



Mega Wash

Automatic Pipeline Wash Control



Installation, Operation & Maintenance Manual

Table of Contents

1. IMPORTANT SAFETY INFORMATION.....	3
2. SYSTEM OVERVIEW	4
2.1 Features	4
2.2 Inside the Controller	5
2.3 Inputs and Outputs	6
2.4 I/O PCB Overview.....	6
3. INSTALLATION.....	7
3.1 Mounting	7
3.2 Wiring	7
3.3 Temperature Sensors	8
3.3.1 Wash Probe	8
3.3.2 Milk Probe	8
3.4 Fill Switch and Safety Switch.....	8
4. SYSTEM OPERATION AND PROGRAM LAYOUT.....	9
4.0 Password.....	9
4.1 Home Screen	9
4.2 Input/Output Viewing.....	9
4.3 Menu Screen.....	10
4.4 Wash Settings	11
4.5 Pre-Milk Sanitize	12
4.6 Temperature probe Settings	12
4.7 Cycle Wash.....	13
4.8 Temperature Recording	13
4.9 Device Settings.....	13
4.10 View and Record Settings	14
4.11 Wash Cycle Run and Rapid Advancement.....	15
5. ALARMS.....	16
5.1 Alarms Messages and Troubleshooting	17
6. HARD COPY OF WASH SETUP SETTINGS	18
6.1 Hard Copy of Global Settings	19
7. SPARE PARTS LIST	19
8. TECHNICAL SUPPORT	19

1. IMPORTANT SAFETY INFORMATION

Please read and understand this manual in its entirety before operating or servicing the **Mega Wash**. Failure to follow these instructions may result in equipment damage, electrical shock, serious injury, or death.

Electrical Safety Warning

- **Voltage Hazard:** This equipment operates at **120-240 Volts AC**. Use caution when handling or installing this unit.
- **Disconnect Power:** Do not connect or disconnect wiring while power is applied. Always turn off and fully disconnect all power sources before servicing, wiring, or modifying the equipment.
- **Qualified Staff Only:** Only qualified personnel should perform installation, servicing, or maintenance of this product.

User Responsibility & Compliance

- **Local Codes:** It is the responsibility of the user to ensure that the **Mega Wash** is installed and operated in accordance with all local, regional, and national electrical codes and safety standards.
- **Intended Use:** The manufacturer cannot be held liable for incidental or consequential damages resulting from improper installation, misuse, or a failure to maintain the equipment.

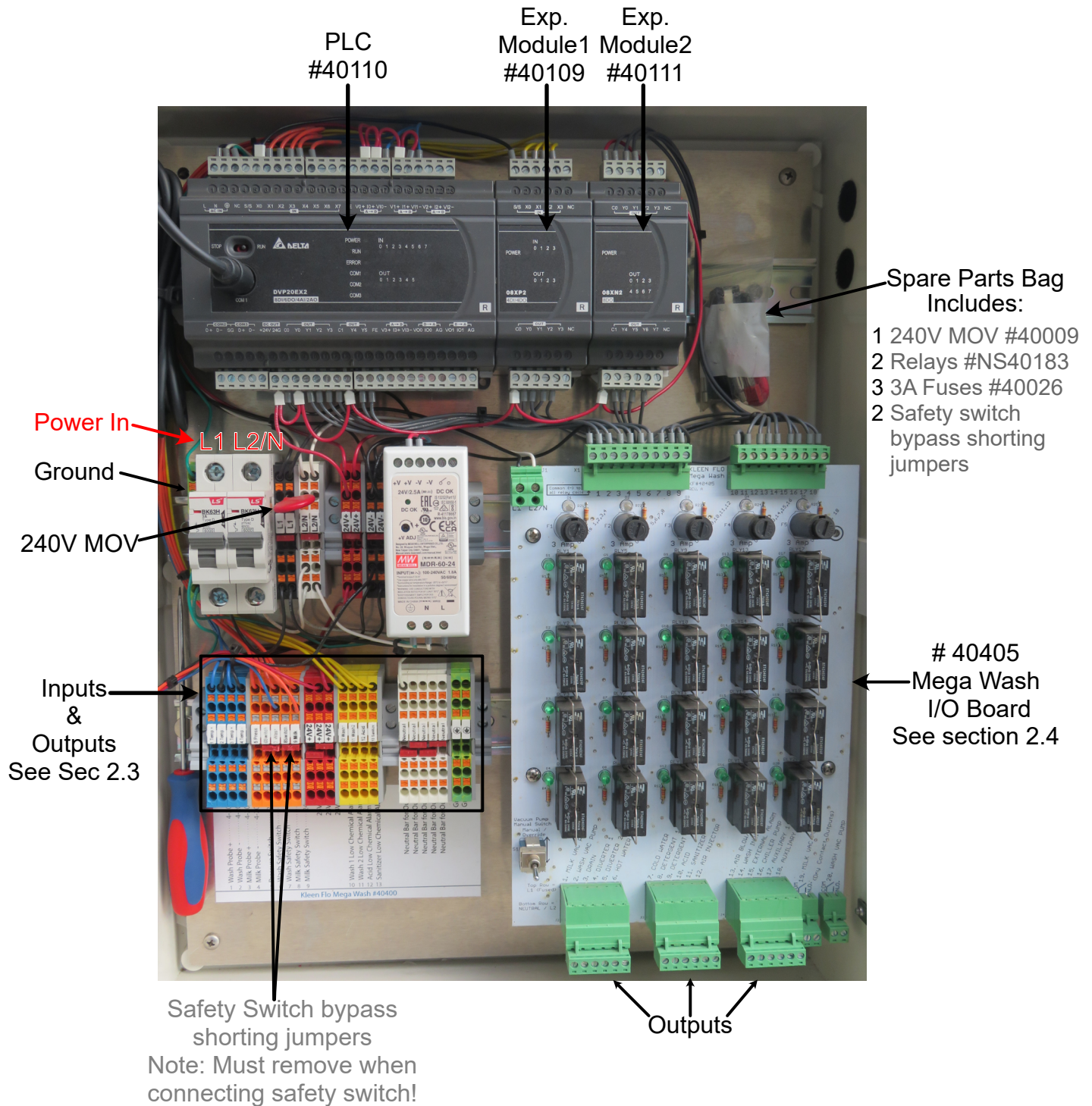
2 System Overview

The Mega Wash pipeline washer is designed to fit into most existing milking setups, whether on a mega dairy or on a small farm. Every milking system is different, and with 20 outputs that can be wired for any voltage preferred (under 300 volts) and programmable to the second, the wash can be easily setup to match the water, temperature, and chemical demands of each system. Programming is quick and easy with an intuitive layout on a 10 inch touch screen.

