

## AMT-AC curved blades ceiling grilles



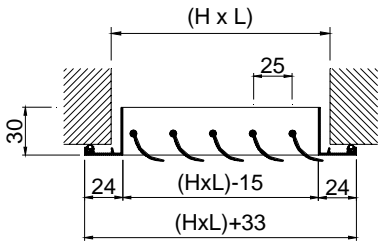
MADEL®

The **AMT-AC** series grilles are designed to be used in air-conditioning, ventilation and heating.

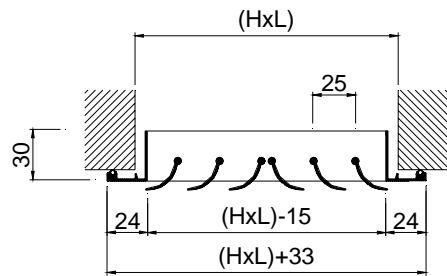
The individually adjustable curved blades are for installation in ceilings, to be used in premises from 2,6 metres high, where a good distribution of cold air is achieved.



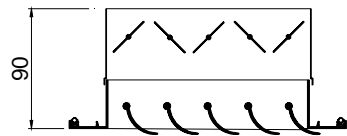
**AMT-AC**



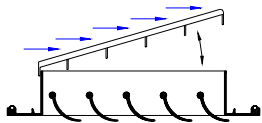
**AMT-ACO**



**AMT-AC + SP**



**AMT-AC + FD**



**CLASSIFICATION**

**AMT-AC** One-Way grille with blades parallels to the largest side (cota L).

**AMT-ACO** Two-Way grille with blades parallels to the largest side (cota L).

**BMT-AC** One-Way grille with blades parallels to the shortest side (cota H).

**BMT-ACO** Two-Way grille with blades parallels to the shortest side (cota H).

**MATERIAL**

Extruded aluminium grilles. All the grilles are provided with a seal on the back of the frame in order that the perimeter in contact with ceilings is airtight.

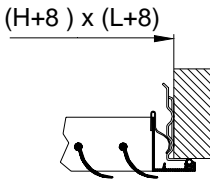
**ADDITIONAL ACCESSORIES**

**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.

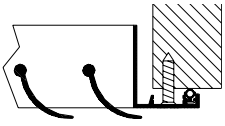
**FD** Flap damper with inclined moveable control, constructed in galvanised steel with black enamel.



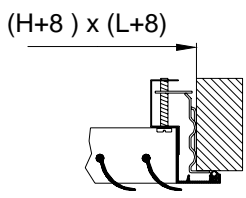
**(S)**



**(T)**



**(O)**



**FIXING SYSTEMS**

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

**FINISHES**

- AA** Matt silver anodised.
- M9016** Painted in white similar to RAL 9016.
- RAL...** Painted in other RAL colours.

**SPECIFICATION TEXT**

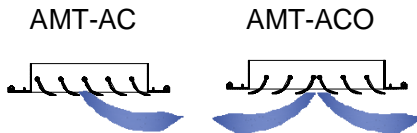
Supply and mounting of grille in One-Way for air supply with individually adjustable curved blades parallels to the largest side serie **AMT-AC+SP+CM (S) M9016 dim. LxH**, constructed from aluminium paint in white **M9016** with opposed blades volume damper from electro-zinc steel in black colour **SP**, invisible fixing by clips **(S)** and mounting frame **CM**. Manufacturer **MADEL**.

## AMT-AC

FREE FACE AREA m2.

