### 6. **DISPOSE** of all breathing system components immediately after use on highly infectious patients regardless of option of multiple use. (E.g. Tuberculosis (TB), HIV, Hepatitis C, Jacob-Creutzfelt variant (CJD) and for all ICU patients. Breathing systems and components must be removed after use and safely disguarded, even if a filter is used.

- otherwise unfit for its application. **NEVER** attempt to 'dry out' a breathing system 5.
- occluded or blocked. DO NOT attempt to clean this device.
- 3.

or a breathing system filter.

CAUTIONS

2.

compromised.

- 4.

# **REPLACE** this device if it become soiled or

for leaks and ensure no part of the system is

### 1. DO NOT use if the packaging integrity has been **BEFORE** patient use, test the whole system

INTENDED USE

.insited

connection.

protessionals only

tor turther intormation.

INSTRUCTIONS FOR USE

٦.

.2

.1

accessories attached prior to connecting to

and twist' action to ensure a secure leak free

Securely attach all connections using a hour

the packaging of the specific breathing system

tipes of anaesthetic breathing system. Consult

device may permit the multiple use of certain

I his device is single patient use. The use of this

system interface. It is to be used by medically trained

each patient when used at the patient / breathing

patient use device is intended to be replaced with

anaesthesia and critical care. This disposable, single

ni bəsu framını and equipment and equipment used in

i pis device provides a medium through which gases

Leak test the breathing system with all

### FLEXICARE BREATHING SYSTEM FILTERS

## external testing reports.

Performance data is supported by internal and

Independant Bacterial/Viral Efficiency testing

Porton Down, Salisbury, United Kingdom.

Wales College of Medicine.

performed by the Health Protection Agency (HPA) at

Independant moisture output and resistance to flow

testing performed by Medical Device Evaluation Unit

/ Wales Anaesthesia Innovation, Cardiff University,





**TOTAL QUALITY - TOTAL CARE** 



### **CLINICALLY CLEAN / STERILE** FILTERS

Flexicare Breathing System Filters are manufactured

and are supplied clinically clean.

overleaf.

by Flexicare Medical within purpose built clean rooms

The clean rooms conform to BS EN ISO 14644 "Clean

Flexicare can also provide a number of sterile filters.

As such, product specifications will remain unaltered.

Flexicare sterile filters can be identified with the part

number suffix 'STR'. For specifications please refer

the part number (without STR suffix) to the tables

rooms and associated controlled environments".

Flexicare sterile filters (and catheter mounts) are

supplied by sterilizing our standard product.

# **FI FCTOSTATIC FII TERS**

Flexicare electostatic filters use a bipolar, permanently charged filter media. Electrostatic

tube or laryngeal mask airway.

airways.

filters are recommended for applications where high

efficiency and low pressure drop are required. The

ThermoShield and VentiShield filters offer excellent

rounded design ideal for use with an endotracheal

efficiency, together with a compact, light weight

The ThermoShield range of filters incorporate a

HME (Heat Moisture Exchange) medium which uses

the patients passive humidification to humidify the

effects to the intubated patient. ThermoShield Filter

HME's counter act the risks of atelectasis, epithelial

damage and reduction of mucocillary transport by

acting as the humidifier in lieu of the patients upper

Not all HME's are filters, some HME's are designed to

offer humidification only with no filtration.

patients inspired gases as dry gases can cause adverse

- then it must be replaced after each patient. (esting system interface (patient Y piece), It the tilter is to be located at the patient / .4
- and the warnings below: intormation provided with the breathing system on multiple patients in accordance with the oprion to use certain Hexicare breathing systems system interface then the clinician may have the If the filter is to be used at the patient breathing.

ot multiple use (consult breathing system packaging). a. Not all Hexicare breathing systems have the option

use of the breathing system can be allowed. and the patient must be replaced before subsequent permitted, then the tilter and any items between it si materiale use of the breathing system is

your hospital policy – whichever is shorter. seven days, ten operating lists or in accordance with preathing system with the option of multiple use is c. The maximum permitted use of a Flexicare

.stn9tteq before reusing breathing systems on multiple the intection control guidelines for your hospital on the breathing system packaging, always consult d. In addition to this information and that contained