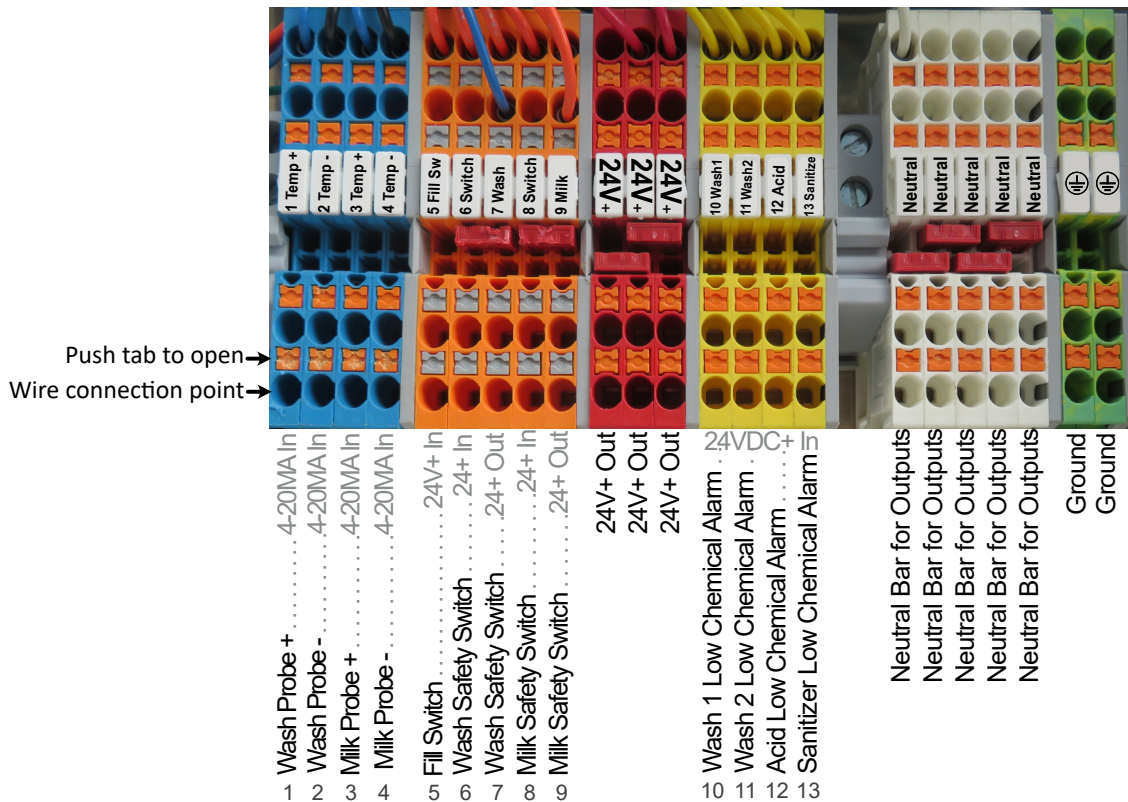
2.1 Features

- **Simplified programming** and a **10" touch screen** for ease of setup and use.
- **20 programmable outputs.**
- **Two-week rolling history storage** for milk and wash temperatures.
- **120-240 VAC input** compatibility.
- **Output voltage** can be modified for any configuration up to 300 V.
- **Dedicated chiller output** for better cooling control.
- **Pre-cooling option** to start the chiller prior to milking.
- **Manual override switch** for the milk vacuum pump.
- **Service-friendly design** featuring removable terminal plugs on the main circuit board.
- **Full cycle customization** configurable down to the second.
- **Wash probe compatibility** for precise temperature control of wash water.
- **Three independent wash setups** with up to 7 cycles per setup.
- **Automated wash cycling** to rotate through selected wash setups sequentially.
- **Pre-milking sanitize** programmable for specific times of day.

