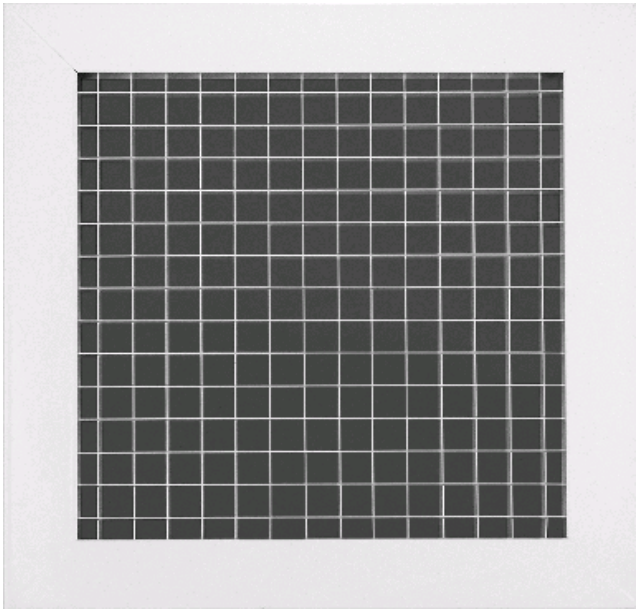
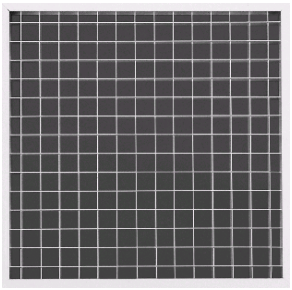




klin
SYSTEM

RMT eggcrate grilles

MADEL®

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

According to the model, they are mounted on walls, ceilings or false ceilings. They form a square netting, designed to be used in extraction.

Models:

RMT

RMT-KLIN

RMT-MOD

RMT

Classification

RMT-A Square netting grilles of 13x13 mm.

Material

Frame in extruded aluminium and netting in strips of laminated aluminium.

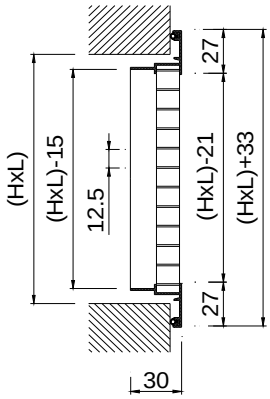
Additional accessories

SP Opposed blades damper to regulate the air flow. The damper is operated by an easily accessible key inside the grille. Constructed from electro-zinc steel, painted in black colour. The damper is held in place by “S” springs.

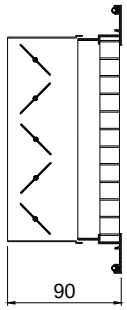
PFT Filter box made in galvanised steel with mesh and filter included (K/8 efficiency EN 779 G3). The grille is held in place by threaded knobs.

CM Mounting frame constructed from galvanised steel. It is delivered in 4 linear elements to assemble. When assembling with metallic frame, measures H and L increase 8 mm.

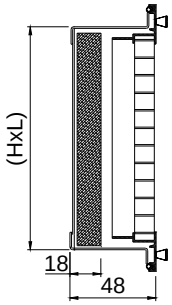
RMT-A



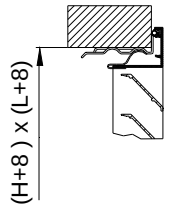
RMT-A+SP



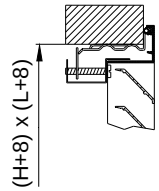
RMT-A+PFT



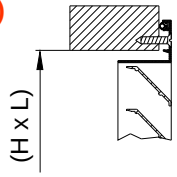
(S)



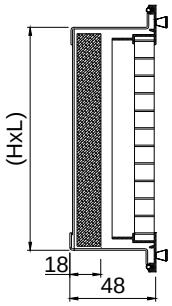
(O)



(T)



RMT-A+PFT



Fixing systems

(S) The grille is fixed in place with clips.
It requires the CM mounting frame.

(O) The grille is fixed in place by a hidden screw.
It requires the CM mounting frame.

(T) The grille is fixed in place with screws.

1) The filter box is fixed in place with screws or sidepieces. The grille is held to the PFT by threaded knobs.

Finishes

AA Matt silver anodised.

M9016 Painted in white similar to RAL 9016.

