

## Description

**DMFQ:** high induction diffusers, via combination of differentiated section perforations and internal deflectors; with 596 x 596 panels

- installation height between 2.7– 4 m
- made of aluminium with RAL 9010 finish
- Plenum application
- fastening with central screw + cover

## Accessories

**PPLIS:** pyramid plenum with side entry + damper, including external insulation reaction to fire class B-s2-dO (DN oval inlets 150/160-200-250)

**PT:** upper entry plenum

**I:** external anti-condensate insulation fire-resistance class B-s2-dO

**R:** equaliser

**S:** damper entry

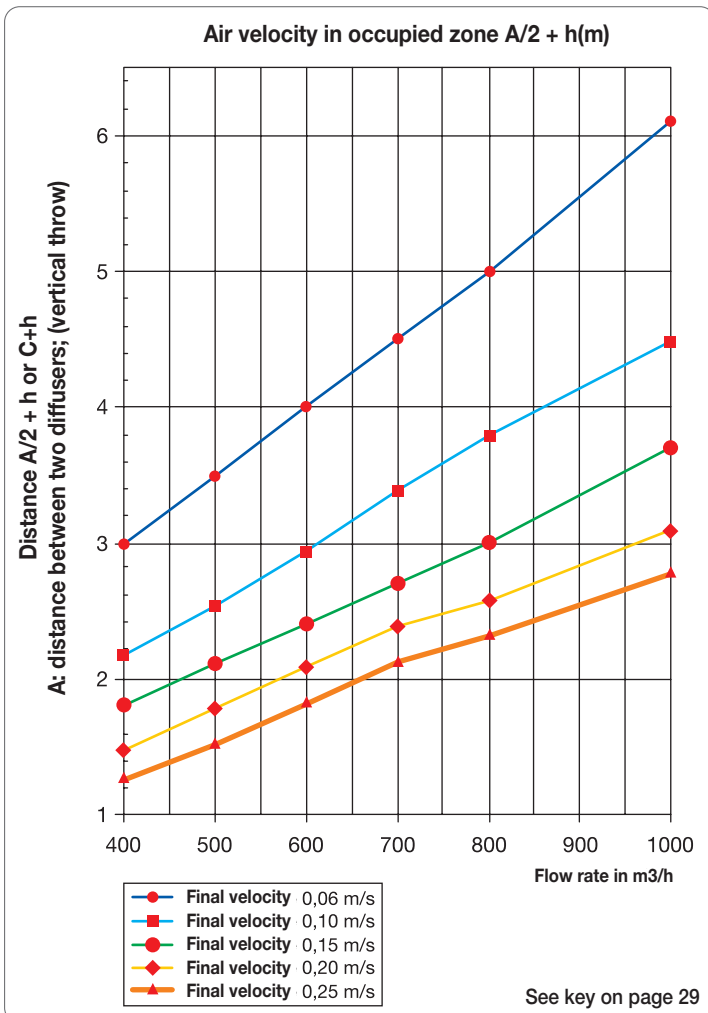
## Special versions

**DMFR:** like DMFQ but in circular version + 30%

**VR:** coating according to RAL 9005 / 9006 table fixed surcharge €30 + 20% per piece

Other RAL colours on request

## DMFQ 600 - Selection diagram



All prices are list prices for local market, for a quotation please contact us.

## Price list

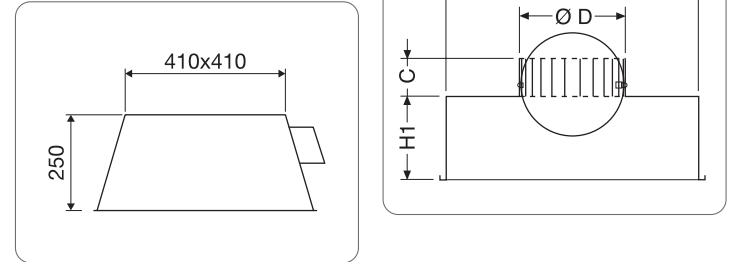
DN / Type	DMFQ	PPLIS	S	I	R
600	170	83	OR	OR	OR

