**PNEUMATIC -ELECTROSTATIC MIST BLOWER**
**WHIRLWIND B612 "TURBO 2" and "TURBO 2 H.T.S" - PTO models**

Hot dip galvanized basic frame – High capacity stainless steel Centrifugal Pump with special mechanical seals - KWH DOUBLE suction and DOUBLE outlet Centrifugal Fan of very high aerodynamic performance (from 20,000 to 26,000 cu.m./hour (706,400/918,320 cubic feet/hour) of air at 60 m/sec (196.80 feet/sec)) – For pulled models: the axle can be adjusted in height and length, and equipped with "eye type" drawbar; an "articulated type" drawbar is also available with mechanical and/or hydraulic stopping device.
MECHANICAL control (upon request with ELECTRICAL control pressure-compensating device) – 2+2 Stainless steel graduated scale precision CALIBRATING VALVES to carry out all spray volumes from 50 to 2,000 l/hectare (roughly 5 to 200 USG/Acre), with only one type of non clogging micronizer nozzle of ø 4 mm (0.16"), without any problem relating to clogging or wearing out, always at a pressure of 1.5 bar (22 PSI) – Column elevation SYSTEM (with heights that can be adjusted mechanically for TURBO 2 model or hydraulically – telescopic - for Turbo 2 HTS model) – 2 series of fan diffusers (upon request: with incidence angle of the upper spray heads which can be hydraulically adjusted from the driver's seat - Turbo 2 HTS model) for crossed and focussed treatment on systems for Trellised Vineyards, Orchards, citrus plantations, Tropical crops like Mango, Papaya, Avocado, etc…

Available in Pulled versions with **600 l (160 USG) – 1000 l (260 USG) – 1500 l (400 USG) capacities**.
In 3P Mounted versions, with **300 l (80 usg) - 400 l (106 USG) - 600 l (160 USG) capacities.**

REQUIRED POWER: for tractors starting from **70 HP (52 kW)**.
PERFORMANCE: up to 20-30 hectares per day (50 to 75 Acres per day).

(empty) WEIGHTS:
578 Kg (1277.37 lbs.) (in the 3P Mounted 400 l-106 USG version)
595 Kg (1314.95 lbs.) (in the 3P Mounted 600 l-160 USG version)
860 Kg (1900.60 lbs.) (in the Pulled 600 l-160 USG version)
890 Kg (1966.90 lbs.) (in the Pulled 1000 l-260 USG version)
910 Kg (2011.10 lbs.) (in the Pulled 1500 l-400 USG version)

