

Routine A: Hot Detergent-steriliser cleaning

Detergent-steriliser (Sodium Hydroxide and Sodium Hypochlorite)

1. Wash outside of clusters, attach jettors and remove milk filter
 2. Rinse plant with 14 litres (3gls) of water per unit (cold or warm)
 3. Add **liquid detergent-steriliser** at the recommended rate to hot water (65-75°C), allowing 9 litres (2gls) per unit
 4. Circulate the hot solution for 8-10 min, allowing first 5 litres to run to waste, the solution may be retained for the 2nd daily wash (if retained; discard after the second daily wash)
 5. Rinse the plant immediately after the main wash cycle with 14 litres (3gls) of cold water per unit
 6. Ensure the system is drained before the next milking
- **Once weekly:** After step 2, add an acid descaler (**milkstone remover**) at the recommended rate to hot or cold water, allowing 9 litres (2gls) of water per unit
- Circulate the solution for 8-10 min and discard
 - Rinse plant with 14 litres (3gls) of cold water per unit
 - Continue with steps 3, 4, 5 and 6

Optional extra: After step 5 is complete, **Peracetic acid** may be added as a steriliser, at the recommended rate to **an additional** rinse water cycle

Routine B: Cold cleaning

Detergent powder (sodium hydroxide, chlorine free)

1. Wash outside of clusters, attach jettors and remove milk filter
2. Rinse plant with 14 litres (3gls) of cold water per unit
3. **Add the detergent powder** at the manufacturer recommended usage rate to cold water, allowing 9 litres (2gls) per unit
4. Circulate the solution for 8-10 min; allowing first 5 litres to run to waste. Solution may be retained for the second daily wash. **Leave the stain of the solution in the milking plant until just before the next milking**
5. Just before the next milking, rinse with 14 litres (3gls) of cold water per unit
6. Ensure the system is drained before milking

- **Once weekly:** After step 2, add an Acid descaler (**milkstone remover**) at the manufacturers recommended usage rate to hot water
 - Circulate the solution for 8-10 min and then discard
 - Rinse plant with 14 litres (3gls) of cold water per unit
 - Continue with steps 3, 4, 5 and 6
- **Once weekly:** At step 3, add Sodium hypochlorite (**chlorine**) to the detergent powder solution at the manufacturer recommended rate in **hot water** (65-75°C). (A combined detergent-steriliser product may be used as an alternative to using these two individual products). Continue with steps 4, 5 and 6. Both ‘once weekly’ washes may be conducted on the same cleaning occasion.

Optional extra: After step 5 is complete, **Peracetic acid** may be added as a steriliser, at the manufacturer recommended usage rate to **an additional** rinse water cycle

Routine C: Non-chlorine cleaning

Detergent /acid cleaner (Sodium hydroxide and phosphoric acid)

1. Wash jettors and outside of clusters and remove milk filter
2. Rinse plant with 14 litres (3gls) of water per unit (cold or warm)
3. After the morning milking, **add liquid detergent (non-chlorine)** at the recommended rate to hot (65-75°C) water, allowing 9 litres (2gls) per unit
4. Circulate the solution for 8-10 min; allowing the first 5 litres to run to waste. **Leave the stain of the solution in the milking plant until just before the next milking**
5. Just before the next milking, rinse with 14 litres (3gls) of cold water per unit
6. Ensure the system is drained before milking

After each evening milking replace the liquid detergent (non-chlorine) product (Step 3) with an **Acid** cleaning product
(Phosphoric acid + surfactant cleaners)

- added at the recommended rate to cold or hot water (65-75°C), allowing 9 litres (2gls) per unit
- Circulate for 8-10 min; allowing the first 5 litres to run to waste and then discard.
- Follow immediately by rinsing with 14 litres (3gls) of cold water per unit

Routine D: **Hot Detergent-steriliser/acid cleaning**

(Sodium hydroxide-Sodium Hypochlorite and phosphoric acid)

1. Wash jettors and outside of clusters and remove milk filter
2. Rinse plant with 14 litres (3gls) of water per unit (cold or warm)
3. After the **morning milking**, add **liquid detergent-steriliser** or a powder product which contains chlorine at the manufacturer recommended usage rate to hot water (65-75°C), allowing 9 litres (2gls) per unit
4. Circulate the solution for 8-10 min, allowing the first 5 litres to run to waste, and discard when circulation is complete
5. Rinse the plant immediately with 14 litres (3gls) per unit of cold water
6. Ensure the system is drained before the next milking

After each **evening milking**: (step 3), replace the detergent-steriliser product with an **Acid** cleaning product (**phosphoric acid + surfactant cleaners**)

- at the recommended rate to cold water, allowing 9 litres (2gls) per unit
- Circulate the solution for 8-10 min allowing the first 5 litres to run to waste and discard when circulation is complete
 - Continue with steps 5 & 6.