



**SMART  
SOLUTIONS**  
*for a*  
**MODERN &  
ECO-FRIENDLY  
FARMING**

TECHNICAL INNOVATION – EIMA 1988

SILVER MEDAL FOR THE QUALITY  
COMPETITION - FIERAGRICOLA 2004

CERTIFIED 

*Electrostatic Sprayer*

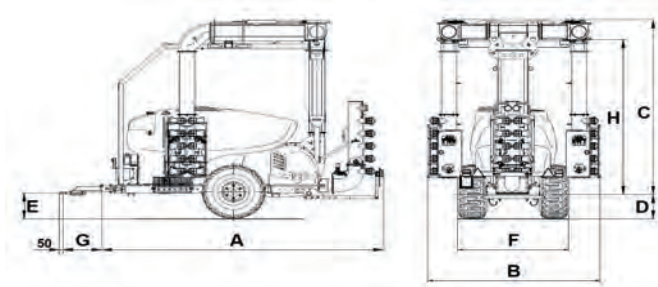
## **WHIRLWIND "TURBO 3"**



The very FIRST multi-row sprayer designed and introduced on the international market; ideal for treating 3 rows simultaneously with an average daily productivity varying between 30 and 50 hectares

TREATED WITH  **ELECTROSTATIC®**  
AGRO SPRAY SYSTEM

## TECHNICAL DATA



DESCRIPTION	WW M612 TURBO 3			
<b>Capacity (liters)</b>				
Tank	1000	1500	2000	3000
Rinsing tank	120	120	120	234
Hand washing tank	25	25	25	30
<b>Weight (kg)</b>				
(weight) Empty	1585	1730	1780	2125
(weight) Full	2950	3650	3900	5815
<b>Tires</b>				
340/55 - 16 (1)	✓	✓	✓	
300/80 - 15.3 (2)	✓			
400/60 - 15.5 (3)	✓	✓	✓	✓
500/50 - 17 (4)			✓	✓
<b>Drawbar</b>				
Eye type drawbar (4)	✓	✓	✓	✓
Articulated drawbar homologated (5)	✓	✓	✓	
<b>Dimensions (mm)</b>				
A	3650	3935	4250	5220
B (machine at rest)	2330	2330	2330	2630
C	2515 ÷ 2815	2515 ÷ 2815	2515 ÷ 2815	2535 ÷ 2835
D (1)		385		-
D (2)	435	-	-	-
D (3)		440		
D (4)	-	-	475	475
E (1)	335 ÷ 485	325 ÷ 475	410 ÷ 560	-
E (2)	385 ÷ 535	-	-	-
E (3)	390 ÷ 540	380 ÷ 530	465 ÷ 615	485 ÷ 675
E (4)	-	-	500 ÷ 650	520 ÷ 710
F (1)	1480	1600	1630	-
F (2)	1450	-	-	-
F (3)	1550	1670	1700	1900
F (4)	-	-	1770	2000
G (5)		555 ÷ 700		
G (6)		705		-
H	2120 ÷ 2420		2140 ÷ 2440	
Boom ground clearance		D+H		
<b>Technical Features of the Sprayer</b>				
Tractor power required	55 kW / 75 CV			
Absorbed power by the Sprayer	30 kW / 40 CV			
Pump flow rate (l/min.)	da 250 a 500			
Operating pressure (bar)	1.5			
Fan air capacity (m <sup>3</sup> /h)	18100			
Air speed (m/s)	70			
Fan rotation speed (rpm)	2581			
Sound power db (A)	110			

\* We reserve the right to make changes without prior notice



## CONSTRUCTION FEATURES

The Whirlwind "Turbo 3" AWARDED as a Technical Innovation at EIMA Bologna 1988 and subsequently with the Silver medal in the QUALITY competition - Fieragricola Verona 2004, presents the following exclusive construction features:

Over-the-row boom with monolithic metal tubing of large diameter, without the multiplicity of flexible hoses and complex metal tubular trusses used for imitation machines, with the advantage of maximum efficiency of air flows, considerable solidity and therefore operating speed up to over 10 km/h.

Specially designed to solve the problems related to treatments on vineyards, but also other row crops such as berries, table vegetables, etc. with spacing from 2.00 m up to over 3.00 m.

The following boom clearances underneath are available:

- 2.60 m
- 2.90 m

Different measurements are also available on request.

The over-the-row boom spacing can be customized at the time of the order, for those who have the need for variability, two optional versions are available:

**"KIT S" (Patent B0 2003 A 000661)** an innovative mechanical-manual system that allows you to adjust the spacing of the multiple lateral heads with an excursion of up to 1000 mm.



**"TELESCOPIC" (Patent Application nr. 102021000025145)** with overhead telescopic arms (with remote electro-hydraulic control) having a stroke of 600 mm.

## ACCESSORIES ON REQUEST

- Bravo 180S automatic rate controller
- "ISOBUS" automatic rate controller
- EU road homologation (Regulation 167/2013)
- Tandem axle
- **TELE-AIR-FAN Anti-Sucking system (Patent Application 102020000026744)** with remote controlled air intake, here are the many ADVANTAGES:
  - 1) Prevents the suction of leaves, grass, debris, sprayed mist from the side heads
  - 2) Increases the silence of the equipment
  - 3) Ensures the maximum efficiency of the Electrostatic charge
  - 4) Prevents internal fouling of air ducts and spray heads:

**ZERO MAINTENANCE**

# 5 GOOD REASONS

FOR CHOOSING  
MARTIGNANI  
MIST BLOWERS  
WITH THE  
ELECTROSTATIC  
DEVICE



## OPERATING ADVANTAGES, COMPARED TO A CONVENTIONAL SPRAYER:

- Drift losses on atmosphere - 85%
- Run-off losses on the ground - 70%
- Perfect and uniform distribution of the agrochemical (minor quantity required per hectare)
- Increased efficiency
- Adaptable to any cultivation form



## SAVINGS:

- Time: about 60%
- Labour: about 60%
- Chemicals: about 50%
- Water: about 90%



## PRODUCTION QUALITY:

- Healthier crops
- Fruits without imperfections
- Fruits and wine with "zero" or minimum legal chemicals residues



## LIFE QUALITY:

- Environmental impact reduction
- Contamination dangers for operators: about - 75%
- Guarantee of health for the consumers



## TESTIMONIALS:

- Tested (with published results) worldwide by several eminent Research Institutes (three in Italy)

## INTERNATIONAL FAIRS MULTI AWARD WINNING:

- SIMA - Paris - France (Golden Medal 1985)
- EIMA - Bologna - Italy (Technical Innovation 1988, 2004, 2014)
- AGRIBEX - Bruxelles - Belgium (Silver Spike 1992)
- FIERAGRICOLA - Verone - Italy (Technical Innovation 1994, 1995, 2004, 2016)
- EIMA - Bologna - Italy (Environment Award 2016)
- EIMA - Bologna - Italy (Technical Mention 2021)



## WHIRLWIND TURBO 3



## MARTIGNANI S.r.l.

Via Fermi, 63  
(Zona Industriale Lugo 1)  
48020 S. Agata sul Santerno (RA)  
Tel. +39 0545 23077  
Fax +39 0545 30664  
martignani@martignani.com  
[www.martignani.com](http://www.martignani.com)



TREATED WITH