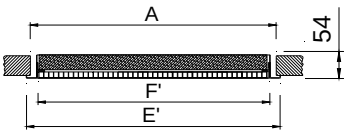
R9010 Painted in white RAL 9010.

RAL... Painted in other RAL colours.

Specification text

Supply and mounting of egg-crate grille for air return series **RMT-A+SP+CM (S) AA dim. LxH**, constructed from aluminium and anodised in matt silver **AA** with opposed blades volume damper from electro-zinc steel in black colour **SP**, invisible fixing by clips **(S)** and mounting frame **CM**. Manufacturer **MADEL**.

RMT-KLIN /RMT-KLIN +PFT



RMT-KLIN

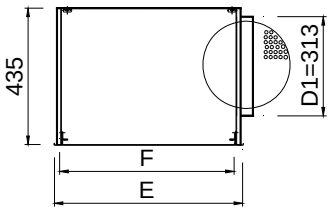
L x H	E	A	F
600	595	569	545
625	620	594	570
675	670	644	620

L x H	E	A	F
600 x 300	595 x 295	569 x 269	545 x 245

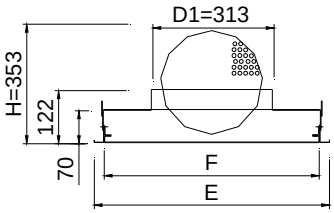
RMT-45-KLIN

	E	A	F
600	595	569	545
625	620	594	570

PLFZ/L/…-R



PLFZ…-R



	E	F	D1
600	595	545	313
625	620	570	313
675	670	620	313

L x H	E	F	D1
600 x 300	595 x 295	569 x 269	248

RMT-KLIN

Classification

RMT-KLIN Square netting grilles of 13x13 mm, hinged removable core without tools, by pressing on the invisible PUSH fasteners. By slightly pressing on the invisible latch, the core opens, remaining hinged on one side. If necessary the core can be easily removed for its maintenance, that conforms with the regulations required for maintenance of HVAC installations.

RMT-45-KLIN Square netting grille at 45º of 13x13 mm.

Material

Grilles constructed from aluminium and galvanised steel.

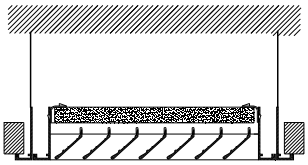
Additional accessories

PFT Filter box made in galvanised steel with mesh and filter included (K/8 class EN 779 G3).

PLFZ Plenum box fixed to the grille with an upper connection, made in galvanised steel.
…-R Plenum box with a flow damper in the spigot.
…/L/ Plenum box with a lateral connection.
…/AIS/ Plenum box thermo acoustically insulated by a foam with a coefficient of thermal conductivity of 0,04 w/mk. This foam complies with the fire reaction specifications:

UNE 23-727 M2
NFP 92-501 M2
DIN 4102 M2

(1)



Fixing systems

1) Supports to hang the assembly from the ceiling with drops rods.

Finishes

M9016 Painted in white similar to RAL 9016.

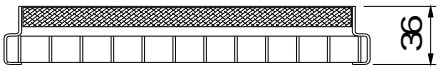
R9010 Painted in white RAL 9010.

RAL... Painted in other RAL colours.

Specification text

Supply and mounting of egg-crate grille for air return with hinged removable core without tools, by pressing on the invisible PUSH fasteners series **RMT-KLIN+PFT M9016 dim. LxH**, with filter type K/8 efficiency EN 779 G3, constructed from aluminium paint in white **M9016**.
Manufacturer **MADEL**.

RMT-MOD-PFT



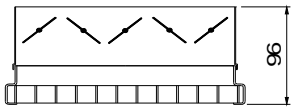
RMT-MOD

595x295
595x595
620x620

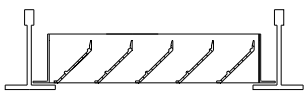
RMT-45-MOD

595x595

RMT-MOD+SP



(1)



RMT-MOD

Classification

RMT-MOD Square netting grille of 13x13 mm, specially designed to replace a false ceiling tile.

RMT-45-MOD Square netting grille at 45º of 13x13 mm.

…-MOD-PFT Grilles with filter type K/8 efficiency EN 779 G3.

Material

Grilles constructed from aluminium and galvanised steel.