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### THERMOSHIELD BACTERIAL / VIRAL HME FILTERS & HME'S

	038-41-350	038-41-330	038-41-355	038-41-335	038-41-355LS	038-41-335LS	038-41-356	038-41-357	038-41-359	038-42-350	038-42-355	038-42-355LS	038-42-356	038-42-356LS	038-42-357	038-43-355	038-43-150	038-41-250	FILLERS &
Description	Filter	Angled Filter	Filter	Angled Filter	Filter	Angled Filter	Filter & Elbow	Filter & Elbow Cath Mt	Filter & Elasto Cap Cath Mt	Filter	Filter	Filter	Filter & Elbow	Filter & Elbow	Filter & Elasto Cap Cath Mt	Neonatal Filter	Neonatal HME	Tracheostomy HME	ThermoShield. A
Brand	ThermoShield	ThermoShield	ThermoShield	ThermoShield	ThermoShield - LuerSafe*	ThermoShield - LuerSafe*	ThermoShield	ThermoShield	ThermoShield	ThermoShield	ThermoShield - Mini	ThermoShield - Mini LuerSafe*	ThermoShield - Mini	ThermoShield - Mini LuerSafe*	ThermoShield - Mini	ThermoShield - Neonatal	ThermoShield - Neonatal HME	Thermotrach	Exchange), Neor
Efficiency	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.999%	N/A	N/A	Adult Iracheoste
Humidification on (Moisture Output) 1 - 3 hr 1 - 24hr (g/m <sup>3</sup> )	33.6 31.2	33.6 31.2	33.6 31.2	33.6 31.2	33.6 31.2	33.6 31.2	33.6 31.2	33.6 31.2	33.6 31.2	30.3 30.8	30.3 30.8	30.3 30.8	30.3 30.8	30.3 30.8	30.3 30.8	31 31	25.2 28 at 25 B/min	32.0 at 20 B/min	VentiShield. Ant Filters. LuerSafe™Cap-I
Type (eg: Hydrophobic mechanical filter)	Adult Electrostatic Filter with Hydrophobic HME	Adult Electrostatic Filter with Hydrophobic HME	Adult Electrostatic Filter with Hydrophobic HME	Adult Electrostatic Filter with Hydrophobic HME	Adult Electrostatic Filter with Hydrophobic HME	Adult Electrostatic Filter with Hydrophobic HME	Adult Electrostatic Filter with Hydrophobic HME	Adult Electrostatic Filter with Hydrophobic HME	Adult Electrostatic Filter with Hydrophobic HME	Mini electrostatic bacterial/viral Filter with Hydrophobic HME	Mini electrostatic bacterial/viral Filter with Hydrophobic HME	Mini electrostatic bacterial/viral Filter with Hydrophobic HME	Mini electrostatic bacterial/viral Filter with Hydrophobic HME	Mini electrostatic bacterial/viral Filter with Hydrophobic HME	Mini electrostatic bacterial/viral Filter with Hydrophobic HME	Neonatal electrostatic bacterial/viral Filter with Hydrophobic HME	Neonatal Hydrophobic HME	Adult Tracheostomy HME	prevents loss of monitoring port eliminates the ri connection by n standard luer.
Expiratory resistance Before use: 30L/min 90L/min After 24hr: 30L/min 60L/min 90L/min	(cmH <sub>2</sub> O) 1.4 3.5 6.4 1.7 3.9 7.0	(cmH <sub>2</sub> O) 1.7 3.5 7.1	(cmH <sub>2</sub> O) 1.4 3.5 6.4 1.7 3.9 7.0	(cmH <sub>2</sub> O) 1.7 3.5 7.1	(cmH <sub>2</sub> O) 1.4 3.5 6.4 1.7 3.9 7.0	(cmH <sub>2</sub> O) 1.7 3.5 7.1	(cmH <sub>2</sub> O) 2.0 5.4 10.8	(cmH <sub>2</sub> O) 2.0 5.7 11.7	(cmH <sub>2</sub> O) 3.1 9.5 20.6	(cmH <sub>2</sub> O) 1.4 at 15 L/min 2.9 at 30 L/min 4.5 at 45 L/min 1.7 at 15 L/min 3.5 at 30 L/min 5.3 at 45 L/min	(cmH <sub>2</sub> O) 1.4 at 15 L/min 2.9 at 30 L/min 4.5 at 45 L/min 1.7 at 15 L/min 3.5 at 30 L/min 5.3 at 45 L/min	(cmH <sub>2</sub> O) 1.4 at 15 L/min 2.9 at 30 L/min 4.5 at 45 L/min 1.7 at 15 L/min 3.5 at 30 L/min 5.3 at 45 L/min	(cmH <sub>2</sub> O) 3.1	(cmH <sub>2</sub> O) 3.1	(cmH <sub>2</sub> O) 4.0	(cmH <sub>2</sub> O) 0.8 at 7.5 LPM	(cmH <sub>2</sub> O) 0.1 at 2.5 LPM 0.2 at 5 LPM 0.3 at 7.5LPM 0.1 at 2.5 LPM 0.2 at 5 LPM 0.4 at 7.5LPM	(cmH <sub>2</sub> O) 0.11 1.0	MECHANIC HepaShield. Me (pleated paper) packed medium paper providing membrane that the passage of c
Dead Space	66ml	52ml	66ml	52ml	66ml	52ml	76ml	96ml	87-105ml	25ml	25ml	25ml	35ml	35ml	46-64ml	8ml	2ml	17ml	through. These
Minimmum Recommended Vt*	198ml	156ml	198ml	156ml	198ml	156ml	228ml	288ml	261ml	75ml	75ml	75ml	105ml	105ml	138ml	>35ml	N/A	N/A	highest levels of together with a
Weight (g)	39g	38g	41g	40g	41g	40g	45g	55g	59g	22g	25g	25g	32g	32g	45g	9g	3.6g	5.1g	for the nation (
CO <sub>2</sub> Monitoring Port	No	No	Yes Tethered Cap	Yes Tethered Cap	Yes LuerSafe* Valve	Yes LuerSafe* Valve	Yes Tethered Cap	Yes Tethered Cap	Yes Tethered Cap	No	Yes Tethered Cap	Yes LuerSafe* Valve	Yes Tethered Cap	Yes LuerSafe* Valve	Yes Tethered Cap	Yes Tethered Cap	No	No	ior the patient.

