

# AfiWash™

CIP Controller



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# AfiWash

## CIP Controller



**AfiWash** is a programmable device for controlling a washing and disinfection system in milking parlors - CIP. AfiWash is built to support most of the existing CIP systems and techniques, whether incorporating a wash sink or not.

AfiWash allows full control over cleaning regimes as well as of the design of each cleaning cycle. Four default wash programs may be modified to meet the cleaning requirements of the milking system. These wash programs may be sequenced to create a daily or weekly washing schedule.

AfiWash cleaning programs may be modified via communication from any PC or laptop, or directly from the controller panel.

# AfiWash Outputs & Inputs

AfiWash controls the devices and valves related to the CIP system.

## Water Valves

Hot and cold water valves to supply the correct amount of water for achieving the desired wash temperature at each stage of cleaning.

## Detergents & Acid Dispensers

Up to 3 chemical dispensers may be controlled to provide the required concentration of detergent or Acid in the wash solution.

## Three-Way Valve

For alternating between circulation and drainage.

## Air Injection

Air valve injects atmospheric air into the system creating an air slug pushing wash solution inside the pipes. This is done to achieve full inner pipe surface coverage by the wash solution.

## Receiver Vessel & Vacuum Pump

AfiWash controller operates and stops the vacuum pump per required sequence (Wash, Off, Milking).

## Milk Boost

For emptying the milk line outside the circulation loop (between the milk pump and bulk tank) into storage.

## Cleaning Indication

This output is used as an indication of the cleaning process. It may be used to activate a cleaning indicator lamp in the milking parlor or for automatic stoppage of the pre-cooling system during cleaning.

Two sensors are connected to the AfiWash controller.

## Milk Line Position

This is a safety input identifying milk line position. With milk line position input, wash is enabled ONLY if the milk lines are properly connected thus preventing discharge of cleaning water/solution into the bulk tank.

## Sink Water Level

Water float or other water level sensor may be connected for limiting the maximum water level in the sink.



## Setting up Cleaning Programs

AfiWash cleaning programs are built in steps. Each step consists of a block that refers to one of the designated outputs described above and a timer determining the time for operating the output (i.e. the device connected to it). When setting up a cleaning program, the operation time for each block is set first then the steps are sequenced for a complete cleaning program. Once the different cleaning programs have been created, a schedule for a daily or weekly cleaning agenda may be built. Such a schedule, allows AfiWash to automatically select the correct cleaning program for each session.

## Benefits

The main advantage of AfiWash is in its modularity and flexibility in controlling the cleaning programs. It is compatible with most of the common CIP systems and regimes available in the market, providing comprehensive control over every step of the cleaning process. Its capability to be connected to a PC provides easy programming and easy troubleshooting of the cleaning.

AfiWash is design to protect the system from errors. It starts the washing cycle only if the piping is properly connected, stops washing when there is not enough water and provides a series of cleaning process fault alerts.



**This makes AfiWash the ultimate solution for controlling the cleaning process in any type of milking parlor.**

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