

BRITANNIA
WASHING
SYSTEMS



**Commercial vehicle washing
plant manufacturers**

DESIGN . INSTALL . SERVICE

RC200SL
Slimline Reclaim Full System
Operations Manual



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Foreword

Who should read this manual



This Manual will provide the information required for the safe operation of Britannia wash products as required by the Provision and Use of Work Equipment Regulations (for the UK). It does not replace the need for Operator Training if defined by the law or guidance of the country of operation.

Equipment Operator

Equipment Operators are defined as the legal entity, such as a company or other corporate body, putting the equipment into use as defined under the Provision and Use of Work Equipment Regulations (for the UK).

This manual should be read and its guidance considered by a suitable person of the Equipment Operator that has responsibility for the Safe use of work equipment at Equipment Operator premises.

Equipment Users

Equipment Users are defined as those personnel who will use the equipment on a frequent basis. They are not expected to have any specific maintenance training but should read the contents of this manual before using the equipment.

On-Site Competent Maintenance Personnel

Equipment Operators may have on-site maintenance personnel considered as competent to carry out certain, limited, maintenance procedures, over and above that of the Equipment Users. This manual will specifically highlight those tasks that require this level of personnel.

Identification of personnel who are considered as competent to carry out these additional tasks is the responsibility of the Equipment Operator. Factors such as general mechanical maintenance experience and/or training should be taken into consideration. Consult Smith Bros & Webb for any guidance required for this assessment.

These competent persons should read this manual before attempting any maintenance activities on the equipment.

Smith Bros & Webb Maintenance Technicians and Installers

Only personnel trained and duly authorised by Smith Bros & Webb may carry out installation of this equipment.

Maintenance procedures which are deemed unsuitable to be carried out by **On-Site Competent Maintenance Personnel** must only be undertaken by Smith Bros & Webb authorised personnel or their duly authorised representatives.



Introduction

Overview

Purpose

The RC200SL (Slimline) water reclaim system is a bespoke designed system for the treatment of water used in the washing of vehicles by automated wash machines such as those designed by Smith Bros & Webb Ltd.

Traditionally, vehicle washes collect water by gravity from the wash pad into a collection/interceptor tank underground.

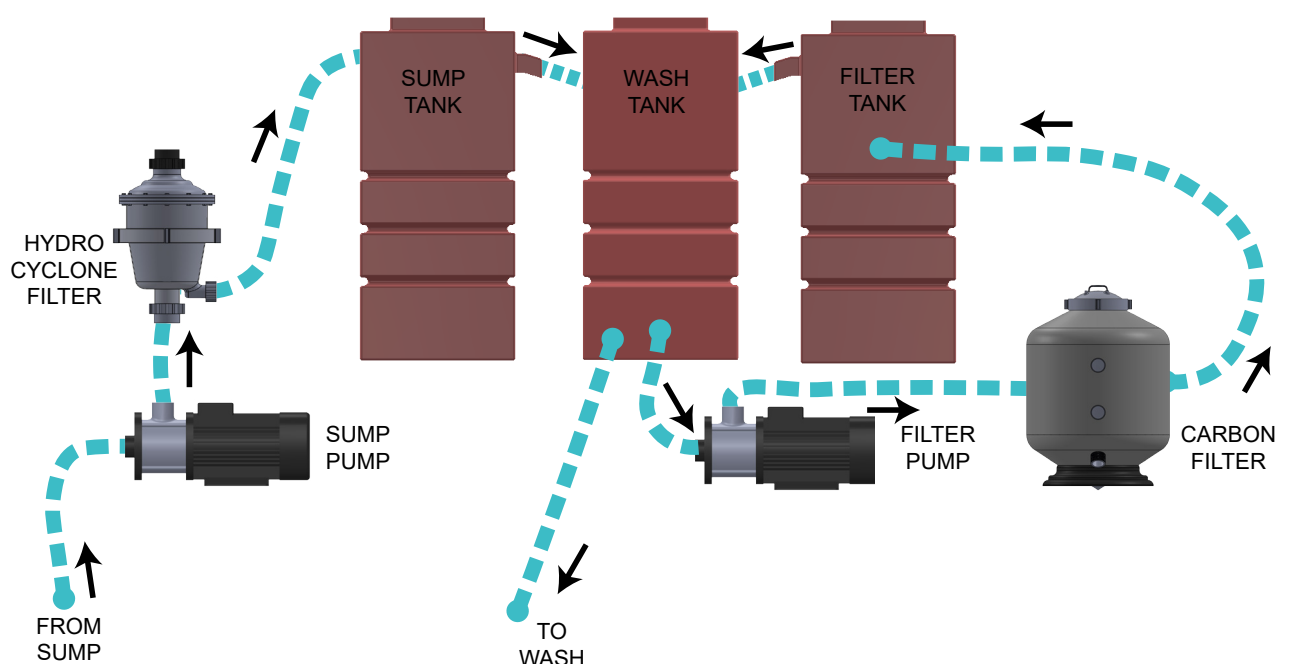
Interceptors usually have traps and filters built in to collect oils, silt, and foreign objects. Excess water from the interceptor will usually weir to the local foul drain, thus being wasted.