| H \ L | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 700   | 800   | 900   | 1000  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 100   | 0,004 | 0,006 | 0,008 | 0,01  | 0,012 | 0,013 | 0,015 | 0,017 | 0,020 | 0,023 | 0,027 | 0,03  | 0,034 |
| 150   | 0,007 | 0,01  | 0,013 | 0,016 | 0,019 | 0,021 | 0,024 | 0,027 | 0,032 | 0,038 | 0,043 | 0,048 | 0,054 |
| 200   | 0,01  | 0,014 | 0,018 | 0,022 | 0,025 | 0,029 | 0,033 | 0,037 | 0,044 | 0,052 | 0,059 | 0,066 | 0,074 |
| 250   | 0,013 | 0,018 | 0,023 | 0,027 | 0,032 | 0,037 | 0,042 | 0,047 | 0,056 | 0,066 | 0,075 | 0,084 | 0,094 |
| 300   | 0,016 | 0,021 | 0,027 | 0,033 | 0,039 | 0,045 | 0,051 | 0,059 | 0,070 | 0,082 | 0,094 | 0,106 | 0,118 |
| 350   | 0,018 | 0,025 | 0,032 | 0,039 | 0,046 | 0,053 | 0,06  | 0,067 | 0,080 | 0,094 | 0,107 | 0,12  | 0,134 |
| 400   | 0,021 | 0,029 | 0,037 | 0,045 | 0,053 | 0,061 | 0,069 | 0,077 | 0,092 | 0,108 | 0,123 | 0,138 | 0,154 |
| 450   | 0,024 | 0,033 | 0,042 | 0,051 | 0,06  | 0,069 | 0,078 | 0,087 | 0,104 | 0,122 | 0,139 | 0,156 | 0,174 |

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.



RECOMMENDED VELOCITY.

| Vmin<br>m/s | Vmax<br>m/s |
|-------------|-------------|
| 2           | 3.5         |

Determination of air flow.

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

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

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

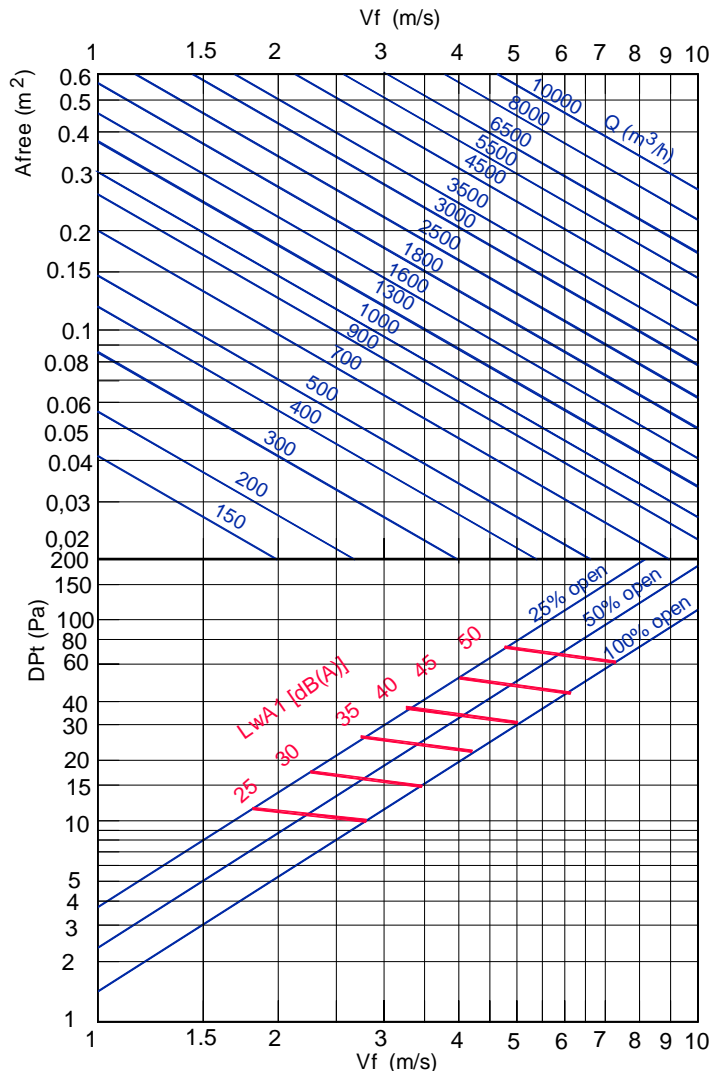
CORRECTION FACTOR FOR Lwa1.

| Afree m2 | 0,01 | 0,02 | 0,05 | 0,1 | 0,2 |
|----------|------|------|------|-----|-----|
| Lwa1(kf) | -9   | -6   | -3   | -   | +4  |

Weighted noise level related to

Afree = 0,1m2.

$$Lwa = Lwa1 + Kf$$



Note: In MadelMedia Octava band centre frequency in Hz.



