

AUTOMATIC WASH DOWN SYSTEM



For more information and other products, please contact us.

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POWER SUPPLY AND CONTROL UNIT



POWER SUPPLY

The system is powered by a 240VAC/24VDC 20A power supply housed in a 316 stainless steel IP67 rated enclosure. The unit features a local isolation switch and a power indicator light to confirm successful isolation.

CONTROL UNIT

The control unit is housed in a 316 stainless steel IP67 rated enclosure and can support up to 6 brushless 24VDC wash down cannons and solenoid valves. Cannon oscillation limits and speeds are set via the touch screen inside the enclosure.



CONTROL UNIT INTEGRATION

The control unit can be integrated into mine control systems by connection to the dedicated digital inputs and outputs. Standard systems have six digital inputs that correspond to each wash down cannon. When the digital information is received, the cannon will begin to oscillate between the predetermined set points, and the associated solenoid valve will operate. The system has eight digital outputs, and each cannon has a “running” signal. This can be set up to notify control with a “obstructed alarm” if the signal is not received in (x) number of seconds once the cannon has been started. There are also digital outputs for “Emergency stop activated” and “power supply OK”.

BENEFITS OF INTEGRATED SYSTEM

- Operators can start/stop the system via communication with mine control.
- Timing can be changed by technicians remotely.
- On/Off timing of the system can be interlocked with other plant infrastructure.

*For example: conveyor must be auto-running, and sump pump must be auto ready for the wash down system to operate.

For wash down systems not integrated into the mine control system, a local control unit can be supplied with essential timer functions, and local start/stops. These units are supplied as per customers requirements.

CANNON UNIT

WASH DOWN CANNON

The cannons are powered by brushless 24VDC motors with built-in position feedback. The motors are housed in laser-welded 316 stainless steel IP67 rated enclosures. The position feedback allows the controller to set accurate oscillation limits and configure predetermined park positions. Various mounting and guarding options available.



WATER SUPPLY

The wash down cannons have 2" BSP inlets and 1" BSP outlet fitted with industrial wash down Fan/Jet nozzle. 24VDC solenoid valves control/isolate the water flow. Recommended operating pressures from 2-10 bar. Refer to the table below.



UNIFIRE V12 JET / SPRAY NOZZLE

	Jet	Jet	Fog 90°	Fog 90°
Pressure (Bar)	Flow (lit/min)	Reach (meter)	Flow (lit/min)	Reach (meter)
2	134	22	184	10
6	233	32	325	13
10	302	37	400	14

CABLING

2 x m12 connectors control each cannon. These industrial fittings comply with IP67 standards and can be a maximum length of 25meters between the control unit and wash down cannon.





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