

## 轻型电动弥雾机喷头的设计

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摘要: 根据液体雾化原理设计了轻型电动弥雾机专用喷头, 并对该喷头各项性能指标进行了试验与分析。试验结果表明, 通过调整上、下喷头体的安装距离、更换喷头片或使用不同倾角的进液孔, 可以获得不同的雾滴直径。温室作业时宜选用喷嘴直径为0.7mm和1.0mm的喷头片; 大田或小型果园作业时选用直径为1.2mm和1.5mm的喷头片为宜。According to the principle of liquid atomization a nozzle for electric mist sprayer was designed. The performance parameters of the liquid nozzle, such as pressure, diameter of nozzle orifice films, droplet diameter and volume, as well as the structure of spray nozzle and principle of the nozzle were analyzed. The test results indicated that the various droplet diameters could be obtained by adjusting the distance between nozzle body from top to bottom part of the installation or replacement nozzles films, or by changing the hole with different angle. When operated in greenhouse it is advised to use nozzle orifice films with  $\varnothing 0.7\text{mm}$  or  $\varnothing 1.0\text{mm}$  and  $\varnothing 1.2\text{mm}$  or  $\varnothing 1.5\text{mm}$  in field or small orchards operations.

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