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- **Lead**

HIGH CAPACITY VENTURI FOR RAPID PESTICIDE INDUCTION

- Hypro Eductor venturi component provides fastest spray chemical induction
- Empties chemical hopper fast enough to keep pace with centrifugal pumps
- New 'wet' seal for Hypro 9307 pump guards against running dry damage

A high capacity venturi unit that sucks pesticides out of induction hoppers at a rapid rate during chemical loading has been developed by Pentair to further improve the operator's experience when filling large crop sprayers.

The Hypro Eductor, which will be launched in the Sprays & Sprayers section of the Cereals Event, is a one-piece polypropylene unit that connects to the underside of an induction hopper and is plumbed into a water supply running to and from the sprayer tank.

"The Hypro Eductor includes a very powerful venturi that creates a vacuum in the top inlet so that the contents of the induction bowl are positively sucked away into the sprayer," explains Hypro product manager Roger James. "It is highly efficient, drawing material out of the hopper at 150 litres per minute at less than 1 bar, a much lower pressure than similar units and one that puts less demand on sprayer plumbing."

Unlike most similar devices, the Hypro unit also has the potential to reach 400 litres per minute at 4-5 bar pressure, which will help reduce filling times on big sprayers, especially when emptying large pesticide containers.

The characteristics of the new Hypro Eductor make it an ideal match for a centrifugal pump that also delivers high flow at low pressure.

Roger James is a keen advocate of using centrifugal pumps on crop sprayers because of their simplicity and low maintenance demand. Also, he points out, they are capable of delivering an

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exceptional flow performance from a small, light-weight unit, which has advantages for installation on the sprayer – and all at lower cost.

“A centrifugal pump like our Hypro 9307 is ideal for delivering fast flow rates, not only for quick tank filling but also for faster spraying speeds and high volume liquid fertiliser application,” he points out. “A positive displacement pump giving similar performance will likely be twice the price, a lot bigger and more complex – with eight pistons, 16 valves and numerous other components involved in routine servicing.”

In contrast, centrifugal pumps have few moving parts, resulting in excellent reliability and low maintenance requirement.

A new feature for the ‘contractor spec’ Hypro 9307 is an optional ‘wet’ seal that guards against the damage caused by inadvertently letting it run dry.

“A standard ceramic seal can fail if left to run dry for any length of time or if used with excessively abrasive liquids,” Roger James explains. “Pentair already offers a ‘Lifeguard’ silicon carbide seal that protects against such damage and provides up to 21 times longer service life, but the Hypro 9307 pump is the first available with the patented ‘Forcefield’ wet seal.”

This all but eliminates the risk of seal damage during typical run-dry situations, such as forgetting to shut off the sprayer pump on the journey from field to yard. It is therefore not only a high performance unit, with up to 1400 litre/min flow capacity, but also a practical choice for the main sprayer pump.

Roger James urges farmers to explore all options for the pump and induction system when buying a new sprayer, especially if they are keen to see quicker sprayer filling times.

“Quite rightly, farmers take time considering tank size, boom options and controls before buying a new sprayer,” he says. “But digging a bit deeper on pump and induction system pros, cons and performance will certainly help ensure they are getting the best set-up for fast sprayer re-filling turnarounds.”

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Hypro Eductor 01.jpg

When connected to the base of an induction hopper, the Hypro Eductor can draw chemical into the sprayer faster than similar devices for more rapid sprayer filling.



Hypro 9307 centrifugal pump 01.jpg

Performance of the Eductor is a good match for the high flow characteristics of the Hypro 9307 centrifugal pump, which is capable of delivering up to 1400 litres/min flow.

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Hypro 9307 centrifugal pump Forcefield wet seal.jpg

The patented Forcefield wet seal available on the Hypro 9307 centrifugal pump minimises the risk of damage from inadvertently running the pump dry.

About Pentair and Hypro EU Ltd

Pentair make spray nozzles, pumps and sprayer parts under the Hypro® brand name. Spray nozzles have been manufactured at Pentair's Cambridge site in the UK since 1954, initially under the Lurmark name and now with the Hypro® brand. As well as agricultural, turf and pest control markets, Hypro nozzles and pumps are used in 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. Pentair is also a leading international producer of sprayer pumps, which are manufactured in Minnesota, USA. Hypro® branded spray nozzles, pumps and sprayer components are fitted by the world's premier manufacturers of spray equipment. Pentair is an \$8 billion company with more than 100 manufacturing sites and 30,000 employees worldwide; it offers a full range of flow management, filtration, thermal management and equipment protection solutions.