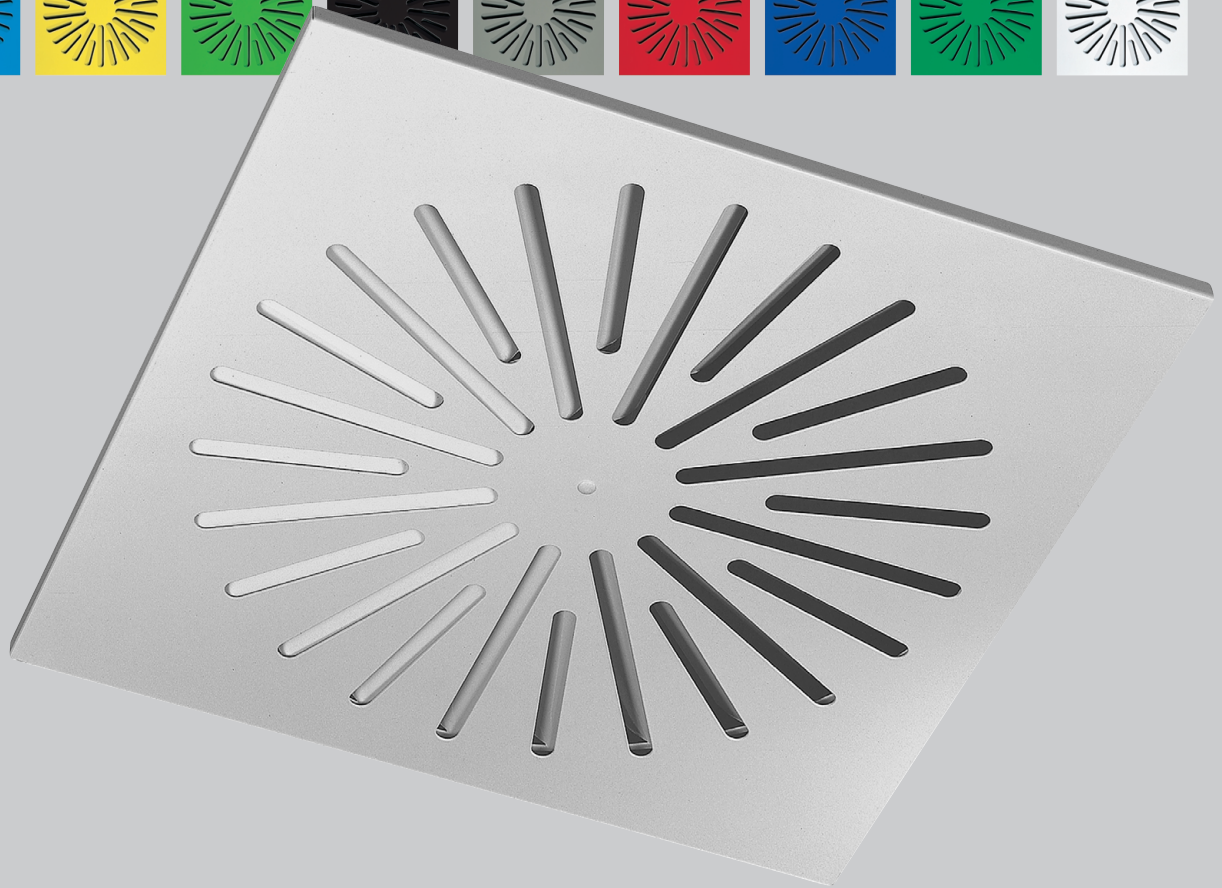


LTG Swirl Diffusers Type DLA

Highest Scores - for Performance, Design and Price



Swirl Diffuser Type DLA 7

Provides optimum
comfort by highly
diffused flow

For flow rate
up to 700 m³/h

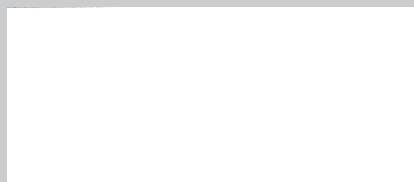
Model sizes

Size of the square / round plate

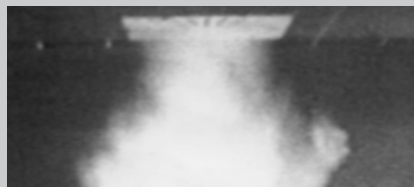
square: 400, 500, 600, 625, 800 mm

round: 400, 500, 600, 625, 800 mm

The diffuser is factory-preset.
However, both tangential and vertical
flow may easily be changed subse-
quently by simply adjusting the swirl
disc inside the diffuser.



