



ISSUE

13

(13 A2 12-2023)



# THE INHALATION SEDATION SPECIALISTS

We specialise in the supply and maintenance of Inhalation Sedation Equipment for use in dental and other medical environments. This enables us to focus on client requirements, providing a total solution to all needs.

#### Choice

Offering a wide choice of products from various manufacturers, continually undergoing evaluation for client suitability and conformity to standards.

#### Service

We strive to ensure competitive pricing, ensuring that our clients need never withhold proper maintenance due to economic consideration. All our engineers are manufacturer trained and R A Medical holds sole OEM (Original Equipment Manufacturer) UK authorised service agent status for Matrix, Porter and Accutron products.

#### Advice

Our depth of knowledge in the field, covers 60+ years of experience; enabling us to offer sound, practical advice in all aspects of inhalation sedation administration. We operate a policy of assistance and support for the promotion of Relative Analgesia in dentistry and are willing to sponsor, advise and demonstrate, actively supporting post-graduate, lecture and training courses for health authorities and specialist interest organisations.

#### Safety & Quality

Quality control is of paramount importance within R A Medical. Strict procedures control all aspects of operation. We currently hold and operate to BS EN ISO 9001: 2015.



**TO PLACE  
YOUR ORDER  
SIMPLY E-mail**

**+44 (0)1535 652444  
info@ramedical.com**

FOR PAYMENT TERMS, CONDITIONS OF SALE,  
AND HOW TO PAY SEE PAGE 18

# CONTENTS

Frequently Asked Questions / Useful Contacts	3
Nitrous Oxide Scavenging / MiniScav™	4
Matrx by Porter Sedation Equipment	5
Porter Nitrous Oxide Scavenger Breathing Systems	6
Porter System Sundries	7
Silhouette™ Breathing System	8
Porter Sedation Equipment	9
Matrx ANS System and Mount Arms	10
Accutron Sedation Equipment	11
Accutron Clearview Disposable Masks	12
Accutron Scavenger Systems and Scented Disposable Masks	13
Accutron Axxess Scavenger System	14
Nitrous Oxide Monitoring Pulse Oximetry & Resuscitation	15
Medical Pipeline Equipment and Regulators	16
Medical Gases Information	17
Payment Terms, Conditions of Sale & How to Pay	18

**FIND OUT MORE AT  
RAMEDICAL.COM**

For White Papers and the Latest News

# FREQUENTLY ASKED QUESTIONS AND USEFUL CONTACTS

## DEFINITION OF CONSCIOUS SEDATION

Conscious sedation 4.11 GDC : Maintaining Standards

A technique in which the use of a drug or drugs produces a state of depression of the central nervous system enabling treatment to be carried out, but during which verbal contact with the patient is maintained throughout the period of sedation. The drugs and techniques used to provide conscious sedation for dental treatments should carry a margin of safety wide enough to render loss of consciousness unlikely. The level of sedation must be such that the patient remains conscious, retains protective reflexes, and is able to understand and to respond to verbal commands.

In the case of patients who are unable to respond to verbal contact even when fully conscious the normal method of communicating with them must be maintained.

## EQUIPMENT FOR NITROUS OXIDE/OXYGEN INHALATION SEDATION

Dedicated purpose-designed machines for the administration of inhalation sedation (formerly termed relative analgesia) for dentistry should be used. Such machines should conform to British Standards and be maintained according to manufacturers' guidance with regular, documented servicing. Scavenging of Waste Gases must be active and sufficient to fully conform to current C.O.S.H.H. standards. Breathing systems should have a separate inspiratory and expiratory limb to allow proper scavenging. Nasal masks should be close fitting providing a good seal without air entrainment valves. Ref: **Conscious Sedation in the Provision of Dental Care.**

Report of an Expert Group on Sedation for Dentistry DOH 2003

## USEFUL CONTACTS

Society for Advancement of Anaesthesia In Dentistry  
21 Portland Place, London. W1B 1PY  
email: [info@saad.org.uk](mailto:info@saad.org.uk)