Additional accessories

SP Opposed blades damper to regulate the air flow. The damper is operated by an easily accessible key inside the grille. Constructed from electro-zinc steel, painted in black colour. The damper is held in place by “S” springs.

Fixing systems

1) Suspended at the false ceiling. Replace a false ceiling plate.

Finishes

AA Matt silver anodised.

M9016 Painted in white similar to RAL 9016.

R9010 Painted in white RAL 9010.

RAL... Painted in other RAL colours.

Specification text

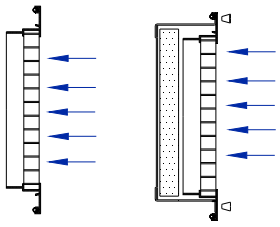
Supply and mounting of egg-crate grille for air return series **RMT-MOD+PFT AA dim. 595x595**, with filter type K/8 efficiency EN 779 G3, designed to replace false ceiling tile, constructed from aluminium and anodised in matt silver **AA**. Manufacturer **MADEL**.

RMT

FREE FACE AREA m2.

H \ L	150	200	250	300	350	400	450	500	600	700	800	900	1000
100	0,009	0,013	0,017	0,021	0,025	0,028	0,032	0,036	0,043	0,05	0,056	0,064	0,072
150	0,016	0,022	0,028	0,034	0,040	0,046	0,052	0,058	0,070	0,08	0,092	0,104	0,116
200	0,022	0,030	0,038	0,047	0,055	0,064	0,072	0,080	0,097	0,11	0,128	0,144	0,160
250	0,028	0,038	0,049	0,06	0,071	0,081	0,092	0,103	0,124	0,142	0,162	0,184	0,206
300	0,034	0,047	0,060	0,073	0,086	0,099	0,112	0,125	0,151	0,172	0,198	0,224	0,250
350	0,040	0,055	0,071	0,086	0,101	0,117	0,132	0,147	0,178	0,202	0,234	0,264	0,294
400	0,046	0,064	0,081	0,099	0,117	0,134	0,152	0,169	0,205	0,234	0,268	0,304	0,338
450	0,052	0,072	0,092	0,112	0,132	0,152	0,172	0,192	0,232	0,264	0,304	0,344	0,384
500	0,058	0,080	0,103	0,125	0,147	0,169	0,192	0,214	0,258	0,294	0,294	0,384	0,428
600	0,070	0,097	0,124	0,151	0,178	0,205	0,231	0,258	0,312	0,356	0,410	0,462	0,516

RMT-A RMT-A+PFT



RECOMMENDED VELOCITY.

Vmin m/s	Vmax m/s
1,5	3

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

Q (l/s) = Vfmed (m/s) * Afree (m2) * 1000
Q (m3/h) = Vfmed (m/s) * Afree (m2) * 3600

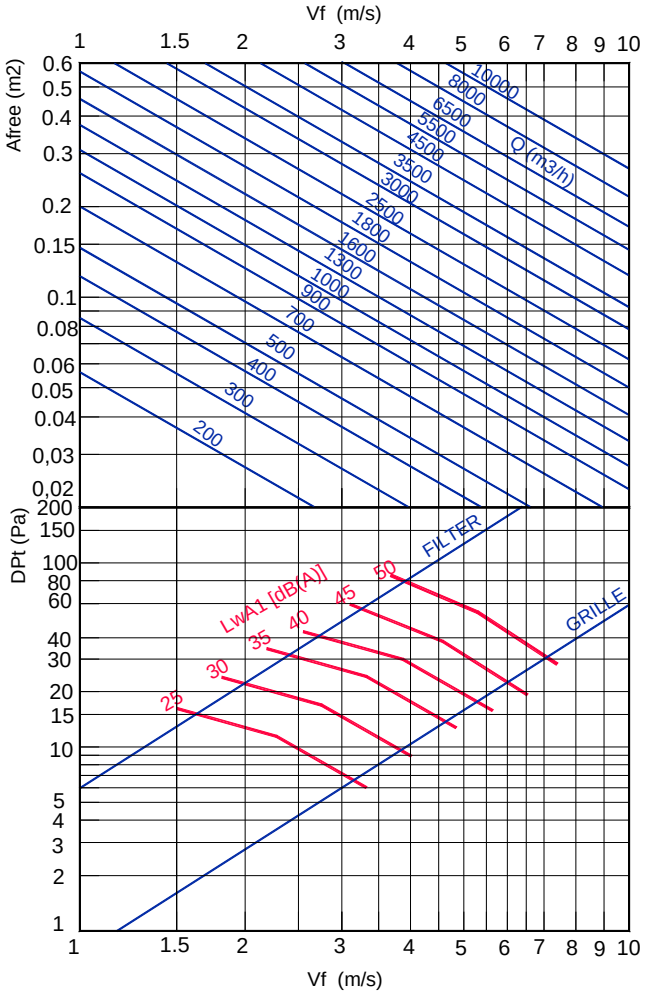
CORRECTION FACTOR FOR Lwa1.

