

INDIVIDUAL NOZZLE VARIABLE RATE SPRAYING KIT

-50%
**PHYTOIATRIC
MIXTURE**



Developed in conjunction with the Agricultural Engineering research group of the Department of Agricultural, Forestry and Food Sciences (DiSAFA) of the University of Turin.

The proposed solution includes installation by TECNOVICT authorised workshops. The necessary components may vary in number and type depending on the type of sprayer to be retrofitted with the kit. Variable dosing and automatic air flow direction control features can be supplied separately. Our sales office can be contacted at any time for customised quotes according to specific customer requirements and according to the design of the sprayer to be retrofitted with our kit.



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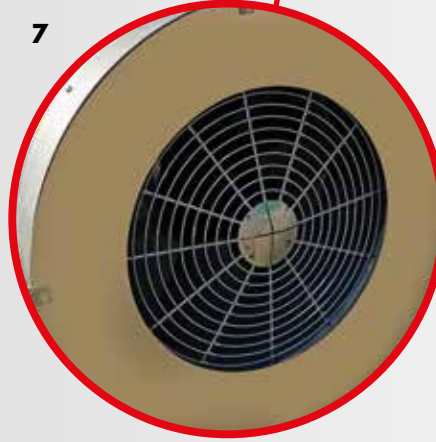
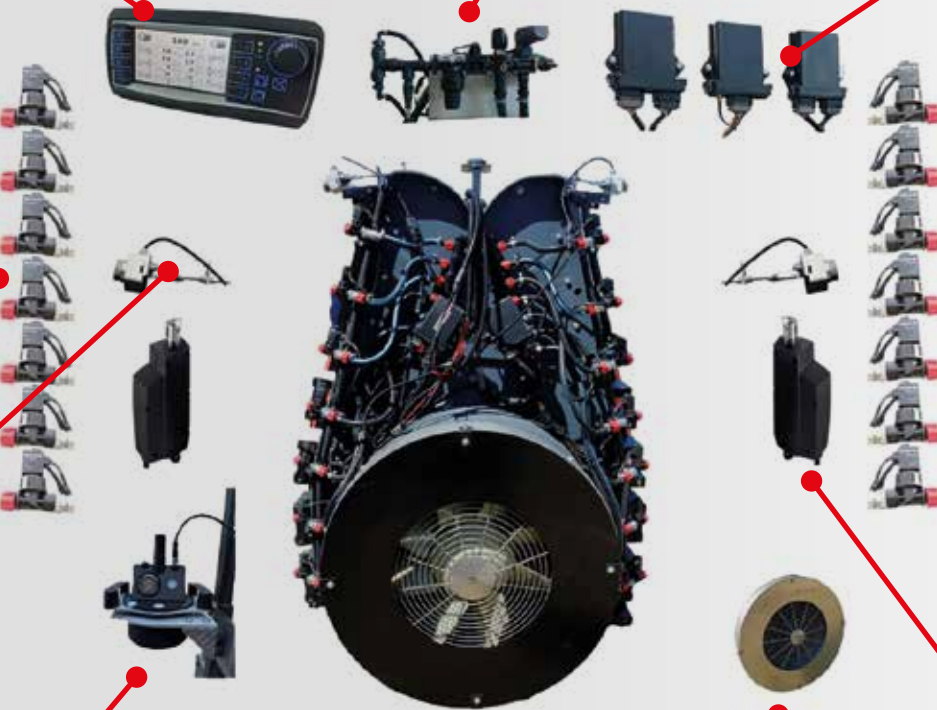
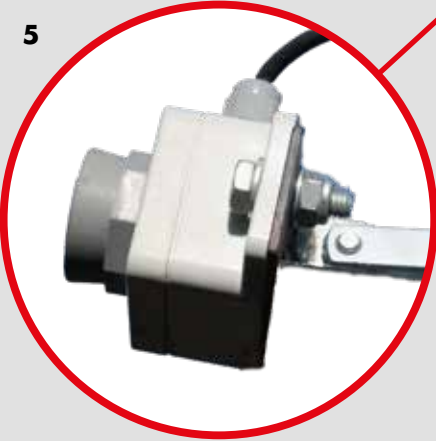
KIT InNoVar SPRAYING

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RETROFIT
YOUR SPRAYER



- COMPONENTI DEL KIT InNoVaR**
- 1 Control electronics for PWM dispensing and for directing the air flow to the canopy
 - 2 General control group and sensors
 - 3 User-friendly, intuitive control panel
 - 4 PWM nozzle holder
 - 5 Ultrasonic sensors for canopy top detection
 - 6 Vegetation presence and density sensor
 - 7 Diaphragms to limit the air speed to target
 - 8 12V electric actuators for air flow direction control

PHYTOIATRIC MIXTURE
PWM DISPENSING

This machine is designed to manage the amount of dispensed product per hectare by applying real time technology with sensors that are able to assess canopy density and adjust the quantity of phytosanitary mixture based on the foliage volume to be sprayed. The dose adjustment system relies on constant pressure pulse width modulated (PWM) nozzles - the pinnacle of today's dispensing technology. In the event of missing vines causing gaps in the vineyard, the nozzles instantly close and reopen. All this will happen completely automatically, by simply operating an ON/OFF button at the beginning and end of each row.

