

CONTROL PANELS



MUELLER
THE MILK COOLING SYSTEMS SPECIALISTS™

Mueller® Control Panels

Manage Your Milk Cooling System With Ease!

Paul Mueller Company control panels help to ensure the quality of your milk by managing the essential blending, cooling, and cleaning functions of your cooler with a range of features that allow you to select the level of control that is right for your dairy.

Mueller® Sentry® III is the industry's most advanced control system. It can be programmed for any milking schedule with exact cycle lengths for cooling, precooling, agitation, and cleaning. Flashing indicator lamps show the current refrigeration or washing cycle and a digital readout allows easy temperature monitoring.

Mueller HiPerForm® III is designed to retrofit almost any refrigeration and cleaning control on the market with its ability to utilize a multitude of control voltages through dry switch closure outputs and wash and cooling cycle programmability. HiPerForm III works with robotic milking machines for remote start of cooling and wash functions.

Our standard water works box (WWB) is designed and manufactured to provide adequate capacity chemical jars and to operate with varying water fill rates.

HiPerForm® III Features and Benefits

- Quality assured. Complies with CSA regulations.
- Programmable logic controls (PLC) to customize cooling, agitation, and washing functions to fit your milk cooling schedule. Change cycles at the push of a button.
- LED indicators to easily monitor cooling, precooling, agitation, and cleaning functions; reduces the chance of losing milk due to unsafe temperatures.
- Programmable for auto-dosing, water works, and Mueller Matic® for accurate dispensing of detergent, acid, and sanitizer.
- Reliable industrial design and industrial-grade components withstand the rigors of dairy use.
- Selection of variable agitation cycles to fit your schedule and cooler size.
- Wash, sanitize, and acid options allow you to choose the functions needed.
- Choice of rinse and acid temperatures to customize cycles to fit your needs (electric drain only).
- Time-delayed refrigeration cycles for better control and energy efficiency during first milking.
- Precool and pre-agitate cycles allow you to precool or pre-agitate milk in tank for faster, more efficient cooling during 2nd, 3rd, or 4th milkings; creates lower blend temperatures.
- Watertight cabinet (NEMA 4X) for increased safety and reliability during washdowns.
- Remote start cooling or wash controls from robotic milking machine. Includes complete wash signal.
- Low-voltage or dry switch controls. 24 VAC control circuits for safe operation, or dry switch closure to retrofit existing high voltage controls.
- Retrofittable/programmable for water-operated drain valves or normally open/closed electric drain valves.



Sentry® III Features and Benefits

- Quality assured. Complies with CSA regulations for the United States and Canada.
- Programmable logic controls (PLC) to customize cooling, agitation, and washing functions to fit your milk cooling schedule. Change cycles at the push of a button.
- Flashing indicator and temperature alarm lamps for easy monitoring of cooling, precooling, agitation, and cleaning; lowers the risk of losing milk due to unsafe temperatures.
- Auto-dosing for chemicals (tank-mounted option) saves time and improves measurement accuracy.
- Digital time controls for accurate dispensing of all chemicals including detergent, acid, and sanitizer.
- Reliable industrial design and industrial-grade components withstand the rigors of dairy use.
- Time-delayed refrigeration cycles for better control and energy efficiency during first milking.
- Choice of rinse and acid temperatures to customize cycles to fit your needs.
- Precool and pre-agitate cycles. Precool or pre-agitate milk in tank for faster, more efficient cooling during 2nd, 3rd, or 4th milkings; creates lower blend temperatures.
- Selection of variable agitation cycles to fit your schedule and cooler size.

Additional Features of the Front-Mount Sentry III

- Auto dosing of chemicals dispensed on suction side of pump. Air gap eliminates chance of city or well water contamination.
- Chemical pumps work against atmospheric pressure, eliminating risks associated with chemical dispensing in high-pressure side.
- Prewired controls and pump installed. Reduces installation costs.
- All exposed components are wash-down duty with a stainless steel shroud to further protect electrical enclosure.
- All programming is performed from the front panel.



- Wash, sanitize, and acid options allow you to choose the functions needed.
- Watertight cabinet (NEMA 4X) for increased safety and reliability during washdowns.
- Manual override switch can bypass electrical controls in an emergency situation.
- Low-voltage 24 VAC control circuits for safe operation.
- Retrofittable and programmable for water-operated drain valves or normally open/closed electric drain valves.



**Visit dfe.paulmueller.com to
see all of our *COOL* products!**

MUELLER

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