

| ENBAR LVM

Area treatment



Description

The success of plant protection depends on various factors. The substance, the dosage and the application technique employed are the most important. For the latter, it is particularly important that the plant protection product should penetrate into the crop and is distributed as thoroughly as possible. The Enbar LVM (Low Volume Mist) is a product which offers optimum distribution and penetration. What's more, the Enbar LVM is exceptionally robust and can boast long and successful use in greenhouse cultivation.

Operation

The most important parts of the Enbar LVM are the compressor, the nozzle with filter, the fan and the time clock. The compressor presses the air with a pressure of 6 bar through the nozzle. A vacuum arises, which sucks up the mixture of water and plant protection product via a filter. The high air pressure produces minute drips (average drip size 14 micron) that have good gliding properties. The fans ensure a good distribution throughout the greenhouse and a good penetration into the crop. The stainless steel staff mixer ensures the best possible mixture in the

reservoir. Even when using powders. After the time that you have set yourself has elapsed, the hoses, the filter and the nozzle are automatically rinsed with clean water, after which the Enbar LVM automatically switches itself off.

Advantages of working with the ENBAR LVM

- o optimum treatment of the area
- o easy to use
- o labour-saving
- o runs without supervision
- o savings on plant protection products
- o no visible residue on the plants
- o little maintenance, thanks to the automatic rinsing unit

Mobile Enbar LVM

The mobile Enbar LVM is used when more than one area has to be treated but not at the same time. This model can easily be moved to the area to treat and only needs a 400 Volt 50 Hz supply. Models for different voltages and frequencies are available. There are two mobile models, with one or with two LVM units (type U3). The compressor, needed for the air supply of the nozzles, has a motor with low speed and noise and has a long lifespan. The control box is provided with a time selector to choose the desired spraying time and pre-ventilation time. The flushing program is pre-programmed. A small flushing tank is fitted and will rinse the liquid tubing after the LVM is used.

Fixed Enbar LVM

In case of big areas or when you want to treat more than one area at the same time the Enbar units can be installed permanently. The units will be hanged up at adjustable frames so they can be hanged on the desired height. If just one unit is installed, it will be hanged at four stainless steel cables. The cables will be attached to a manual handle by means of some pulleys. The handle will be attached to the pole. If two units are installed, they are mounted on a small frame which will be hanged at the cables. The lowering system is the same as for one unit. A central placed compressor supplies the needed air and the water supply will be fitted to the drinking water system. For the compressed air as well as the water a tubing is needed.

Different models LVM units

For the permanently installation the model U1 or U2 is used. The unit U1 is equipped with a control box in

which the valves for water and air, the relays for the fan and mixer are mounted. The supply of electricity, water and air is continuous. A central control box can switch each unit individual on or off. The unit is provided with a test button to check if it will work properly. The unit U2 is a stripped version and has no control box. This unit needs a central placed water and air valve and all units will be switched on or off at the same time. Also the needed power supply will be switched on and off by a central relay. The unit U3 is only used on the mobile version. All units are equipped with a 5 litre tank for the spraying liquid and a stainless steel mixer. A 10 litre tank will be an option.

Control

The mobile Enbar LVM has a PLC-controlled central unit that is fitted to the frame, which allows the pre-ventilation time to be set so that the air is sufficiently in movement before the mist treatment begins. This time is also used for staff to evacuate the greenhouse before the mist treatment begins. The mist treatment duration can also be set, which starts automatically once the pre-ventilation time has elapsed. The misting time is dependent on the amount of liquid that must be atomised. The mist treatment is followed by rinsing and post-ventilation; these times are pre-programmed in the PLC. Fixed Enbar LVM installation, in which the units are suspended in the greenhouse, a PLC controlled main unit will be fitted in a central position in the greenhouse. This central unit can be supplied for either 1 or more sections. In the control unit for more sections, the mist duration time per section can be set individually. The operation of the central control unit is for the rest comparable to that of the mobile Enbar LVM.



Mobile Enbar LVM flushing tank



Permanently installation



VAN DER ENDE GROEP

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