



Instructions for use

Read these Instructions before use

Introduction

Preliminary information

Safety notes

Keep these 'Instructions for use' in a safe convenient place for future reference during installation, operation and maintenance procedures.

Eschmann After Sales Service Department

Installation and part identification

Instructions Suction

Instructions Fibrelight

Technical data

The Eschmann After Sales Service Department is staffed and equipped to provide advice and assistance during normal office hours. To avoid delays when making enquires, please quote the Model and Serial Number of your Suction Unit and the part number of any part referred to.

(NOTE: For location of the Serial Number Plate see below, the alpha parts of the SN are significant).

Serial plate location for basic unit inside vertical support
Serial plate location for unit with Fibrelight (only) back of Fibrelight unit
Serial plate location for unit with Suction back of Suction unit

For further information visit www.eschmann.co.uk

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Contact your local distributor. In case of doubt contact Eschmann Equipment.

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CE If the CE mark is affixed to the product, it indicates compliance with Council Directive 93/42/EEC of 14 June 1993 concerning medical devices.

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INTRODUCTION

NOTE: These Instructions for Use apply to the following ST80 Trolley Units :-

REF	83-063-05	Electrosurgical trolley
REF	83-063-05-0002	Trolley plus Fibrelight, 230V
REF	83-063-05-0004	Trolley plus Fibrelight, 110V
REF	83-063-05-0005	Trolley plus Suction, 230V, 2 Jars
REF	83-063-05-0006	Trolley plus Suction, 100/120V, 2 Jars
REF	83-063-05-0007	Trolley plus Suction, 230V, 4 Jars
REF	83-063-05-0008	Trolley plus Suction, 100/120V, 4 Jars
REF	83-063-05-0010	Trolley + Fibrelight + Suction, 230V, 2 Jars
REF	83-063-05-0012	Trolley + Fibrelight + Suction, 110V, 2 Jars
REF	83-063-05-0014	Trolley + Fibrelight + Suction, 230V, 4 Jars
REF	83-063-05-0016	Trolley + Fibrelight + Suction, 110V, 4 Jars

with Serial Number S8? B 8 B 0000 or later ('?' indicates model variant).

1. PRELIMINARY INFORMATION

GENERAL

1.1 The ST80 Trolley system is a modular piece of theatre equipment available in a range of options:

- a) Basic trolley.
- b) Trolley with fibrelight system.
- c) Trolley with suction system.
- d) Trolley with both fibrelight and suction systems.

1.2 The reusable jars supplied with the suction unit are used with a disposable liner system, as detailed on the laminated leaflet S-IM08 enclosed with the ST80 Trolley if a suction unit is fitted.

1.3 The mobile trolley has two breaking castors and a flat working surface for an electrosurgical unit (optional extra) or other equipment. It also incorporates removable, reversible shelving.

1.4 All the information necessary to use the ST80 Trolley will be found in these Instructions for Use or the Jar and liner card supplied (if applicable). Because of the modular nature of this product not all sections of this booklet will apply. For basic units refer to the relevant parts of the cleaning and disinfection details section 4.8 - 4.9.

1.5 The following related publications, available from Eschmann Equipment, also apply to the ST80 Trolley System.

- E-SM52 - Service Manual
- S-IM08 - Instructions for Use
(disposable suction liner system)

OPTIONAL EXTRAS

Suction System (see Section 4 for details)

1.6 The vacuum pump is an oil-lubricated electrically-driven pump/motor unit of the rotary vane type, with replaceable blades. The motor unit is designed to operate from the mains electrical supply. If required this module can be added, please contact the Eschmann After Sales Service Department (see inside front cover).

1.7 The pump/motor unit, its associated pipework and electrical connections are all contained within a tough, hygienic plastic case at the base of the ST80. Controls are mounted on the top of the case and comprise an on/off power switch, a vacuum control valve and a vacuum gauge.

1.8 A silencer unit in the pump exhaust line ensures that the pump operates with the minimum of noise, while the pump inlet is protected by an externally mounted sealed bacterial or combined hydrophobic/bacterial filter both of which are disposable.

