

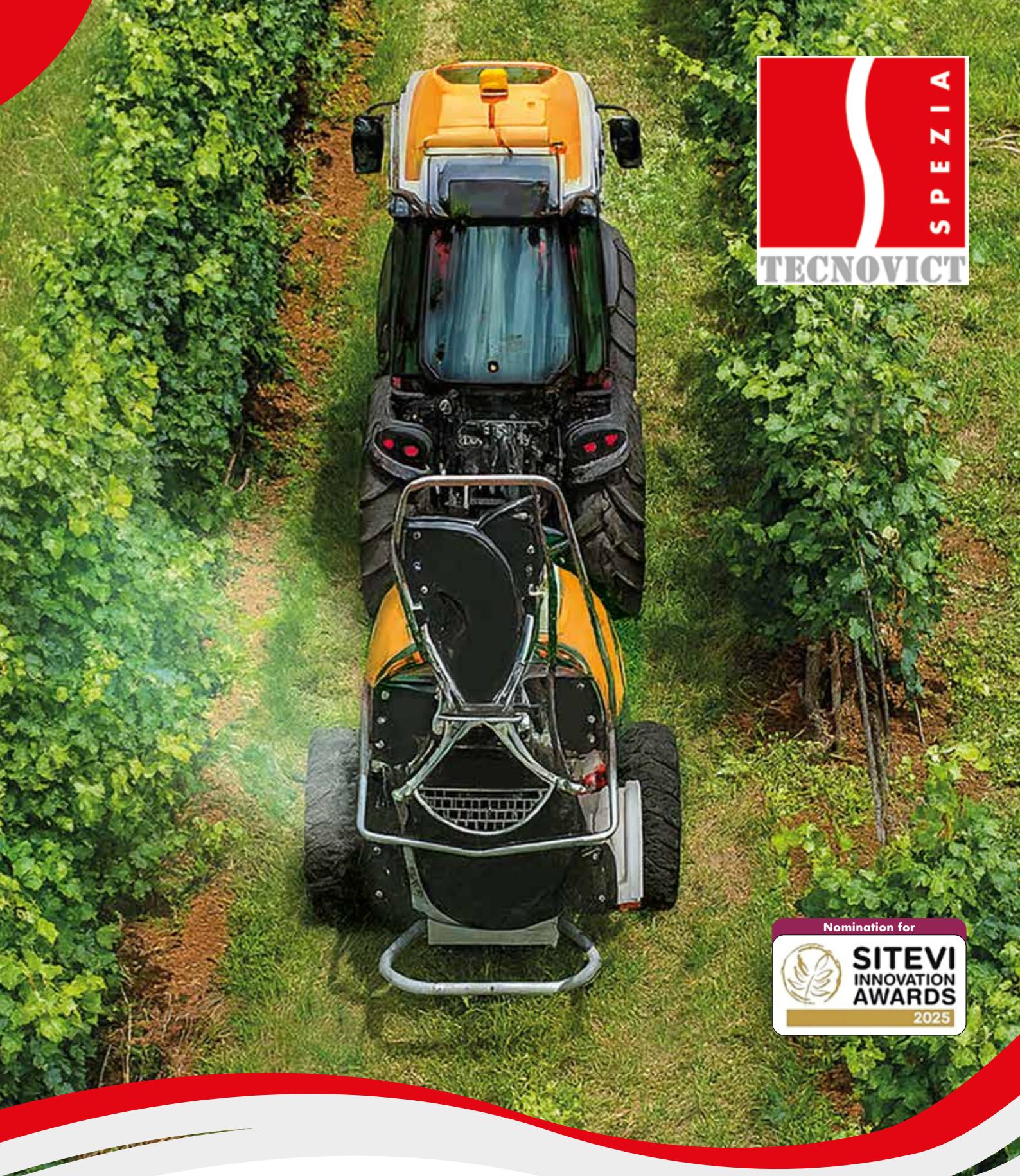
## INDIVIDUAL NOZZLE VARIABLE RATE SPRAYING KIT

-50%  
PHYTOIATRIC  
MIXTURE



Developed in collaboration with the Agricultural Engineering research group, part of the Department of Agricultural, Forestry and Food Sciences (DiSAFA), 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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UNIONCAMERE EMILIA-ROMAGNA CAMERE DI COMMERCIO DELLA MARCHE  
Regione Emilia-Romagna

