Why dairy farmers are switching to GAS HOT WATER
ELIMINATES GRADES CAUSED BY WATER HEATING PROBLEMS

Dairy shed cleaning systems are designed to heat water above 80°C to allow the detergents to circulate at a minimum working temperature of 65°C after allowing for heat losses in the system. If you aren’t able to heat enough water to 85°C in time for each wash cycle you will reduce the effectiveness of your chemicals and risk getting grades due to increased bacterial growth. With a Bosch dairy hot water system you programme it to deliver all the hot water you need right when you need it. It won’t run out. It won’t drop below optimum working temperature in your plant.

IMMEDIATE POWER SAVINGS GUARANTEED

This could be the only farm investment that actually pays for itself. While power savings depend on your hot water usage one of our farmers has been saving 45% of his water heating costs, even though he is now using more hot water compared to last season. So the sooner you get it installed the greater the payback.

HOT WATER WHEN YOU NEED IT 24/7

This Bosch hot water system will deliver 600 litres of hot water at 85°C in less than an hour.

MORE TIME TO RELAX WITH PROGRAMMABLE SETTINGS

You can set multiple start times on the programmable controller to start the heating cycle so the water is up to temperature exactly when you need it. You get to sleep in a bit longer.

INSTALLED BETWEEN MILKINGS, SO NO HOLD-UPS

Your Bosch hot water system can be installed without any disruption to your milking routine so there’s no need to plan it as a winter installation.

SPECIFICATIONS

Retro system

The Retro system retrofits to your existing hot water cylinder/s. It comes complete with the Bosch dairy hot water kit which includes a Bosch 32 continuous flow commercial gas water heater, the patented Bosch valve, a recirculation pump, and a controller for programming hot water schedules. The Retro system also includes a 55°C instant hot water supply tap and hose which completely eliminates the hazard of filling buckets with 85°C water straight from your cylinder.

ESTIMATED SAVINGS OVER 10 YEAR PERIOD

The calculation above is based on known available data for a base installation and represents average hot water consumption for a 4-500 herd-size farm. Both electricity and gas rates have a 3% annual increase to represent potential shifts in CPI.
**Skid system**

The Skid system incorporates all elements of the Retro system but is prefabricated within a compact stainless steel frame and includes an insulated 2205 grade stainless steel horizontal hot water tank and all new fittings.

This can be fabricated to fit over your existing dump tank or we can incorporate a new insulated stainless steel dump tank. The components of the Bosch kit and the 55°C instant hot water supply are all mounted within or on the frame for space saving.

The Skid system is a cost effective solution if you are frequently replacing your copper cylinders. If you are planning a new shed build in the future you can relocate the skid as one unit into your new shed which can be built with a lower roof profile since the horizontal tank requires less height.

**Gas supply**

The gas installation is different for each farm depending on dairy shed layout and location of the farm. We will assess this for you and price accordingly.

LPG is supplied in cylinders to suit your application and on a rotation that suits your requirements. These are installed a little way from the shed and piped underground to the Bosch gas water heater.

Depending on location you may be able to utilise one or two 210kg (411L) cylinders complete with a changeover regulator. These gas cylinders are filled on-site by a bobtail truck. Alternatively you will require a bank of 45kg (88L) cylinders with changeover regulator and manifold.

We supply manifolds, regulators, and a platform to securely house the bottles.

We recommend and can put you in touch with Elgas, our preferred gas supplier.
Installation

Installation of the whole system takes two days and these don’t need to be consecutive. On day one all of the gas pipe work is fabricated so the site can be certified by our gas inspector and on day two the dairy hot water system is connected and ready to be used without any disruption to milking.

Once you have programmed your preferred heating times into the controller the system will automatically heat the water to the required temperature ready for when it is needed.

Options to consider

» Insulated duplex 2205 stainless steel hot water tanks – corrosion resistant for problem water areas
» Insulated stainless steel and plastic dump tanks
» Adjustable volume header tanks that allow you to simply adjust water volumes for extra vat cleaning during the spring flush
» Replacement of corroded galvanised fittings with stainless steel options

ABOUT BOSCH

Bosch is an internationally renowned company known for its innovation and is the name behind some of the world’s most trusted products and appliances.

ABOUT LONGVELD

Longveld is a manufacturer based in Hamilton. The company has traditionally supplied a range of fabricated products to New Zealand’s dairy industry since 1992, including most of the country’s milk tankers. Longveld On Farm is a division of the company developing new products and services for dairy farmers, utilising our extensive knowledge of dairy industry processes.

Together the two companies bring you this dairy hot water system for New Zealand dairy farmers

0800 LONGVELD
(0800 566 483)

or email Sonia Wilkinson at s.wilkinson@longveld.com

www.dairyhotwater.co.nz