



VDL INDUSTRIAL
PRODUCTS



UMID® FOG SYSTEM HORTICULTURE

The VDL UMID system is a fog system with high-quality patented nozzles that can be tailored to a specific application. For example, complete systems for horticulture, poultry farming and industry are assembled and supplied worldwide.

➤ GREENHOUSE CLIMATE

To achieve high-quality horticultural products and quantitative objectives, an optimal greenhouse climate is important. You can optimise humidity and temperature control by installing a high-quality custom engineered fog system. The UMID system stands out from others because of its unique, patented nozzle that produces a high-quality spray pattern. Because it gives a homogeneous distribution of very small droplets that all evaporate before reaching the crop.

The aim is to effectively extract heat (energy) from the air with an optimum exchange surface of the fog. Hence, we consider the nozzles design for very important.

The high-quality materials and precision engineering guarantee long and largely maintenance-free use. VDL guarantees a long service life with minimal maintenance costs. Best of all, this nozzle design can operate at a lower working pressure compared to other systems, which is your first profit!

➤ VDL UMID, DE NOZZLE IS THE KEY!

Common nozzles work on the principle that water is forced through a nozzle at high pressure or against a pin which creates the spray pattern. The UMID nozzle design was inspired by looking at the tornado in nature. It forms a water column with a high internal rotation speed. In the nozzle chamber, this gives little friction. The required pump pressure and associated energy consumption is therefore lower than with other systems, only 40 bar is required.

STRENGTH THROUGH COOPERATION

► UMID FOG SYSTEMS

- Humidification
- Adiabatic cooling
- Dust and odour control
- Disinfection

VDL UMID - AKE LGE nozzles 3l / 5l / 8l / 20l
basic capacity/hour

Nozzle : stainless steel 303/316L

Nozzle body : plastic Grivory HTV-5HV1

► ADVANTAGES OF THE UMID SYSTEM

- UMID software
- Optimal control of humidity and temperature
- Excellent spray pattern
- No dripping nozzles
- Reduction of water consumption
- Keeping CO₂ in the greenhouse by airing less
- Low energy consumption
- Leak proof stainless steel pipework

► APPLICATIONS

- Horticultural applications
- Industrial applications such as cooling condensers
- Cooling in stables

► NOZZLE