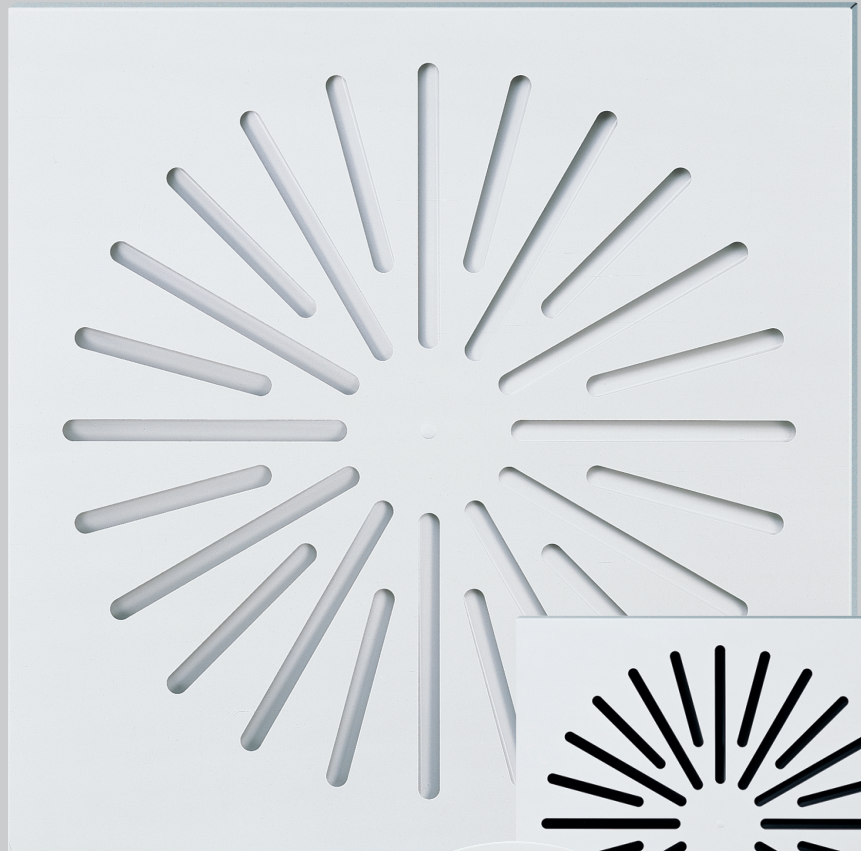
Tangential flow



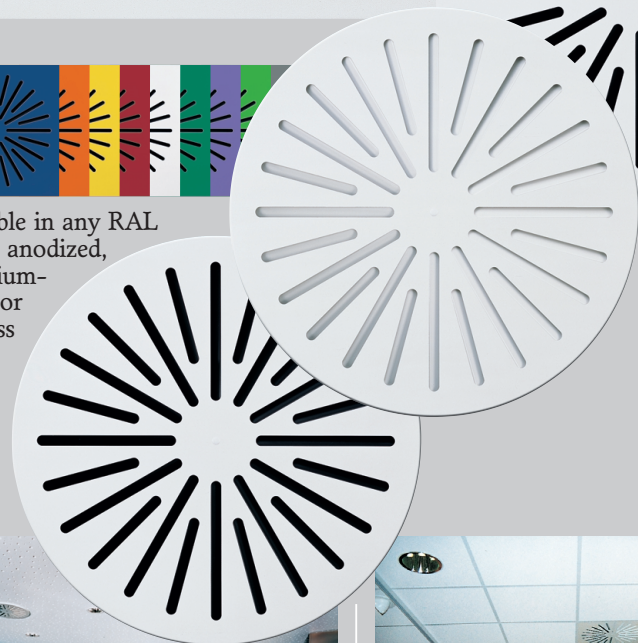
Vertical flow



Example: Main hall of a bank



Available in any RAL
colour, anodized,
chromium-
plated or
stainless
steel.