Fibrelight System (see Section 5 for details)

1.9 The Fibrelight system is a fan-cooled, twin 150 watt Halogen lamp unit, with both Fibrelight guide adapters and all controls accessible from the front of the system. Failed lamps can be easily replaced without the need for any special tools. If required this module can be added later, please contact the Eschmann After Sales Service Department (see inside front cover).

Twin Drip Pole Kit

1.10 The Twin Drip Pole Kit (REF 81-464-03) can be fitted easily to either, or both sides, of the ST80 Trolley. The Kit comes complete with all fittings and Instructions for Use. It provides a conventional style twin drip stand, taking up less space than an additional free-standing piece of equipment.

ST80 Trolley System Accessories / Parts List

- REF 82-961-68
Filters (pack of 10, bacterial)
- REF 82-961-85
Filters (pack of 10, hydrophobic/bacterial)
- REF 82-923-61
Jar (with V-mount for disposable liner)
- REF 82-923-88
Tapered connector (pack of 10)
- REF 82-923-96
Incineration box (pack of 25)
- REF 82-929-14
Suction tubing 6.35mm i.d.
- REF 82-930-15
Suction tubing (black) 12.7mm i.d.
- REF 82-931-12
Suction tubing (clear) 12.7mm i.d.
- REF 82-923-57
Disposable liner, standard bore 8.5mm (box of 25)
- REF 82-923-69
Disposable liner, wide bore 12.5mm (box of 25)
- REF 82-923-65
Disposable liner, Cascade, std. bore 8.5mm (box of 25)
- REF 82-929-36
Cascade connecting tube (box of 50)
- REF 83-121-41
Fibrelight adaptor, to fit Storz/G.U. guides
- REF 83-121-68
Fibrelight adaptor, to fit BS/ACMI guides
- REF 81-464-03
ST80 Twin drip pole kit
- Part No.697603
Fibrelight lamp

2. SAFETY NOTES

When using the ESCHMANN ST80 TROLLEY SYSTEM, attention to the following points will prolong the life of your Trolley System and help promote safe use.

- DO** clean all suction equipment and the unit thoroughly after use.
 - DO** change the disposable filter after each day's use, or, IMMEDIATELY if wetted, or, after aspiration of infective fluids.
 - DO** keep an adequate supply of spare disposable filters handy.
 - DO** unplug and/or isolate power lead before cleaning suction unit and when not in use.
 - DO** treat receiver jars carefully, avoiding mechanical or thermal shock.
 - DO** examine condition of jars and suction tubing regularly, replacing if worn or damaged.
 - DO** seal disposable liner after use and don't reopen.
 - DO** use a new liner and a new suction tube for each patient - don't risk cross infection.
 - DO** autoclave receiver jar daily.
 - DO** keep 'sharps' away from liners.
 - DO** read these 'Instructions for Use' carefully and keep in an accessible place.
-
- DON'T** start unit without removing transit bolt and filling pump with oil.
 - DON'T** use substitute disposable filters (see available spares list on page 4).
 - DON'T** continue to use unit, without attention, if vacuum reading or suction rate is too low.
 - DON'T** obstruct or cover ventilation holes in unit cabinet.
 - DON'T** use the electrical power lead or suction tubing as a tow rope, use the unit's handle.
 - DON'T** leave part filled liners in the system overnight - always incinerate.
 - DON'T** overfill suction liners - change when three quarters full.
 - DON'T** use phenols or solvent based disinfectants to clean receiver jar, use Savlon, Hibitane or similar (also see leaflet S-IM08 supplied with the unit).
 - DON'T** touch inside surface of fibrelight lamp reflector or the quartz bulb.

WARNING

Operators of this unit should be aware of the potential risks of 'Cross Contamination' and 'Biological Contamination' whilst using this equipment. The correct procedures for the handling of potentially contaminated components (e.g. Jar, Tubing, Filters) and liquids should be followed rigidly during Use, Cleaning and Maintenance. Always change filters regularly and if they become wetted or contaminated. All users should be familiar with the procedures for dealing with, and disposing of, potentially contaminated components and liquids. Suction equipment should only be used by persons who have received adequate instructions in its use.

The contents of the liner and accessories should be disposed of safely and carefully, taking into account any National, Local or Hospital procedures, covering the disposal of potentially contaminated liquid, or solid, waste.

