<table>
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<th>CYCLE</th>
<th>PURPOSE</th>
<th>TEMPERATURE RANGE</th>
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| **1st** | **PRE-RINSE** | • Removes milk solids and dirt  
• Warns milk line  
• Ensures detergent is not diluted during wash |  
**Start**  
46-60°C (115-140°F)  
**End**  
>36°C (>100°F)  
• Do not recirculate water  
• Temperature: Ensure water is not too hot  
  - A hot rinse will cook milk proteins onto surfaces |
| **2nd** | **WASH**  
Chlorinated alkaline detergent | • Removes fat, protein, and other organics (i.e. bacteria) |  
**Start**  
71-76°C (160-170°F)  
**End**  
>43°C (110°F)  
• Follow manufacturer directions  
• Cleaning solution:  
  - pH = 11-13  
  - Chlorine = 100-200 ppm  
• Water quantities:  
  - Depends on hardness – may need softener  
  - Length = 6-10 minutes  
  - Slugs = 20/wash  
  - Flow rate = 7-10 m/sec |
| **3rd** | **ACID RINSE** | • Removes detergent  
• Prevents mineral build-up  
• Prevents bacterial growth  
• Maintains condition of rubber parts |  
• pH = 2-3  
• Add acid rinse to cycle after each milking  
• DO NOT mix acid detergent with a chlorine-based product, as a toxic lethal gas could result |
| **4th** | **SANITIZATION** | • Disinfects system prior to milking |  
• Chlorine = 100-200 ppm  
• Run cycle no more than 30 minutes prior to milking  
• Time = 3-4 minutes |


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