Afree m2	0,01	0,02	0,05	0,1	0,2	0,4
Lwa1(kf)	-9	-6	-3	-	+4	+7

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

Lwa = Lwa1 + Kf

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.

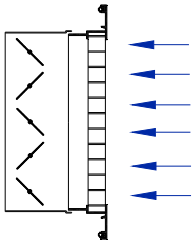


RMT

FREE FACE AREA m2.

H \ L	150	200	250	300	350	400	450	500	600	700	800	900	1000
100	0,009	0,013	0,017	0,021	0,025	0,028	0,032	0,036	0,043	0,05	0,056	0,064	0,072
150	0,016	0,022	0,028	0,034	0,040	0,046	0,052	0,058	0,070	0,08	0,092	0,104	0,116
200	0,022	0,030	0,038	0,047	0,055	0,064	0,072	0,080	0,097	0,11	0,128	0,144	0,160
250	0,028	0,038	0,049	0,06	0,071	0,081	0,092	0,103	0,124	0,142	0,162	0,184	0,206
300	0,034	0,047	0,060	0,073	0,086	0,099	0,112	0,125	0,151	0,172	0,198	0,224	0,250
350	0,040	0,055	0,071	0,086	0,101	0,117	0,132	0,147	0,178	0,202	0,234	0,264	0,294
400	0,046	0,064	0,081	0,099	0,117	0,134	0,152	0,169	0,205	0,234	0,268	0,304	0,338
450	0,052	0,072	0,092	0,112	0,132	0,152	0,172	0,192	0,232	0,264	0,304	0,344	0,384
500	0,058	0,080	0,103	0,125	0,147	0,169	0,192	0,214	0,258	0,294	0,294	0,384	0,428
600	0,070	0,097	0,124	0,151	0,178	0,205	0,231	0,258	0,312	0,356	0,410	0,462	0,516

RMT-A+SP



RECOMMENDED VELOCITY.

Vmin m/s	Vmax m/s
1,5	3

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

Q (l/s) = Vfmed (m/s) * Afree (m2) * 1000
Q (m3/h) = Vfmed (m/s) * Afree (m2) * 3600

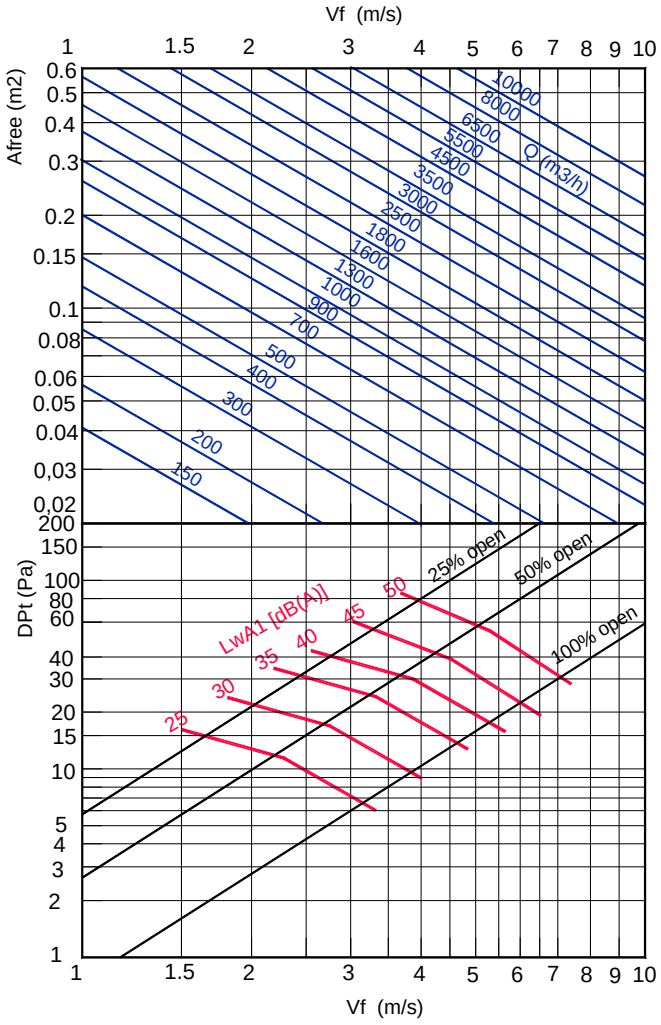
CORRECTION FACTOR FOR Lwa1.

