



INSTRUCTION MANUAL

STREAMFLO®

Codes:

SF-TR25L-000

SF-TR25L-072

SF-TR50L-000

SF-TR50L-072

SF-B120-000

SF-B120-072



English

INSTR-SF-TR25L-072

Contents

1.	Responsibilities	
	General Responsibilities	3
	Manufacture Responsibilities	3
	Personnel Responsibilities	3
2.	Technical Specifications	4
	Technical Data	4
	Parts and Accessories	4
3.	Safety Regulations	6
	Personal Safety	6
	System Safety	7
4.	Operating the FILTERPLUS® MOBI® filtration system	
	Unpacking your system	8
	Storage of your system	9
	About your system	10-11
	Charging your battery	12
	How to assemble your system	13
	How to turn your system ON	14- 15
	How to operate your system	16
	How to turn your system OFF	16
5.	Malfunctions and Troubleshooting	17
6.	Maintenance and Replacing Filters	18
	De-ionising (DI) resin filter	19
7.	Disposal of System and Filters	19
8.	Declaration of Conformity	22
9.	Why STREAMLINE®?	23
10.	Warranty Information	24

1

Responsibilities

Responsibilities

General Responsibilities

These operating instructions allows you to use the **STREAMFLO®** filtration system safely and efficiently. The instructional booklet must be read before setting up, starting or using your **STREAMLINE®** equipment. It is an integral part of the product itself.



Please read the warning and instructions contained in this booklet carefully. They provide important information on the safe use and maintenance of the equipment. Pay particular attention to general safety instructions.

Please keep this booklet in a safe place near your **STREAMFLO®** filtration system for future consultation.

Your **STREAMFLO®** filtration system is constructed according to current safety standard and regulations. The latest and current edition is illustrated in this manual.

The contents of this booklet should be bought to the attention of all users.

Manufactures Responsibilities

VARITECH SYSTEMS Ltd, the manufacture of **STREAMLINE®**, holds 12-months warranty on all machines and equipment from the date of purchased (see Warranty section 2)

VARITECH SYSTEMS Ltd, the manufacture of **STREAMLINE®**, is in no case responsible for failures or errors caused by modifications to the unit by customer or other persons.

Personnel Responsibilities

The **STREAMFLO®** filtration equipment is designed and manufactured to be operated in industrial applications. It is important that the operator(s) of the **STREAMFLO®** filtration equipment have read through these operating instructions thoroughly, and understand all safety instructions and regulations.

The **STREAMFLO®** filtration equipment is not intended for use by children, adolescents, persons under the influence of alcohol / drugs or simply lacking experience and knowledge.

These operating instructions are designed to educate the user, informing the operator how to carry out the task at hand successfully, whilst avoiding potential dangers that might occur.

Technical Specifications

Specification Data

PRODUCT CODE	SF-TR25	SF-TR50	SF-TR50
Country of Origin	United Kingdom	United Kingdom	United Kingdom
Maximum Height	115cm	115cm	80cm
Maximum Length	65cm	65cm	152cm
Maximum Width	45cm	50cm	70cm
Dry Weight	31kg	45kg	90kg
Wet Weight	56kg	95kg	210kg
Inlet Pressure Requirement	n/a	n/a	n/a
Optimum Operating Pressure	6.9bar / 100psi	6.9bar / 100psi	6.9bar / 100psi
Standard Water Inlet Connection (Male hose lock)	n/a	n/a	n/a
Pure Water Outlet Connection (Female hose lock)	3/4 inch	3/4 inch	3/4 inch
Electrical Power Supply	12V Battery	12V Battery	12V Battery
Power Consumption	kW	kW	kW
Optimum Water Quality	000ppm	000ppm	000ppm
Water Quality Range	000ppm - 100ppm	000ppm - 100ppm	000ppm - 100ppm
Pure Water Flow (optimum output)	3.8Lpm	3.8Lpm	3.8Lpm
Waste Water Flow	0Lpm	0Lpm	0Lpm
Operating Time	12hours battery life	12hours battery life	12hours battery life

Parts and Accessories

The **STREAMFLO®** filtration system will include the following parts:

- Handheld TDS meter for accurate water readings
- 230V Mains Powered Battery Charger
- Instruction Manual



Safety Regulations

The **STREAMFLO**® filtration system is intended solely for the production of pure water used for cleaning windows, vehicles, solar panels and other hard washable surfaces typically through standard and optional accessories provided by **STREAMLINE**®.

The water cannot be used for human consumption.