PHYTOIATRIC MIXTURE
PWM DISPENSING

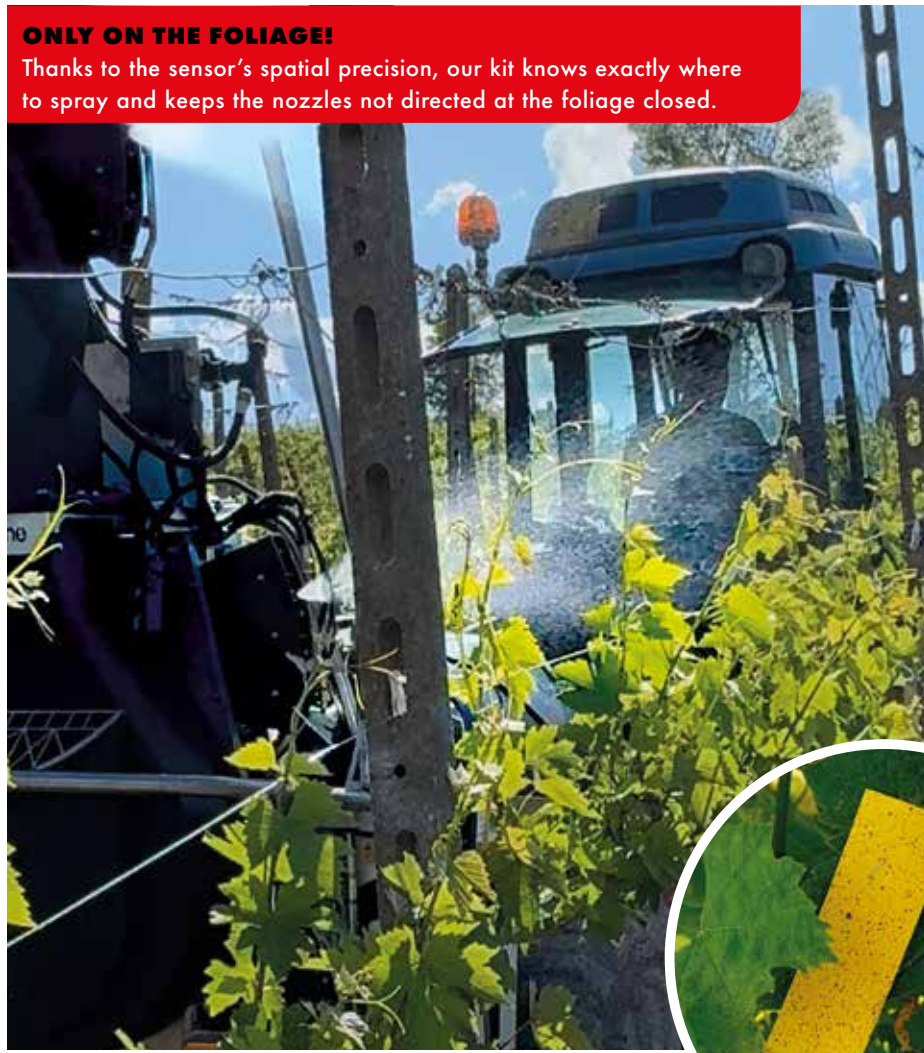
Another design function, particularly important given the east-west row orientation of Piedmont vineyards, is the automatic function designed to direct the air flow to the top part of the canopy - in order to avoid harmful spray dispersion in the atmosphere while optimising treatment at the same time.

OPTIMISED CANOPY
AIR SPEED

In most standard machines, the air speed is higher than necessary, causing mixture to be sprayed beyond the canopy with unnecessary pesticide product waste and dispersion in the environment. Three diaphragms will be supplied to be mounted on the intake to limit the air speed to three values - suitable for all the different phenological phases.

ONLY ON THE FOLIAGE!

Thanks to the sensor's spatial precision, our kit knows exactly where to spray and keeps the nozzles not directed at the foliage closed.



Our **InNoVaR kit** can be easily retrofitted to your existing sprayer to dramatically enhance its performance. Its operation is based on three key changes introduced in a standard air convection sprayer.