Example: Bank

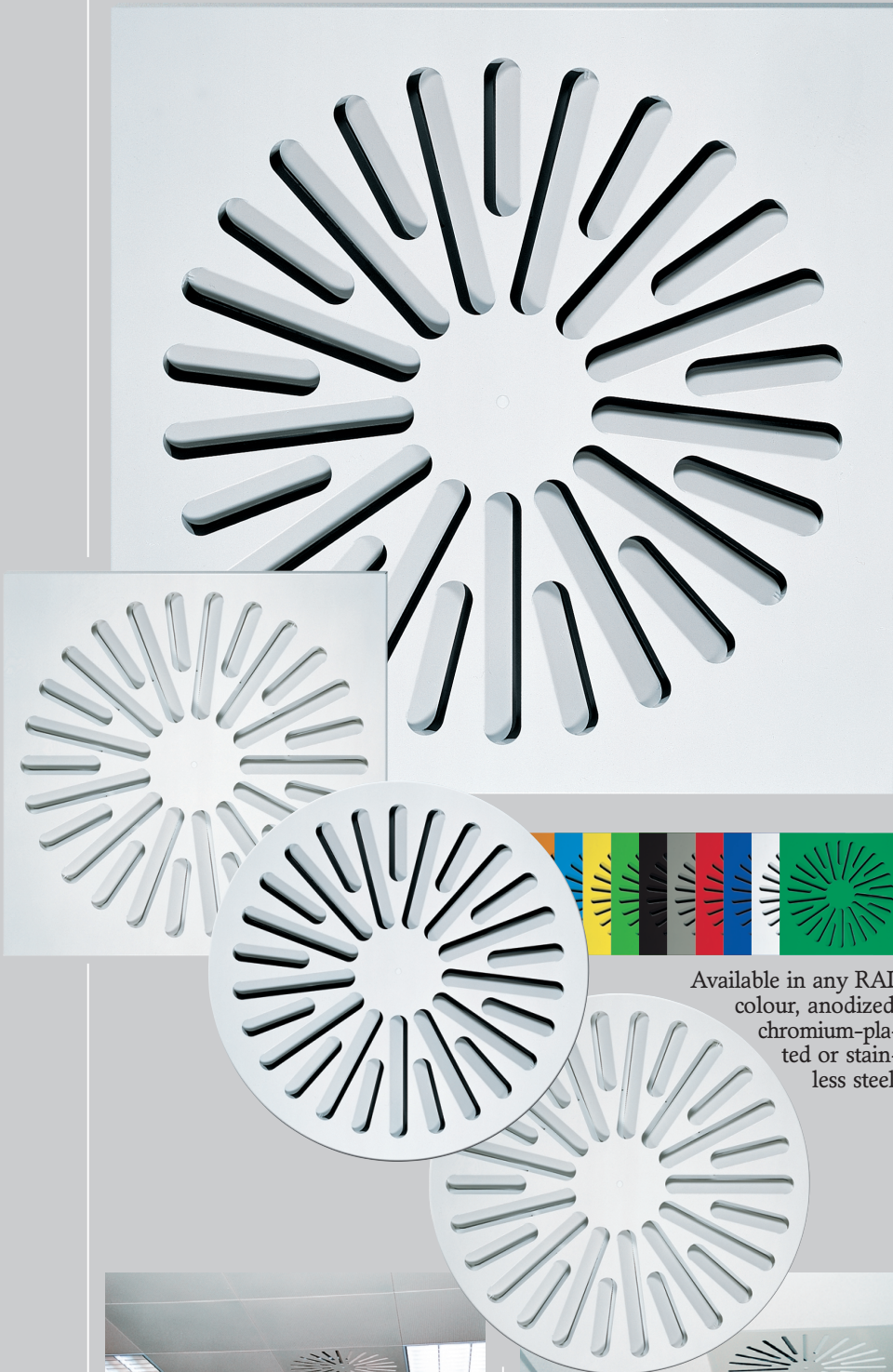


Example: Shopping mall

Swirl Diffuser Type DLA 8

Low noise generation
through optimized
pattern control design

For flow rate
up to 1000 m³/h



Model sizes

Size of the square / round plate

square: 600, 625 mm

round: 600, 625 mm

The diffuser is factory-preset.
However, both tangential and vertical
flow may easily be changed subse-
quently by simply adjusting the swirl
disc inside the diffuser.



Tangential flow



Vertical flow

Available in any RAL
colour, anodized,
chromium-plat-
ed or stain-
less steel.



Example: Book shop



Example: Office

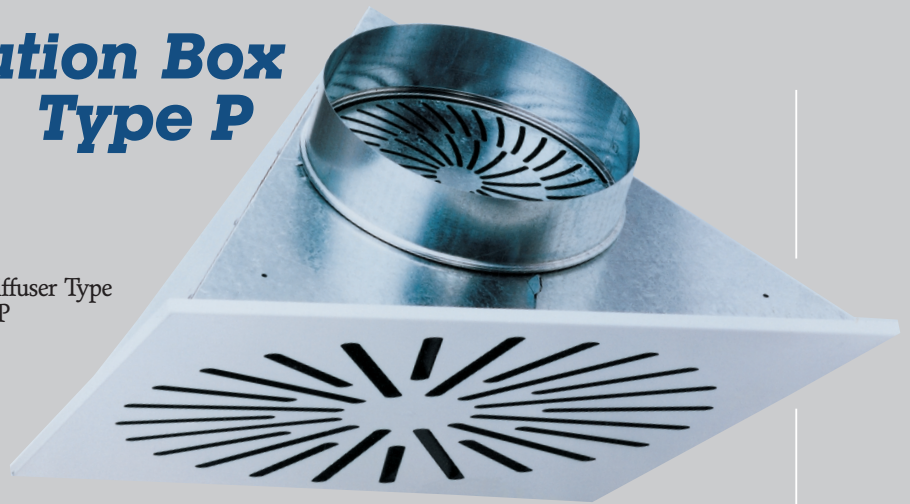


Example: Fashion store

Air Distribution Box Type P

Swirl diffusers Type DLA 7P and DLA 8P are supplied with a pyramid shaped air distribution box Type P.

Swirl diffuser Type DLA 7P



The air distribution plenum box Type P offers many advantages:

Reduced Thermal Losses

As the pyramid shaped plenum has 50% of the surface area of compared to a square shape.

Cost advantages during installation and adjustment

The LTG air distribution box Type P is supplied with an integrated damper and is suited to most ceiling systems.

No harmful substances

As the air distribution plenum Type P does not usually require insulation which can degrade/decompose.

