

# 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.

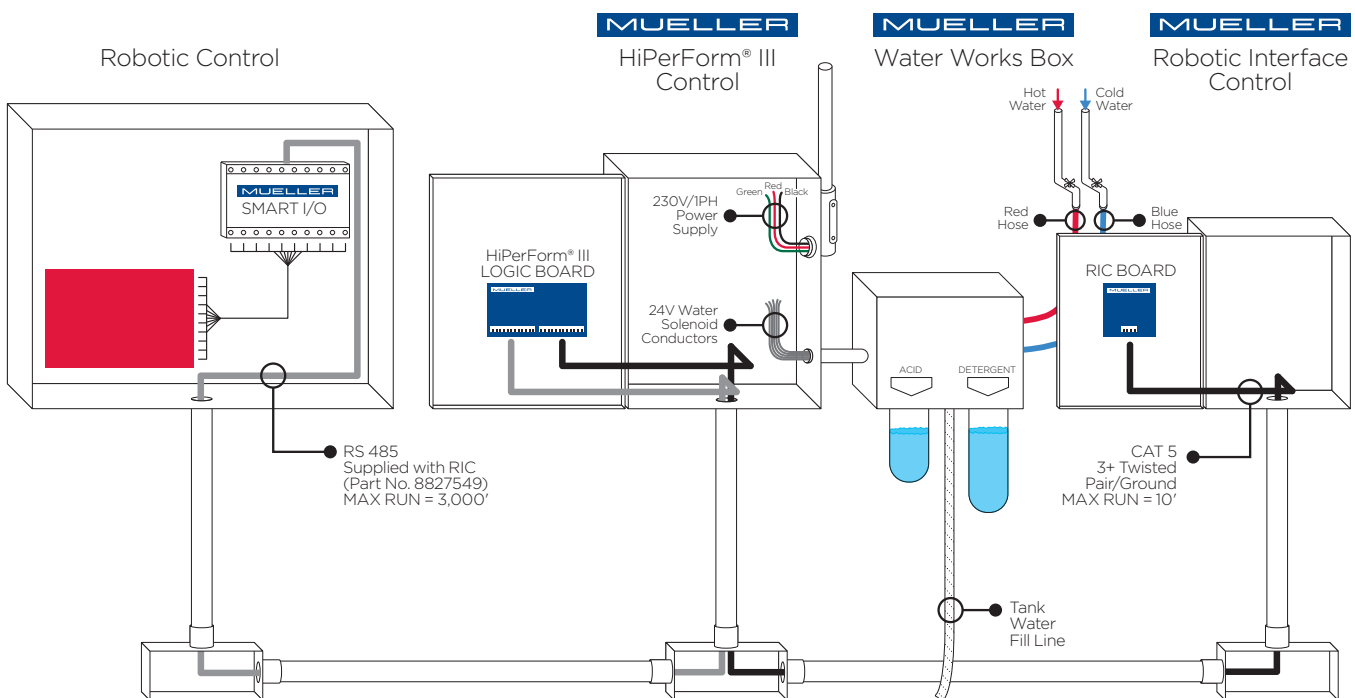


# Robotic Interface Control Features and Benefits

- 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!

**MUELLER**

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