### VENTISHIELD ANTI BACTERIAL VIRAL FILTERS

	038-41-360	038-41-340	038-41-365	038-41-345	038-41-365LS	038-41-345LS	038-41-366	038-41-366LS	038-42-360	038-42-365	038-42-366	038-42-365LS	038-43-360
Description	Filter	Angled Filter	Filter	Angled Filter	Filter	Angled Filter	Filter & Elbow	Filter & Elbow	Filter	Filter	Filter & Elbow	Filter	Filter
Brand	VentiShield	VentiShield	VentiShield	VentiShield	VentiShield - LuerSafe*	VentiShield - LuerSafe*	VentiShield	VentiShield - LuerSafe*	VentiShield - Mini	VentiShield - Mini	VentiShield - Mini	VentiShield Mini - LuerSafe*	VentiShield Neonatal
Efficiency	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.99%	99.99%	99.99%	99.99%	99.999%
Humidification 1 - 3 hr 1 - 24hr (g/m <sup>3</sup> )	N/A	N/A	N/A	N/A	N/A	N/A							
<b>Type</b> (eg: Hydrophobic mechanical filter)	Adult electrostatic Bacterial / Viral Filter	Mini electrostatic Bacterial / Viral Filter	Mini electrostatic Bacterial / Viral Filter	Mini electrostatic Bacterial / Viral Filter	Mini electrostatic Bacterial / Viral Filter	Neonatal electrostatic Anti-Bacterial Viral Filter							
Expiratory resistance Before use: 30L/min 60L/min 90L/min 60L/min 90L/min 90L/min	(cmH <sub>2</sub> O) 1.2 3.5 7.0	(cmH <sub>2</sub> O) 1.4 3.8 7.7	(cmH <sub>2</sub> O) 1.2 3.5 7.0	(cmH <sub>2</sub> O) 1.4 3.8 7.7	(cmH <sub>2</sub> O) 1.2 3.5 7.0	(cmH <sub>2</sub> O) 1.4 3.8 7.7	(cmH <sub>2</sub> O) 1.5 4.5 9.4	(cmH <sub>2</sub> O) 1.5 4.5 9.4	(cmH <sub>2</sub> O) 1.9	(cmH <sub>2</sub> O) 1.9	(cmH <sub>2</sub> O) 2.2	(cmH <sub>2</sub> O) 1.9	(cmH <sub>2</sub> O) 0.8 at flow rate of 7.5 LPM
Dead Space	66ml	52ml	66ml	52ml	66ml	52ml	76ml	76ml	25ml	25ml	35ml	25ml	8ml
Minimmum Recommended Vt*	198ml	156ml	198ml	156ml	198ml	156ml	228ml	228ml	75ml	75ml	105ml	75ml	>35ml
Weight (g)	30g	31g	32g	33g	33g	31g	38g	38g	19g	20g	28g	21g	9g
CO <sub>2</sub> Monitoring Port	No	No	Yes Tethered Cap	Yes Tethered Cap	Yes LuerSafe* Valve	Yes LuerSafe* Valve	Yes Tethered Cap	Yes LuerSafe* Valve	No	Yes Tethered Cap	Yes Tethered Cap	Yes LuerSafe* Valve	Yes Tethered Cap

