

SERIES GHD

KIRTON
WHEREVER WATER IS RECYCLED



KIRTON GHD VEHICLE WASH WATER RECYCLING SYSTEM

- ~ Can permit washing during water shortages
- ~ Protects your car wash and site income
- ~ Reduces water costs
- ~ Reduces pollution and water consumption, saving the environment
- ~ SPOTLESS rinse system reduces spotting and streaking compared with mains water washing
- ~ Water storage tanks included
- ~ Can operate on 20mm water supply, no need for expensive 50mm water supply

Kirton Engineering Limited
Old Station Close, Shepshed, Leicestershire LE12 9NJ England
Tel: +44 (0) 1509 504565 Fax: +44 (0) 1509 600011
E-mail: sales@kirton.co.uk Website: www.kirton.co.uk



SERIES GHD



INTRODUCTION

We have been manufacturing vehicle wash water recycling systems for over a quarter of a century; and thousands of systems are installed worldwide. The GHD system is designed to recycle the water from typical forecourt installations where detergents and drying acids are used, and can be used with either rollover, touchless or conveyor systems. In addition to providing excellent water quality results within its standard operation, the GHD range can also be specified with the R.O. spot free rinse option to eliminate the white spotting and streaking of windows and bodywork. This is particularly advisable in hard water areas or wherever a high quality wash finish is preferred.

FEATURES

The equipment is designed to work with moving gantry or conveyor washes using hot and cold wax, shampoo and rinse aid. Chemicals should be approved by us. The treatment plant consists of split storage tanks mounted on a common base plate complete with electroflocculation system, multi-cyclone, pumps, stainless steel activated carbon filter, prefilter and reverse osmosis system.

CONSTRUCTION

Fabricated in stainless steel grade 304. The unit is also available with a weather proof canopy for external siting with heaters for frost protection if required.

ADVANTAGES

Water supply can be restricted in some areas and such a system can be beneficial. Water companies and environmental agencies are becoming particularly concerned with the quality of effluent discharge consent limits. In certain circumstances consent is not given or effluent charges are high. Where there is no drainage available our Water Recycling System can permit the installation of vehicle washing installations as all the water is recycled.

SPOTLESS RINSE WATER

The GHD is available with a reverse osmosis system and its inclusion is strongly recommended to improve the wash quality. The use of the spot free facility greatly improves the drying action of the car wash and virtually eliminates spotting and streaking. Car washes using our spot free reclaim system can attract more customers to a better quality wash, increasing your income and customer satisfaction.

OPERATION

Water used during the vehicle washing and rinsing cycles is gathered in the below ground collection tank. Although the plant is not designed to cope with substantial quantities of free oil, the oil normally present during vehicle washing operations is removed by absorbent cellulose pads which are located in the settlement tank. Floating coarse debris is trapped and settlement of grit and coarse sandy material also occurs in this tank. The sump tank transfers the water via a multi-cyclone to the electroflocculation tank. The multi-cyclone separates solids above twenty microns and rejects them with a small amount of water to return to the sump tank. The filtered water enters the electroflocculation chamber containing aluminium anodes and steel cathodes. They are charged at a nominal 6v DC. The aluminium anodes, which are sacrificial, produce aluminium ions which break down and remove wax, detergent, oils and other hydrocarbons. This then is floated using air-flotation back to the sump tank. The clarified water is then passed through an activated carbon filter for the removal of shampoos and final polishing. The equipment should be operated in conjunction with a purpose built collection/interceptor tank. The ultra pure water rinse is provided by passing water through an extremely fine membrane which allows very little dissolved solids to pass, giving virtually pure water compared with the average mains water of 400 mg/l dissolved solids which is very poor quality for vehicle washing. A water softener can be supplied if required, dependent on the mains water hardness.