

“AUTOWASHER”

Case Study

Vehicle used: 740 Volvo wagon (Surface area 23 m²)
(similar to Falcon/Holden)

Volume of Water used in “Autowasher” 11 litres

The pressurized apparatus was used to dampen the whole of the vehicle surface. Surface washing by hand-held soaped sponge followed (extra volume of soaped water used 2 litres). The rinse-off by power spray was completed with the residual volume from the original 11 litre fill. In the trial case the Autowasher reservoir still held 2.5 litres. *(This volume is conservatively disregarded so that in the calculations below the percentage savings are minimum figures)*

Safety Note: The pressure relief valve was checked to relive at 342 kPa (50 psi)

Comparison: For an affective car wash the ‘Autowasher’ used 8.5 litres of water plus 2 litres of make-up soaped water compared with Sydney water’s allowance of 11 buckets (99 litres)

Water Used:	Autowasher:	8.5 litres
	Soapy wash :	<u>2 litres</u>
	Total :	10.5 litres

This represents a Water Saving of 90 % over Sydney Water’s bucket wash allowance of 11 buckets (99 litres) or (95% over 120 l hose wash allowance)

Conclusion / Comment: If the full 11 litre reservoir of the “Autowasher” plus 2 litres of soaped washing water is used an affective wash on ‘standard’ vehicle with minimum saving of 86%

Thomas, 3 MARCH 2006.