

Finer droplet air-inclusion nozzle receives JKI approval

GuardianAIR™, the new range of drift-reducing air-inclusion nozzles from Hypro has received JKI approval for sizes from 025 to 05 and drift reduction classifications.

GuardianAIR™ are designed with finer air-included droplets which means that they offer the perfect balance between spray coverage and drift reduction.

According to Product Manager Roger James:

“In the UK GuardianAIR nozzles have been extensively field-tested and the work has shown that 3 bar is the optimum pressure for spray coverage - in most cases results are equivalent to flat fan nozzles and always a great improvement on other air-inclusion nozzles at this pressure. The excellent coverage means they are ideal for most spring combinable spray operations including foliar fungicides, insecticides, PGRs, wild oat herbicides and glyphosate. Dropping the pressure to 1.5 bar achieves 75% drift reduction – useful on sensitive headlands or to help complete spraying if the weather deteriorates”.

To receive JKI approval a nozzle must demonstrate that it delivers performance, durability and practicality. Nozzles undergo testing both in the JKI laboratory and in farm trials for at least one season of use. The JKI also conduct drift reduction assessments, GuardianAIR™ nozzles from size 03 upwards achieved 75% reduction of drift compared to a standard at 1.5 bar.

Guardian AIR™ nozzles have been extensively used at 100 l/ha in the UK and the results are very good, due to the high coverage. This has the added benefit of saving considerable spraying time and covering more ground, helping to achieve critical application timings for disease and weed control. It is estimated that delaying by just one day from the optimum fungicide timing can cost 0.07 t/ha, so a weeks delay is worth half a tonne.

GuardianAIR™ nozzles have a reverse incline of spray, this also enhances plant coverage by reducing the effect of spray shadowing.

GuardianAIR™ nozzles are available in sizes from 015 through to 05, with sizes 02 to 05 receiving JKI approval and drift classification.

GuardianAIR complements the Hypro Ultra Low Drift (ULD) nozzle which offers up to 90% drift reduction. ULD therefore offers the widest possible spraying window and is especially suitable for systemic fungicides and soil-acting herbicides. Size 03 offers 50% drift reduction, size 04, 75% drift reduction and size 05 offers 90% drift reduction at 2.5 to 8 bar pressure.

ENDS

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About Hypro-EU Limited

About Hypro

Hypro has more than 55 years experience in manufacturing pumps, spray nozzles and sprayer components for the agricultural, turf and pest control markets as well as a diverse range of industrial areas such as car wash, high pressure wash, component washing, food processing, fire protection, line marking, street sweeping, construction, environmental control, quarrying, irrigation, drainage, chemical and pharmaceutical manufacture, steel making, pulp and paper processing markets. Hypro has manufacturing facilities in Minnesota, US and Cambridge, UK, where the European business is based. Hypro's nozzles, pumps and spraying accessories are fitted to the world's leading spray equipment. Hypro is part of Pentair, who employ 12,000 people worldwide in all areas of industrial and domestic fluid handling technology and is a worldwide leader in pumps, filtration, pool products and electronic enclosures, with global revenue of \$3.35 billion (2007).

About PPV Horst Wellbrock

Horst Wellbrock, based in Hamburg, Germany is the distributor for Hypro pumps in and for nozzles in Germany. The company was established in 1976 and source the best components for plant protection machines from manufacturers worldwide. They offer parts and repair services to machine manufacturers, test enterprises, repair shops, and agriculture enterprises.