Executive Secretary - Fiona Trimingham  
Tel: 01302 846149  
[www.saad.org.uk](http://www.saad.org.uk)

Dental Sedation Teachers Group  
email: [enquiries@dstg.co.uk](mailto:enquiries@dstg.co.uk)  
Brian Kerr - Chairman  
King's College London Dental Institute  
Floor 26, Tower Wing,  
Guy's Hospital, Great Maze Pond,  
London SE1 9RT  
[www.dstg.co.uk](http://www.dstg.co.uk)



## WHY SHOULD I HAVE MY EQUIPMENT SERVICED?

'Conscious Sedation in the Provision of Dental Care' 2003, states that equipment should receive "regular and documented servicing".

Equipment should be maintained by a O.E.M. (Original Equipment Manufacturer) trained Service Provider. In the UK this effectively means one field service per annum. However, frequency of equipment use may indicate a requirement for 6 monthly service intervals.

A standard field service includes: Engineer attending on site, all standard service components, certification and performance warranty. Cover does not include accidental damage or equipment mis-use.

**Please note:** Any damaged or failed components, additional to standard parts and replaced at time of service are charged at list price in operation at time of service visit.

A postal service facility is also available for more remotely placed equipment, where it may not always be possible to offer an engineer attending on site on a regular basis.

Service of other Manufacturer flowmeters is available - please contact our Customer Service Department for further details.

R A Medical Services are the sole O.E.M. trained service provider in the UK and Eire for the following range:  
Porter, Matrx and Accutron.

## HOW DO I ORGANISE A SERVICE VISIT?

Contact Customer Services on 01535 652444 or email [info@ramedical.com](mailto:info@ramedical.com)  
A Service Co-ordinator will then contact you to arrange a visit.

Every endeavour is made to accomodate specific requests with regard to time of day and date of attendance.

Following a service visit, you will then be automatically offered a visit on an annual basis unless instructed otherwise.

**Important Note:** It is vital that sufficient supplies of oxygen and nitrous oxide medical gases are available when the engineer attends on-site. Failure to provide these may result in a failed attendance charge being levied.

**CODE OF PRACTICE:** As a member of the British Dental Industry Association, R A Medical adhere to a Code of Practice. As such, we agree to ensure, as far as is practical or achievable, to ensure that products offered for sale are supported by adequate stocks and technical information. In addition, we as suppliers have ensured that equipment repair facilities and spare parts will be available to support the customer for the normal life of the product.



# MINISCAV™ NITROUS OXIDE SCAVENGING

## MINISCAV ACTIVE SCAVENGER

RA2070 £1300.00

Miniscav Active Scavenger Unit. Complete with one metre 15mm flexible transfer hose assembly w/quick fitting connections. Rigid external waste vent assembly and 2m power lead.

Unit is CE marked and complies with IEC 60601-1:2005.

Requires a 240v power socket and 16mm external wall vent.

Please note: for longer flexible transfer hose assemblies add £10.00 per metre at time of ordering.

## EXTERNAL WASTE VENT ASSEMBLY

RA2071 £40.00

(New Type) Additional rigid waste vent assembly with internal stem elbow fitting. Length of poly pipe 470mm standard

## ONE METRE TRANSFER HOSE

RA2072 £40.00

Replacement one metre flexible transfer hose

## TWO METRE TRANSFER HOSE

RA2073 £50.00

Replacement two metre flexible transfer hose

## REPLACEMENT POWER LEAD

RA2060 £20.00

## REPLACEMENT EXTERNAL ELBOW

RA2078 £21.00

Equal elbow connector - Exterior fitting.

## REPLACEMENT INTERIOR ELBOW

RA2077 £21.00

Stem elbow - Interior fitting.



Width 160mm x Length 320mm x Height 250mm /  
Weight 9.25 Kg.