# InNoVAR SPRAYING KIT

## INDIVIDUAL NOZZLE VARIABLE RATE SPRAYING KIT

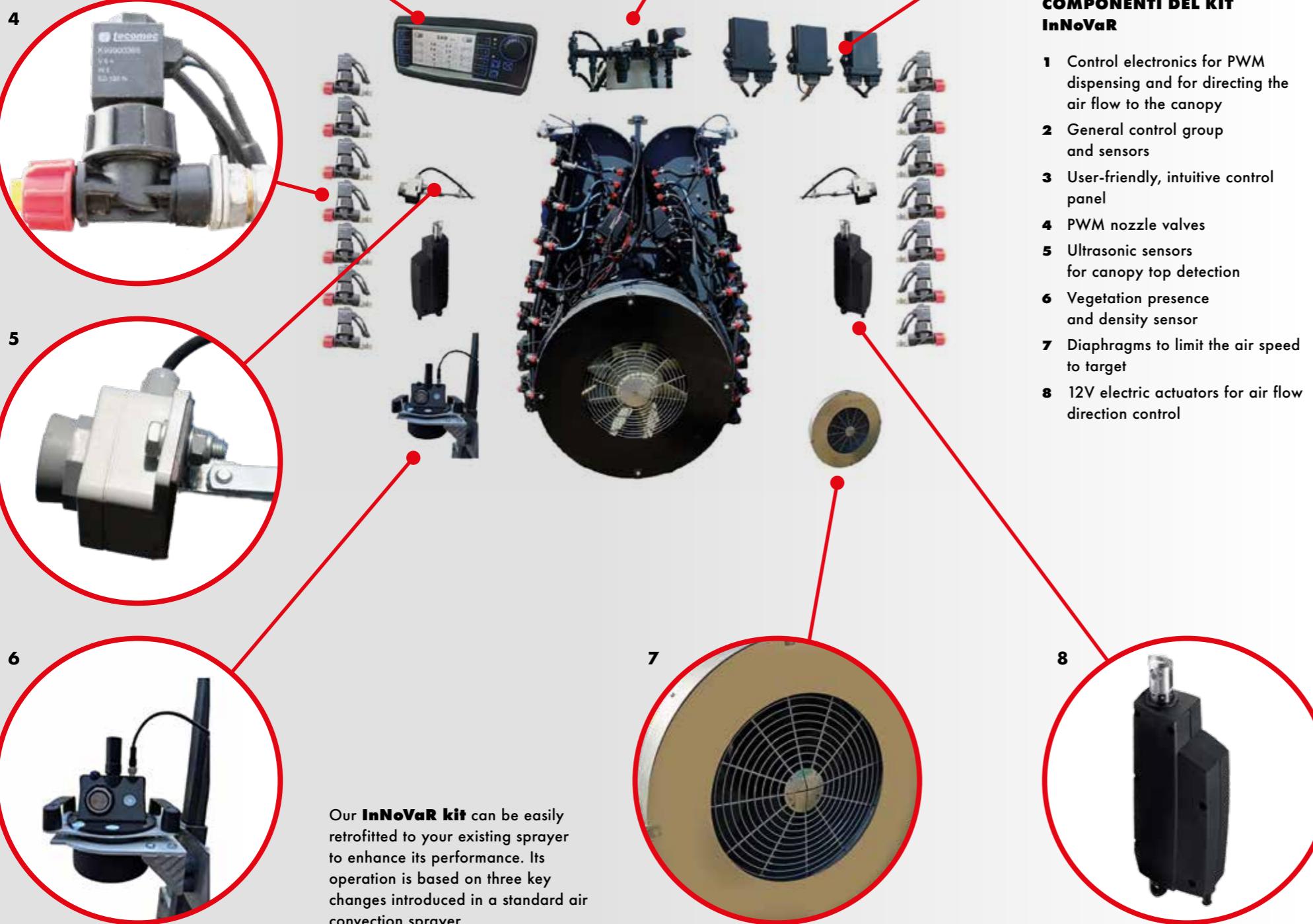
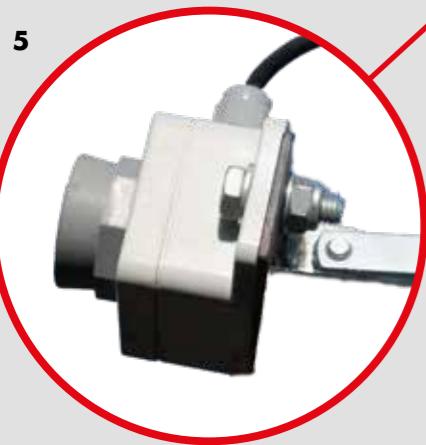


# INDIVIDUAL NOZZLE VARIABLE RATE SPRAYING KIT

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## RETROFIT YOUR SPRAYER



Our **InNoVaR kit** can be easily retrofitted to your existing sprayer to enhance its performance. Its operation is based on three key changes introduced in a standard air convection 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 valves
- 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 in the vineyard, the nozzles instantly close. All this will happen completely automatically, by simply operating an ON/OFF button at the beginning and the end of each row.

### PHYTOIATRIC MIXTURE PWM DISPENSING

Another design function, is the automatic direction of 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.

