

# ENVIROSPRAY®

WITH OMNicontrol® TECHNOLOGY

Unrivalled ground speed and spot  
spray water truck systems

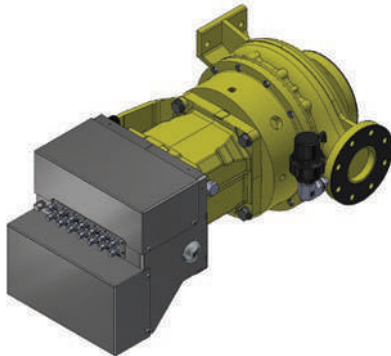


INFINITE POSSIBILITIES

# How ENVIROSPRAY® Works

ENVIROSPRAY® is a digitally controlled spray system that uses OMNICONTR® technology to provide a ground speed proportional spray system with a distance based spot spray feature. The system uses the truck speed sensor to automatically control water pump speeds and spray head selection to suit the operators settings. OMNICONTR® nodal technology enables modules to be added or removed to customize systems and reduces wiring by up to 70% over traditional systems.

Premium Module  
Option Shown



10.5" Display  
Option Shown



OMNI Node  
Shown



## Innovative

Design optimises performance & minimises hydraulic temperatures

- ✓ The system integrates with all major truck brands without changing the OEM hydraulic flow paths
- ✓ The system controls the hydraulic flow available to the motor by the adjustment of the innovative sequence valve module
- ✓ For premium systems the motor stroke is also adjusted to further control the system output and so absorbs the total hoist pump flow. This reduces hydraulic heat loads by up to 50% over traditional flow control methods
- ✓ The system can control water pump speeds up to 3000 rpm, maximising cannon and spray performance

## Elegant

Touch screen user interface

- ✓ Intuitive touch operation negates the need for detailed training manuals
- ✓ Screen provides graphical feedback of system operation and performance
- ✓ OMNICONTR® can control multiple systems from the one platform decluttering drivers cabins

## Robust

IP6k9k controllers with CAN interface

- ✓ Controllers are certified IP6k9k are enclosed within aluminum housings and also guarded by SS covers or mounted within SS control boxes for maximum protection
- ✓ Each output has a dedicated plug with an associated input for full closed loop control



## SPRAYRIGHT Rapid Response Spray Heads

With SPRAYRIGHT super responsive spray heads a 10-m/10-m spot length can be achieved at truck speeds of 50-Km/h providing SPOT-ON results every time.

[www.ifield.com.au/ifield-sprayright/](http://www.ifield.com.au/ifield-sprayright/)

Call your local  distributor today for more details, testimonies, application specific spray system designs and quotes.





# Pick The ENVIROSPRAY® System right for your requirement and Budget

FEATURE SETS	STANDARD-MINI Basic Ground Speed System for on road & articulated trucks Civil, Quarries, Earthmoving, Construction	STANDARD Basic Ground Speed System for off road trucks Civil, Quarries, Earthmoving, Construction	PREMIUM Advanced Ground Speed System for off road trucks Small Mines & Mining Contractors	PREMIUM-PLUS Next-Gen Ground Speed System for off road trucks Large Mines & Mining Contractors
Touch Screen HMI				
7" Touch Screen HMI	✓	✓		
10.5" Touch Screen HMI	Optional	Optional	✓	Optional
12" Touch Screen HMI				✓
Flow Control System with Motor Speed Feedback	✓	✓	✓	✓
Distance Based Spot Spray (10-m/10-m Spots @ 50-Km/h)	✓	✓	✓	✓
Foot Pedal Pause Function	✓	✓	✓	✓
Digital Water Level Display	✓	✓	✓	✓
Graphical Spray Operational Feedback	✓	✓	✓	✓
Full Flow Pressure Filtration with Digital Monitoring	✓	✓	✓	✓
Flow Control Pressure and Coil Current Monitoring	✓	✓	✓	✓
Camera Inputs				
Dual Camera Input Capability	✓	✓	✓	✓
Quad Camera Input Capability				✓
Tank Fill Point Water Level Shutdown System		*	✓	✓
Hydraulic Tank Level Monitoring		*	✓	✓
Variable Displacement Motor Minimising Heat Load and Optimises Water Pump Speed Control			✓	✓
Integrated Spray/Cannon Controls on Motor			✓	✓
Hydraulic Flow Monitoring			*	✓
Hydraulic Pump Performance Monitoring			*	✓
Spray head Pressure and Coil Current Monitoring			*	✓
Cannon Pressure and Coil Current Monitoring			*	✓
On-board Data Logging				✓
System Prestart Function Checks				✓
GPS System Integration with GEO Fencing				*
WI-FI Integration				*
Bluetooth Integrations				*
Oil Condition Monitoring (Particle & Water Saturation)				*
Graphical Diagnostic System with RCA				*
User Manuals & Training Videos on Screen				*
Autonomous Spray System Functionality				*

\* These features are expansion options & not included as standard



# ENVIROSPRAY® STANDARD-MINI

## System Configurations & Features

ENVIROSPRAY® STANDARD-MINI is your entry level ground speed system for on road & articulated trucks that provides all the features you would expect from a benchmark digital system but at a price point around the level of basic non-road speed systems.

