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Patchwork Solutions Raven Fast response Injection systems



Direct Injection offers many advantages in crop spraying. Accurate application of varying amounts of active ingredient and reduction in washout time being among the most often quoted.

However leaving aside these practical advantages, previous direct injection systems have suffered practical problems due to the slow speed of response to a change in chemical concentration.

Simply put, a change in the chemical volume being injected upstream of the sprayboom must always have a lag time before it issues from the nozzle at the new concentration.

Raven chemical injection has always had an advantage in this respect because it uses high pressure pumps which can inject chemical after the main sprayer pump and as close to the booms as possible. The Sprayer built in 1998 indicated at left used this principle to inject right on the boom backframe to reduce lag to a minimum.

Since this time a new system has been developed under European Patent 1294228 registered to Richard Price which uses the unique abilities of the Raven canbus controlled injection system to produce a compact and cost effective means to achieve near instant chemical concentration changes at the nozzle.

The system operates by using a boom mounted pump system to circulate spray mixture at high speed to achieve rapid response to rate changes. An alternative plumbing arrangement allows chemical to be quickly directed to individual boom sections. Price of these systems will vary according to requirements and is best built in to a sprayer on assembly or during a rebuild since plumbing arrangements for injection sprayers differ from conventional sprayers. The system will usually include a Raven 4000 series controller capable of controlling up to 5 products including the carrier fluid. Contact Patchwork for more details of systems for Chemical Injection. These systems can be manually controlled or connected to a GPS driven system to spray variable rates according to a predefined prescription plan.