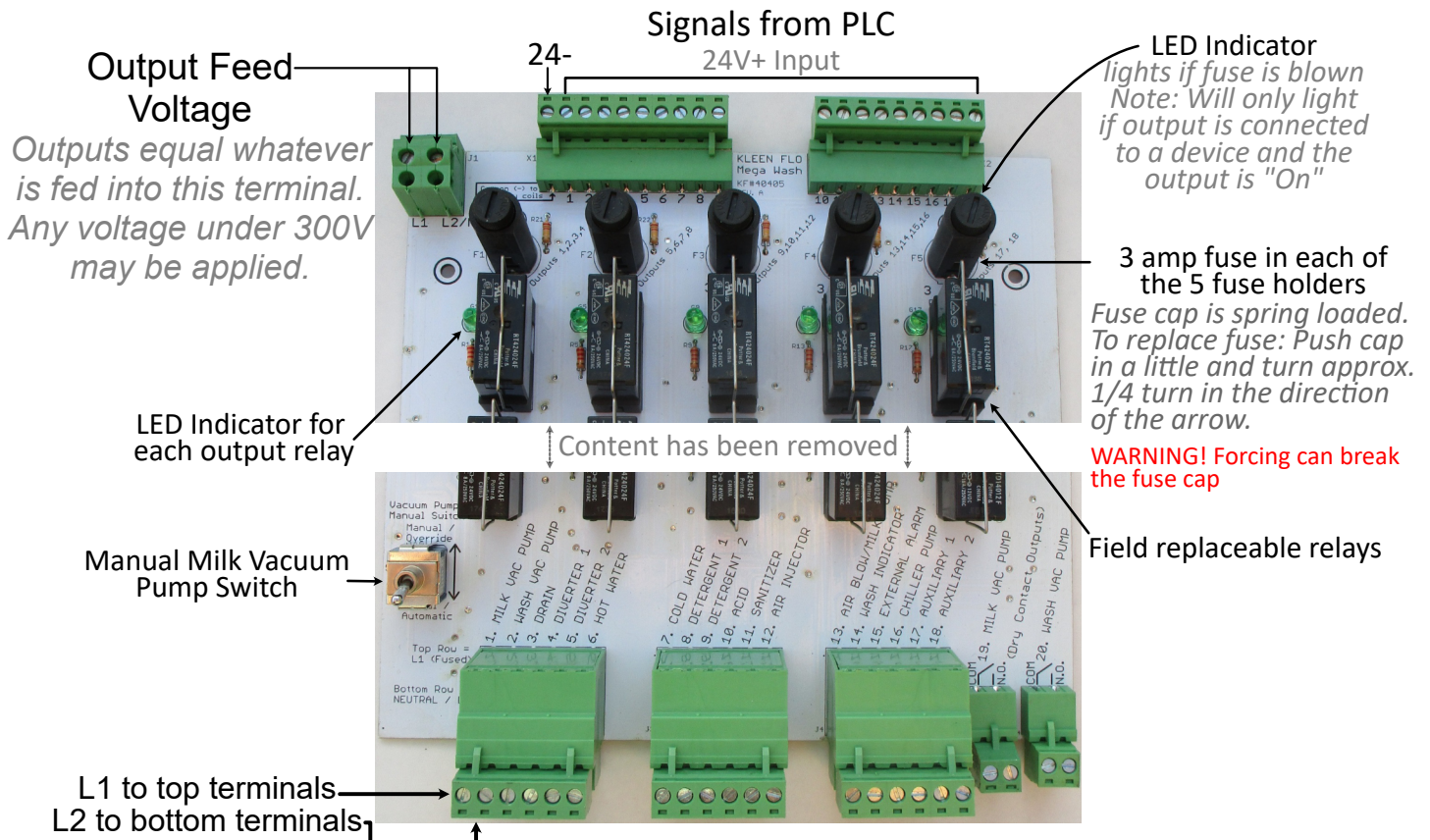
2.2 Inside the Controller



2.3 Inputs & Outputs



2.4 I/O PCB Overview



3 Installation

3.1 Mounting

Determine a mounting location for the Mega Wash Controller. Avoid mounting it above the wash vat. Avoid water spray onto the controller. Mount the controller onto a flat surface via the 4 mounting tabs.

For an ideal installation, electrical conduit should be routed into the bottom of the controller enclosure. While the side is a secondary option if space is limited, conduit should never be brought into the top of the controller to ensure the enclosure remains properly sealed against moisture and debris.

⚠ IMPORTANT: Ensure all wiring complies with local, regional, and national electrical codes. Prioritize safety standards before applying power.

3.2 Wiring

Connect 120 or 240VAC to the top of the circuit breakers and ground to the green terminal block. Connect the inputs and outputs to the standards listed above.

For 120VAC applications: Connect L1 to the top row of terminals (fused) on the lower side of the PCB and neutral to the "white neutral bar for outputs" beside the PCB.

For 240V applications: Connect L1 to the top row of terminals (fused) on the lower side of the PCB and L2 to the bottom row of terminals. (*White neutral bar is only for 120V applications.*)

By default, input voltage equals output voltage. If a different output voltage is desired, connect the desired voltage (under 300V, AC or DC) to the "output feed" terminal on the top left corner of the PCB. See section 2.4.

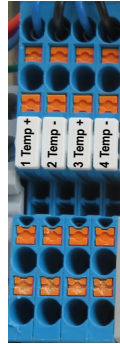
3.3 Temperature Sensors

3.3.1 Wash Probe

The Wash temperature probe (#40161) has 4 ft. of wire that connects to a 4-20Ma transmitter in the waterproof enclosure. The transmitter converts the probe signal to a 4-20Ma signal.

Connect the 4-20Ma signal wire for "Wash":

- + White wire from transmitter to #1 Temp+
- Black wire from transmitter to #2 Temp -



Wash Temp Sensor Assembly #40106-1



3.3.2 Milk Probe

The Milk temperature probe (#40161) has 4 ft. of wire that connects to 4-20Ma transmitter in the waterproof enclosure. The transmitter converts the probe signal to a 4-20Ma signal. Connect the 4-20Ma signal wire for "Wash":

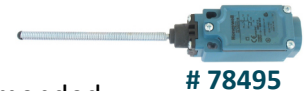
- + White wire from transmitter to #3 Temp+
- Black wire from transmitter to #4 Temp -

Milk Temp Sensor Assembly #40106

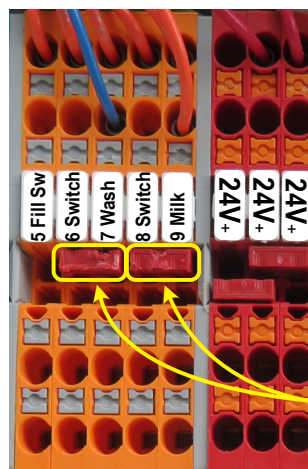


3.4 Fill Switch and Safety Switch Connections

A DPDT switch like the Honeywell Limit switch, or something similar, is recommended.



Connect fill switch wires to 24V+ and #5 (Fill Switch).



Connect wires from the two contacts that are shorted when the switch is in "Wash" position to #6 (Switch) and #7 (Wash).

Connect wires from the two contacts that are shorted when the switch is in "Milk" position to #8 (Switch) and #9 (Milk).

IMPORTANT!
Red fill switch bypass jumpers must be removed or the safety switch has no function.
"Grasp firmly with a needle nose and pull straight out"

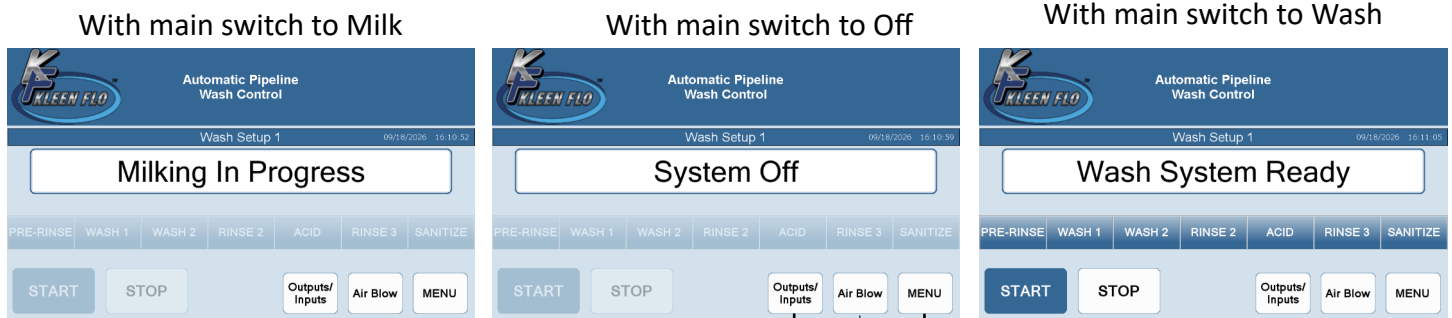
Note: Save jumpers in case bypass is ever needed.

4 System Operation and Program Layout

Double check all connections and ensure wiring is correct, then power the controller.

4.0 Password To prevent unauthorized changes, a password needs to be entered before making changes. The password is 111.

4.1 Home Screen



See section 4.3

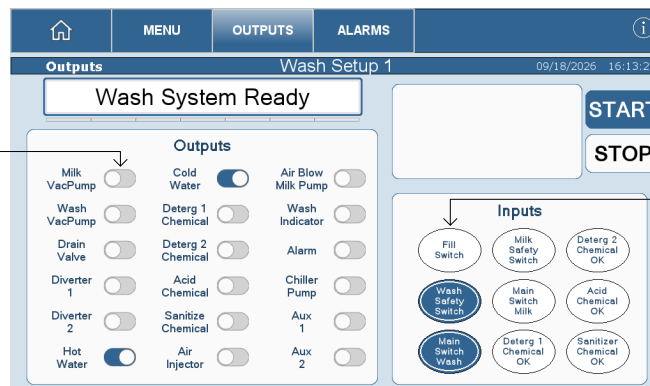


Manual air blow push button
(Run time can be adjusted in device settings)

4.2 Input/Output Viewing

Touch any of the output buttons to turn on the corresponding output for 30 seconds, or touch again to turn off.

