

## 5 - STEP GUIDE TO

# Machine Cleaning



### ADD SYSTEM CLEANER

# 1

Add 1 – 2 % Pennine Bioflush System Cleaner by volume to the existing coolant 48 hours ahead of changing the coolant. The machine can be used as normal during this period.

Ensure that all coolant pipes are turned on & fill the sump to the top to allow the cleaner to thoroughly sterilize all areas of the machine.



# 2

### CIRCULATE FLUID

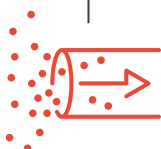
Whilst circulating, the system cleaner will dislodge slime & bacterial sludge deposits from internal pipework & sumps. Removing these contaminants will inhibit the effects of bacterial & fungal growth & eliminate objectionable odours.



### REMOVAL OF FLUID

# 3

After circulation, the coolant should be removed from the sump using a coolant vacuum system, such as a Freddy. The used coolant should then be disposed of by a licensed waste fluid disposal company.



### REMOVE SWarf & CONTAMINANTS

# 4

Any swarf, sludge or debris remaining in the sump should be manually removed. Filtration screens & other key areas should be cleaned before filling with new coolant.



# 5



### REFILL WITH COOLANT

The cleaned system can now be filled with the new coolant, restoring optimal lubrication, corrosion protection & performance. Coolant can be dosed accurately using a Mixtron dosing pump. At this point dilution should be checked to confirm coolant is operating within spec.