### ENVIROSPRAY® STANDARD-MINI SETTING A NEW BENCHMARK FOR ON ROAD AND ARTICULATED TRUCK SPRAY SYSTEMS

#### Close Coupled Pump/Motor\*

- ✓ \*ISO 100x65x250 standard mount
- ✓ \*Rated to 2500-rpm to ensure full cannon and spray performance is achieved
- ✓ IP designed self primer valve enables tank filling from dams

**\*STANDARD-MINI systems can work with existing pump motor assemblies for retrofit application with the actual pump size and motor type depending on machine requirements**



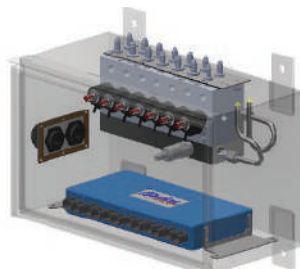
\*STANDARD-MINI module option shown

#### Digital Live Diagnostics

- ✓ Hydraulic pressure monitoring
- ✓ Flow control coil current monitoring
- ✓ Truck input monitoring
- ✓ Motor control monitoring
- ✓ Water level monitoring

#### Spray and Cannon Control Modularity Boxes

- ✓ Integrated manifold
- ✓ Integrated CAN controller
- ✓ Controls up to 6 spray heads or water outlets
- ✓ Controls 1 cannon with fog/jet nozzle



STANDARD-MINI Module option shown

#### All Functions from a Single Touch Screen Interface

- ✓ Spray head, cannon & AUX control
- ✓ Water application rate and spot spray control
- ✓ Dual camera inputs



7" STANDARD display shown

#### Ground Speed Control



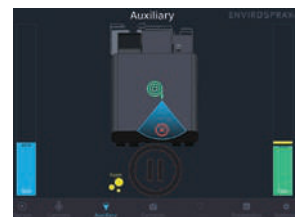
#### Spot Spray Control



#### Cannon Control



#### AUX Control



# ENVIROSPRAY® STANDARD

## System Configurations & Features

ENVIROSPRAY® STANDARD is your entry level off road ground speed system that provides all the features you would expect from a benchmark digital system but at a price point well below competitor systems and still providing the ENVIROSPRAY edge.

### ENVIROSPRAY® STANDARD ADVANCES YOUR WATER TRUCK CAPABILITY

#### Close Coupled Pump/Motor\*

- ✓ ISO 125x100x250 standard mount
- ✓ Rated to 3000-rpm to ensure full cannon and spray performance is achieved

\*STANDARD systems can work with existing pump motor assemblies for retrofit application



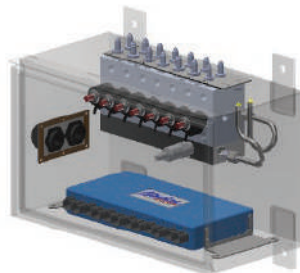
STANDARD module option shown

#### Digital Live Diagnostics

- ✓ Hydraulic pressure monitoring
- ✓ Flow control coil current monitoring
- ✓ Truck input monitoring
- ✓ Motor control monitoring
- ✓ Water level monitoring

#### Spray and Cannon Control Modulars Boxes

- ✓ Integrated manifold
- ✓ Integrated CAN controller
- ✓ Controls up to 6 spray heads
- ✓ Controls 1 cannon with fog/jet nozzle



STANDARD/PREMIUM module option shown

#### All Functions from a Single Touch Screen Interface

- ✓ Spray head, cannon & AUX control
- ✓ Water application rate and spot spray control
- ✓ Dual camera inputs



7" standard display shown

#### Ground Speed Control



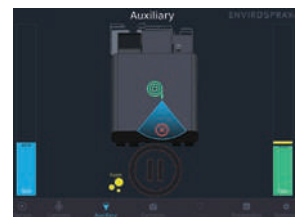
#### Spot Spray Control



#### Cannon Control



#### AUX Control



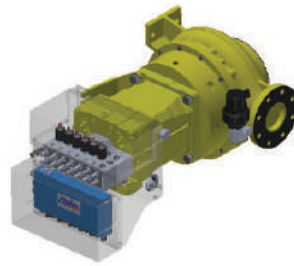
# ENVIROSPRAY® PREMIUM System Configurations & Features

**ENVIROSPRAY® PREMIUM** is your mid level off road ground speed system that provides all the features from your STANDARD system but expanded to include variable motor control, integrated motor module with spray/cannon control and mid level diagnostics. This mid level system exceeds industry standard ground speed control systems at a price point below competitor systems.