Space economy

compared to square air plenum box

Cost advantages during transport, storage and handling

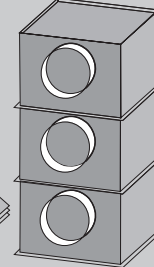


Space saving

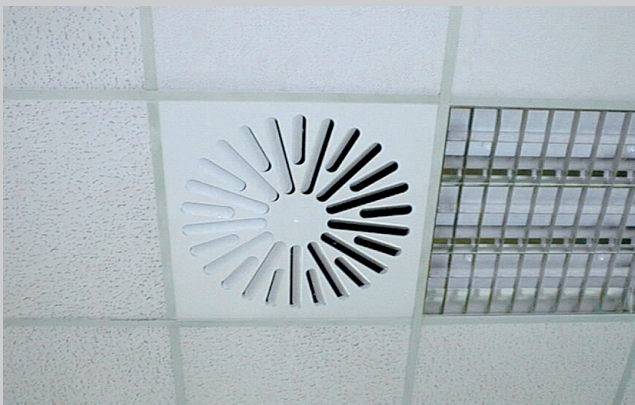
66%

approx.

already with 3 units



Comparison of the space required for 3 LTG pyramid plenums and 3 conventional square air plenum boxes



Example: Physician's office



Example: Fashion store



Example: Restaurant



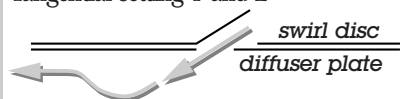
Example: Shoe store

LTG Swirl Diffusers Type DLA

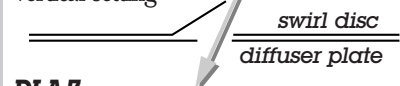
The LTG Swirl Diffuser Type DLA is a highly inductive diffuser which may be either integrated in the ceiling or freely suspended. The highly inductive multi-jet swirl diffusion offers a variety of essential advantages:

- Reduction of high cooling loads while maintaining agreeable room conditions
- Precise ventilation of e.g. occupied spaces
- Very comfortable, draft free conditions in the occupied spaces thanks to low air speed and temperature differences
- Economical installation due to factory-preset swirl discs
- Subsequent adjustment of the swirl disc for best results with changed room conditions, even after installation
- All-metal construction
- Diffuser plate available in any RAL color, galvanized, chromium-plated or stainless steel
- Thanks to the highly inductive effect as a result of the large number of individual jets, the diffuser is suitable for both high flow rates and variable flow rate systems with low flow rates.
- Various flow patterns: tangential or vertical flow. Easy adjustment by simply changing the swirl disc setting inside the diffuser.

Tangential setting 1 and 2

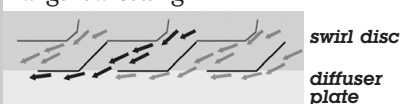


Vertical setting

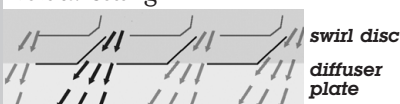


DLA 7

Tangential setting



Vertical setting



DLA 8

With tangential setting 1 – the standard setting – air jets will remain close to the ceiling. A turbulent air pattern is being created resulting in a perfect reduction of temperature differences and speed.

Tangential setting 2 (only for DLA 7) is ideal for low flow rates and high temperature differences. While the diffuser cross section is reduced, the impulse of the air is increased keeping the air close to the ceiling. The long distance covered outside the occupied zone ensures best induction effect.

When using the vertical setting, the air is diffused conically downwards. The vertical setting is preferably to be used in the heating mode.

Standard colors

Diffuser plate:

Galvanized steel, visible side powder coated similar to RAL, chromium-plated or stainless steel

Swirl disc:

Galvanized steel, black or white coating

Recommended installation height:
2.5 ... 5 meters

Air distribution box:

Galvanized sheet steel

Versions: pyramid box
square box
cylindrical box

including an adjustable damper inside the socket*;
adjustment from below through the diffuser plate.

*not possible with a rectangular socket

Duct connection:

Lateral or from above through round socket (installation by customer) or lateral rectangular connection in case of low box heights.

Model size Type	400	500	600	625	800
DLA 7 Version: square					
DLA 7 Version: round					
DLA 8 Version: square					
DLA 8 Version: round					