Note: The 4 chemical and the 2 aux. outputs do not have a 30 second timer. Output will run as long as it is touched.



Inputs that are receiving a signal are blue, no color equals no active input.

Note: Fill switch can be touched to activate the fill switch input. (For testing and troubleshooting.)

4.3 Menu Screen

Pre-Milk Sanitize

Pre-Milk Sanitize ☒

Pre-Milk Sanitize 1 ☒ Time of Day 11 : 34

Pre-Milk Sanitize 2 ☐ 8 : 00

Pre-Milk Sanitize 3 ☐ 16 : 00

See 4.5

Wash Settings 09/18/2026 16:43:24

Load/Edit Wash Setup

Wash Setup 1 View Settings Restore to Factory Settings

Wash Setup 2

Wash Setup 3

Default Wash Setup

See 4.4

Alarms 09/18/2026 17:11:41

CURRENT ACTIVE ALARM

Trigger Message

PRESS TO CONTINUE PRESIONE PARA CONTINUAR

ALARM HISTORY

Trigger	Message	Time	Recovery
16:55:30 09/18/2026	Low Chemical - Wash 2 Chemical	16:55:30 09/18/2026	
16:55:59 09/18/2026	Check Milk Line - Not in Milk Position	16:56:05 09/18/2026	
16:56:09 09/18/2026	Check Milk Line - Not in Wash Position	16:56:12 09/18/2026	
16:56:37 09/18/2026	Low Chemical - Wash 1 Detergent	16:56:40 09/18/2026	
16:56:49 09/18/2026	Low Chemical - Wash 2 Detergent	16:56:52 09/18/2026	
16:57:02 09/18/2026	Low Chemical - Add	16:57:05 09/18/2026	
16:57:14 09/18/2026	Low Chemical - Sanitizer	16:57:20 09/18/2026	
16:59:59 09/18/2026	Wash Temperature Too Low	17:00:09 09/18/2026	
17:01:41 09/18/2026	Milk Temp Sensor Failure	17:02:09 09/18/2026	
17:03:39 09/18/2026	Milk Temperature Too High	17:03:42 09/18/2026	
17:04:13 09/18/2026	Wash Temp Sensor Failure	17:04:29 09/18/2026	
17:10:34 09/18/2026	Over Fill of Wash Tank	17:10:41 09/18/2026	

See 5

Cycle Wash

Cycle Wash ☐ Reset Counters

Wash Setup	Preset	Completed	Remaining
Wash Setup 1	1	0	1
Wash Setup 2	1	0	1
Wash Setup 3	1	0	1

See 4.7

Menu 02/24/2026 12:01:58

Wash Settings

Pre-Milk Sanitize ☐

Cycle Wash ☐

Temperature History

Temperature Probes

Device Settings

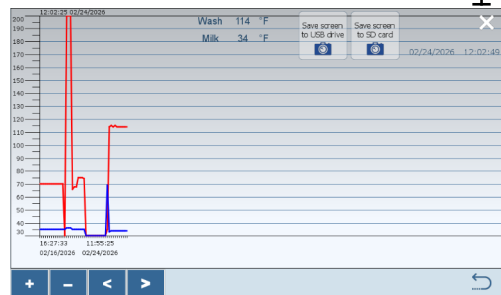
Wash Setup Selection

- ☒ Wash Setup 1
- ☐ Wash Setup 2
- ☐ Wash Setup 3

Set Date/Time Set User Manual

Back

System Info



See 4.8

Temperature Probes

Wash 5474 °F Milk 5474 °F

Wash Probe ☐ Milk Probe ☐

Wash Temp Offset 0 °F Milk Temp Offset 0 °F

Water Valve On Delay 6 Milk Temp High Alarm 80 °F

Water Valve Off Delay 6 Milk Temp Alarm Delay 1200

Temp Deadband 10 °F

Low Temp Alarm Delay 30

Advanced Temperature Probe Calibration

Wash Temp Max Scale 250 Milk Temp Max Scale 250

Wash Temp Min Scale 0 Milk Temp Min Scale 0

*All times in seconds

See 4.6

Device Settings

Air Injector On 5 s

Air Injector Off 5 s

Auxiliary 1 On 0 s

Auxiliary 1 Off 0 s

Air Blow Duration 5 s

Overflow Alarm time 300 s

Wash Delay 0 m

Chiller Pump Delay 0 m

Chiller After Wash ☐

Normally Closed

Drain ☐

Diverter 1 ☐

Diverter 2 ☐

Aux 1 ☐

Aux 2 ☐

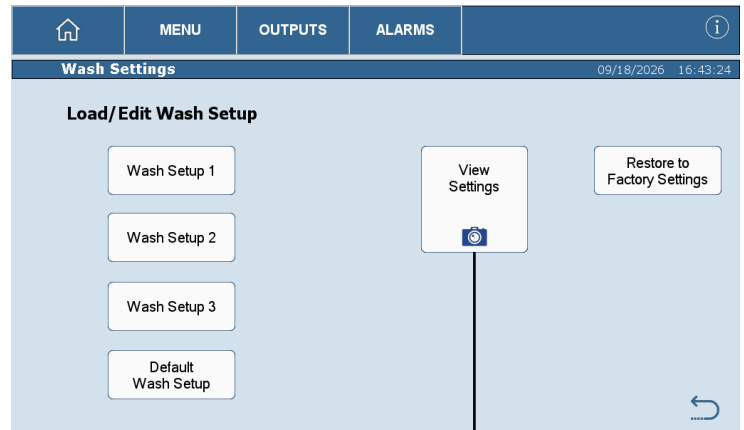
Fill Switch ☐

Vacuum Pump Mode Dual ☒ Single ☐

See 4.9

4.4 Wash Settings

Touch any of the Wash Setups to start modifying the wash settings for that setup. From new, all 3 Wash Setups have the factory default wash setup entered.



See Section 4.10

On the top of the screen touch the cycle preferred to modify.