The maintenance procedures described in these 'Instructions for Use' should be made the responsibility of the engineer in charge of services in the hospital. If maintenance is neglected, suction performance could be found inadequate in an emergency situation. It is also recommended that if placed on stand-by for emergency duty the unit is tested by switching on, at regular intervals.

1. Trolley top
2. Fibrelight controls and indicators.
3. Fibrelight case
4. Fibrelight lamp plate
5. Vacuum gauge
6. Vacuum power switch
7. Vacuum control valve
8. Receiver jar mounting bracket
9. Pump case
10. Receiver jar with liner
11. Castor
12. Foot assembly
13. Cable cleat
14. Front moulding
15. Disposable filter (either type)
16. Shelving (reversible if basic unit only)
17. Side frame
18. Handrail
19. Connecting tubing
20. Suction electrical rating plate
21. Suction system fuses
22. Pump exhaust outlet
23. Mains supply cable
24. Fibrelight system fuses
25. Fibrelight electrical supply socket
26. Air intake for fibrelight fan
27. Fibrelight electrical rating plate

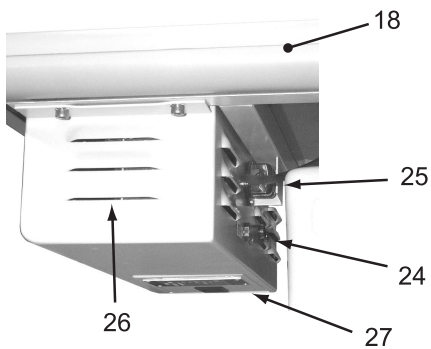
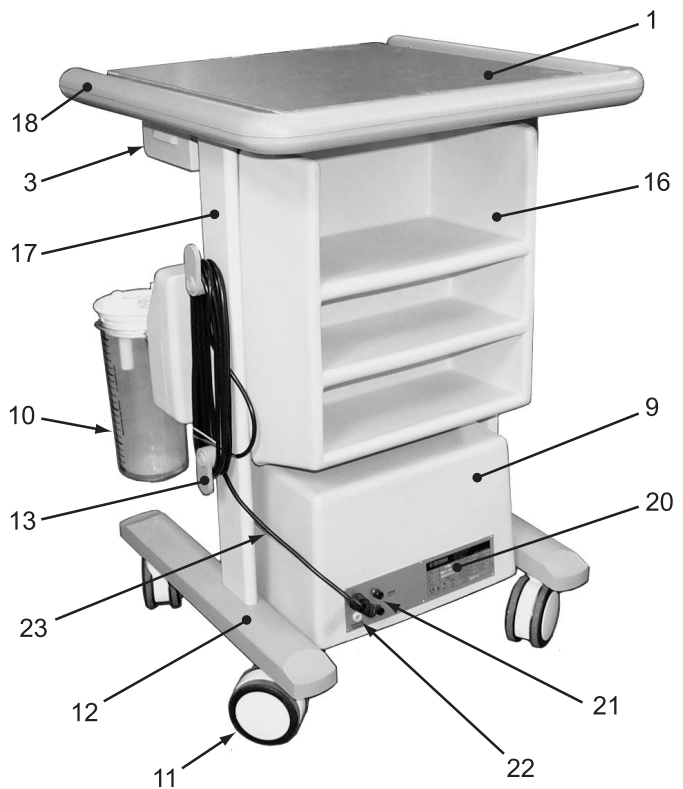
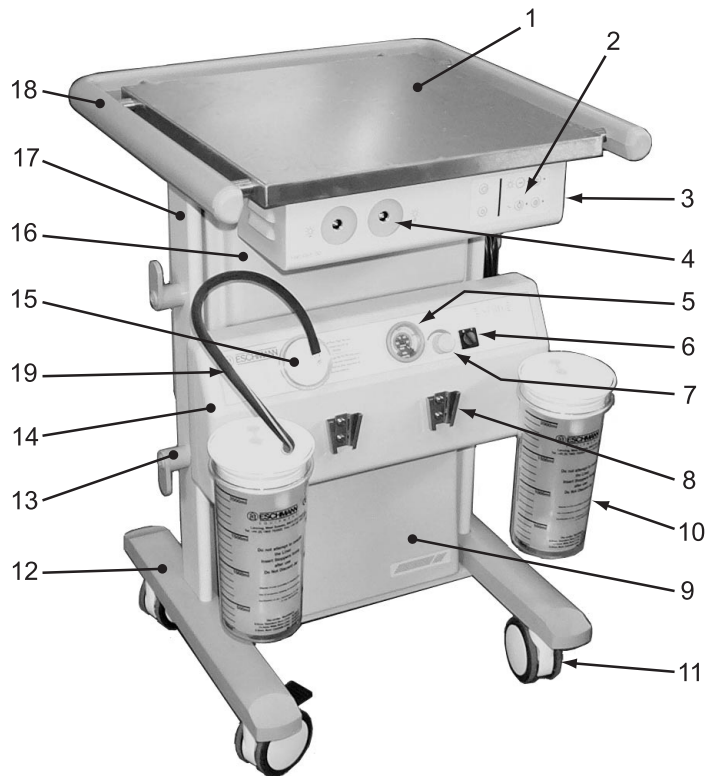


