



## Chlorine Free Milking Machine Wash Routines

### **Option 1: Liquid Detergent Hot or Cold (e.g. "Multisan CF")**

1. Wash outside of clusters, attach jettors and ensure milk filter has been removed.
2. To rinse machine, put 14 litres/unit of cold clean water through the plant.
3. The wash solution should consist of 425mls of "**Multisan CF**" to 45 litres of cold water and it should circulate for 8-10mins for best results. **This is enough wash solution for 5 milking units.**
4. When using hot water (Minimum 60<sup>o</sup>c), the wash solution should consist of 300mls of "**Multisan CF**" to 45 litres of water and it should circulate for 5-8mins for best results. **This is enough wash solution for 5 milking units. It is best to use this product hot 3 times weekly.**
5. It is recommended to have 9 litres/unit for the wash solution.
6. Only the cold wash solution can be recycled and used again; **the hot wash solution must be discarded.**
7. This solution must not be left in the line between milkings so **step 2** should be repeated after 8-10mins.
8. Peracetic Acid "**Serpent**" 30mls/22.5litres should be flushed through the line to sterilise between milkings and this can be added to the final rinse. **This product does not need to be rinsed out before the next milking.**
9. **Once Weekly, to ensure complete Protein removal Add 150mls of Blast per 45 litres of Hot Multisan CF solution used and wash as normal.**

### **Option 2: Powder Detergent - (e.g. "QsanTurboClean", "Hydrosan Plus", "Circodine CF")**

1. Wash outside of clusters, attach jettors and ensure milk filter has been removed.
2. To rinse machine, use 14 litres/unit of cold clean water through the plant.
3. The wash solution should consist of 227gms of "**Powder Detergent**" to 45 litres of Cold or Hot water (Minimum 60<sup>o</sup>c) and this should be circulated for 8-10mins cold and 5-8mins hot for best results. **This is enough wash solution for 5 milking units. It is best to use this product hot 3 times weekly.**
4. Only the cold wash solution can be recycled and used again; the hot wash solution must be discarded.
5. This solution must not be left in the line between milkings so step 2 should be repeated once the wash solution is finished.
6. Peracetic Acid "**Serpent**" 30mls/22.5litres should be flushed through the line to sterilise between milkings and can be added to the final rinse. **(This product does not need to be rinsed out before the next milking). Please see label for instructions.**
7. **If using "Qsan TurboClean" or "Hydrosan Plus" once weekly, to ensure complete Protein removal add 150mls of Blast per 45 litres of Hot solution and wash as normal— No need to use Blast with "Circodine CF"**

### **Once a Week: Descale Hot Wash (e.g. "Qsan Acid Descaler")**

1. Wash outside of clusters, attach jettors and ensure milk filter has been removed.
2. To rinse machine, use 14 litres/unit of cold clean water through the plant.
3. The wash solution should consist of 450mls of "**Qsan Acid Descaler**" to 45 litres of hot water (Minimum 60<sup>o</sup>c) and should be circulated for 5-8mins for best results.
4. After 5-8mins this solution should be discarded and step 2 must be repeated. Use main detergent ("**Multisan CF**", "**TurboClean**", "**Hydrosan Plus**" or "**Circodine CF**") cold or hot at the recommended rate as in option 1 and circulate again for 8-10mins.
5. Then repeat step 2 and add Peracetic acid as a steriliser if required.



## Bulk Tank Washing

### Auto Wash: Liquid Detergent Hot (e.g. "Multisan CF")

1. Wash bulk tank with a hot solution (Minimum 60°C) of "Multisan CF" Detergent.
2. The detergent dose rate should be set at a rate of 300mls of "Multisan CF" per 45 litres of water required.
3. If 2 or 3 dosing pumps are fitted- Serpent (peracetic acid) can be added to final rinse at a rate of 30mls/22.5litres of rinse water.

### Manual Wash: Liquid Hot Detergent or Sodium Hydroxide Powder (e.g. "Multisan CF" or "TurboClean", "Hydrosan Plus," "Circodine CF")

1. Rinse tank thoroughly with Cold water to remove all milk residues.
2. Wash Bulk tank with a hot Solution (Minimum 60°C) of "Multisan CF" (300mls/45 litres) or TurboClean", "Hydrosan Plus , "Circodine CF"" (227g/45 litres) using a good quality Bulk Tank Brush.
3. Rinse tank again thoroughly with Cold water to remove all cleaning residues.

### Descale Wash: Descale Hot Wash (e.g. "Qsan Acid Descaler")

1. The Bulk Tank will require a descale wash once weekly or every 3<sup>rd</sup> wash whichever comes first.
2. This should be done with an Acid Descaler ("Acid Descaler") in Hot Water (Minimum 60°C) at a rate of 450mls/45litres.
3. If Serpent is used in Final Rinse, the requirement for acid descaling will not be necessary
4. **If the tank is being manually washed then a liquid hot detergent or sodium hydroxide powder wash program should be used. Follow the steps 1-3 under "Manual Wash".**

## Weekly Wash Routine for Plant

	Morning	Evening
Mon	<b>Cold Detergent</b> - Circodine CF/Multisan CF Recover for pm wash. Use <b>Serpent</b> in Final Rinse.	Use recovered Detergent from <b>am</b> and dump after use. Use <b>Serpent</b> in Final Rinse
Tue	<b>Cold Detergent</b> - Circodine CF/Multisan CF Recover for pm wash. Use <b>Serpent</b> in Final Rinse.	Use recovered Detergent from <b>am</b> and dump after use. Use <b>Serpent</b> in Final Rinse
Wed	<b>Hot Detergent Circulation</b> - CircodineCF/Multisan CF dump after use. Use <b>Serpent</b> in Final Rinse.	Rinse Plant with cold water (14 litres/unit). Use <b>Serpent</b> in Final Rinse.
Thur	<b>Cold Detergent</b> - Circodine CF/Multisan CF Recover for pm wash. Use <b>Serpent</b> in Final Rinse.	Use recovered Detergent from <b>am</b> and dump after use. Use <b>Serpent</b> in Final Rinse
Fri	<b>Cold Detergent</b> - Circodine CF/Multisan CF Recover for pm wash. Use <b>Serpent</b> in Final Rinse.	Use recovered Detergent from <b>am</b> and dump after use. Use <b>Serpent</b> in Final Rinse
Sat	<b>Hot Descale</b> using "Qsan Acid Descaler" Rinse Plant with cold detergent solution Circodine CF/Multisan CF. Recover for pm wash. Use <b>Serpent</b> in Final Rinse.	Use recovered Detergent from <b>am</b> and dump after use. Use <b>Serpent</b> in Final Rinse
Sun	<b>Cold Detergent</b> - Circodine CF/Multisan CF Recover for pm wash. Use <b>Serpent</b> in Final Rinse.	Use recovered Detergent from <b>am</b> and dump after use. Use <b>Serpent</b> in Final Rinse
Mon	<b>Cold Detergent</b> - Circodine CF/Multisan CF Recover for pm wash. Use <b>Serpent</b> in Final Rinse.	Use recovered Detergent from <b>am</b> and dump after use. Use <b>Serpent</b> in Final Rinse
Tues	<b>Hot Detergent Circulation</b> - CircodineCF/Multisan CF dump after use. Use <b>Serpent</b> in Final Rinse.	Rinse Plant with cold water (14 litres/unit). Use <b>Serpent</b> in Final Rinse.