Distance between nylon fitting end face and mounting surface: 46.5mm  
Clearance required for rear hose fitting: 92.41mm

## USER GUIDANCE FOR MINISCAV™

1) For installation please refer to the Manual; available on [www.ramedical.com](http://www.ramedical.com)

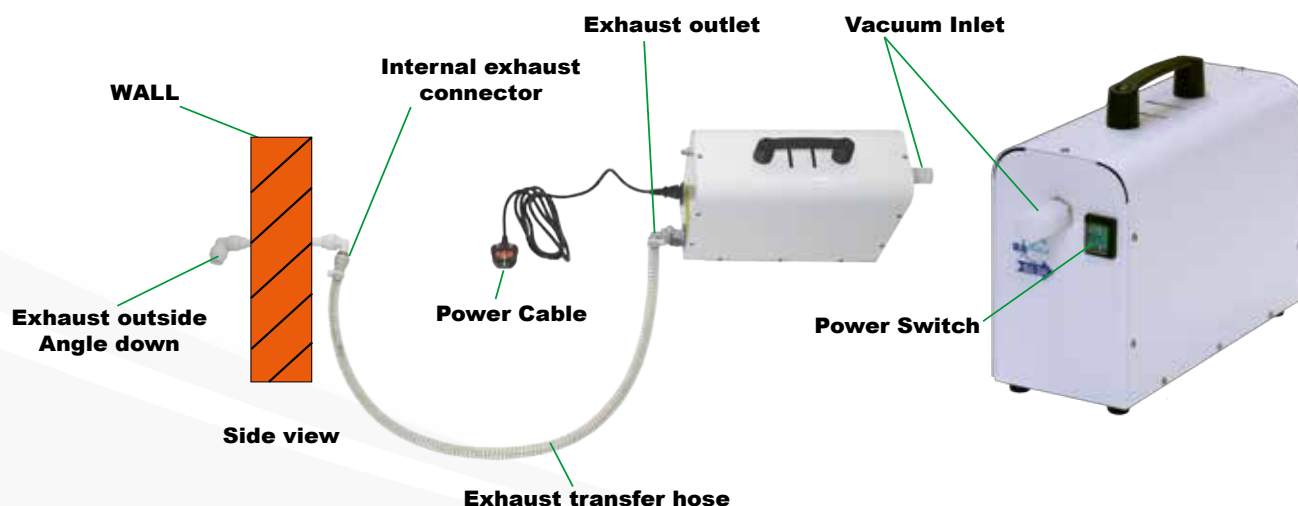
2) It is essential to use an Active breathing system with the Miniscav - i.e. one capable of an air flow rate at the nasal mask of 40-45 L/min.

**Please note: The Miniscav will not work with a Passive type dental breathing system i.e. corrugated hose and single nasal mask type.**

**Never hang the exhaust hose out of a window.**

**Note, 2020 onwards, Only new 'push fit' type of venting model available i.e. RA2070**

Older models i.e. RA2046 will still be supported for a period of no more than 10 years and spare parts are available. For further information, please contact Customer Services on 01535 652444 or email [info@ramedical.com](mailto:info@ramedical.com)





# MATRIX BY PORTER SEDATION EQUIPMENT

## R A HEAD ONLY

### QUANTIFLEX MDM R A HEAD 9450 0150 £2600.00

Quantiflex Monitored Dial Mixer (MDM). Features oxygen/nitrous oxide flowtubes, in-ratio oxygen failsafe, oxygen flush, air intake valve, non-rebreathing check valve, mixture percentage dial, total flow control knob (Auto Compensating). Standard ISO model with DISS Fittings.

### DIGITAL MDM R A HEAD 9152 5265 £2900.00

Digital Monitored Dial Mixer (DMDM) - electronic model. Auto compensating flat touch screen flowmeter with LCD. Audible and visual oxygen failure alarms. Power cord. Auxiliary oxygen port for Demand Valve Resuscitator. Standard ISO model with DISS Fittings.

