

SERIES HC

KIRTON
WHEREVER WATER IS RECYCLED



KIRTON HC VEHICLE WASH WATER RECYCLING SYSTEM

- ~ May permit washing during water shortages
- ~ Reduces water costs
- ~ Reduces pollution and water consumption, helping the environment
- ~ SPOTLESS rinse system option reduces spotting and streaking by 99% compared with mains water washing (optional extra) improves your company's image
- ~ Water storage tanks included
- ~ Will operate on 20mm water supply, no need for expensive 50mm water supply

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INTRODUCTION

Kirton Engineering has been manufacturing vehicle wash water recycling systems for over a quarter of a century, and thousands of systems are installed worldwide. The HC system is designed to recycle the water from commercial washes of either roll-over or drive through type. In addition to providing excellent water quality results within its standard operation, the HC range can also be specified with an RO spot free rinse to eliminate the white spotting and streaking that can appear especially on windows. The HC system is generally installed on bus and coach washing systems.

SPECIFIC MODEL SELECTION

The particular reclaim unit needed is specified according to the water usage of the wash machine in gallons or litres per minute, i.e. a rollover wash machine using a total of 32gpm would need a HC 35 to match this usage. If a drive through wash is used with 45gpm consumption on the wash machine with 32gpm consumption on the rinse cycle the HC50/35 would be specified. If a partial reclaim system is required then the consumption of the wash cycle only needs to be taken into account. The figure that the HC design reflects the throughput of the recycling system in gallons per minute which must match or exceed the throughput of the wash machine.

HC capacities can be specified to match larger, more powerful wash machines of any type, including partial reclaim applications.

CONSTRUCTION

Fabricated in either polypropylene or stainless steel grade 304D the tanks are skid mounted with a base plate to form a compact unit of either open construction or can be supplied fully enclosed with doors.

ADVANTAGES

In some parts of the county water companies are having to restrict water use by refusing to supply water for vehicle washing or to increase the size of supply. Water companies and environmental agencies are becoming particularly concerned with the quality of effluent discharge and are placing stricter controls and discharge consent limits. In certain circumstances either 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.

OPERATION

Water used during the vehicle washing and rinsing cycles collects in the below ground collection tank CT or ST range. Larger particles of sediment, together with small amounts of oil or diesel washed from the vehicle and floating debris is held in the collection tank. Water is drawn from the third chamber of the collection tank and passed to the multi-cyclone which separates particles larger than 20 microns and rejects them with a small quantity of water back to the collection tank. The cleaned water in the above ground unit (HC) is then passed through the activated carbon filter which removes the detergent. The water is drawn from the HC unit by the wash machine pump. Please note that all detergents should be of a non-ionic or anionic type and having a neutral pH at working solution strengths. If the RO spot free rinse is specified the RO water is supplied either direct to two nozzles mounted on the wash bay screen or through the wash machine itself.