



Innovation in and out of parlour

ATL Agricultural Technology Ltd

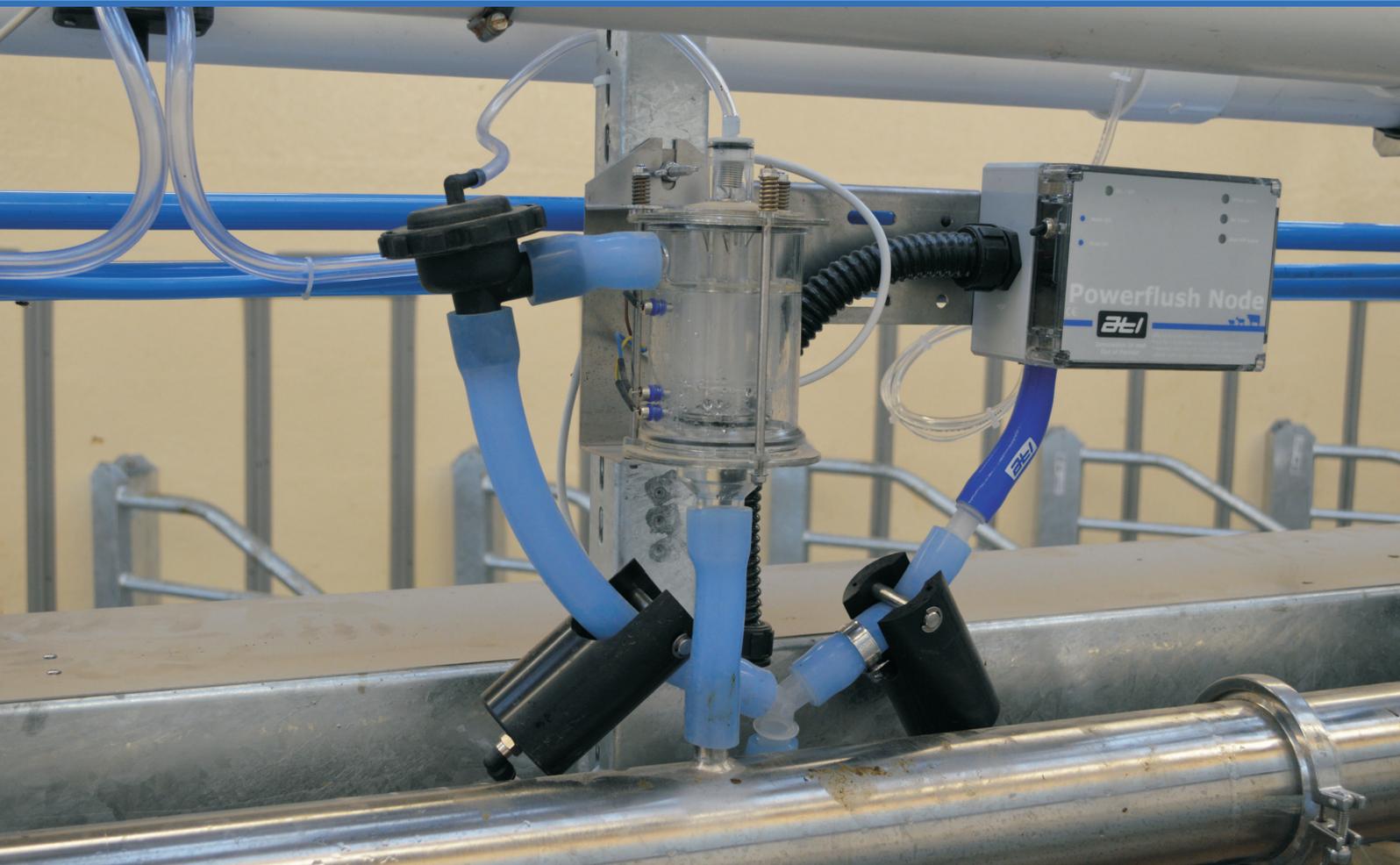
Units 1 & 2, Acorn Business Centre,
Oaks Drive, Newmarket, Suffolk, CB8
7SY, United Kingdom

T: 0044 (0)1638 731212

F: 0044 (0)1638 731174

E: info@atlagri.com

W: www.atlagri.com



Powerflush

An automatic backflush system



The ATL Powerflush backflush system reduces labour by automatically cleaning the cluster after each and every cow is milked.

The system flushes the liner, claw and long milk tube with a water / peracetic acid mix followed by compressed air after each cow is milked. This provides every cow with a clean cluster to keep cross contamination to a minimum.

Two compressed air safety valves, one on the long milk tube and one on the flushing tube, prevent the water / peracetic acid mix contaminating the milk during flushing and milking. They also allow a higher pressure compressed air to be used, providing a really effective flushing action.



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How Does It Work?

- The Powerflush is a backflush system that helps prevent cross contamination by automatically cleaning the long milk tube, claw and liners after each cow has been milked.
- The system is triggered when the cluster is removed by the ACR using either an electronic signal or a vacuum sensor.
- The compressed air safety valve on the long milk tube closes and the safety valve on the flush tube opens.
- A water / peracetic acid mix is then introduced into the long milk tube, followed by a blast of compressed air, providing a vigorous flushing action cleaning the long milk tube, claw and liners. This flushing cycle can be set to occur twice or three times.
- A final blast of compressed air removes the last of the water / peracetic acid mix and the cluster is ready to be attached to the next cow.
- It does not require a change to the liners and does not change operator routine or extend milking times as the process occurs automatically without any user intervention.

What's Different?

- The system includes two compressed air clamp valves, one on the long milk tube and one on the flushing tube, preventing the water / peracetic acid mix contaminating the milk during flushing and milking. They also allow a higher pressure compressed air to be used, providing a really effective flushing action.
- The system includes settings so the cluster can be lowered during and / or post flushing to minimise water spray and give better draining.
- The system is fully programmable via the LCD display allowing system setup and alterations to be made quickly.
- The electronic initiation version can be connected into the shut-off valve signal and therefore ignores manual ACR operations so the flush does not occur unnecessarily.
- The system includes frost purge to remove water from the pipework to prevent freezing issues in cold weather.
- The system includes a master control in the parlour that allows the system to be turned off during milk recording, to choose between 2 or 3 flushes and to flush all points.



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System Features

- The Powerflush system is suitable for use with most types of parlour and most manufacturers systems fitted with ACRs or milk meters.
- A manual system is also available for parlours without ACRs or milk meters.
- Vacuum initiation option means no wiring is required into the ACR control, removing any potential issues with ACR warranty.



Control Unit

- One control unit (node) installed at each point incorporating the electronics and compressed air and water solenoid valves.
- The system is triggered when the cluster is removed by the ACR using either electronic signal or vacuum sensor.
- The electronic signal version allows the clusters to be lowered during and post flushing to minimise water spray and give better draining of the cluster and long milk tube.



Clamp Valves

- One compressed air clamp valve completely shuts off the long milk tube during flushing and a second compressed air clamp valve completely shuts off the flushing tube during milking.
- Both clamp valves use vacuum to remove the clamp valve and fully open milk tube for milking and flushing.
- A stainless steel pin provides smooth surface for tubes to be clamped against.



Kit Includes

- Three stage coalescent compressed air filter to provide clean air for flushing.
- Dosatron for accurate water / peracetic acid mix.
- Y piece connects flushing tube into long milk tube.



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