Delivery: - material with prices in bold in stock  
- other material 2 weeks

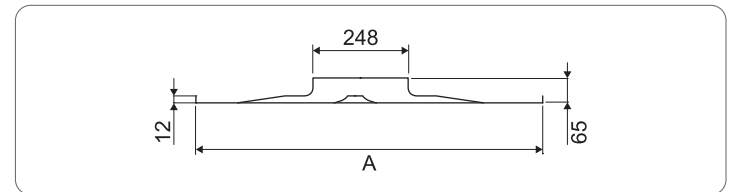
## Dimensions

DN	A	L x H	H1	H2	ØD	C
600	596	560x560	200	350	248	50

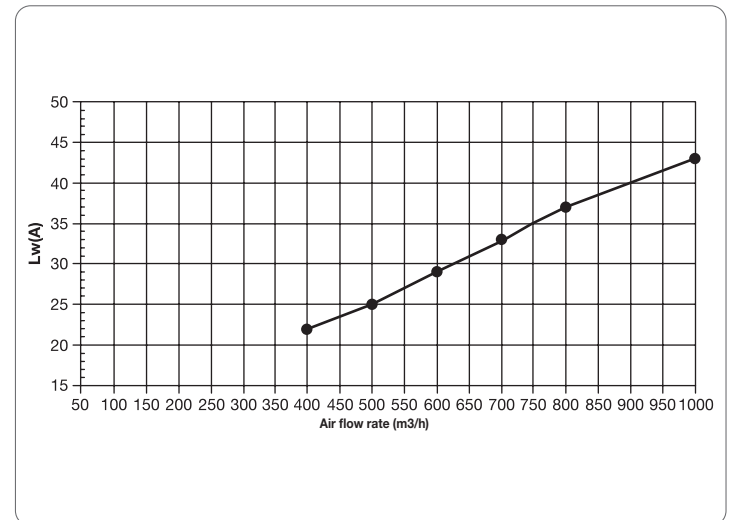
## PPLIS



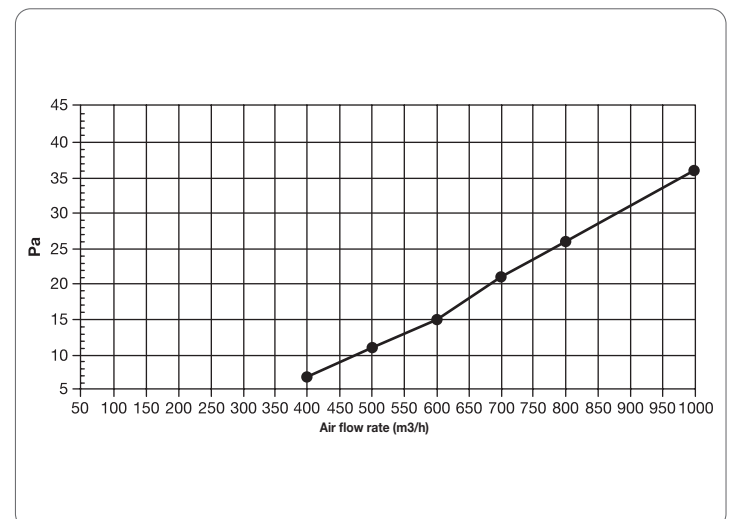
## DMFQ 600



## DMFQ / DMFR - Sound power level

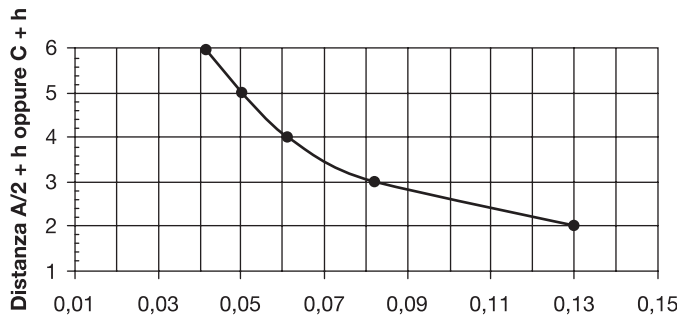


## DMFQ / DMFR - Pressure drop in Pa



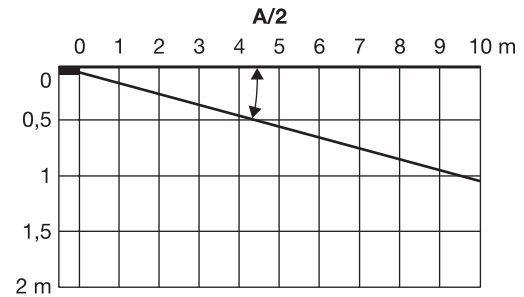
## DMFQ / DMFR - Temperature ratio (Rt)

### Rt coefficient

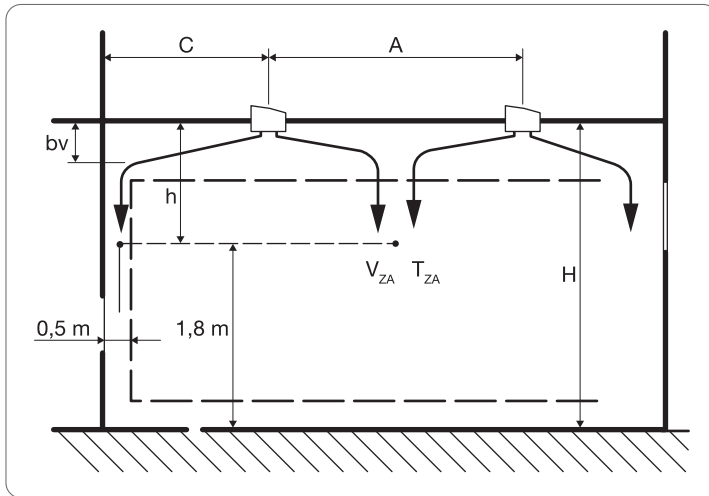


## Throw fall (m)

### bv



Value for throw fall, at a specific distance.