Parts and Accessories

Stay alert, watch what you are doing and use common sense when operating the **STREAMFLO**® filtration system. Do not use the filtration system while you are tired or under the influence of alcohol, drugs or medication. A moment of inattention while operating the filtration trolley may result in serious personal injury.

Use personal protective equipment to avoid personal injury:



Protective Gloves



Safety Goggles



Protective Footware

Additional protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection may be required depending on the safety regulations in the operator surroundings.

System Safety

The **STREAMFLO**® filtration trolley is manufactured with the safety of the operator in mind, including some key features such as;



Over Pressure

- If the water pressure in the **STREAMFLO**® filtration system is above the standard 100psi / 6.8bar pressure, the pressure switch will automatically be activated and stop the pump from over pressurizing.
- It is important to never open the filter vessels during operation or whilst under pressure.



Over Heating

- If the pump overheats on the **STREAMFLO**® filtration system, an activation switch is triggered and the system will automatically switch off.



Electrical Hazards

- As the **STREAMFLO**® filtration system is powered by an electrical source, never use the equipment in the rain, snow or strong winds.
- Never use the filtration system to clean people and/or animals.
- Before each use, undertake a visual check on all electrical cables for damage. Never use the filtration system with a damaged cable.



Mechanical Hazards

- To avoid all mechanical hazards, place the **STREAMFLO**® filtration trolley on an even surface only, and ensure sufficient stability.

Use only original accessories that come with the **STREAMFLO**® filtration system, offering maximum quality and security. Failure to use original accessories absolves **VARITECH SYSTEMS Ltd**, the

manufacturer from all liability.

Electrical Specifications and Safety

This applies to all **STREAMFLO®** filtration systems.

Electrical connections must be carried out in respect of current legislation (in compliance with the provisions of the IEC 60364-1 standard) and in accordance with the manufacturer's instructions.

Please check that the installation and sockets are adequate for the maximum power of the appliance indicated on the rating plate. If in doubt, consult a qualified electrician. The correct plug should be fitted by a qualified electrician.

- **VARITECH SYSTEMS Ltd**, the manufacture of **STREAMLINE®** declines all liability for damage to persons, animals or things caused by faulty or incorrect connection.
- Before connecting the equipment, check that the specification given on the rating plate corresponds to that of the mains electrical supply.
- If the equipment is connected via an extension, use cables with an adequate cross section, never less than 1,5 mmq. The plug and socket must be watertight.
- The electrical safety of the equipment is guaranteed only when correctly and efficiently earthed as specified in current electrical safety legislation (in compliance with the provisions of the IEC 60364-1 standard). This fundamental safety requisite should be verified. If in doubt, ask a professionally qualified electrician to check the system thoroughly. It is recommended that the electric supply to this machine should include a residual current device that will interrupt the supply if the leakage current to earth exceeds 30 mA for 30ms or a device that will prove the earth circuit.

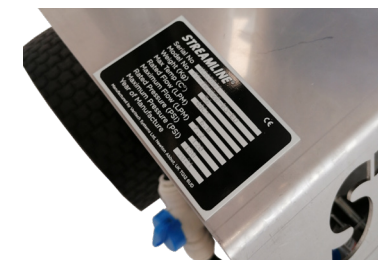
VARITECH SYSTEMS Ltd, the manufactures of **STREAMLINE®**, declines all liability for damage caused by faulty earthing of the appliance.

- The equipment can be disconnected from the mains only by unplugging the plug from the mains socket.
- When using any electrical appliance, certain fundamental rules should be respected:
 - Do not touch the appliance with wet hands or feet;
 - Do not touch the appliance with bare feet or unsuitable clothing;
 - Do not pull the power cable or appliance itself to unplug the plug from the mains.

Operating the STREAMFLO® Filtration Systems

When purchasing the product, make sure it has an identification plate. If this is missing, notify the distributor / manufacturer where you purchased the unit from.

Use of an appliance without an identification plate absolves the manufacturer from all liability. Products without an identification plate should be considered as anonymous and potentially dangerous.



Unpacking of the STREAMFLO® filtration system

Your **STREAMFLO®** Filtration System has been carefully manufactured, checked through QC and packaged as a kit.

Carefully unpack your new **STREAMFLO®** Filtration System and carry out a thorough visual check on all parts. If in doubt, do not use the system. Contact your dealer and/or manufacturer.

Packaging (bags, boxes, nails, tape etc.) should be kept out of reach of children as they may represent a potential hazard. Packaging can be recycled according to your local legislation.