DETERGENT WASH 1 Editing Wash Setup 1 02/24/2026 12:00:43

Filling

Wash 1 Chem	60	Delay	0
Acid	Disabled	Delay	Disabled
Sanitize	0	Delay	0
Auxiliary 1	0	Delay	0

Circulating

Auxiliary 1 Run	0	Delay	0
Auxiliary 2 Run	0	Delay	0
Air Injector Run	540		
Add Wash 1 Chemical	0	Delay	0
Add Sanitize	0	Delay	0
Add Cold Water	0		
Add Hot Water	0		
End of Cycle	5		

*All times in seconds

Right Panel:

- Detergent Wash 1 Cycle: ☒ (Cycle enabled or disabled)
- Auxiliary 1 During Fill: ☐
- Cold Water: ☐ (Water Valves Off or On)
- Hot Water: ☒ (Water Valves Off or On)
- Fill Temp: 25°F (Set Fill Temperature & Low Temp alarm)
- Low Temp Alarm: 0°F (Wash probe must be turned "On" in "Temperature Probe" settings)
- SAVE WASH SETUP

Annotations:

- Air Injector cycle times set in 'Device Settings'
- "Back" Does not save

Choose which setup to save the edited settings

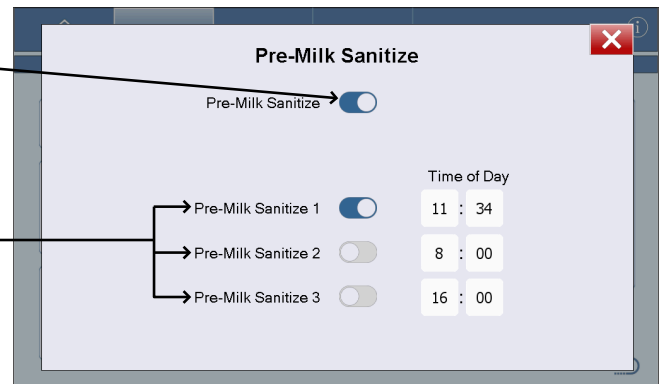


4.5 Premilk Sanitize

Pre-Milk Sanitize On/Off

Anytime pre-milk sanitize is turned on:

After a wash cycle the controller will display "Waiting to Pre-Milk Sanitize" until any of the 3 different times that are turned 'On' correspond.



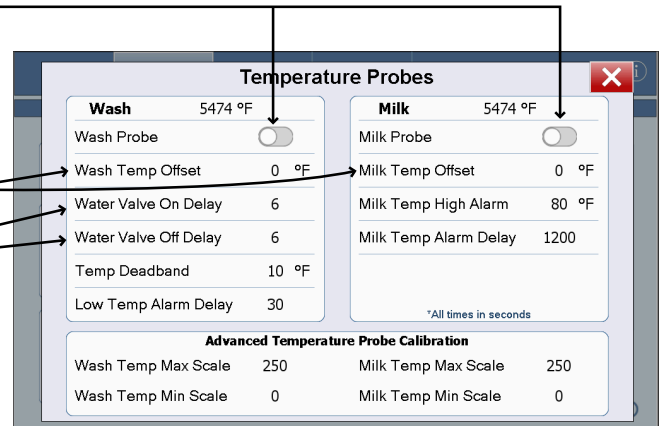
4.6 Temperature Probes Settings

Probes On/Off

Turn off if probe/s not used or if temporary bypass is needed due to probe failure.

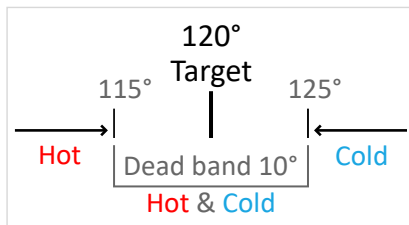
Calibrate after probe/s are installed & adjust if necessary

Delay water valve on/off to prevent chattering



Temp Deadband is the "target zone" around the target temperature where both the hot and cold-water valves stay open to fill the vat simultaneously. The target temp is the center of the deadband.

Example: Target Temp is 120°, deadband is 10:



Advanced Temperature Probe Calibration should not be adjusted unless the 4-20Ma transmitter in the **Temp Sensor Assembly** has been reprogrammed. Default program on the transmitter matches settings shown.

Min/Max of the transmitter and Min/Max shown here need to match for best accuracy.

Low Temp Alarm Delay begins when the cycle starts filling.

Milk Temp Alarm Delay begins when switched to Milk position.

4.7 Cycle Wash

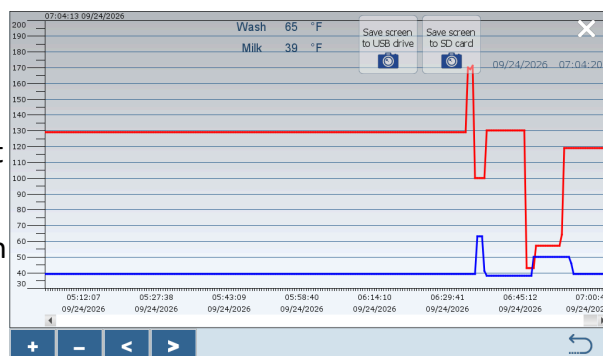
Cycle wash is used to cycle through the 3 Wash Setups if a different wash configuration is preferred occasionally or for switching multiple times in a day. When toggled 'ON' and all completed are showing 0, the preset entered into Wash Setup 1 will count down first, when finished it will go to setup 2, and so on... The sequence will restart once all three are completed.



4.8 Temperature recording

Stores the last 2 weeks of Milk and Wash Temperature.

Red=Wash, Blue = Milk Plus and minus can be used to zoom out or in to an exact time. Left and right arrows can be used to jump to the next set of time stamps. The slider toward the bottom can be used to quickly review the history. Temperature probes must be connected and turned On for recording to function.



Temps shown here are a sample, not actual on farm recording

4.9 Device Settings

Air injector On & Off: On/Off cycle that continues for the duration of time that the air injector run time in Wash Setup is set. Set On & Off to 0 if a constant signal is preferred.

Aux 1 On & Off: functions the same as air injector On/Off, can be used if a 2nd air injector is preferred.

Air Blow Duration: manual air blow time. (Activated from the home screen).

Overfill Alarm Time: Max fill time. If it times out before the safety switch is triggered, the wash cycle will abort.

Wash Delay: Delays the wash from when start is touched. Note: Timer is in minutes.

Chiller Pump Delay: Delays when the chiller pump output turns on after a wash. It starts counting down when the last cycle is completed. If using pre-milk sanitize, timer will not start until sanitize is completed.

Note: Timer is in minutes, and can be set for up to 12 hours.

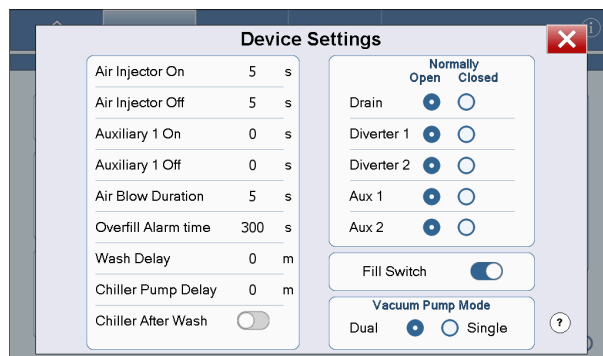
Chiller After Wash: determines whether the chiller output stays off or turns on after the wash. Chiller output is always on when in Milking mode.

Normally Open or Closed: Options for setting 5 of the outputs to NO or NC. Will revert to unpowered state when all cycles are completed. End of cycle time can be adjusted if longer drain/dry time is preferred.

Fill Switch: Toggle on if using a fill switch. When toggled off, the fill cycle will be skipped and water fill & chemical fill needs to be set via the add water and add chemical timer. Vacuum pump run time can be delayed.

Vacuum Pump Mode: Dual = milk and wash vacuum pump outputs activate independently. (For 2 pumps)

Single= Both vacuum pump outputs always activate with each other (If the system only has one vacuum pump)



4.10 View & Record Settings

Touch view settings and choose either of the 3 wash setups or "global settings" (to view the corresponding settings. All of the parameters for a "Wash Setup" or Global Settings (applies to all wash setups) will display on one screen.

Wash Settings 09/18/2026 16:43:24

Load/Edit Wash Setup

Wash Setup 1
Wash Setup 2
Wash Setup 3
Default Wash Setup

View Settings
Restore to Factory Settings

View Settings 09/24/2026 11:05:07

Wash Setup 1 List
Wash Setup 2 List
Wash Setup 3 List
Default Wash Setup List
Global Settings List

Wash Setup 1 Settings

Pre-Rinse Cycle: ON
Aux 1 Dur Fill: OFF
Cold Water: ON
Hot Water: ON
Fill Temp: 125
LoTemp Alarm: 100

Det Wash 1
Wash 1 Cycle: ON
Aux 1 Dur Fill: OFF
Cold Water: OFF
Hot Water: ON
Fill Temp: 125
LoTemp Alarm: 100

Det Wash 2
Wash 2 Cycle: ON
Aux 1 Dur Fill: OFF
Cold Water: OFF
Hot Water: ON
Fill Temp: 125
LoTemp Alarm: 100

Rinse 2
Rinse 2 Cycle: ON
Aux 1 Dur Fill: OFF
Cold Water: ON
Hot Water: ON
Fill Temp: 125
LoTemp Alarm: 100

Acid
Acid Cycle: ON
Aux 1 Dur Fill: OFF
Cold Water: ON
Hot Water: ON
Fill Temp: 125
LoTemp Alarm: 100

Rinse 3
Rinse 3 Cycle: ON
Aux 1 Dur Fill: OFF
Cold Water: ON
Hot Water: ON
Fill Temp: 25
LoTemp Alarm: 100

Sanitize
Sanitize Cycle: ON
Aux 1 Dur Fill: OFF
Cold Water: ON
Hot Water: ON
Fill Temp: 125
LoTemp Alarm: 100

*All times in seconds

Edit Wash Setup 1

Global Settings

Pre-Milk Sanitize
Enable Pre-Milk Sanitize: ON
Pre-Milk Sanitize 1: ON 11:34
Pre-Milk Sanitize 2: OFF 8:00
Pre-Milk Sanitize 3: OFF 16:00

Cycle Wash
Cycle Wash: OFF
Formula 1 Preset: 5
Formula 2 Preset: 1
Formula 3 Preset: 0

Temperature Probe Settings
Wash Probe: OFF
Wash Temp Offset: 0
Water Valve On Delay: 6
Water Valve Off Delay: 6
Temp Deadband: 10
Low Temp Alarm Delay: 30
Milk Probe: OFF
Milk Temp Offset: 0
Milk Temp High Alarm: 80
Milk Temp Alarm Delay: 20
Wash Temp Max Scale: 250
Wash Temp Min Scale: 0
MilkTemp Max Scale: 250
MilkTemp Min Scale: 0

*All times in seconds

EDIT IN MENU

Displays all the Wash Settings for the selected setup

Insert a USB or an SD card into the bottom right corner on the back of the Touch Screen and touch to save to USB or SD for convenient storage of the Wash Settings



SD Card

USB

Displays all the settings that are separate from the Wash Setup list

4.11 Wash Cycle Run and Rapid Advancement

Before starting, the Wash cycles that are toggled off are faded out. If wanting to manually skip any cycles for just the upcoming wash, touch any of the other cycles to fade them out to manually skip them. When manually skipping, those cycles will be back to normal in the next wash.

If the Wash and Milk probes are toggled on and connected, the temperatures are displayed in the top right corner. Just below the temperatures is the time remaining for that cycle, or when filling, the amount of time it has been filling.

When filling, touch the "Fill Switch" button in the 'Inputs' section to replicate the fill switch and advance the cycle.

Whenever the system is running a cycle, (after the fill switch is activated), touch and hold the progress bar to skip through the cycle. After holding for 5 seconds, it will advance in jumps 30 seconds at a time as long the button is touched.



5 Alarms

If an alarm triggers, this screen is displayed:

The screenshot shows the 'Alarms' screen with a top navigation bar containing Home, MENU, OUTPUTS, ALARM ACTIVE, and RESET ALARM. The main section is titled 'CURRENT ACTIVE ALARM' and shows a trigger of 'Wash Temperature Too Low' at 11:13:58 on 09/24/2026. Below this is a table for 'ALARM HISTORY' with columns for Trigger, Message, and Recovery. The most recent alarm at the bottom of the list is 'Wash Temperature Too Low' at 11:13:58 on 09/24/2026.

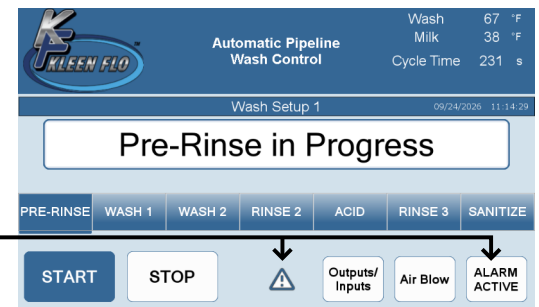
Trigger	Message	Recovery
11:13:58 09/24/2026	Wash Temperature Too Low	
16:56:37 09/18/2026	Low Chemical- Wash 1 Detergent	16:56:40 09/18/2026
16:56:49 09/18/2026	Low Chemical- Wash 2 Detergent	16:56:52 09/18/2026
16:57:02 09/18/2026	Low Chemical- Acid	16:57:05 09/18/2026
16:57:14 09/18/2026	Low Chemical- Sanitizer	16:57:23 09/18/2026
16:59:58 09/18/2026	Wash Temperature Too Low	17:00:08 09/18/2026
17:01:41 09/18/2026	Milk Temp Sensor Failure	17:02:03 09/18/2026
17:03:36 09/18/2026	Milk Temp Sensor Too High	17:03:42 09/18/2026
17:04:13 09/18/2026	Wash Temp Sensor Failure	17:04:29 09/18/2026
17:10:34 09/18/2026	Over Fill of Wash Sink	17:10:41 09/18/2026
07:29:09 09/24/2026	Wash Temperature Too Low	07:30:21 09/24/2026
07:33:36 09/24/2026	Over Fill of Wash Sink	07:34:10 09/24/2026
11:13:58 09/24/2026	Wash Temperature Too Low	

If Reset Alarm is pressed and the alarm condition is still present, the alarm will not reset.

Most recent alarm is displayed at the bottom of the list

If the screen is pressed to continue and the alarm is still active, the home screen will show again, but the warning symbol and Alarm Active will be flashing.

If the alarm condition is corrected while in this state, self resetting alarms will reset and it will stop blinking. It will continue blinking for the three Alarms that need to be reset after the alarm condition is corrected.



Self Re-settable Alarms:

- 1 Check Milk Line-Not in Milk Position
- 2 Wash Temperature Too Low
- 3 Milk Temperature Too High
- 4 Low Chemical- Wash 1 Detergent
- 5 Low Chemical- Wash 2 Detergent
- 6 Low Chemical- Acid
- 7 Low Chemical- Sanitizer
- 8 Fill Switch Stuck On
- 9 Power Failure-Wash Canceled
- 10 Check Milk Line-Not in Wash Position

Alarms that need to be reset:

- 11 Over Fill of Wash Sink
- 12 Wash Temp Sensor Failure
- 13 Milk Temp Sensor Failure

The screenshot shows the 'Alarms' screen with a top navigation bar containing Home, MENU, OUTPUTS, and ALARMS. The main section is titled 'CURRENT ACTIVE ALARM' and shows a trigger of 'Wash Temperature Too Low' at 11:13:58 on 09/24/2026. Below this is a table for 'ALARM HISTORY' with columns for Trigger, Message, and Recovery. The most recent alarm at the bottom of the list is 'Wash Temperature Too Low' at 11:13:58 on 09/24/2026.

Trigger	Message	Recovery
16:55:38 09/18/2026	Low Chemical- Wash 2 Detergent	16:55:41 09/18/2026
16:55:59 09/18/2026	Check Milk Line - Not in Milk Position	16:56:05 09/18/2026
16:56:09 09/18/2026	Check Milk Line - Not in Wash Position	16:56:12 09/18/2026
16:56:37 09/18/2026	Low Chemical- Wash 1 Detergent	16:56:40 09/18/2026
16:56:49 09/18/2026	Low Chemical- Wash 2 Detergent	16:56:52 09/18/2026
16:57:02 09/18/2026	Low Chemical- Acid	16:57:05 09/18/2026
16:57:14 09/18/2026	Low Chemical- Sanitizer	16:57:23 09/18/2026
16:59:58 09/18/2026	Wash Temperature Too Low	17:00:08 09/18/2026
17:01:41 09/18/2026	Milk Temp Sensor Failure	17:02:03 09/18/2026
17:03:36 09/18/2026	Milk Temperature Too High	17:03:42 09/18/2026
17:04:13 09/18/2026	Wash Temp Sensor Failure	17:04:29 09/18/2026
17:10:34 09/18/2026	Over Fill of Wash Sink	17:10:41 09/18/2026

If the above screen is showing, an alarm was triggered but the reason for the alarm went away.

Check the latest alarm (bottom of the list).

5.1 Alarms Messages & Troubleshooting

#	Alarm Message	Possible Cause	Action
1	Check Milk Line - Not in Milk Position	1. Switch not installed, but will be used. 2. Switch is not activated, pipe not in position. 3. Switch is not wired correctly. 4. Switch is faulty. 5. Switch will not be used, but jumper not in.	1. Install limit switch. 2. Correct milk line position. 3. Inspect wiring. 4. Replace switch. 5. Install red jumper from 6 Switch to 7 Wash
2	Wash Temperature Sensor Failure	1. Wash sensor is toggled On, but uninstalled. 2. Sensor is open (or shorted). 3. Faulty wiring.	1. Toggle Wash sensor off or install sensor. 2. Replace sensor. 3. Inspect wiring and repair as necessary.
3	Milk Temperature Sensor failure	1. Milk sensor is toggled On, but uninstalled. 2. Sensor is open (or shorted). 3. Faulty wiring.	1. Toggle Milk sensor off or install sensor. 2. Replace sensor. 3. Inspect wiring and repair as necessary.
4	Fill Switch Stuck On	1. Switch closed before fill started. 2. Switch is faulty, or stays closed.	1. Inspect wiring. 2. Replace switch.
5	Overfill of Wash Sink	1. Overfill Alarm Time time is set too short. 2. Water valves are not working correctly. 3. Fuse for water valve outputs is blown. 4. Fill Switch not activating. 5. Water supply issue.	1. Change setting to longer time. 2. Ensure valves turn on using output screen. 3. Inspect fuse, replace if blown. 4. Replace or repair Fill Switch. 5. Inspect water supply system.
6	Wash Temperature Too Low	1. Cycle Fill Temp set too low. 2. Cycle Low Temperature is set too high. 3. Diverter 1 timer set too long for chem Cycle. 4. Water is not hot enough. 5. Not holding water.	1. Change setting to higher temperature. 2. Change setting to lower temperature. 3. Change setting to shorter time. 4. Check hot water supply. 5. Check Drain Valve.
7	Milk Temperature Too High	1. Alarm Temp Set too low. 2. Plate cooler water off. 3. Milk not cold enough. 4. Milk Temp Alarm Delay set too short.	1. Change setting. 2. Turn on plate cooler water. 3. Verify chiller or plate cooler is working. 4. Check Milk Temp Alarm Delay and adjust.
8	Low Chemical - Wash 1 Detergent	1. Out of chemical in that drum. 2. Chemical probe reed is bad or float is stuck.	1. Replace chemical drum or refill it. 2. Replace or repair chemical probe.
9	Low Chemical - Wash 2 Detergent	1. Out of chemical in that drum. 2. Chemical probe reed is bad or float is stuck.	1. Replace chemical drum or refill it. 2. Replace or repair chemical probe.
10	Low Chemical -Acid	1. Out of chemical in that drum. 2. Chemical probe reed is bad or float is stuck.	1. Replace chemical drum or refill it. 2. Replace or repair chemical probe.
11	Low Chemical - Sanitizer	1. Out of chemical in that drum. 2. Chemical probe reed is bad or float is stuck.	1. Replace chemical drum or refill it. 2. Replace or repair chemical probe.
12	Check Milk Line - Not in Wash Position	1. Switch not installed, but will be used. 2. Switch is not activated, pipe not in position. 3. Switch is not wired properly. 4. Switch is faulty. 5. Switch will not be used, but Jumper not in.	1. Install Limit Switch. 2. Correct milk line position. 3. Inspect wiring. 4. Replace switch. 5. Install red jumper from 6 Switch to 7 Wash
13	Power Failure - Wash Canceled	1. Power was lost during a wash cycle.	1. Cycle was canceled, wash needs to be restarted.

6 Hard Copy of Wash Setup Settings

The following chart can be used if it is preferred to have a hard copy of the Wash Setup Settings. (Instead of saving to an SD or a USB)

Pre-Rinse	Det Wash 1	Det Wash 2	Rinse 2	Acid	Rinse 3	Sanitize
Pre-Rinse Cycle	Wash 1 Cycle	Wash 2 Cycle	Rinse 2 Cycle	Acid Cycle	Rinse 3 Cycle	Sanitize Cycle
Aux 1 Dur Fill	Aux 1 Dur Fill	Aux 1 Dur Fill	Aux 1 Dur Fill	Aux 1 Dur Fill	Aux 1 Dur Fill	Aux 1 Dur Fill
Cold Water	Cold Water	Cold Water	Cold Water	Cold Water	Cold Water	Cold Water
Hot Water	Hot Water	Hot Water	Hot Water	Hot Water	Hot Water	Hot Water
Fill Temp	Fill Temp	Fill Temp	Fill Temp	Fill Temp	Fill Temp	Fill Temp
LoTemp Alarm	LoTemp Alarm	LoTemp Alarm	LoTemp Alarm	LoTemp Alarm	LoTemp Alarm	LoTemp Alarm
Filling	Filling	Filling	Filling	Filling	Filling	Filling
Auxiliary 1	Wash 1 Chem	Wash 2 Chem	Auxiliary 1	Acid	Auxiliary 1	Sanitize
Auxiliary 1 Del	Wash1 ChemDel	Wash2 ChemDel	Auxiliary 1 Del	Acid Del	Auxiliary 1 Del	Sanitize Del
Circulating	Acid	Acid Del	Circulating	Auxiliary 1	Circulating	Auxiliary 1
Vac Pump Run	Sanitize	Sanitize	Vac Pump Run	Auxiliary 1 Del	Vac Pump Run	Auxiliary 1 Del
Vac Pump Del	Sanitize Del	Sanitize Del	Vac Pump Del	Circulating	Vac Pump Del	Circulating
Diverter 1	Auxiliary 1	Auxiliary 1	Diverter 1	Vac Pump Run	Diverter 1	Vac Pump Run
Diverter 1 Del	Auxiliary 1 Del	Auxiliary 1 Del	Diverter 1 Del	Vac Pump Del	Diverter 1 Del	Vac Pump Del
Diverter 2	Auxiliary 1 Del	Auxiliary 1 Del	Diverter 2	Diverter 1	Diverter 2	Diverter 1
Diverter 2 Del	Circulating	Circulating	Diverter 2 Del	Diverter 2	Diverter 2 Del	Diverter 2
Drain Close	Vac Pump Run	Vac Pump Run	Drain Close	Diverter 2 Del	Drain Close	Diverter 2 Del
Aux 1 Run	Vac Pump Del	Vac Pump Del	Aux 1 Run	Drain Close	Aux 1 Run	Drain Close
Aux 2 Run	Diverter 1	Diverter 1	Aux 2 Run	Aux 1 Del	Aux 2 Run	Aux 1 Run
Aux 2 Del	Diverter 1 Del	Diverter 1 Del	Aux 2 Del	Aux 2 Del	Aux 2 Del	Aux 2 Run
Air Inj Run	Diverter 2	Diverter 2	Air Inj Run	Aux 1 Del	Air Inj Run	Aux 2 Run
Add Cold	Diverter 2 Del	Diverter 2 Del	Add Cold	Aux 2 Del	Add Cold	Aux 2 Del
Add Hot	Drain Close	Drain Close	Add Hot	Air Inj Run	Add Hot	Air Inj Run
End of Cycle	Aux 1 Run	Aux 1 Run	End of Cycle	Add Acid	End of Cycle	Add Sanitize
*All times in seconds	Aux 2 Del	Aux 2 Del		Add Acid Del		Add Sanitize Del
	Aux 2 Del	Aux 2 Del		Add Cold		Add Cold
	Air Inj Run	Air Inj Run		Add Hot		Add Hot
	Add Wash1	Add Wash2		End of Cycle		End of Cycle
	Add Wash1 Del	Add Wash2 Del				
	Add Sanitize	Add Sanitize				
	Add Sanitize Del	Add Sanitize Del				
	Add Cold	Add Cold				
	Add Hot	Add Hot				
	End of Cycle	End of Cycle				

Wash Setup 1 Settings

Save screen to USB drive

Save screen to SD card

Edit Wash Setup 1

6.1 Hard Copy of Global Settings

The following chart can be used if it is preferred to write down the Global Settings.
(Instead of saving to an SD or a USB)

Device Settings		Pre-Milk Sanitize		Temperature Probe Settings	
Air Injector On		Enable Pre-Milk Sanitize		Wash Probe	
Air Injector Off		Pre-Milk Sanitize		Wash Temp Offset	
Auxiliary 1 On		Pre-Milk Sanitize		Water Valve On Delay	
Auxiliary 1 Off		Pre-Milk Sanitize		Water Valve Off Delay	
Air Blow Time		Pre-Milk Sanitize		Temp Deadband	
Overfill Alarm time		Cycle Wash Cycle Wash Formula 1 Preset Formula 2 Preset Formula 3 Preset		Low Temp Alarm Delay	
Wash Delay				Milk Probe	
Chiller Start				Milk Temp Offset	
Chiller After Wash				Milk Temp High Alarm	
Drain		<i>*All times in seconds</i>		Milk Temp Alarm Delay	
Diverter 1				Wash Temp Max Scale	
Diverter 2				Wash Temp Min Scale	
Auxiliary 1				MilkTemp Max Scale	
Auxiliary 2				Milk Temp Min Scale	
Vacuum Pump Mode					
Use Fill Switch					

EDIT
IN
MENU

Global
Settings

Save screen
to USB drive


Save screen
to SD card




7.0 Spare parts list

- #40405 - Replacement Mega Wash I/O PCB
- #40110 - Replacement PLC
- #40109 - Exp. Module 1
- #40111 - Exp Module 2
- #56505 - Replacement Touch Screen

8. Technical Support

Electronics: 610.273.7016 Toll Free:888.768.3928
 Gert: 920.602.6724 (After hours)
 E-Zee Main: 717.768.7560 Toll Free:888.880.3933





Mega Wash
Automatic Pipeline Wash Control
Installation & Operation Manual

Rev 9.26

#40400

888.880.3933

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