

Duo-React Nozzle Control

Many applicators are very happy and trusting of the performance they get from their air induction nozzles, but would like more consistent spray quality without over-driving or under-driving their machines. Hills, sloughs, rough ground can all mean that speed can vary a great deal while spraying. When using air induction nozzles those speed changes can result in variable pressures and different spray qualities, along with possibly having to change nozzle selection for each field. The Duo React System from Hypro, supported by AgStar addresses the applicator's need for operational flexibility and consistent spray quality combined with the use of air induction nozzles for overall superior spray performance.



The Duo React utilizes a primary nozzle body (single) and a secondary (quad) turret nozzle body. The two nozzles can switch from primary to secondary nozzles instantly at a given setpoint as well as spraying with both nozzles A+B at the same time. The system can also manually select the nozzle in operation allowing the operator to have total control when desired. The Duo React is a low cost nozzle control option at roughly 30% the cost of an Exact Apply system and 50% to 70% the cost of aftermarket PWM systems. It fits well with applicators that desire the proven benefits of air filled spray droplets combined with the consistency and ease of use of a PWM system.

Each Duo React System consists of a control unit in the cab, a vehicle wiring harness, control nodes, combined with leader and follower Duo React nozzle bodies on the boom. The nozzle bodies are affordable if damaged in the field and have proven durable and reliable. This includes standing up well to abrasive chemicals and liquid fertilizer. Each leader is controlled by the rate controller as if it were a boom section valve. The electric leader then controls the followers using compressed air to instantly start and stop spray along with switching nozzles. Systems are straightforward to configure and can be installed on any make and model of sprayer provided there is a compressed air system installed. The system can also be used with John Deere high flow stainless steel plumbing utilizing an adaptor. 2017 is the second crop year that the Duo-React System has been widely available.

AgStar is currently working on adapting and assembling solutions for individual nozzle control and recirculating booms kits to add to sprayers. For the latest news and products from AgStar please follow us in twitter @agstar_ca

AgStar Ltd. has over 20 years experience in the self-propelled sprayer/commercial application business. AgStar is a distributor of application technologies and products that make crop care more efficient. AgStar takes great pride in improving the effectiveness, timeliness, efficiency, and environmental impact for applicators of crop care products. Agstar is also focused on supporting the dealer channel and end user to provide an outstanding ownership experience. For more information on the Duo React or to discuss your specific challenges applying crop care products reach out to Agstar Ltd. AgStar is currently looking for qualified retailers to assist in the sale and support of our product line.

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