



**Challis**  
Water Controls

## CASE STUDY

**SECTOR:** Defence

**CLIENT:** MOD

**CONTRACTOR:** SEC

**LOCATION:** Sandhurst Block Borden Garrison

**PROJECT DESCRIPTION:** Borden Garrison, located 10 miles from Aldershot, the home of the British Army and one of the largest garrisons in the UK. Accommodation consists of a number of classic Sandhurst blocks. These blocks accommodate approx 300 soldiers with 37 communal showering areas and associated washrooms and WCs, all of which were supplied on a gravity fed basis by 32 water tanks situated in the roof space of the building. Pumps were then fitted to each communal shower area to boost the performance to the required level



**CUSTOMER REQUIREMENTS:** The Sandhurst Block accommodation was due refurbishment as many of the water storage tanks in the roof space were reaching the end of their useful life and were due for replacement. Taking into consideration the capital cost involved in replacing the tanks the client wanted to take this opportunity to consider alternate systems as replacement. Over a number of years the costs of maintenance of the water tanks, anti legionella cleaning and preventative measure have increased and the clients requirement were to reduce these costs or if possible negate them completely. Along with the savings the customer also required improvements in the levels of performance i.e. adequate storage to cope with peak demand requirements coupled with high pressure showering performance at all outlets

**UNITS FITTED:** 36 x 450 Litre Mainsboost Kits

**SAVINGS ACHIEVED:** As the Mainsboost cylinders are pressurized and are installed directly on to the incoming mains supply they are classed as part of the mains supply system as such there is no requirement for any preventative legionella measures. Coupled with the nil requirement for pumps and the maintenance and running costs associated significant savings can be achieved annually and also over the 5 year guarantee period of the mainsboost system.

**Total Savings £18,000 per annum Total Saving Over 5Year Period £90,000**

**Payback period 12 Months**



A.L.Challis Limited, Europower House, Lower Road, Cookham, Maidenhead, Berkshire, SL6 9EH  
Web: [www.alchallis.com](http://www.alchallis.com) Tele: 01628 529024 Fax: 0870 4580577 e-mail: [info@alchallis.com](mailto:info@alchallis.com)



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Current Tanks Pumps & Equipment Requirements		Annual Costs £	Mainsboost System Requirements		Annual Costs £
Annual Tank Cleaning & Maintenance	✓	16,000	Annual Tank Cleaning & Maintenance	X	0
COSHH	✓	See Above	COSHH	X	0
Annual Pump Maintenance	✓	1500	Annual Pump Maintenance	X	0
Pump Running Costs Annual	✓	500	Pump Running Costs Annual	X	0
Total Annual Costs		18,000	Total Annual Costs		0
Total Cost Over 5 Year Period		<b>90,000</b>	Total Cost Over 5 Year Period		0

**CUSTOMER COMMENTS & CONCLUSIONS: Saving in both anti legionella measures, maintenance and energy requirements have exceeded our expectations. Our experience of the units is that they have been reliable and robust at the same time providing vastly improved levels of performance.**



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