Fig. 1 ST80 Trolley - parts identification

3. INSTALLATION AND PART IDENTIFICATION

Unpacking and assembly

3.1 Proceed carefully as follows:

- i) Remove muff (UK market) or open carton (Overseas market).
- ii) Remove loosely packed items and documents and carefully remove the ST80 unit from the carton.
- iii) If Trolley has a suction system fitted, remove motor transit screw (painted red) from base of pump case and discard screw.

Note: The vacuum pump is supplied charged with oil and ready for use. Recharging instructions are included in the Service Manual.

3.2 The suction collection system (if fitted) is provided with two or four 1600ml receiver jars (working capacity). Remove any loose items from within the jars.

3.3 If required, clean and sterilize jars before use as described in leaflet S-IM08 supplied with the unit, where preferred methods are detailed.

3.4 Fit disposable liners in the jars and place the jars in the mounting brackets (item 8, Fig. 1) at the front of unit. (Also see 1.2).

3.5 Then insert either the hydrophobic/bacterial filter, or the bacterial type filter (item 15, Fig. 1) into the rubber mount on the front moulding as shown in Fig. 1. (Note: Filters will only fit one way round).

3.6 Connect the connector on the connecting tubing (item 19, Fig. 1) to the filter. Ensure that the tapered connector on the free end of the tubing is pushed firmly into the socket in the disposable liner.

Electrical connection

3.7 Connect a three-pin fused plug, if not already fitted to the mains supply cable. If the plug is removed a new plug should be fitted (with a 5A fuse) as follows:

- Brown Live
- Blue Neutral
- Green/Yellow Earth

Dispose of the removed plug safely having first removed its fuse.

3.8 The mains supply must agree with the information on the electrical rating plate at the rear of the unit. In the UK a 5A fuse must always be fitted in the plug if the fuse is replaced.

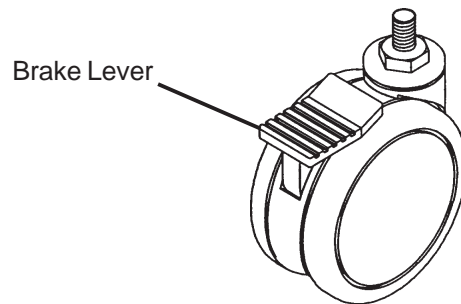
3.9 Suction and fibrelight functions can be used independently by selecting the appropriate switches.

Parts identification

3.10 Refer to Fig. 1 to gain knowledge of the names for various parts of the ST80 Trolley.

3.11 The suction collection system utilises a disposable liner system, leaflet (S-IM08) supplied with the unit explains how to use them.

3.12 The front two castors of the trolley incorporate a foot operated brake. To apply the brake press the bottom of the lever until it locks in the down position with a click. To release the break apply pressure to the top of the lever until it releases.



Important operating notes

3.13 The following notes should be followed when operating the ST80 suction system :

- i. This suction unit is not intended for field and transport use.
- ii. The suction pump must be removed and serviced if liquid or solid matter has been drawn into it.
- iii. It is recommended that this suction unit is used only on a horizontal floor or surface.
- iv. This suction system incorporates an overflow device (float valve) which will operate and stop suction in an 'overflow' situation. See leaflet (S-IM08) supplied with the unit for more details and information on disposal.
- v. The recommended suction tubing is sterile tubing for surgical suction of 6.35mm (1/4 inch) inner diameter (see parts list on page 4). The method of connection to the liner is described in the leaflet (S-IM08).

WARNING

The ST80 high vacuum suction unit should not be used for continuous drainage of body cavities. Nevertheless it should be noted that the pump is rated for continuous operation. A new disposable liner and a new suction tube, must be used for each patient.

4. INSTRUCTIONS FOR USE - SUCTION SYSTEM

Liner use

4.1 The ST80 suction system uses a jar and disposable liner system. The leaflet (S-IM08) supplied with the unit explains how to use them.

NOTE: Graduations are approximate; suitable volume measuring equipment should be used if accurate assessment is required (e.g. the CMV see S-IM08).

Starting the unit

4.2 Connect unit to mains electrical supply and if supply socket is controlled by a switch, ensure it is switched 'ON'.

4.3 Ensure installation stages 3.3 to 3.8 have been followed then start the vacuum pump by turning the mains switch (item 6, Fig. 1) to 'I'. Adjust the Vacuum to the required level as detailed in section 4.4.

Note: Before using the suction unit for the first time, the suction performance can be checked quickly by switching on the unit and placing a finger over the end of the connecting tube (item 19, Fig. 1). The vacuum gauge reading should move quickly to approximately 620 mm Hg (atmosphere at 760 mm Hg) with vacuum control valve turned to maximum setting.

Suction adjustment

4.4 To set the required vacuum on this suction unit switch the mains switch 'ON' (mains switch to '1'), place a finger over the nozzle (patient inlet) of the liner to which the "patient" tubing connects, then turn the vacuum control valve (item 7, Fig. 1) clockwise or anticlockwise to increase or decrease the suction until the desired vacuum is indicated on the vacuum gauge.

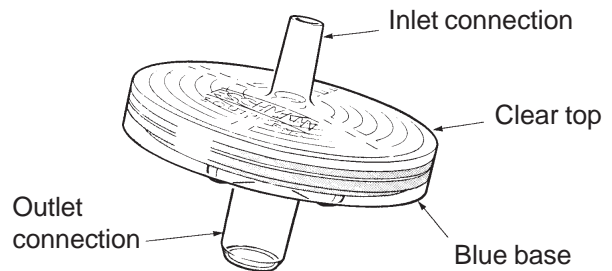
4.5 When applying suction to the patient it may be desirable to increase or decrease the suction rate. This is achieved by turning the vacuum control valve clockwise to increase or counter-clockwise to decrease suction.

Overflow protection

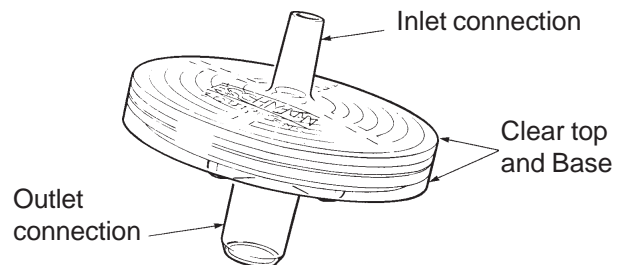
4.6 Aspiration should be stopped when level of fluid reaches approximately the 3/4 full mark, but in the event of accidental overfilling the float valve will close shutting off vacuum to the liner.

Pump protection

4.7 The sealed disposable filter, of either type, must be changed after each day's use or immediately if wetted or after aspiration of infective fluids. The hydrophobic/bacterial filter shown provides total environmental protection pump protection from body fluids together with improved



environmental protection from contaminated suction pump exhaust. Should the hydrophobic filter become wetted it will prevent fluid passing into the pump but still allow suction to continue. Only when the filter upper chamber is full of fluid, will suction cease. The second filter, the bacterial type shown below, provides improved protection against



bacteria and other airborne pathogens from the pump exhaust. In the event of becoming wetted this filter will not prevent body fluids contaminating the pump. Also see WARNING on page 5.

WARNING

Do not use substitutes for the specified sealed disposable filters see parts list on page 4.

Cleaning & disinfection

WARNING

Disconnect equipment from the mains electrical supply prior to cleaning and disinfection.

4.8 The following routine should be carried out immediately after each period of use:

- i. The disposable filters must be changed after each day's use, or **IMMEDIATELY** if wetted, or after aspiration of infective fluids.
- ii. All components likely to be in contact with aspirated body fluids should be thoroughly cleaned and sterilized after use, or whenever it is suspected that infective fluids have been in contact with the unit.
- iii. The outside of the unit should be washed with hot (55°C) neutral (pH7) detergent solution (diluted in accordance with the manufacturers instructions) rinsed with clean water, and wiped dry.

- v. Phenol based disinfectants and solvent based liquids should not be used for cleaning receiver jars, use aqueous based liquids at all times.

WARNING

Do not allow Hypochlorite solutions to come into contact with any metal components.

4.9 The following disinfection procedure is used by Eschmann Equipment, and its use is recommended if no other approved procedures are available.

- i Remove all jars and filters etc. and sterilize or dispose of separately as required.
- ii Wash down all surfaces and crevices with hot (55°C) neutral (pH7) detergent solution (diluted in accordance with the manufacturers instructions) to remove all visible contamination. Use a small brush to clean areas of limited access.
- iii Wash down with hot (55°C) water.
- iv Dry all surfaces with absorbent paper.
- v Wash down all surfaces and crevices with a 70% solution of industrial methylated spirit and water.
- vi Allow to dry by evaporation.
- vii Dispose of all cleaning material and solutions in accordance with authorized disposal procedures.

Sterilization of jars

4.10 See leaflet S-IM08 supplied with the unit.

Care - Daily checks

4.11 To ensure the ST80 Suction Unit operates efficiently in an emergency, the following checks should be carried out on a daily basis:

- i. Check jar for cracks or chips, renew if damaged.
- ii. Check suction performance as detailed in the 'note' after section 4.3.

Note: Disposable filters, suction tubing, jars and liners are relatively inexpensive items, and a stock of spares should always be readily available (see parts list on page 4).

FAULT DIAGNOSIS

4.12 The following table lists possible causes of faults that can be rectified by the user. Rectification of other faults can only be carried out by trained personnel in conjunction with the relevant Service Manual.

Fault	Possible Cause	Remedy
1. Total loss of suction	(a) Disconnection in suction line (b) Overflow protection operated (c) Disposable filter completely blocked	(a) Reconnect (b) Switch to new liner (c) Replace filter immediately
2. Partial loss of suction	(a) Split or damaged liner (b) Leakage in suction line (c) Disposable filter wetted or fouled	(a) Replace liner (b) Check/remake suction connections/renew tubing (c) Replace filter immediately
3. Vacuum gauge no indication	(a) Loss of vacuum	(a) See (1) and (2) above
4. No power	(a) Fuse in 'mains' plug faulty (b) Mains supply failure	(a) Check/replace fuse (5Amp) (b) Check 'mains' supply
5. On switching pump off with inlet blocked, immediate vacuum loss	(a) Leakage in suction tubing or connections	(a) Tighten or renew faulty items
<p>Note: A thermal overload switch, which is self-resetting, is incorporated to protect the motor in the event of pump seizure or excessive running temperatures. Should the overload switch operate to stop the motor it is essential to disconnect the electrical supply to the unit before attempting any form of maintenance. In the case of faults which cannot be resolved, please contact the Eschmann After Sales Service Department (see inside front cover for contact information).</p>		

Attaching Light Guide (Fig. 3)

5.1 Screw appropriate adapter(s) into lamp plate (item 12 Fig.3) sockets and connect flexible light guide to adapter. (See parts list page 4 for adapters available from Eschmann Equipment)

Using Fibrelight Source (Fig. 3)

5.2 Connect fibrelight assembly to mains electrical supply and if supply socket is controlled by a switch, ensure that it is switched 'on'. The amber stand-by indicator (item 7) will illuminate.

5.3 Press lamp 'on' touch button (item 6), lamp 'on' indicator (item 5) will illuminate green.

5.4 Press lamp selector button (item 1) or (item 3), corresponding stand-by lamp indicator (item 2) or (item 4) will illuminate amber.

5.5 Press button (item 11) to increase or button (item 10) to decrease brightness.

5.6 In the event of lamp failure, press button (item 1) or (item 3) and reposition light guide to other adapter.

Lamp changing (Fig. 2)

- 5.7 To change a lamp proceed as follows:
- i Disconnect equipment from the mains electrical supply.
 - ii If necessary, allow lamp(s) to cool.
 - iii Release flap catch (item 1) and supporting fibrelight chassis (item 2), hinge chassis carefully downwards.
 - iv Raise ejector lever (item 5) to remove the failed lamp.

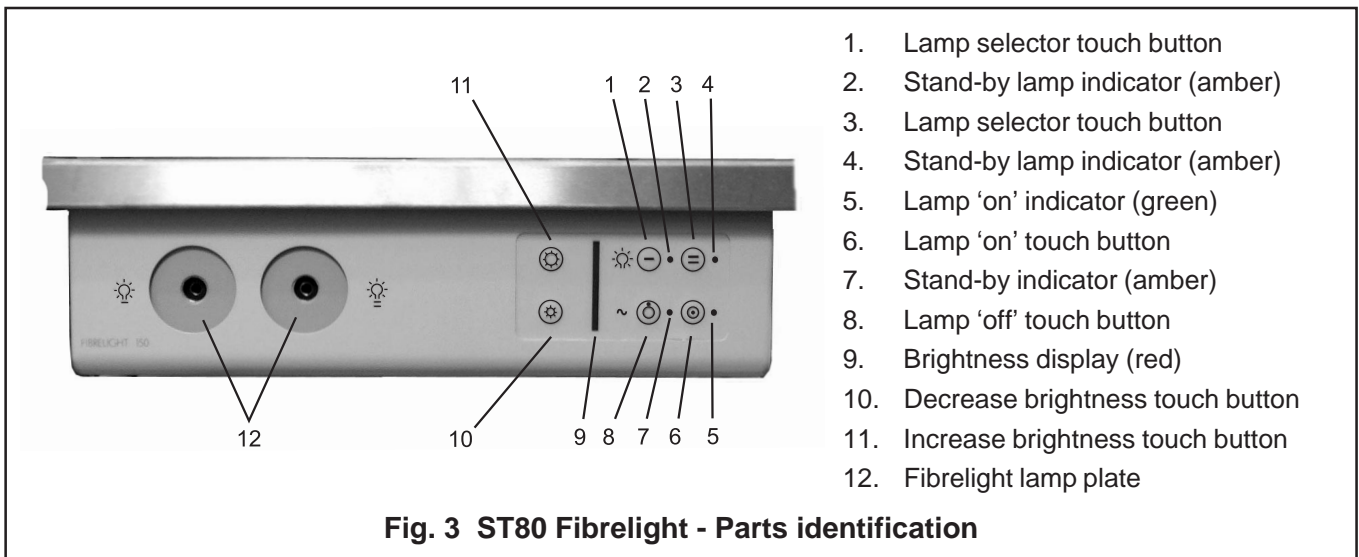
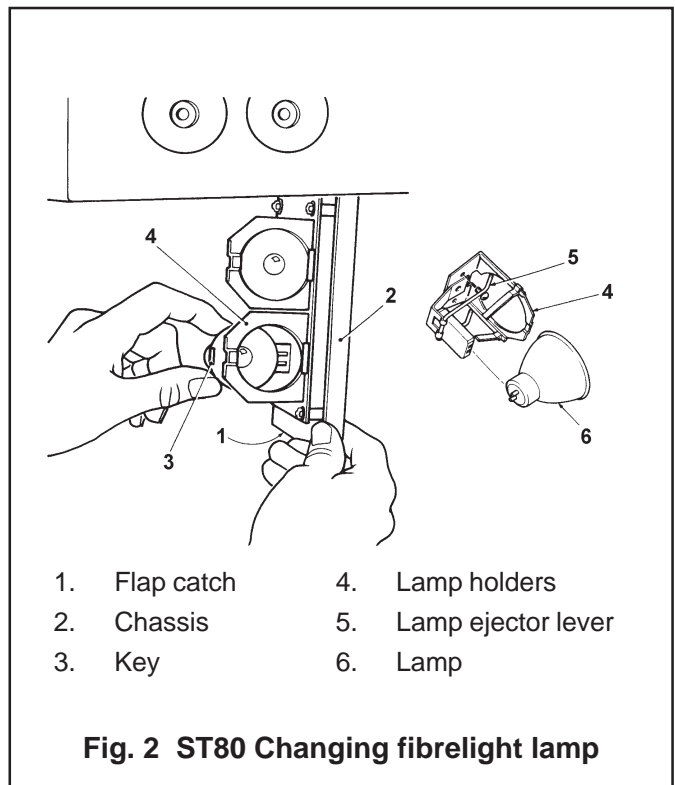
CAUTION

Do not touch inside surface of new lamp reflector or the quartz bulb as this will impair efficiency and shorten lamp life. Hold new lamp reflector as shown in Fig. 2.

- v Hold new lamp (see parts list page 4) by connector pins and/or rim of reflector and with the key (item 3) as shown. Then locate lamp in lamp holder (item 4), ensuring connector pins are aligned with sockets, and push lamp firmly into position.
- vi Raise fibrelight chassis and secure in closed position.
- vii Connect equipment to mains electrical supply.
- viii Test both lamps as detailed in 5.3 to 5.5.

Cleaning & disinfection

5.8 See the relevant parts of 4.8-4.9



6. TECHNICAL DATA

General

Equipment Type: Mobile trolley system, of modular construction.

Overall dimensions (approx.): Height, 880 mm Width, 590 mm Depth, 615 mm

Weight (approx): Trolley, 26kg Trolley + Suction, 45kg Trolley + Suction + F'light, 54kg

Suction system

Either: Connection to Hospital piped vacuum, or,

Internal Pump:

Type: High vacuum, high flow, oil lubricated rotary vane type, mains operated.

Oil charge: 25ml (approx.) Oil type: Eschmann 'Universal', High Vacuum Oil

Performance: Maximum airflow rate, 35 litre/min Nominal vacuum, 620 mm Hg (80kPa)

Electric motor: Totally enclosed, fan cooled, Power consumption 60W
Duty cycle, Continuous Mains input: 230V a.c. 50/60 Hz, or 110V a.c. 50/60 Hz

Fuses: (2 off) for 230V supply, T2A anti-surge 20mm to IEC127
(2 off) for 100/120V supply, T5A anti-surge 20mm to IEC127

Filters: Sealed disposable combined hydrophobic/bacterial type designed to provide 100% pump protection against aqueous fluids, or, Sealed disposable bacterial type

Fibreight system

Type: High intensity fan cooled light source for fibreight endoscopic instruments.

Mains input: 230V a.c. 50/60Hz

Output: Continuously variable Duty: Continuous Power consumption: 150W

Fuses: (2 off) for 230V supply, T1.6A anti-surge 20mm to IEC127
(2 off) for 100/120V supply, T3.15A anti-surge 20mm to IEC127

Lamps: Prefocused 150 watt Quartz Halogen type, (2 off - selectable)

Safety

Standards : EN 60601-1:1990+A1:1993+A2:1995, ISO 10079-1:1991,
BS 5724:Part 1:1979, IEC 601-1:1977


Classification : Class 1. Type BF Drip proof


Electromagnetic compatibility : IEC 601-1-2:1993

Class


Class 1 denotes that the equipment must be earthed via the protective conductor in the 3-core mains cable connected to a 3-pin plug.

Explanation of symbols

The symbol  (drip proof) indicates that the equipment will withstand a moderate quantity of water spilled from above the unit.

The symbol  denotes that the equipment is in the category type BF, i.e. that it is manufactured to a safety standard commensurate with international regulations for medical electrical equipment incorporating floating patient applied parts.

The symbol  indicates that the equipment is for use on alternating current only.

The symbol  indicates that vacuum is increased by clockwise rotation of this control.

 For SINGLE USE ONLY

DISCOVER NEW INNOVATION. NEW TECHNOLOGY. DISCOVER  ESCHMANN

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