

CONTROL PANELS



MUELLER

THE MILK COOLING SYSTEMS SPECIALISTS™

Mueller® Control Panels

Manage Your Milk Cooling System With Ease!

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

When we began developing the HiPerForm® III we designed a control panel that would best communicate remote start cooling and wash functions for both robotic milking systems and traditional milking systems. We also designed a programmable control unit that would retrofit almost any refrigeration and cleaning unit on the market with the ability to utilize a multitude of control voltages.

We also addressed the growing presence of robotic milking systems with our robotic interface control. This was developed as a one-stop control box for the milk hauler. The milk hauler now has the ability to start his pickup procedure with the press of a button allowing the control panel to take care of the rest.

HiPerForm® III Features and Benefits

- Quality assured. Complies with CSA regulations.
- Programmable logic controls (PLC) to customize cooling, agitation, and cleaning functions; reduces the chance of losing milk due to unsafe temperatures.
- 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.
- Resumes last known state of operation in both cooling and wash modes.
- 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 second, third, and fourth milkings; creates lower blend temperatures.
- Watertight cabinet (NEMA 4X) for increased safety and reliability during washdowns.
- 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.
- Two cooling stages with independently programmable setpoints.

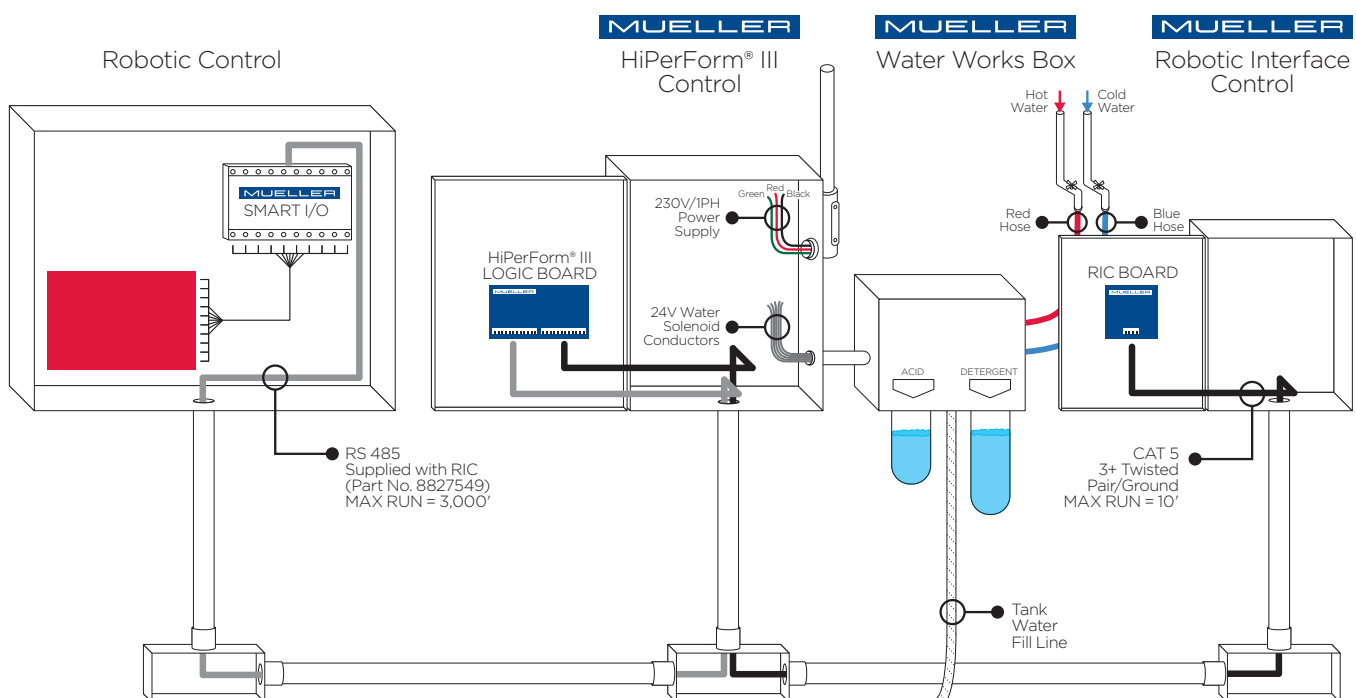


Robotic Interface Control Features and Benefits

- Simple point of contact for pickup procedures.
- Smart I/O board simplifies interface between cooling and wash controls and the robotic milking system.
- Smart I/O board contains 8 outputs with both normally open and normally closed relays.
- Pre-programmed high temperature alarm output notifies robot of high product temperature.
- Intuitive control overlay ensures ease of use.
- LED indicators display the current control operation.
- Industrial grade high-speed microprocessor allows fast communication between the robotic milking system and the cooling and wash control.
- Utilizes robust RS485 communication.
- Plug and play installation enables the hardware to take control of the rest.



Typical Robotic Interface Control Layout



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see all of our **COOL** products!**



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