Storage of the STREAMFLO® filtration system

Short term and long term storage is an important issue. The **STREAMFLO®** filtration system must be protected from algae and bacteria growth in the pressure vessels caused by stagnant water. The de-ionising (DI) resin must not dry out wither.

Important

The unit must be protected from freezing.

You can transport or store the trolley system with the handles folded down. Loosed the locking fixings, lift the handle and fold forwards.

About your system



To operate the **STREAMFLO®** filtration system, the operator needs to fill the storage tank with standard mains tap water.

The water is then drawn from the storage tank by the 100psi pump, and pushed through the DI resin vessel, reaching a 000ppm result before coming out to the telescopic pole



Charging your Battery

The lithium-ion 12V battery is ready to be charged when received.

- i. Plug charger into an electrical socket



- ii. Insert the charger socket into the lithium battery terminal, and switch battery charger on



- iii. **RED** and **GREEN** lights will indicate the battery charging completion



Important

Only use the **STREAMLINE**® charger supplied with your **STREAMFLO**® filtration system. If misplaced, contact your dealer of manufacture immediately.

The charger will never over heat. This has a safety function to prevent the battery from over charging.

You can operate the system and keep the battery on charge. Pay special attention to the mains electrical supply when operating with water.

Assembling the System

- i. Ensure the trolley system is safely secure and stable on a level surface



- ii. Remove the container lids and riser tube and fill the container with pre-filtered water. If the trolley is fitted with a resin filter fill the container with tap water




- iii. Re-insert the riser tube and screw the lids on securely





- iv. Insert your telescopic pole hose directly to the water outlet connection (it is possible to add a 100mtr hose reel in between your **STREAMFLO** system and the telescopic pole)



Turning your STREAMFLO® Filtration System ON

- i. When in position, press the power  button on the flow controller and hold for 2-seconds



- ii. Now you can adjust the speed of the water flow through the 100psi pump by using the  and  arrows on the flow controller



Please ensure you regularly check the water quality with the handheld TDS meter provided.

Important

If you have a 50ltr trolley system, it is important that the pump draws from both 25ltr water tanks simultaneously.

Operating your STREAMFLO® Filtration System

The **STREAMFLO®** filtration system is designed for a single operator use.

The water supply can sometimes be interrupted for short lengths of time i.e. when the operator moves from window to window, however if the **STREAMFLO®** filtration system is interrupted for long periods of time, it is best to switch off the pump to save overheating and/or over pressurising, and potentially damaging the system.

If the operator is using 4x jets with the waterfed brush, it is advised to turn up the speed of the controller, to give sufficient water flow for quality cleaning and rinsing.

Important

If you have a 50ltr trolley system, it is important that the pump draws from both 25ltr water tanks simultaneously.

Turning your STREAMFLO® Filtration System OFF

To switch off the **STREAMFLO®** filtration system after completing the cleaning task, simply:

- Press and hold the  button on the **STREAMLINE®** flow controller, switching off the 100psi pump



- Disconnect the telescopic pole and all hose lengths connected to the system



Malfunctions and Troubleshooting

To switch off the **STREAMFLO®** filtration system after completing the cleaning task, simply:

- Low water pressure or water supply at waterfed brush
 - Check for any blockages or kinks in hose
 - Disconnect all extension hose reels and connect the **STREAMFLO®** filtration system directly to the telescopic pole
 - Increase water flow rate on flow controller
 - Contact service centre
- High pure water TDS
 - Check DI resin quality – replace DI resin beads
 - Contact service centre
- Pump will not start
 - Check battery charge – see '12.1 How to charge your battery'
 - Check fuse on battery charger
 - Check fuse on mains power
 - Contact service centre
- Controller stating 'DE' or 'PS' constantly
 - Check for any blockages in hose or telescopic pole tubing
 - Check for any blockages in membrane
 - Raise the calibration on the controller
 - Contact service centre
- Controller flashing 'BAT' constantly
 - Plug in battery charger immediately before the battery is flat
 - Contact service centre

Maintenance and Replacing Filters

Care and maintenance of your STREAMFLO® filtration system will ensure it is well looked after and running smoothly every time.

It is recommended to run a weekly examination on the STREAMFLO® filtration system to ensure the filters and connections are adequate and effective for producing pure 000ppm water quality.

Weekly inspection

- Keep a check on the pure water TDS by using the handheld TDS meter. This measures in parts per million (ppm). If the output reads higher than 3ppm, it is recommended to change the de-ionising (DI) filter, and make a note in the back of the inspection booklet
- Keep a check on the battery voltage by running through the controller function until you reach 'BAT'. A good healthy battery will read between 11V and 12.4V.