The Reclaim system is an additional piece of equipment designed to enable such collected water to be filtered and treated so as to allow it to be reused several times. Hence, greatly reducing the amount of water used in the daily wash processes.



The interceptor tank requires its own schedule for maintenance over and above instruction provided in this manual. Failure to prepare and observe such schedule may lead to Wash machine damage and / or be hazardous to health.

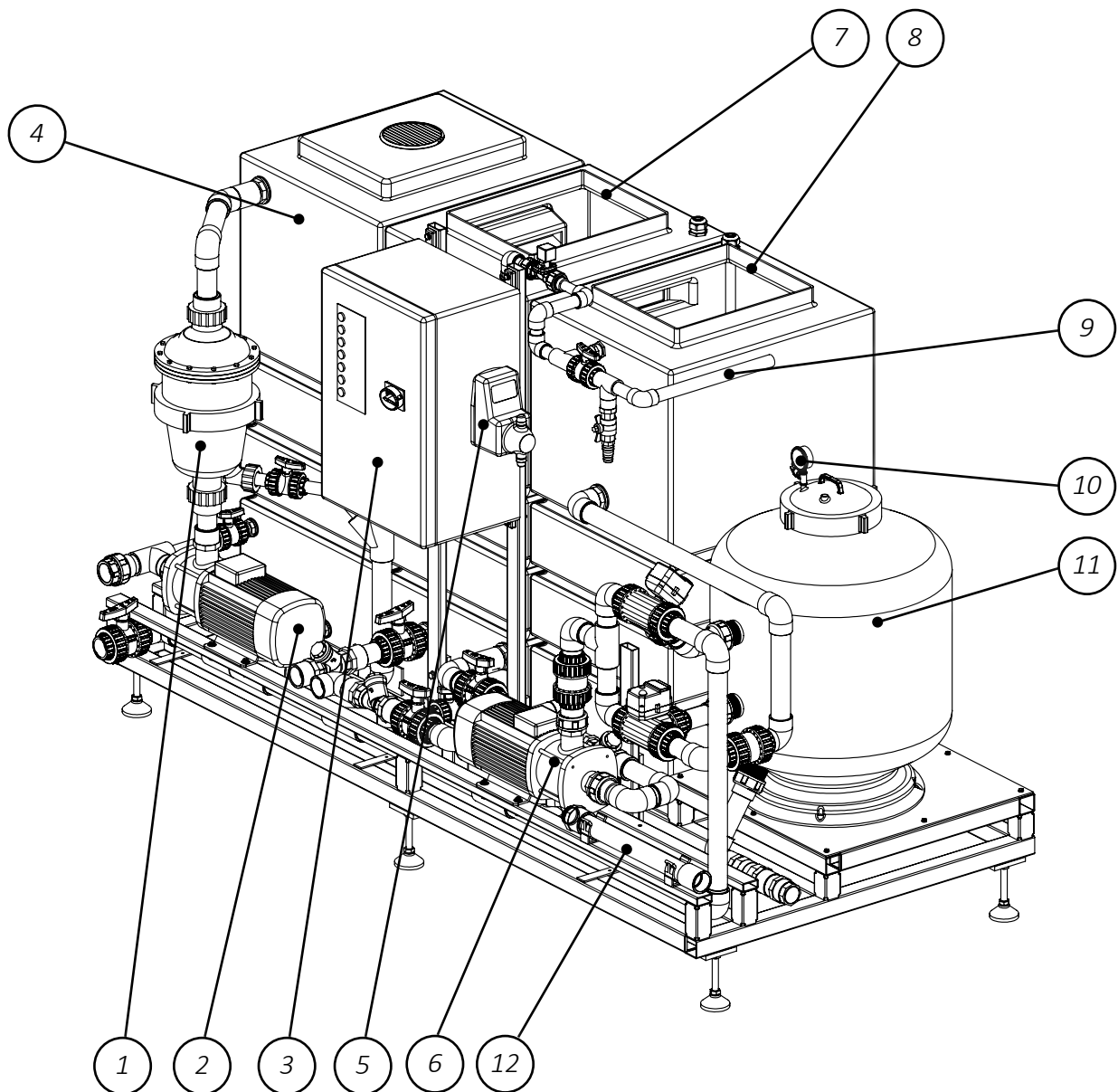
The Operational cycle





Description

Operational components of the Slimline Reclaim system





Equipment Operator Responsibilities

Legionnaires Disease



In the UK, over and above the general requirements of The Provision and Use of Work Equipment Regulations, the Equipment Operator has specific requirements applicable to their operation. In all events the requirements of Health and Safety Executive Technical Guidance should be considered and adhered to.

There is specific guidance relating to the risk from exposure to Legionnaires- HSG 274, specifically part 3.

Legionnaires Disease is a bacterial disease that is found in water. It multiplies when the water temperature is between 20 – 45 ° C and nutrients are present. The bacteria is dormant below 20 ° C and cannot live above 60 ° C.

It is contracted by breathing in water droplets containing Legionella bacteria and can manifest into a fatal form of pneumonia with the elderly, ill and people with respiratory disease being at particular risk.

By nature of design the wash machine normally accompanying this Reclaim system could spread any bacteria from its spray nozzles when washing or rinsing a vehicle. Steps have been taken in the design of the machine but this must be monitored and maintained by trained engineers and guidelines from the Health & Safety Executive followed.