## ENVIROSPRAY® PREMIUM OPTIMISES YOUR WATER TRUCK EFFECTIVENESS

### Close Coupled Pump/Motor

- ✓ ISO 125x100x250 standard mount
  - ✓ Rated to 3000-rpm to ensure full cannon and spray performance is achieved
  - ✓ Controls up to 6 spray heads
  - ✓ Controls 1 rear cannon with fog/jet nozzle
- \*PREMIUM systems include variable motor control optimising efficiency and performance**



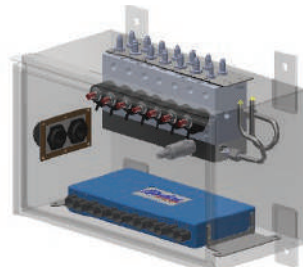
PREMIUM  
module option shown

### Digital Live Diagnostics

- ✓ Hydraulic pressure monitoring
- ✓ Flow Control Coil current monitoring
- ✓ Truck input monitoring
- ✓ Motor control monitoring
- ✓ Water level monitoring
- ✓ Water tank fill point control
- ✓ Hydraulic tank level monitoring

### Spray and Cannon Control Modular Boxes

- ✓ Integrated manifold
- ✓ Integrated CAN controller
- ✓ Controls up to 6 spray heads
- ✓ Controls 1 cannon with fog/jet nozzle



STANDARD/PREMIUM  
module option shown

### All Functions from a Single Touch Screen Interface

- ✓ Spray head, cannon & AUX control
- ✓ Water application rate and spot spray control
- ✓ Dual camera inputs



10.5" PREMIUM  
display shown

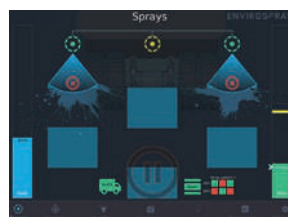
### Water Tank Fill Control



### Ground Speed Control



### Spot Spray Control



### Cannon Control



### AUX Control





# ENVIROSPRAY® PREMIUM-PLUS

## System Configurations & Features

ENVIROSPRAY® PREMIUM-PLUS is your top level off road ground speed system that provides all the features from your PREMIUM system but further expanded to include, high level diagnostics and quad camera inputs, on-board data logging and system prestart function checks. This high level system supersedes industry standard ground speed control systems and has a list of expansion options that enable this system to take your water spray system all the way from full manual to total automation without blowing the budget.

### ENVIROSPRAY® PREMIUM-PLUS OPTIMISES YOUR TOTAL WATER AND DUST CONTROL MANAGEMENT

#### Close Coupled Pump/Motor

- ✓ ISO 125x100x250 standard mount
- ✓ Rated to 3000-rpm to ensure full cannon and spray performance is achieved
- ✓ Controls up to 6 spray heads
- ✓ Controls 1 rear cannon with fog/jet nozzle

**\*PREMIUM-PLUS systems include variable motor control optimising efficiency and performance**



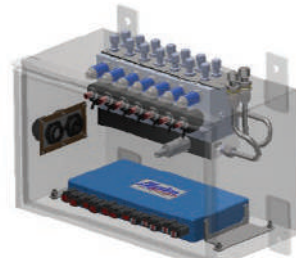
PREMIUM-PLUS Module shown

#### Digital Live Diagnostics

- ✓ Hydraulic pressure monitoring
- ✓ Flow control coil current monitoring
- ✓ Truck input monitoring
- ✓ Motor control monitoring
- ✓ Water level monitoring
- ✓ Water tank fill point control
- ✓ Hydraulic tank level monitoring
- ✓ Spray & cannon control pressure & coil current monitoring

#### Spray and Cannon Control Modulars Boxes

- ✓ Integrated manifold
- ✓ Integrated CAN controller
- ✓ Controls up to 6 spray heads
- ✓ Controls 1 cannon with fog/jet nozzle



PREMIUM-PLUS Module option shown

#### All Functions from a Single Touch Screen Interface

- ✓ Spray head, cannon & AUX control
- ✓ Water application rate and spot spray control
- ✓ Quad camera inputs
- ✓ On-board data logging
- ✓ System prestart function checks

#### Water Tank Fill Control



#### Expansion Options

- ✓ GPS-GEO fencing
- ✓ Wi-Fi & bluetooth connections
- ✓ Autonomous operation
- ✓ User familiarisation manuals and videos on screen

#### Advanced Diagnostic Data



12" PREMIUM-PLUS shown

#### Ground Speed Control



#### Spot Spray Control



#### Cannon Control



#### AUX Control



INFINITE POSSIBILITIES

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## Innovation is in our DNA.

One of the most respected engineers of his time with over 250 provisional patents and over 112 accepted as world wide patented inventions, Richard Joseph (Dick) Ifield's engineering heritage lives on through the direct family lineage to Ifield Products.

As an accomplished inventor, Dick's most famous invention, a fuel pump known as the Ifield Pump was to become standard equipment on jet aircraft from Whittle's first jet engine through to the Concorde. This invention alone earned Lucas Industries millions of pounds through their own sales and through the sale of manufacturing licenses.

Through Ifield products we continue Dick's legacy through constant unrelenting innovation as we work with our industry partners on developing engineering solutions.

Our vision is to provide a gateway for innovation to flow from inventor to manufacture and manufacture to global distribution. Our win-win attitude and belief in transparency ensures all relationships are built on trust.

Uncompromised integrity is the cornerstone of all policy and relationships. Only manufacturers and distributors that share this vision will join our network and value solutions will flow globally to end users.



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