

DIRECTIONS FOR USE

FIL Quantum Clear

Low Rinse Milking Machine and Silo Cleaner

Quantum Clear Acid is only suitable for HIGH TURBULENCE machines and must be used in a program that includes alkaline detergent wash cycles every other day. Refer to the table below for the minimum required wash program.

Quantum Clear Acid can only be used in machines that have maximum water hold back of 200ml per set of cups after wash & draining (i.e. 2.4L in a 12 ASHB, 10L water in a 50 bale rotary). All residual wash water must be let to drain until milk flows.

MILKING MACHINE

Following alkaline wash:

1. Refer to the FIL range of Alkali detergents for the alkali wash instructions.
2. Use QUANTUM CLEAR ACID at 15mL per 10 litres of cold water, ensuring sufficient wash solution to provide 10 litres per cluster. Use compliant water only.
3. Start the wash cycle.
4. Dismantle and brush any inaccessible parts. Wash thoroughly with cleaning solution and reassemble.
5. Open the plant and allow to drain.
6. Rinse with compliant cold water at a minimum rate of 2L per cluster.
7. Open the plant and allow to drain.

Acid wash only:

1. After milking flush machine with a minimum of 10 litres of cold water per cluster.
2. Use QUANTUM CLEAR ACID at 15mL per 10 litres of HOT water (85°C), ensuring sufficient wash solution to provide 10 litres per cluster. Use compliant water only.
3. Start the wash cycle and recirculate for 5 minutes (**DO NOT** allow the water temperature to drop below 55° C).
4. Open the plant and allow to drain.
5. Rinse with compliant cold water at a minimum rate of 2L per cluster.
6. Open the plant and allow to drain.

MILK SILO

Following alkaline wash:

1. Refer to the FIL range of Alkali detergents for the alkali wash instructions.
2. Dismantle and brush any inaccessible parts. Wash thoroughly with cleaning solution and reassemble.
3. Use QUANTUM CLEAR ACID at 15mL per 10 litres of COLD water, with a minimum of 120 litres of water or a volume of water equal to 2% of the silo's capacity, whichever is greater. Use compliant water only.
4. Start the wash cycle.
5. Open the silo and allow to drain.

6. Rinse with compliant cold water at a minimum rate of 80L or 1% of the silo volume whichever is larger
7. Open the silo and allow to drain.

Acid wash only:

1. After milk pickup flush silo with a minimum of 120 litres of fresh water or a volume of water equal to 4% of the silo capacity whichever is greater.
2. Use QUANTUM CLEAR ACID at 15mL per 10 litres of HOT water (85°C), with a minimum of 120 litres of water or a volume of water equal to 2% of the silo's capacity, whichever is greater. Use compliant water only.
3. Start the wash cycle and recirculate for 5 minutes (**DO NOT** allow the water temperature to drop below 55° C).
4. Open the plant and allow to drain.
5. Rinse with compliant cold water at a minimum rate of 80L or 1% of the silo volume whichever is larger.
6. Open the silo and allow to drain.

	DAY 1: Alkaline and acid wash		DAY 2: Acid wash only
Morning	Alkaline hot wash (85°C): Quantum: XL, Powder or, Impact Blue	Acid rinse cold: QUANTUM CLEAR ACID	Acid hot wash (85°C): QUANTUM CLEAR ACID
Evening	Acid hot wash (85°C): QUANTUM CLEAR ACID		Acid hot wash (85°C): QUANTUM CLEAR ACID

Note: The morning and evening wash must be followed by a minimum of 2L/cluster of rinse water

Table 1: Alternate day wash program