

Swirl diffuser

DVL2



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DVL2 swirl diffuser is designed to equalise air distribution across the entire space. The device ensures efficient air mixing in hothouses and grow boxes to prevent formation of areas with too humid or too warm environment.

DVL2 helps avoid high-velocity air streams with low temperature which damage the plants and hinder crop quality. The under-the-ceiling placement helps increase the useful area of a space.

Features

- High efficiency
- Usable space increase by utilising the subceiling space
- Installation simplicity and convenience
- Compliance with growing practices



Operating principle

The ventilation system fitted with a DVL2 swirl diffuser extracts air from the upper part of the space and delivers it to the area below moving the air mass from the lights to the plants.

Such configuration is ideal for balancing temperature both in systems with full air recirculation and in spaces with fresh air delivery. In broadly square spaces a single fan with a DVL2 diffuser is able to replace a conventional air distribution system which, as a rule, includes a larger number of air ducts and fans.



Application variants

The simplest and the most common application is using the system to balance air parameters across the entire space.

The system is installed in the middle of the space, and the diffuser is connected to the fan outlet.





Fresh air delivery is implemented by connecting an air duct to the fan.

Not only does a DVL2 system ensure efficient cooling of the space, but it also increases the average CO₂ content in the air which promotes vegetation growth.



Larger spaces may necessitate installation of more than one system for an optimum efficiency.

To avoid excessive blowing of leaves in large spaces causing crusting and drying, several DVL2 systems should be evenly distributed throughout the floor area to improve air distribution and balance humidity in different parts of the serviced space.