Afree m2	0,01	0,02	0,05	0,1	0,2	0,4
Lwa1(kf)	-9	-6	-3	-	+4	+7

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

Lwa = Lwa1 + Kf

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.



RMT-KLIN

FREE FACE AREA m2.

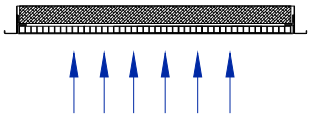
RMT-KLIN

L x H	
600x600	0,290
625x625	0,302
675x675	0,326

RMT-45-KLIN

L x H	
600x600	0,290
625x625	0,302

RMT-KLIN + PFT



RECOMMENDED VELOCITY.

Vmin m/s	Vmax m/s
1,5	3

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

Q (l/s) = Vfmed (m/s) * Afree (m2) * 1000
Q (m3/h) = Vfmed (m/s) * Afree (m2) * 3600

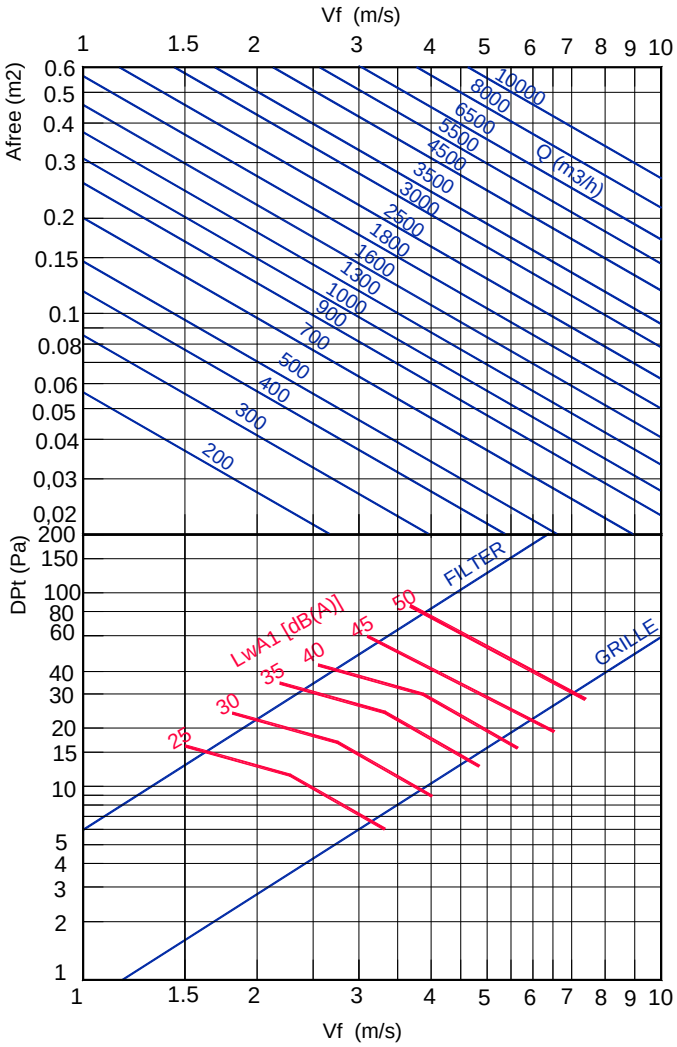
CORRECTION FACTOR FOR Lwa1.

Afree m2	0,01	0,02	0,05	0,1	0,2	0,4
Lwa1(kf)	-9	-6	-3	-	+4	+7

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

Lwa = Lwa1 + Kf

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.



RMT-MOD

FREE FACE AREA m2.