Turbo 2

Turbo 2 HTS

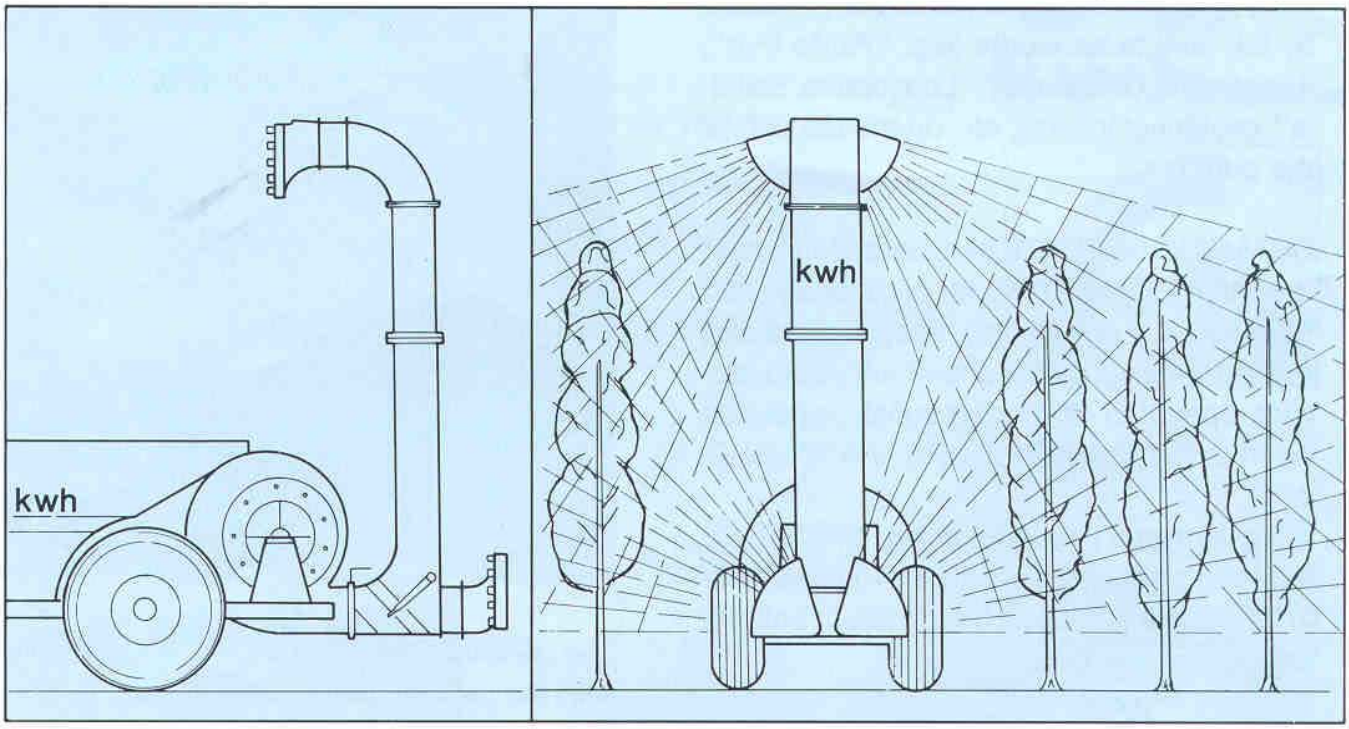
**TURBO 2 in operation on a citrus plantation**

**TURBO 2 in operation on a MANGO PLANTATION**

**TURBO 2 in operation on a PAPAYA PLANTATION**

# MARTIGNANI - K.W.H. "TURBO 2"
## A special unit with double "Electrostatic" Mist Blowing System

**(It can be installed on all B-612 mist blowers of the "WHIRLWIND" and "PHANTOM" line)**




**One more step forward in our research for the most rational treatments for "FRUIT FARMING IN THE NINETIES"**

## CONSTRUCTION DETAILS

The unit consists in an upright TUNNEL of rectangular cross section, made of thick steel plate. The upright column, when mounted on the B-612 "STANDARD" or "MAJOR" BLOWER, can convey the air stream partially to the 2-head diffuser placed in the normal (lower) position, and partially to an equal diffuser placed at the top.

An adjusting system with 5 POSITION lever makes it possible to convey the air either to the lower diffuser only, or to the upper one only, or to both in EQUAL - or DIFFERENT - quantities, as desired.

The COLUMN can have different heights as it consists of MODULAR elements which can be assembled one on top of the other by means of universal joints. The two UPPER blower heads can be oriented - even in operation - by means of a remote hydraulic control. The UPPER blower is fed by a second high precision liquid dosing system which makes it possible to vary the metered quantities for the most rational use.

The FAN SHAPED mist stream from the UPPER BLOWER spreads itself transversally to the direction of motion and it is 1,4 m AHEAD of the mist fan blown by the lower heads. This feature is of vital importance when CROSS-BLOWING (top to bottom / bottom to top at the same time): the droplets sprayed by the blowers do not stick together but tend to repel each other as they have the same electric CHARGE, thus ensuring uniform coverage; at the same time the AIR STREAMS from the two blowing heads NEVER interfere with each other and no undesired opposite effects are caused.