### Key

- $\Delta pt$ : total pressure drop (Pa)
- $L_{WA}$ : sound pressure level [dB(A)]
- $R_t$ : ratio between the  $\Delta tL$  [temperature difference between the room (project temperature) and the throw temperature at a distance  $A/2+h$ ] and  $\Delta tm$  (temperature difference between the supply air and room)
- $V_{ZA}$ : velocity in occupied zone (m/s)
- $T_{ZA}$ : temperature in the occupied zone ( $^{\circ}C$ )
- $bv$ : throw fall (m)
- $H$ : room height (m)
- $h$ : vertical throw (m)
- $A$ : distance between diffusers
- $C$ : distance between diffuser and wall

### Example

- Room dim. 8x8xH 3 m (volume 192 m<sup>3</sup>)
- Air flow: 2400 m<sup>3</sup>/h (exchanges 12.5)
- Occupied zone: 1.8 m
- Room temperature: 25 $^{\circ}C$  (project)
- Supply air temperature: 15 $^{\circ}C$
- Assuming the installation of 4 diffusers  
Flow 2400 m<sup>3</sup>/h: 4 diffusers = 600 m<sup>3</sup>/h  
Distance between diffusers: A = 4 m  
h = H 3 m - 1.8 occupied zone = 1.2 m  
A/2 + h = 4/2 + 1.2 = 3.2 m
- From Diagram 1 (Selection)  
Q = 600 m<sup>3</sup>/h - with A/2 + h = 3.2 m = 0.10 m/s velocity in the occupied zone
- From Diagram 2 (Noise level)  
with Q = 600 m<sup>3</sup>/h -  $L_{WA}$  28 dB(A)
- From Diagram 3 (Pressure drop)  
with Q = 600 m<sup>3</sup>/h - Pa 15

### Temperature ratio (Diagram 4)

- We can obtain the air temperature at the end of the throw  
 $T_{ZA}$ : 25 $^{\circ}C$  (room temperature)  
T: 15 $^{\circ}C$  (supply air temperature)  
A: 4 m  
h: 1.8 m  
with A/2 + h = 3.2 a temperature ratio of 0.077 is obtained with  $\Delta t$  -10 $^{\circ}C$  (25 - 15)  
the temperature ratio is then multiplied by  $\Delta t$  (0.077 x -10 $^{\circ}C$ ) = 0.77 to obtain the temperature at the end of the throw which will be:  
Room temperature = 25 $^{\circ}C$  - 0.77 = 24.23 $^{\circ}C$

### Throw fall (Diagram 5)

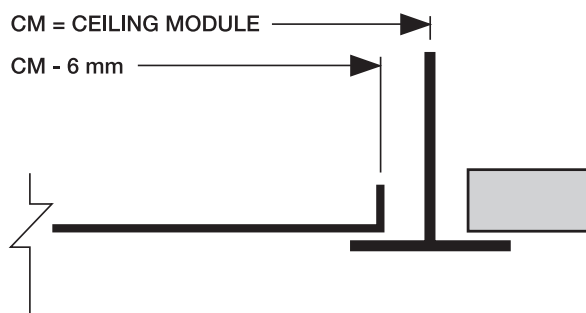
- With A/2: 4/2 = 2 m  
you obtain a fall of 0.3 m

## Profiles for false ceilings

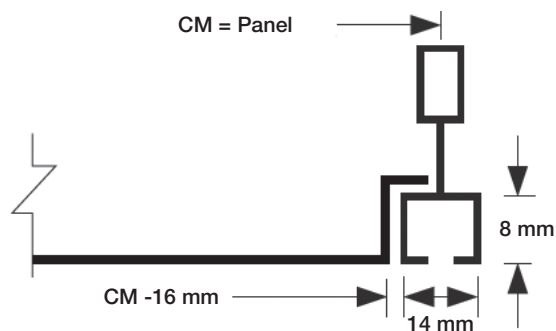
IT IS possible to produce some of our products with panel edges suitable for various types of false ceilings:

- DCRQ
- DEQ
- DQER/Q
- DMFQ
- DMUQ
- DQB4
- RSKP
- RSKO

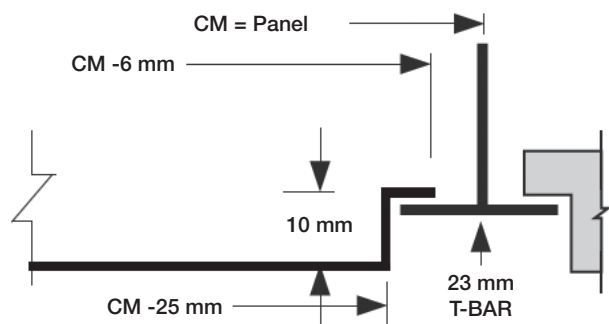
**L: Installation recommended for inspection panel**



**F: Fineline**



**TL: tile (LAY-IN)**



**M (SNAP-IN)**

