

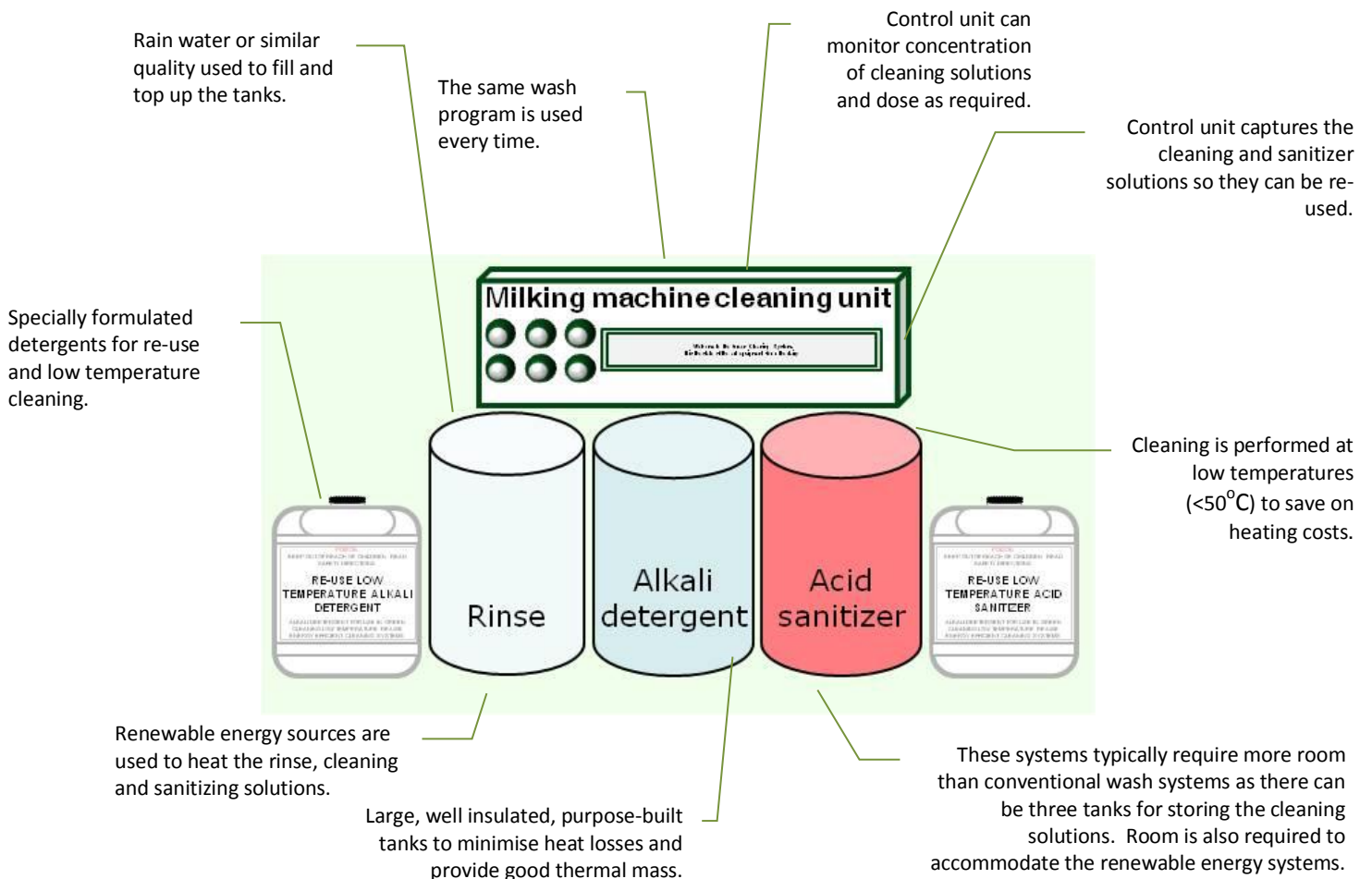
# Green Cleaning™ Systems

low temperature ♦ re-use ♦ energy efficient

## Fact Sheet #2. Green Cleaning™ systems – a closer look

### System features

Green Cleaning™ systems are commercially available milking machine wash systems that operate at low temperatures, re-use the cleaning solutions and are energy efficient. They are quite different from the conventional wash systems seen on most Australian dairy farms. The diagram below describes some of the components of the new systems.



## Additional components

Some Green Cleaning™ systems will use renewable energy or waste heat streams to heat the chemical solutions in the storage tanks. This can include:

- Heating the pre-rinse water from the milk via a plate heat exchanger;
- Heating the chemical detergent and sanitizer solutions in the storage tanks with waste heat from the refrigeration unit or vacuum pump;
- Heat the chemical detergent and/or sanitizer solution in the storage tanks using solar or another form of renewable energy.

A clean water supply is needed for rinsing the plant and topping up the tanks. Although the volumes needed are pretty small (300 – 600 L/day), separate storage tanks, filters and/or treatment for the water supply may be required.

## Hot water service

Large dairy hot water services are not required by the Green Cleaning™ system so could be removed from the dairy. A small domestic hot water service (new or existing) may still be required for general dairy use, as will the hot water service required for vat washing.

## Further information

Contact your local milking machine equipment or dairy detergent supplier for more information. Also refer to the following fact sheets about Green Cleaning™.

- Green Cleaning™ Fact Sheet #1. What are Green Cleaning™ systems?
- Green Cleaning™ Fact Sheet #3. Frequently asked questions
- Green Cleaning™ Fact Sheet #4. Economics of Green Cleaning™ systems
- Green Cleaning™ Fact Sheet #5. Summary report – On farm trial
- Green Cleaning™ Fact Sheet #6. The total costs of milking machine cleaning

More information is available at [www.agvetprojects.com.au/greencleaning](http://www.agvetprojects.com.au/greencleaning).