

# DAN Foggers for cutting misting / crop cooling



With cutting misting, a mist blanket is formed within a few seconds in order to moisten the leaf as uniformly as possible without making the soil or substrate too wet.

The DAN-LPD-HP allows very short pulses to be given without dripping. If a longer pulse is given, water can be supplied e.g. to the roots of the cutting or to the young plant material. Short pulses increases in particular the relative humidity (RH).

The delicacy of the young crop makes high demands on the quantity of water and on the droplet size. The average droplet size of the cross foggers is 90-100 micron (at 4 bar). The droplet size is ideal for preventing drift, but also for preventing the washing away of seed or substrate.

## Working principle

In the DAN Foggers, fine droplets are formed by admitting the water to a vortex chamber and then allowing them to escape via the nozzle. This process creates uniform droplets that exit the Fogger at high speed so that they can evaporate easily. Each Fogger has a leakage prevention device (LPD) to prevent dripping and to allow the system to operate with short pulses of e.g. 1 to 3 seconds. This prevents the crop from becoming (too) wet. The HP LPD also ensures the simultaneous starting of all Foggers.

## CHARACTERISTICS OF FOGGERS FOR CUTTING MISTING AND CROP COOLING:

### Cross fogger

- ✓ Unique combination of cutting misting and air humidification possible
- ✓ Comprises a removable cross piece with 4 standard foggers (each with 7 l/h)
- ✓ Comprises an LPD-HP (anti-drip element): suitable for short pulses without dripping
- ✓ Configuration: 1 cross fogger per 1.2 - 1.5 m<sup>2</sup> in X+X+X combination on a suspended (to avoid blind spots), the spacing between the foggers is 1 to 1.5 meters

## TECHNICAL DATA

Cross fogger flow rate	: 4 x 7 l/h (at 4.0 bar)
Discharge	: +/- 15 cm
Fogger working pressure	: 4.0 - 4.5 bar
HP LPD opening pressure	: approx. 3.7 bar
Filtration	: 80 micron
Material	: polyamide (body) : silicone (Super Fogger membrane, green)
Connection	: parallel, LPD-3/8 WW; LPD-M11 and LDP-PE-4/7 45° elbow

## INSTALLATION & MAINTENANCE

### Installation

- ✓ The configurations are shown under the characteristics on the previous page.
- ✓ Always use suspendeds when installing foggers.
- ✓ Foggers should be installed 50 cm below the assimilation lighting.
- ✓ Air must be released from the system. Installing distribution lines above the irrigation lines simplifies air discharge.
- ✓ Use of rainwater should be preferred, avoid the use of tap water and surface water.
- ✓ Flush the installation thoroughly before starting or after a prolonged standstill.
- ✓ As an option, a main ring can be installed so the Fogger system can be flushed every day before use.
- ✓ For a reliable function of the Foggers, a quick-acting system is essential. Installation instructions can be obtained from Netafim Netherlands.

### Maintenance

- ✓ For cleaning, please refer to information sheet "Installation and maintenance of sprinkler system", section: "Cleaning instructions".
- ✓ When using this sprinkler in PE lines (also as suspended), no wetting agents or soap can be used.
- ✓ Check at regular intervals whether the sprinklers are set to the correct working pressure.