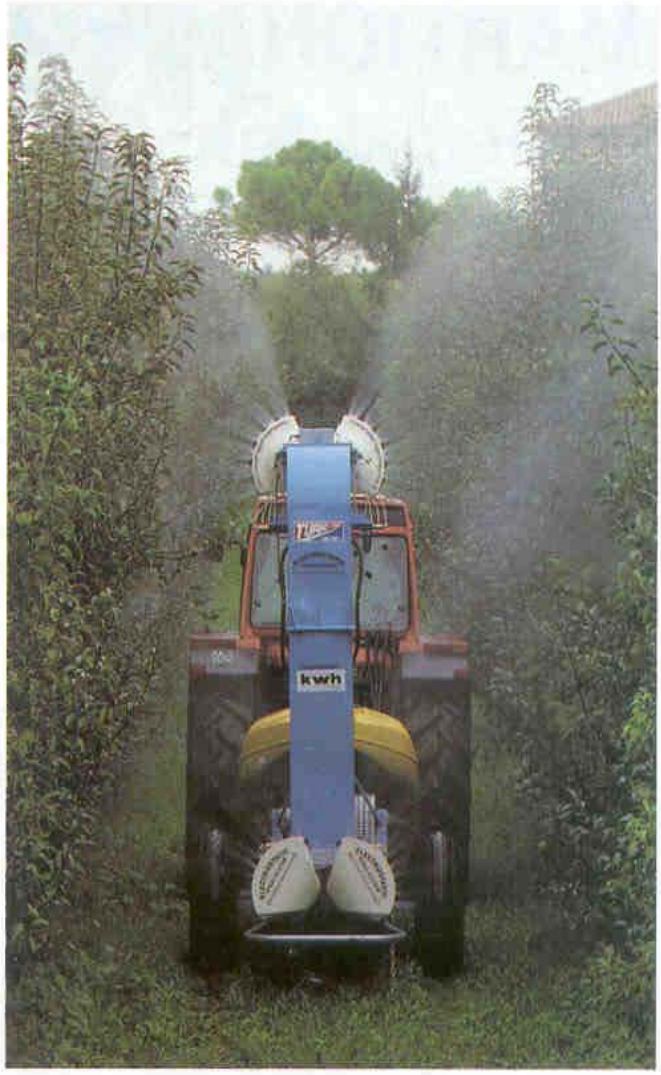
## MAIN ADVANTAGES

- AIMED DISTRIBUTION on the whole row-perfect coverage with the minimum use of chemicals.

- Spraying can be LIMITED or LOCALIZED to the vegetation belt which is actually infested by the pest to be fought (e.g. "Psylla Pyri", "Pandemis Cerasana", "Leucoptera Scitella", cochineal insects, etc. on the top part of the plant).

- DRAMATIC REDUCTION of operating times: *very high* ESPALIERS with thick foliage can be covered at remarkably higher speed, and even in weather conditions which would prevent operation of conventional apparatus (such as WIND - HOT HOURS - RAINY DAYS etc.)
  In modern type (lower) espaliers, PASSAGES between rows can be reduced to 50% even in full vegetation; thus, hourly treatment efficiency can be doubled.

- EFFECTIVE FIGHTING of "Planococcus Citri", also in orange plantations where some results could so far be obtained only by operators using *hand nozzles* (hand spray gun!), as it was impossible to penetrate inside the vegetation with conventional air-sprayers.



The combination of DOUBLE CROSS-BLOW with the suitable driving speed, plus the extremely effective atomization both with HIGH and LOW water volumes, assures TOTAL COVERAGE even in the internal parts of the plant; this was positively ascertained in the seasons 1986-1987 in several orange-groves in Sicily.



**ELECTROSTATIC SPRAY SYSTEM**

**"TURBO 2"**

AT LAST A GLOBAL SOLUTION
FOR ALL SPRAYING PROBLEMS
THAT CONVENTIONAL SPRAYERS
COULD NOT SOLVE IN 60 YEARS' USE...

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