On request, Smith Bros & Webb can assist with the carrying out of a Legionnaires Risk Assessment and provide services such as remote monitoring and water sampling/testing.



It is a legal responsibility of any Equipment provider/ to carry out a Legionnaires Risk Assessment. The results of which may determine other action than that provided in this manual. This may include:

- *Routine Water sampling and inspection*
- *Temperature monitoring*
- *Additional dosing requirements.*

Professional assistance should be sought in relation to Legionnaires Risk Assessment.

Fault Finding

Diagnosing cause of failure

The following tables give guidance on clearing possible Reclaim system faults. In all cases the person who has authority to carry out is defined in the WHO column. Where *Operator* is specified this work should only be carried out by an **On-Site Competent Maintenance Personnel** as defined in the Foreword section of this manual. Where *SBW* is specified, Smith Bros & Webb should be contacted and an engineer visit arranged.

Sump tank does not fill

<u>POSSIBLE CAUSE</u>	<u>REMEDY</u>	<u>WHO</u>
Loss of prime	Re-prime as in installation guide.	SBW
Sump pump/ mesh box or pipework blocked	Clear any obvious debris from around the mesh box	Operator
Sump pump/ mesh box or pipework blocked even after general cleaning	Strip out, clean and re-prime	SBW
Float switch stuck in interceptor.	Clean out interceptor around float switch.	Operator
Float switch broken in interceptor	Replace interceptor float switch	SBW
Pump not running	Examine pump, replace, reset trip in panel.	SBW
Hydrocyclone blocked	Clean to manufactures details	SBW/ Operator
Float switch stuck in wash tank.	Clean out wash tank around float switch.	Operator
Float switch broken in wash tank	Replace wash tank float valve	SBW