

Zefiro

High induction air diffusers



Poliedra high induction air diffusers

Best environmental comfort ever

Poliedra system is based on metallic circular ducts, which, via micro-holes, start a correct distribution of the air in the surrounding environment, through high efficiency inductive processes.

The diameter and number of holes are calibrated for each specific condition, in order to produce an air pressure distribution in the proximity of the conduit.

This means:

- low speed movement of the environmental air mass;
- constant temperature spread;
- absence of uncomfortable drafts;
- air layers reduction;
- condensation prevention, by ventilation induced by the holes.

The diameter of the holes is specially designed to optimize the synergistic effect between the strong induction, produced by smaller holes, and the air buoyancy, modulated through the larger holes.



Advantages

Customization

Poliedra system is designed for each specific environment.

Versatility of use

Ventilation, air conditioning, heating, refrigeration.

Energy saving

Thanks to low set-up time and air distribution optimization.

Condensate prevention

The high inductive effect, around the entire surface of the channel, prevents the stagnation of humidity and condensation.

Stratification reduction

Poliedra system provides an homogeneous air mix, reducing air layers

Quick installation

Thanks to the exclusive Poliedra system.

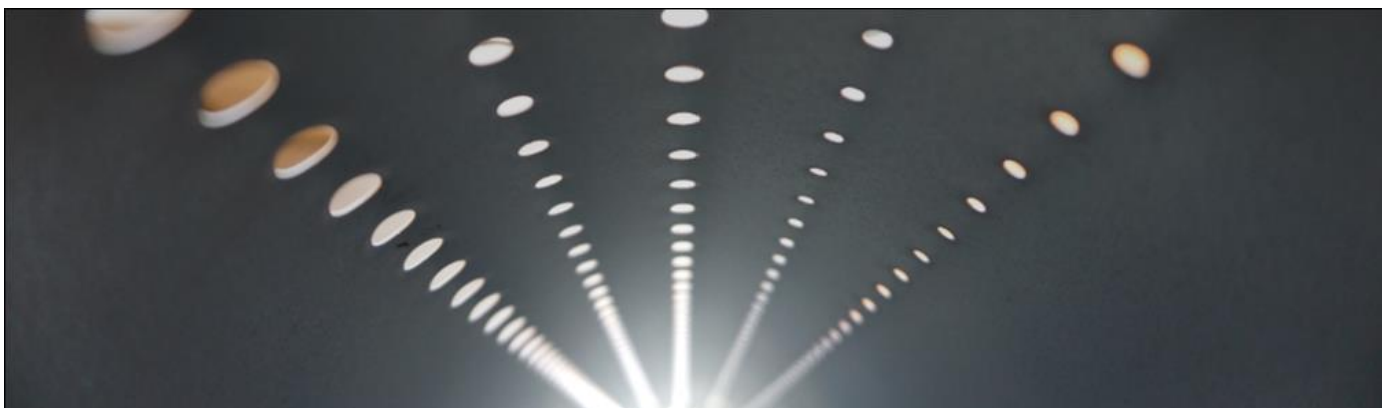
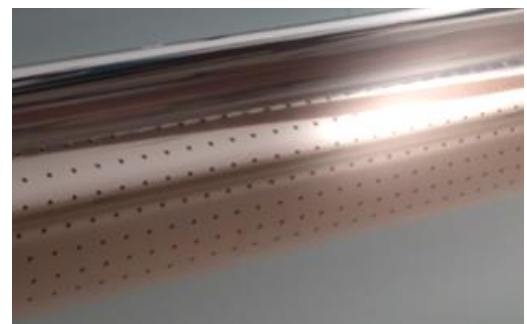
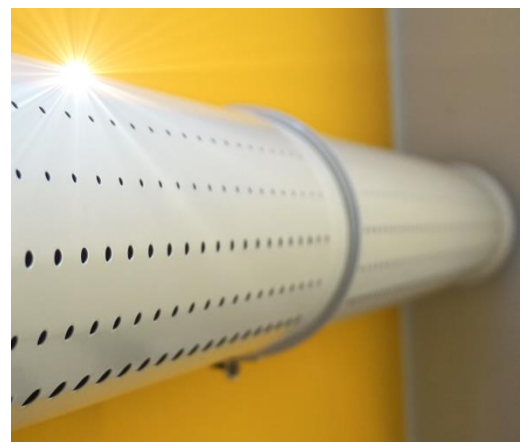
Minimal design

Linear and minimal design, without unnecessary nozzles and diffusers.

Technical support

Wide range of diameters, from 150 mm to 1,300 mm.

Technical and after sales support for evaluating the best applicable solution.



Materials

AISI 304 stainless steel

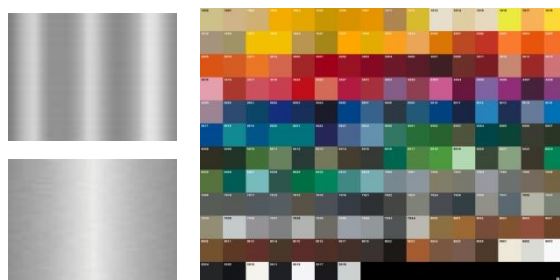
Thicknesses: 0.5mm - 0.8mm - 1mm

Galvanized steel

Thicknesses: 0.5mm - 0.8mm - 1mm

Design Finishing

Ral colors



Design support

Poliedra design system is customized for each individual plant, to define an effective and proper air distribution as function of mass flow rate and the extraction launch of each section.

The choice of the components and the morphology of the holes are obtained using software based on CFD mathematical models.

Poliedra technical office offers global support to direct the best selection and management of the entire ventilation system.

