

The **AMT** series grilles are designed to be used in air-conditioning, ventilation and heating. They are mounted on walls or false ceilings. The direction of the blades can be altered, making it possible to graduate the extent, the height or the width of the air stream.

AMT



AMT + SP



CLASSIFICATION

AMT Grille with blades parallels to the largest side (L size).

BMT Grille with blades parallels to the shortest side (H size).

MATERIAL

AMT-...

BMT-...

...-AN Grille in extruded aluminium.

...-N Grille in galvanised steel.

ADDITIONAL ACCESSORIES

SP Opposed blades volume damper from electro-zinc steel, in black colour. The damper is operated by an easily accessible key inside the grille. The damper is held in place by "S" springs.

FIXING SYSTEMS

- (S) Clips. It requires mounting frame CM.
- (O) Hidden screw. It requires mounting frame CM.
- (T) Visible screws.

FINISHES

...-AN

AA Matt silver anodised.

M9016 Painted in white similar to RAL 9016.

R9010 Painted in white RAL 9010.

...-N

M9006 Painted in grey similar to RAL 9006.

M9016 Painted in white similar to RAL 9016.

R9010 Painted in white RAL 9010.

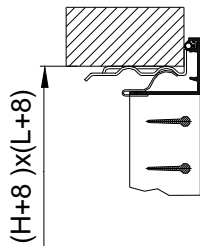
RAL... Painted in other RAL colours.

SPECIFICATION TEXT

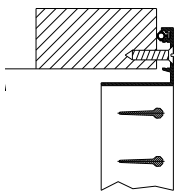
Supply and mounting of single deflection grille for air supply with individually adjustable blades parallels to the largest side serie

AMT-AN+SP+CM (S) M9016 dim. LxH, constructed from aluminium paint in white **M9016** with opposed blades volume damper from electro-zinc steel in black colour **SP**, invisible fixing by clips **(S)** and mounting frame **CM**. Manufacturer **MADEL**.

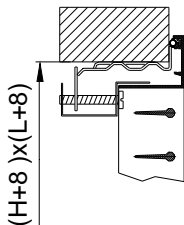
(S)



(T)



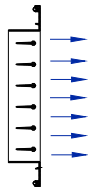
(O)



AMT

FREE FACE AREA m².

H \ L	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000
100	0,006	0,009	0,013	0,017	0,020	0,024	0,027	0,031	0,034	0,038	0,041	0,049	0,056	0,063	0,070
150	0,009	0,015	0,021	0,026	0,032	0,037	0,043	0,049	0,054	0,060	0,066	0,077	0,088	0,099	0,110
200	0,012	0,020	0,027	0,035	0,042	0,050	0,057	0,064	0,072	0,079	0,087	0,102	0,116	0,131	0,146
250	0,016	0,025	0,035	0,044	0,054	0,063	0,073	0,082	0,092	0,101	0,111	0,130	0,149	0,168	0,187
300	0,019	0,030	0,042	0,053	0,064	0,076	0,087	0,098	0,109	0,121	0,132	0,155	0,178	0,200	0,223
350	0,023	0,036	0,049	0,063	0,076	0,089	0,103	0,116	0,129	0,143	0,156	0,183	0,210	0,236	0,263
400	0,026	0,041	0,056	0,071	0,086	0,101	0,117	0,132	0,147	0,162	0,178	0,208	0,238	0,269	0,299
450	0,029	0,046	0,064	0,081	0,098	0,115	0,132	0,150	0,167	0,184	0,202	0,236	0,271	0,305	0,340



RECOMMENDED VELOCITY.

Vmin m/s	Vmax m/s
2	3.5

Determination of air flow.
Measuring the Vf in different points of the grille, we find the Vfmed.

$$Q \text{ (l/s)} = V_{\text{fmed}} \text{ (m/s)} \cdot A_{\text{free}} \text{ (m}^2\text{)} \cdot 1000$$

$$Q \text{ (m}^3\text{/h)} = V_{\text{fmed}} \text{ (m/s)} \cdot A_{\text{free}} \text{ (m}^2\text{)} \cdot 3600$$

CORRECTION FACTOR FOR Lwa1.

Afree m ²	0,01	0,02	0,05	0,1	0,2	0,4
Lwa1(kf)	-10	-8	-1	-	+6	+10

Weighted noise level related to
Afree = 0,1m².

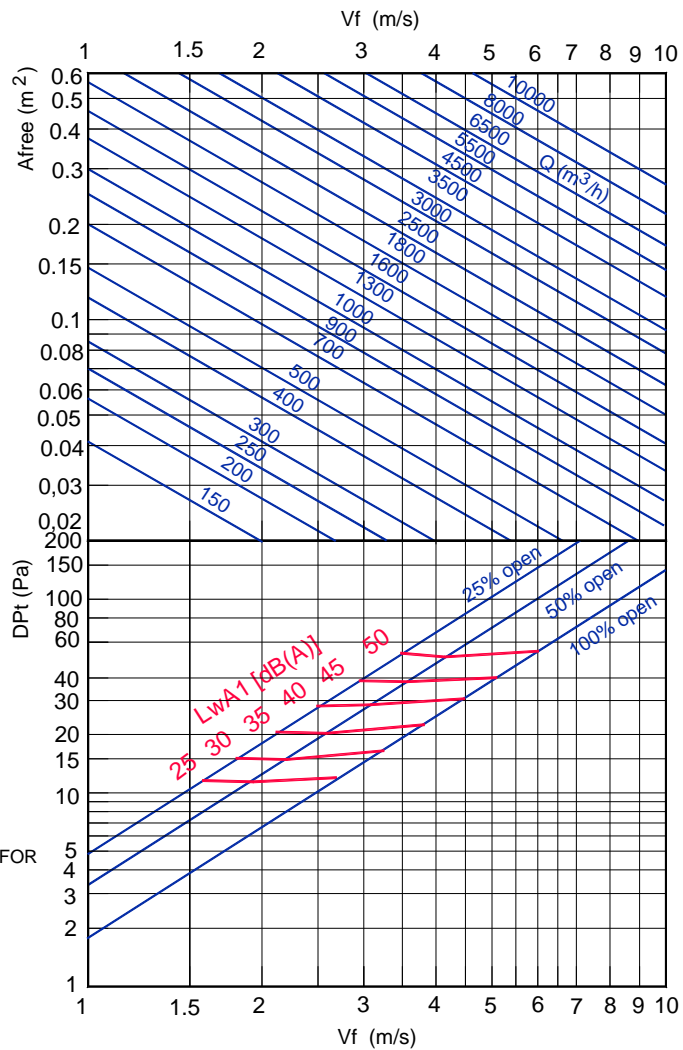
$$L_{\text{wa}} = L_{\text{wa1}} + K_{\text{f}}$$

CORRECTION FACTOR OF PRESSURE LOSS FOR DIFFERENT BLADES POSITIONS.

Kp	0°	22°	45°
Kp	1	1,28	1,5

$$D_{\text{pt}}' = D_{\text{pt}} \times K_{\text{p}}$$

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.



Note: In MadelMedia Octava band centre frequency in Hz.