### HEPASHIELD (HEPA FILTERS) PLEATED PAPER / **MECHANICAL FILTERS**

	038-41-370	038-41-375	038-41-376	038-42-380	038-42-385	038-42-386	
Description	Filter	Filter	Filter & Elasto Cap Cath Mt	Filter	Filter	Filter & Elbow Cath Mt	
Brand	HepaShield	HepaShield	HepaShield	HepaShield Paediatric	HepaShield Paediatric	HepaShield Paediatric	
Efficiency	99.99999%	99.99999%	99.99999%	99.99999%	99.99999%	99.99999%	
Humidification 1 - 3 hr 1 - 24hr (g/m <sup>3</sup> )	25.3 26.1	25.3 26.1	25.3 26.1	25.3 26.1	25.3 26.1	25.3 26.1	
<b>Type</b> (eg: Hydrophobic mechanical filter)	Hydrophobic Mechanical Bacterial / Viral Filter	Hydrophobic Mechanical Bacterial / Viral Filter	Hydrophobic Mechanical Bacterial / Viral Filter	Paediatric Mechanical Bacterial / Viral Filter	Paediatric Mechanical Bacterial / Viral Filter	Paediatric Mechanical Bacterial / Viral Filter	
Expiratory resistance Before use: 30L/min	(cmH <sub>2</sub> O) 1.4	(cmH <sub>2</sub> O) 1.4	(cmH <sub>2</sub> O) 1.4	(cmH <sub>2</sub> O) 2.7	(cmH <sub>2</sub> O) 2.7	(cmH <sub>2</sub> O) 2.8	
Dead Space	47ml	47ml	74-85ml	35ml	35ml	56-74ml	
Minimmum Recommended Vt*	141ml	141ml	222ml	105ml	105ml	168ml	
Weight (g)	42g	43g	61g	26g	29g	47g	
CO <sub>2</sub> Monitoring Port	No	Yes Tethered Cap	Yes Tethered Cap	No	Yes Tethered Cap	Yes Tethered Cap	

\*Minimum recommended tidal volume (Vt) is based on 3x the dead space; use of capnography is recommended to highlight rebreathing

\*LuerSafe filters supplied with LuerSafe sample line. Re-Order code 010-720 2m Male Luer & 010-725 2m Female Luer.

### ELECTROSTATIC FILTERS & HME'S

ThermoShield. Anti-Bacterial / Viral Filter HME (Heat Moisture Exchange), Neonatal HME only and Adult Tracheostomy HME only.

VentiShield. Anti-Bacterial / Viral Filters.

LuerSafe<sup>™</sup> Cap-less design prevents loss of ventilation when monitoring port not in use and eliminates the risk of misconnection by not accepting a standard luer. **MECHANICAL FILTERS** 

HepaShield. Mechanical filters (pleated paper) utilising a tightly packed medium of hydrophobic paper providing a small pore size membrane that physically stops the passage of organisms passing through. These filters offer the highest levels of filtration efficiency together with a certain amount of humidification (moisture output)