De-ionising (DI) Resin Beads – usage and replacing

The DI resin filter is the last polishing filter that the RO pure water will pass through.

Usage

Either monthly replacement or approx. 2,000ltrs* of pure water

* with starting TDS of 100ppm.

How do I change the DI resin cartridge?

- Make sure that the pump is switched off and that the system is de-pressurised



- Remove the inlet and outlet hose from the DI filter



- iii. Unscrew the filter bracket and remove the DI filter from the trolley



- iv. Remove the DI filter head and empty the poor/spent DI resin



- v. Refill the DI filter to the filling line and reset the filter riser and head



- vi. Ensure all seals and fittings are replaced and tight



Please pay special attention to the flow direction on the membrane housings and on the membranes themselves.

7 Disposing of filters and machine

Disposing of filters and machine

The **STREAMFLO**® filtration system is classified as special waste. It must be taken apart and divided into uniform sections which should be disposed of according to current legislation.

Do not use the components removed as spare parts.

All filters are disposable as unarmful general waste.

Important

Disposing of resin beads can create a slippery surface. Care needed to dispose of resin beads effectively. Remove all over spill immediately.

Declaration of conformity

EC Declaration of Conformity according to the, RoHS Directive 2011/65/EC. The **STREAMFLO**[®] Filtration System has been designed and produced by **STREAMLINE**[®] in accordance with the above mentioned EC Directives. The technical documents are complete. The complete EC Declaration of Conformity with all standards applied can be requested on the **STREAMLINE**[®] Website or directly from **STREAMLINE**[®].



Dean Scott
Development Director

Why STREAMLINE[®]?

Flexibility

- **STREAMLINE**[®] systems can be built according to customers' exact requirements
- For non-standard systems, the user's needs or specifications are listened to and turned into reality.

Quality

- Whilst price is important, quality is remembered long after price is forgotten
- We insist on sourcing brand name products from around the world, only of a reputable quality, and bring them together under the **STREAMLINE**[®] name
- All **STREAMLINE**[®] products carry a full one year's warranty, according to the manufacturers' standard terms and conditions of sale.

Service

- We have an in-house technical helpline able to answer most of your questions relating to the capabilities and functionalities of all **STREAMLINE**[®] products
- If we get it wrong, we will put it right. If you are sent a wrong item, we will immediately attend to sending you the correct item and arrange a collection of the wrong item without any quibbles
- **STREAMLINE**[®] is backed by a comprehensive range with massive stocks providing you with a 'one stop shop' for all your requirements.



MANUFACTURED
IN THE
UNITED KINGDOM



CHECKED AND
TESTED BY
QUALITY CONTROL

STREAMLINE® Warranty

The warranty on all Machines and Equipment is for 1 year (12-months) from RECORDED DATE OF PURCHASE.

THIS WARRANTY EXCLUDES NORMAL MAINTENANCE ITEMS, including but not limited to HOSES, FILTERS, O-RINGS, DIAPHRAGMS, VALVES, GASKETS, CARBON BRUSHES and damage to motors and other components as a result of failure to replace normal maintenance items. THIS LIST IS NOT EXHAUSTIVE.

If **STREAMLINE®** receives notice of such defects during the warranty period, STREAMLINE® will either, at its opinion, repair or replace components which prove to be defective.

Replacement parts will only be supplied under warranty, upon the inspection and approval of the defective parts by **STREAMLINE®**.

Should it be necessary to supply replacement parts before the opportunity to inspect, these will be charged at current prices and credit will only be issued upon subsequent inspection and warranty approval by **STREAMLINE®**.

The customer is responsible for the cost of return of the defective part. If warranty is approved, **STREAMLINE®** will pay for the cost of the repaired or replacement part.

This warranty excludes the following conditions and circumstances which are at the discretion of **STREAMLINE®**:

Wear and tear, misuse, abuse improper maintenance, frost damage, the use of chemicals other than those supplied or approved by **STREAMLINE®**, improper installation or repair, unauthorised modification, incidental or consequential costs, loss or damage, service, labour or third party charges, the cost of returning defective parts to **STREAMLINE®**.

This warranty constitutes the exclusive remedy of any purchaser of a **STREAMLINE®** unit and is in lieu of all other warranties, express or implied, including without limitation any implied warranty of merchantability or fitness for use, to the fullest extent permitted by law. In no event shall any implied warranty of merchantability or fitness for use exceed the term of the applicable warranty stated above and **STREAMLINE®** shall have no other obligation or liability.

Important

Unfortunately these rights cannot be transferred to a third party.

Notes

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