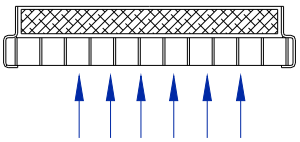
RMT-MOD

L x H	
595x295	0,150
595x595	0,300
620x620	0,156

RMT-45-MOD

L x H	
595x595	0,300

RMT-MOD + PFT



RECOMMENDED VELOCITY.

Vmin m/s	Vmax m/s
1,5	3

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

Q (l/s) = Vfmed (m/s) * Afree (m2) * 1000
Q (m3/h) = Vfmed (m/s) * Afree (m2) * 3600

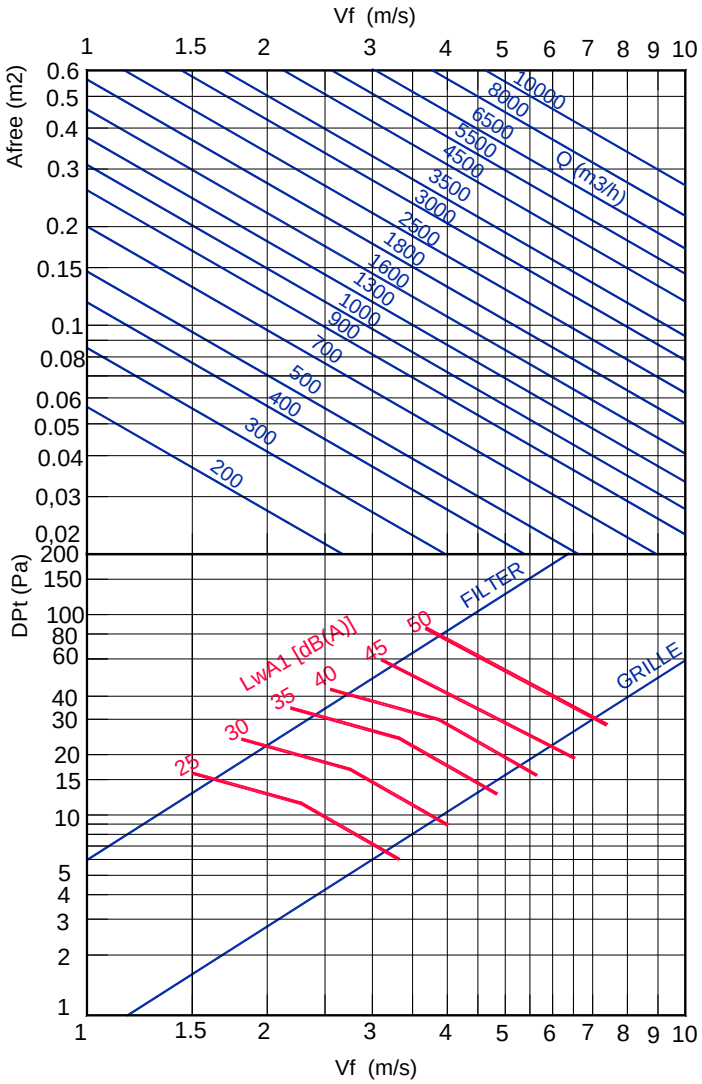
CORRECTION FACTOR FOR Lwa1.

Afree m2	0,01	0,02	0,05	0,1	0,2	0,4
Lwa1(kf)	-9	-6	-3	-	+4	+7

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

Lwa = Lwa1 + Kf

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.



RMT-MOD

FREE FACE AREA m2.

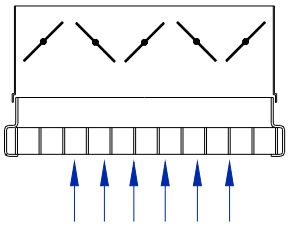
RMT-MOD

L x H	
595x295	0,150
595x595	0,300
620x620	0,156

RMT-45-MOD

L x H	
595x595	0,300

RMT-MOD +SP



RECOMMENDED VELOCITY.

Vmin m/s	Vmax m/s
1,5	3

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

Q (l/s) = Vfmed (m/s) * Afree (m2) * 1000
Q (m3/h) = Vfmed (m/s) * Afree (m2) * 3600

CORRECTION FACTOR FOR Lwa1.

Afree m2	0,01	0,02	0,05	0,1	0,2	0,4
Lwa1(kf)	-9	-6	-3	-	+4	+7

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

Lwa = Lwa1 + Kf

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL.