

Dairymaster Parlour Operator Handbook

Version 1



Experience the difference



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1. Pre Milking Checks.

Before beginning milking the operator should go through some simple checks outlined below to ensure that the plant has been washed completely since the last milking.

- ✓ Ensure the Wash Couplings have been disconnected.
(Milk/Divert couplings).
- ✓ Ensure the Milk Pipe is Coupled to the Milk Tank ready for milking.
- ✓ Ensure Clean Milk Filter(s) are in place.
- ✓ Check Vacuum Pump oil level (ensure that oil is present).
- ✓ Check that the Milk Tank Outlet is Closed.
- ✓ Check the Pinch Clips going to the Sanitary Trap and Jetstream closed for MILKING. (Open for WASHING).
(This is Automated in Rotary Parlours)
- ✓ Turn on the Water supply to the Plate Cooler.
(This is Automated if the Autowasher is installed)
- ✓ Check Feed Auger Contactors have been Switched On or that Feeding has been Switched on in the Rotary Operator Console.
- ✓ Ensure the Milk Tank is in COOLING mode.
- ✓ Check that the System Vacuum is between 48 – 50kPa on the Parlour Vacuum Gauge.

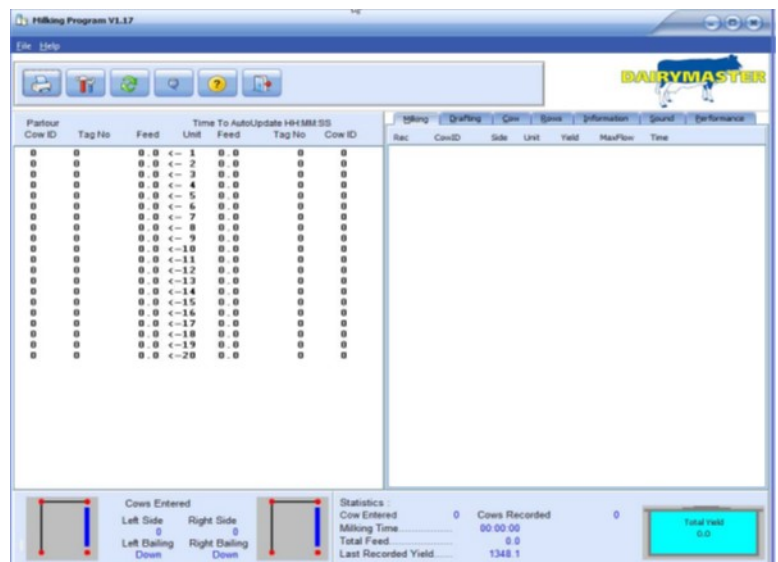
1.1 Milk Manager (Where Present):

Before beginning milking the operator should go to the computer and open the milking program. In some installations the program can be automatically set up to start at milking time.

1. Click on the Dairymaster milking program on the screen:



2. The following window should appear:



3. At this stage you are ready to enter the pit and begin milking.

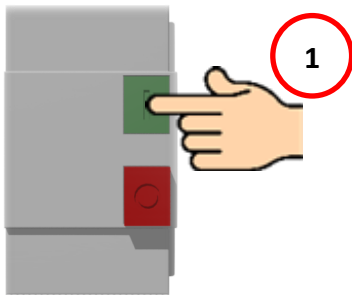
1.2 Starting the Milking Plant:

Turn on the milking Machine by switching on the Vacuum Pumps or if an AutoWasher is installed the milking machine is started via the control panel interface on the front of the unit.

(Refer to the Quick Reference guide for the AutoWasher).

No AutoWasher Installed

Press the Green Button on the Vacuum Pump Contactor.



AutoWasher Installed

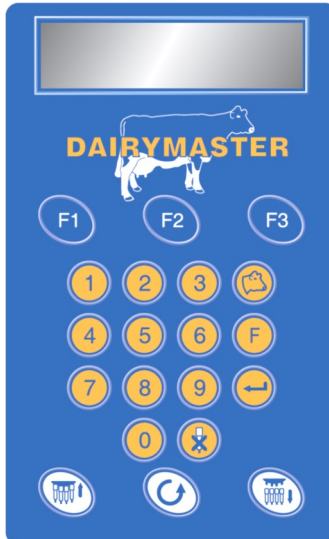
Use the Up/Down Arrows to Scroll to Ready to Milk & Press the Green Button



2. Control Systems

2.1 Control Systems

Each Milking unit will have one of the following controls systems in place.



Milk Meter



Standalone ACR



SwiftFlo Control



SwiftFlo Pulse



SwiftFlo Commander

2.2 External washing of controllers

Refrain from spraying the outside of the SwiftFlo Controls or milk meter with excessive amounts of water as this only increases the build-up of lime scale externally.

Ensure that the electronic control units are not sprayed with high-pressure jets and that cleaning detergents are not used on it. To clean, simply wipe with a damp cloth.

2.3 Milking Claw Vent Hole

Every Second or Third Milking check the claw air vent to ensure that it is free and clear of any obstruction. If the vent is not clear it could have a negative effect on the accuracy of the Milk Flow Indicator as well as having a negative effect on the plant performance.

2.4 Milking Routine

A good milking routine is needed to remove milk efficiently from cows with minimal risk to udder health. A good routine should result in high quality milk with low bacterial contamination.

Clean nitrile disposable Gloves should be worn at all time during milking. Sleeves should be rolled up and clean.

Benefits of a good milking routine are:

- ✓ **Reduced levels of mastitis.**
- ✓ **Increased milk production.**
- ✓ **Rapid milking out of cows.**

3. Quick Access Guides—Control Systems

3.1 Milk Meter Controller

DairyMaster Milk Meter

Step	Actions
1	Press F100 and Enter to put the parlour into Milk Mode.
2	Push the Swing over arm in the direction of the cow/ press the start button and start the milking.
3	Milk can be diverted by pressing F1 twice before the cluster is attached, once finished it automatically resets to main milk line.
4	CowIDs can be entered at the bail, by pressing the correction button and inputting the ID followed by enter.
5	Press F101 to put the parlour into wash mode when milking is complete.

Procedures



DairyMaster Milk Meter

Button	Outcome	Button	Outcome
F1	Divert Line		Restart Button
F2	Switch Sides		ACR Override
F3	Drafting	F	Function Button
	Start Button		Enter Button
	Stop Button		Correction Button

Function No.	Outcome
100	Milk Mode
101	Wash Mode
102	Meter open - non-recording mode
103	Hold, Jettors down Left
104	Hold, Jettors down Right
107	Individual Wash Mode
108	Individual Normal Mode

Buttons

DairyMaster Milk Meter


Step	Actions
1	Put sample bottle in place.
2	Turn the sampling tap to TEST.
3	Press the Start Button and begin milking.
4	When finished remove cluster from cow and press Stop Button.
5	Turn the sample tap to the Hold position and remove the sample bottle.
6	Shake bottle.

Milk Sampling Procedures



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ACR with ClusterCleanse



RAM UP ●

DIVERSION LINE ●

MAIN LINE ●

RINSE ●

AIR ●

SENSOR (I) ●


SENSOR (M) ●

START (R) ●

START (L) ●

WASHING ●

REMOVE OVERRIDE ●

DAIRYMASTER  **CE**

**Automatic Cluster Remove
And Cluster Cleanse**







ACR with ClusterCleanse Maintenance Schedule

Maintenance Schedule	Per Milking	Daily	Weekly	Monthly	Yearly
Flow Sensor Diaphragm					X
Relay Kit					X
Ram Seal					X
Replace Chamber Diaphragm	7000				
Control Panel Cleaning (with damp cloth)			X		
Air vent must be checked and freed if blocked			X		
Replace Plunger Seal	14000				
Replace Diaphragm	14000				
Replace Plunger Grommet	14000				

ACR with ClusterCleanse Alarm Alerts

Alarm	Reason	Action
Float not rising or falling correctly	Dirt or grit in the chamber and or chamber drain hole	Dismantle the chamber and clean carefully
Insufficient vacuum at the cluster after START is pressed	Cracked diaphragm in float chamber	Change diaphragm
Remove Override LED is flashing	The Flow Sensor did not detect milk flow during the min. milking time	Check flow sensor

ACR with ClusterCleanse Buttons

Button	Outcome
	Wash
	Start
	Stop
	Restart
	Divert
	Remove Override

3.3 SwiftFlo Control



Button	Outcome
	Wash Mode
	Screen Lock x2 Presses
	Select sides/ Cow Retention
	Diversion Line Selection
	ACR Override
	Stop Button/ Cancel Button
	Start Button

LED	Indication
	Keypad Lock Active
	Wash Mode Active
	Milk Mode Active
	Diversion Mode Active
	Temperature Warning
	ClusterCleanse Active
	Setting Function Active
	Liner Health Warning

Keypad Lock/Unlock Enabled or Disabled	x2 Disable Lock on One Unit. When Locked Led Indicator is on	x4 On Any Unit Disables Keypad Lock for ONE Milking (ALL UNITS)	x6 Disable Keypad Lock Permanently / Enable keypad lock (ALL UNITS)
Keypad Lock/Unlock Enabled or Disabled		Toggle Wash to Milk	Stop x 2 = All Units in Milk Mode Stop x 1 = One Unit Milk Mode
Milk to Wash Mode	x2 RGB Leds On Solid Ready to Wash Mode (Wash Indicator Light Flashes Slow).	x1 Start/ Restart x1 = Jettors Down Mode (Drop Cluster Without Vacuum Wash Indicator is On RGB Leds Flashing Quickly).	x2 To Start Press Wash x 2 = Once ALL Units are attached to Aqua-jetz (Wash indicator is on Solid and RGB Leds are Flashing).
Milk to Diversion Mode	x1 RGB Leds On Solid Green Ready To Milk Mode (Milk Line Led On).	x1 RGB Leds On Solid Orange Diversion Hold Mode (Milk Line Led Off)	x1 RGB Leds On Solid Red Milking to Divert Line (Divert Line Led On).
Cancel ClusterCleanse for One Milking	x1 Remove Override (Must Be in Ready to Milk Mode)	x1	x1 When Disabled ClusterCleanse Led Symbol is On!
Milk sample Agitation	x1 While in Waiting Start Turns On Vacuum To Main Line To Agitate Sample	x1	

Procedure for the last row of cows to place units in wash mode

1. Place idle units into wash mode while waiting for the last cow to finish milking.
2. Double tap the Wash Key, on a unit which has finished milking, this places all idle units into Ready to Wash Mode (Top LEDs turn blue, wash indicator flashes slowly (Phase 1).
3. Once the next start signal is given the ACR will drop and the Jetter Down mode is active there is no vacuum applied to the claw at this point (Phase 2).
4. Double tap wash key to place all units into washing mode or power cycle.

Milk to Wash Mode	x2 RGB Leds On Solid Ready to Wash Mode (Wash Indicator Light Flashes Slow).	x1 Start/ Restart x1 = Jettors Down Mode (Drop Cluster Without Vacuum Wash Indicator is On RGB Leds Flashing Quickly).	x2 To Start Press Wash x 2 = Once ALL Units are attached to Aqua-jetz (Wash indicator is on Solid and RGB Leds are Flashing).
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Note: Power cycle all units after each configuration

3.4 SwiftFlo Pulse Controller



Button	Outcome
	Wash Mode
	Screen Lock x2 Presses
	Select sides/ Cow Retention
	Diversion Line Selection
	ACR Override
	Stop Button/ Cancel Button
	Start Button

LED	Indication
	Keypad Lock Active
	Wash Mode Active
	Milk Mode Active
	Diversion Mode Active
	Temperature Warning
	ClusterCleanse Active
	Setting Function Active
	Liner Health Warning

Keypad Lock / Unlock Enabled or Disabled	x2 → Disable Lock on One Unit. When Locked Led Indicator is on → x4 → On Any Unit Disables Keypad Lock for ONE Milking (ALL UNITS) → x6 → Disable Keypad Lock Permanently / Enable keypad lock (ALL UNITS)
Keypad Lock / Unlock Enabled or Disabled	→ Toggle Wash to Milk → Stop x 2 = All Units in Milk Mode → Stop x 1 = One Unit Milk Mode
Milk to Wash Mode	x2 → RGB Leds On Solid Ready to Wash Mode (Wash Indicator Light Flashes Slow). → x1 → Start/ Restart x1 = Jettors Down Mode (Drop Cluster Without Vacuum Wash Indicator is On RGB Leds Flashing Quickly). → x2 → To Start Press Wash x 2 = Once ALL Units are attached to Aquatez (Wash indicator is on Solid and RGB Leds are Flashing).
Milk to Diversion Mode	x1 → RGB Leds On Solid Green Ready To Milk Mode (Milk Line Led On). → x1 → RGB Leds On Solid Orange Diversion Hold Mode (Milk Line Led Off) → x1 → RGB Leds On Solid Red Milking to Divert Line (Divert Line Led On).
Cancel ClusterCleanse for One Milking	x1 → Remove Override (Must Be in Ready to Milk Mode) → x1 → When Disabled ClusterCleanse Led Symbol is On!
Milk sample Agitation	x1 → While in Waiting Start Turns On Vacuum To Main Line To Agitate Sample → x1

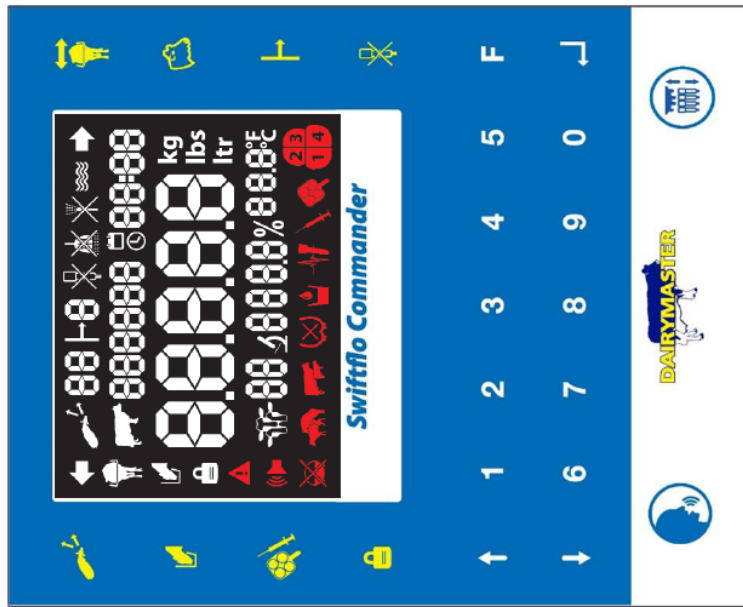
Procedure for the last row of cows to place units in wash mode

- 1. Place idle units into wash mode while waiting for the last cow to finish milking.
- 2. Double tap the Wash Key, on a unit which has finished milking, this places all idle units into Ready to Wash Mode (Top LEDs turn blue, wash indicator flashes slowly (Phase 1).
- 3. Once the next start signal is given the ACR will drop and the Jetter Down mode is active there is no vacuum applied to the claw at this point (Phase 2).
- 4. Double tap wash key to place all units into washing mode or power cycle.

Milk to Wash Mode	x2 → RGB Leds On Solid Ready to Wash Mode (Wash Indicator Light Flashes Slow). → x1 → Start/ Restart x1 = Jettors Down Mode (Drop Cluster Without Vacuum Wash Indicator is On RGB Leds Flashing Quickly). → x2 → To Start Press Wash x 2 = Once ALL Units are attached to Aquatez (Wash indicator is on Solid and RGB Leds are Flashing).
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Note: Power cycle all units after each configuration

3.5 SwiftFlo Commander Controller



SwiftFlo Commander

Procedures

Step	
1	Press F100 and Enter to put the parlour into Milk Mode.
2	Make sure the Milking Program is open and the Rotary is synced.
3	Milk can be diverted by pressing F twice before the cluster is attached, once finished it automatically resets to main milk line.
4	Cow IDs can be entered at the bail, by pressing the correction button and inputting the ID followed by Enter.
5	Press F 104 and L at one unit and use Smart Start to place Cluster on the Jettors for washing.

SwiftFlo Commander

Touchpad

Button	Outcome	Button	Outcome	Function No	Outcome
	Drafting		Divert Milk	100	Normal Mode
	Feeding		ACR Override	101	Wash Mode
	Cow Testing		Function Button	103	Hold, Jettors down Left
	Touchpad Lock		Enter Button	104	Hold, Jettors down Right
	Retention		Voice Assist	107	Place only this unit into Wash Mode
	Cow ID		Start/Stop Button	108	Place only this unit into Milk Mode
				199	Cancel CC for this Unit for this Milking
				198	Broadcast CANCEL CC to all units for this milking
				55	Lock Keypad

Milk Sampling Instructions

Step	Actions
1	Put sample bottle in place
2	Turn the sampling tap to TEST
3	Press the Start Button and begin milking
4	When finished remove cluster from cow and press Stop Button.
5	Turn the sample tap to the Hold position and remove the sample bottle
6	Shake bottle
7	Return the sample tap to EMPTY when complete



PART NUMBER:11021029

4. Foremilking.

Before each cluster is attached to the cow, two squirts of foremilk should be removed from each teat to aid the detection of mastitis and flush out the milk from the teat canal.

If Pre-Spraying, apply to each teat according to manufacturer's recommendations.



4.1 Teat Cleaning:

Each of the Animals Teats should be cleaned and dried before attaching the cluster to the cow.

A different quarter of the towel should be used on each teat to avoid cross-contamination between teats.

Teat Spraying Note:

If Pre-Spraying, apply to each teat according to manufacturer's recommendations.

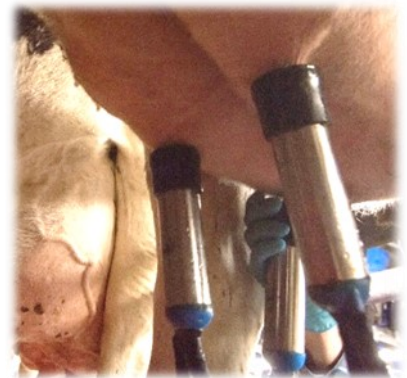


4.2 Cluster Attachment:

The cluster is attached to the cow as soon as possible after teat preparation. Attach the units without leaking large amounts of air into the system;

Hold the cluster level so that the short milk tubes close off the claw nipples. Apply each teat cup rapidly.

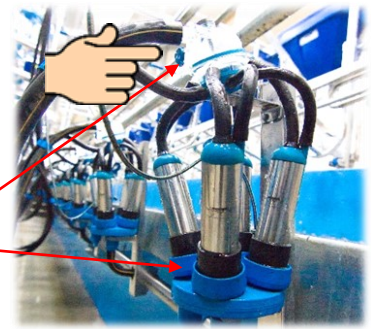
This helps to ensure that the vacuum level remains stable.



4.3 End of Milking (If Autowasher is installed)


Place all the milk meters into Wash mode by entering **Function 101** on any Milk Meter / SwiftFlo Commander Controller
 Or
 On the ACR controller press the **WASH** button.

Place the clusters on the jettors, lock claw buttons in open position.



Press **F3** on the Autowasher to drain the receiver and activate the air purge.

Wait for the air purge to complete its cycle. (System Cleared)

Press  to stop the pumps.



Ready the plant for washing, open the Jetstream and Sanitary Trap Pinch Clips. (This is Automated in Rotary Plants and is controlled by the Autowasher)

Connect the re-circulation pipe for washing (At the Milk tank / Rotary Platform wash link).

Remove the milk filter and replace with the spare Milk Filter. See **Milk Filter Replacement**.

Select the appropriate wash cycle and press start.

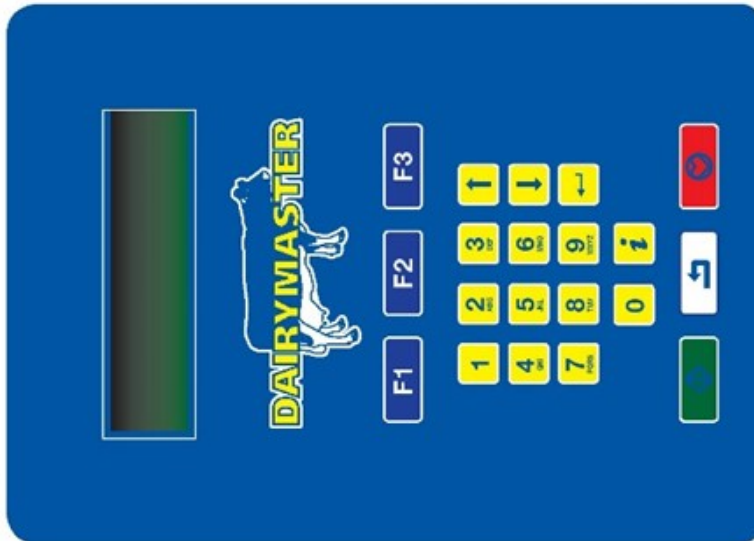


Please ensure that the plant is not left unwashed for long periods as this may impair cleaning and reduce the lifetime of some components due to excess deposits.

Symptom	Cause	Solution
'Acid low'	Detergent drum empty	Replace Detergent
'Hypo low'	Detergent drum empty	Replace Detergent
'San low'	Detergent drum empty	Replace Detergent
Error 'CHECK COUPLING'	The collection tank swing over arm or the Diversion line coupling is in incorrect position	Check coupling and swing over arm.
Error 'TROUGH NOT FULL'	Not enough water in the wash trough	Check Plumbing

4.4 Common Checks During Washing:

1. Ensure All Clusters are in place during washing.
2. Ensure that All Clusters are pulling water and are washing completely.
3. Where Meters are installed ensure that the meters are filling completely and dumping water during the wash cycle.
4. Ensure the Sanitary trap is washing and draining properly.
5. Ensure the Receiver is washing and draining properly.
6. Check the return water temperature to ensure that it is not below 40-45°C.



AutoWasher Function	
Function	Outcome
1	Setting the Time
2	Systems Settings
3	Rinse & Sanitiser Settings
4	Cold Alkaline Wash
5	Hot Alkaline Wash
6	Acid Detergent Wash
7	Pre-Set Start Times
8	Diagnostics
11	Recycle Water

AutoWasher Procedures	
Step	Actions
1	Fix Milk Outlet (Coupling) to Milk tank if needed and press the Start button.
2	Use the navigational buttons to Find "Ready to Milk" and press the Start button.
3	When the Milking is complete press F3 to drain and air purge the system. Ensure "System Clear" is displayed on the screen. Press Stop button.
4	Using the directional buttons select a type of wash: cold, hot acid, rinse or post rinse.
5	Fix Milk Outlet to the wash line and press the Start Button.
6	Check to see wash has completed.

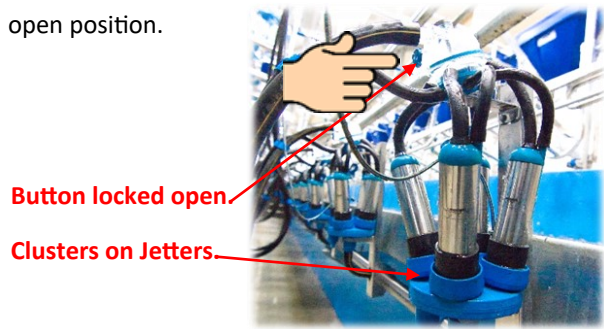
AutoWasher Buttons					
Button	Outcome	Button	Outcome	Button	Outcome
F1	Transformer Timed On		Start Button		Navigate Down
F2	Transformer Toggle On/Off		Stop Button		Navigate Up
F3	Drain & Air Purge		Enter Key		Function Button
					Reset Button

AutoWasher Maintenance Schedule					
Maintenance Schedule	Per Milking	Daily	Weekly	Monthly	Yearly
Replace the tube inside the chemical pump.					x
Cleaning Control Panel with damp cloth.			x		
Replace Detergent Tubes .				Every 3 Months	

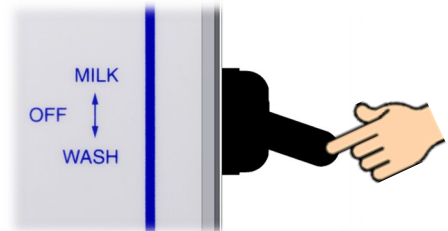
AutoWasher Alarm Alerts		
Alarm	Reason	Action
Trough does not fill completely.	Insufficient calibration/low water pressure.	Re-calibrate use Function 2/ check plumbing for leaks.
Trough does not empty completely.	Incorrect settings.	Re-calibrate wash time.
First Liner change.	Service due time.	Replace liners and carry out service.

4.6 End of Milking (no Autowasher installed)

1. Place the clusters on the jettets, lock claw buttons in open position.



2. Turn the switch on the milk pump controllers to **Wash** until all milk is empty from the receiving jars.



3. Turn the switch back to **Milk position** again.



4. Press the air purge button for **30** seconds.

5. Remove the Milk filter socks from the milk Filters and disconnect the Milk Coupling or Top Fill Dairy arm from bulk tank. See section **Milk Filter Element Replacement**.

6. Turn on Jetstream.



7. Fill the wash trough with water, place suck up pipe into water and empty trough

8. Turn the switch to the Wash position again.

9. Purge the system again

10. Fill the trough a second time with the required amount of water for circulation, add the required amount of detergent and circulate for 10 minutes.



Please Note: This circulation water should not be used a second time.



11. When the 10 min are up divert the water into a holding tank.

12. Rinse the machine with the required amount of cold water.

13. Press the air purge button again for 30 sec.

14. Turn the switch to the off position.

15. Press the red button on the contactors to stop the milking machine.

16. Turn off transformers and Jetstream controller & Turn off water to plate cooler.

5. Milk Filter Element Replacement.

The parlour may have single, double or triple milk filter systems installed depending on the number of milking units.

For Disposable Milk filters, they should be changed prior to each milking:

Disposable Milk Filters are available in two sizes:

Dairymaster milk filter socks 3" (box of 100) **Part No: 10370005**

Dairymaster milk filter socks 6" (box of 100) **Part No: 10370591**

For Reusable Milk filters, they should be washed & sanitized prior to each milking & replaced as needed:

Reusable Milk Filters are available in two sizes Standard & Large.

SwiftFlo precision filter elements (Standard) (box of 24) **Part No: 10370013**

SwiftFlo precision filter elements: (Large) (box of 18) **Part No: 10370658**

SwiftFlo precision filter element (Standard) (Single) **Part No: 10370633**

SwiftFlo precision filter element (Large) (Single) **Part No: 10370690**

In systems where there are 2 or more Milk Filter housings are installed can the Filter Elements be replaced during milking otherwise milking must stop to facilitate a milk filter change.

Changing the filter is done by closing the Shut off valves (Circled in Red) at the inlet and outlet of each of the Filter bodies for one filter at a time and replacing that Filter Element.

After replacing the first filter Element both valves should be opened only then can the filter at the other side of the Filter body be changed.



Note: It is important that all milk flow valves are never closed at the same time during milking; this will cause the receiver jar to flood shutting down the milking system.



For Reusable milk filters; Remove the Milk filter element and replace with a spare/cleaned or washed filter, turn the filter inside out and rinse off with cold or warm water followed by one of the following:

- Soak the filter element in Peracetic acid for 30 seconds.
- Soak the filter element in a chlorine based sterilising liquid for 20 minutes.

We recommend that you have two filter elements available always and that you replace the filter elements at least every two weeks and discard the old filter.

Environmental conditions will have a bearing on the useful life of the filters, therefore, it may be necessary to change the filters more frequently.

6. Quick Access Guides—SwiftCool

6.1 CoolControl



Cool Control		Alarms	
Alarm	Reason	Action	
WARNING: Milk Tank Power Failure	Power Failure	Check power supply. If power is available contact service	
WARNING: Milk Tank Communication Error	No communication between control panel and mains cabinet.	Check power cable from tank to mains cabinet	
WARNING: Milk Tank temperature exceeds ??:C / °F	High temperature alarm.	Check condensing units and agitators	
WARNING: Milk Tank temperature below ??:C / °F	Low temperature alarm	Check condensing units are switched off. Check agitators are running. Contact service.	
WARNING: Milk Tank Compressor # Overloaded	Check condensing unit. Power tank off and back on.	Check condensing unit. Power tank off and back on.	
WARNING: Milk Tank Wash Pump Overloaded	Check wash pump. Power tank off and back on.	Check wash pump. Power tank off and back on.	
WARNING: Milk Tank Agitator # Overloaded	Check agitator. Power tank off and back on.	Check agitator. Power tank off and back on.	
WARNING: Milk Tank not washed.	Insufficient wash water level	Check water supply.	
WARNING: Milk Level below minimum required for Deep Cool Mode. Continue?	Excessive Time delay between milk collection and washing.	Start washing sequence.	
Liquid level already detected in tank.	User selected Deep Cool but milk level is too low.	Do not start deep cool with a low level of milk in the tank	
Alkali/Acid / Sanitiser Acid detergent low	Liquid level already detected in tank. Exceeds wash water fill level.	Check tank contents.	
Insufficient Cooling	Low rate of milk cooling detected.	Check/refresh detergent drum Check detergent pump tubes	
Short cycling	Frequent / repeated compressor start-up within a short period	Check that the compressors are running. Check cooling and alarm parameters. Contact service.	

Cool Control Maintenance				
Maintenance Schedule	Daily / Between milk collections	After each wash cycle	Monthly	Yearly
Check for correct milk temperature when cooling is complete.	✓			
Check for periodic agitation.	✓			
Check for alerts / alarms using the keypad report function	✓			
Inspect and if necessary clean the air vent.		✓		
Check water hoses and connections for leaks or cracks			✓	
Check condensing units are free from obstructions and that air can circulate freely			✓	
Check the tank inner surface for grease or scale and adjust the cleaning parameters if necessary			✓	
Service the refrigeration system (using a qualified refrigeration contractor).				✓

Cool Control Information Buttons

Graph: Shows temperature fluctuations over time (00:00 to 24:00).
Current Mode: Idle 3.8
Last Mode: Washing
Last Mode Finished: 18/11/10 11:42
Log 1: 11:46:33 Milk collected at 18/11/10 11:46
Log 2: 11:46:35 Temp: 3.8 Level: 8941L
Log 3: 12:31:04 Wash completed at 18/11/10 12:31

Temperature Settings: 4°C, 2°C
Function Buttons: F, 1-14, *

Cool Control Function Buttons

Buttons 1-14 with corresponding icons for functions such as agitation, cooling, reporting, and maintenance.

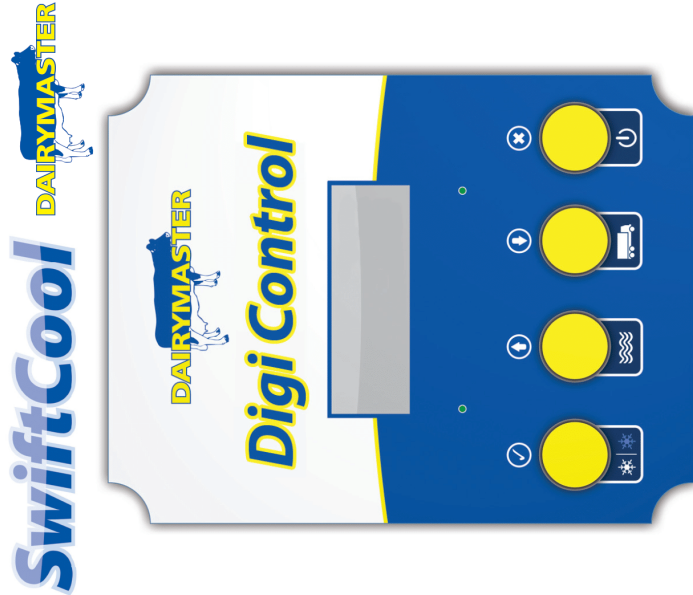
Cool Control Quick Start Buttons

StartCool: [StartCool] x2
StopCool: [StopCool] x1
StartDeepCool: [StartDeepCool] x2
StopDeepCool: [StopDeepCool] x1

Cool Control SMS Commands

Status: [SMS Icon] Status [SMS Icon]
StartCool: [SMS Icon] StartCool [SMS Icon]
StopCool: [SMS Icon] StopCool [SMS Icon]
StartDeepCool: [SMS Icon] StartDeepCool [SMS Icon]
StopDeepCool: [SMS Icon] StopDeepCool [SMS Icon]

6.2 Digi Control



Digi Control		Function Buttons					
Button	Tank mode	Tank mode details	Duration	Display	Colour Coded Lights		
			* Default settings		Left or Right	Colour	Continuous or Flashing
	Cooling Mode (4 stages) <i>Each press advances stage of cooling</i> 1. Delayed start 2. Soft start 3. Normal cooling 4. Deep Cooling	Idle Intermittent cooling to 8 deg Full cooling to <4 deg During Soft start During Normal Cooling	20 minutes 30 minutes 90 minutes	TEMP TEMP TEMP TEMP	Left Right Alternating Both	White White White White	Continuous Continuous Slow flashing Slow flashing
	Full wash (5 stages)	1. Pre-rinse 1 2. Pre-rinse 2 3. Detergent wash 4. Post-rinse 1 5. Post-rinse 2		.1 .2 .3 .4 .5	Left Left Both Right Right	Blue Blue Blue Blue Blue	Slow flashing Fast flashing Fast flashing Fast flashing Slow flashing
	Quick wash (3 stages) (2 presses within 5 seconds)	1. Quick-rinse 1 2. Quick-rinse 2 3. Quick-rinse 2		9..1 9..2 9..3	Left Both Right	Blue Blue Blue	Slow flashing Fast flashing Slow flashing
	Milk Collection	1. Stop Cooling 2. Agitate before sampling start 3. Continue agitation	12 min	TEMP TEMP TEMP	Both Both	Red Yellow	Continuous Continuous
	Manual Agitation (Cooling auto restarts)	Agitation	10 min	TEMP	Both	Yellow	Slow flashing
	Cancel	Stop mode or Cancel alarm		E008			
		Parameter settings menu		ADD1			

Digi Control		Maintenance			
Maintenance Schedule	Daily / Between milk collections	After each wash cycle	Monthly	Yearly	
Check for correct milk temperature when cooling is complete.	✓				
Check for periodic agitation.	✓				
Inspect and if necessary clean the air-vent.		✓	✓		
Check water hoses and connections for leaks or cracks			✓	✓	
Check condensing units are free from obstructions and that air can circulate freely			✓	✓	
Check the tank inner surface for grease or scale and adjust the cleaning parameters if necessary			✓	✓	
Service the refrigeration system (using a qualified refrigeration contractor).				✓	

Digi Control		Alarms	
Alarm	Reason	Action	
E001	Insufficient wash water (level not reached within time limit [parameter H039])	Check water supply.	
E002	Insufficient wash water temperature (target temperature [parameter H038] not reached within time limit [parameter H037]) NOTE: wash sequence completed with low temperature water	Check water heater operation. Check intake water temperature. Check intake water temperature.	
E003	Cooling time exceeded [Parameter C011]	Check condensing unit operation. Check milk pre-cooling.	
E004	Acid Descaler detergent low	Replenish acid descaler detergent	
E005	Alkali detergent low	Replenish alkali detergent	
E006	Sanitiser Acid low	Replenish sanitizer acid	
E007	Issue with the temperature probe	Check temperature prob	
E008	Power Outage	Check power supply	

7. Milk Collection Guidelines.

SwiftCool CoolControl



Milk Collection Guidelines

1. Ensure the System is in COOL or DEEP COOL mode.



2. Press the Collection button for 1 second to Initiate COLLECTION mode.
 - This will turn off cooling and agitate the milk for a set period.

Note: if the system is not in COOL or DEEP COOL MODE the Collection mode will not initiate.

3. Take Milk Sample after the agitation period has finished



4. Open the Cap to empty the tank.
 - As the Tank empties the system monitors the drop in milk level.
5. When the tank empties, replace the wash cap. Press STOP on the Keypad

6. Press the Wash button to initiate WASH mode



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