## SEDATION PACKAGES

### MDM SEDATION PACKAGE 9450 0150/P £5260.00

Sedation Package comprising: MDM flowmeter, top mounting mobile 4 cylinder stand w/pair DISS medical gas supply hoses (oxygen/nitrous oxide), latex free reservoir bag, pack cylinder content labels (4) and scavenger breathing system. Max Height 53" Min Height 40"

### DMDM SEDATION PACKAGE 9152 5176/P £5450.00

Sedation Package comprising: DMDM flowmeter, top mounting mobile 4 cylinder stand w/pair DISS medical gas supply hoses (oxygen/nitrous oxide), latex free reservoir bag, pack cylinder content labels (4) and scavenger breathing system.

## MATRIX MOUNTING OPTIONS

### MOBILE 4 CYLINDER STAND 2045-3RA £2260.00

Mobile 4 cylinder stand 26" Post (5 leg base) w/cylinder restraint and pair oxygen/nitrous oxide DISS/DISS hoses. Top mounting. Base 20" x 20"

### HIGH MOBILE STAND 2042 £365.00

Matrix high mobile stand. 5 leg base (no yoke assembly) Base 20" x 20"

### SHORT MOBILE STAND 2040 £335.00

Matrix short mobile stand. 5 leg base (no yoke assembly) Base 20" x 20"

### MATRIX SWING ARM BRACKET 2020 £335.00

Matrix telescoping swing arm bracket (extends 15"). Including bottom mounting peg.

### MOUNTING PEG 9150 5093 £40.00

Bottom mounting peg with nut (for use with telescoping bracket)

## MATRIX SPARES

### STAND T HANDLE A-4060-000 £40.00

Replacement T Handle for Matrix Mobile 4 Cylinder Stand

### CYLINDER RESTRAINT C-1658-000 £140.00

Replacement cylinder restraint only for latest type of stand 2011 onwards



MDM & 4 Cylinder Stand



9152 5265



2040



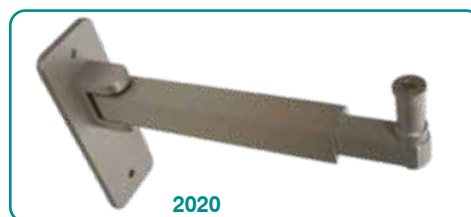
C-1658-000



9150 5093



A-4060-000



2020



2045-3RA



DMDM & 4 Cylinder Stand



9450 0150



2042

# PORTER BREATHING SYSTEMS & DISPOSABLES

## PORTER BROWN SYSTEM ADULT

5155-1 £490.00

Porter brown scavenger breathing system w/Adult hood complete with outer mask, three inner liners and pair hood/hose connectors. Latex free & autoclavable.

## PORTER BROWN SYSTEM PEDO

5155-2 £490.00

Porter brown scavenger breathing system w/Paediatric hood complete with outer mask, three inner liners and pair hood/hose connectors. Latex free & autoclavable.



5155-1 Porter Brown

## PORTER ADULT HOOD ASSEMBLY

5054A £250.00

Porter Adult hood assembly comprising: Outer hood, three adult inner liners and pair of hood/hose connectors. Latex free and autoclavable.

## PORTER PAEDIATRIC HOOD ASSY

5054B £250.00

Porter Paediatric hood assembly comprising: Outer hood, three paediatric inner liners and pair of hood/hose connectors. Latex free and autoclavable.

## PORTER OUTER HOOD - ADULT

5054C £220.00

Porter Adult outer hood. Complete with one inner liner and pair of hood/hose connectors. Latex free and autoclavable

## PORTER OUTER HOOD - PEDO

5054D £220.00

Porter Paediatric outer hood. Complete with one inner liner and pair of hood/hose connectors. Latex free and autoclavable

## PORTER HOOD LINERS - ADULT

5054-1 £56.00

Pack of 3 Adult inner liners. Latex free and autoclavable.

## PORTER HOOD LINERS - PEDO

5054-2 £56.00

Pack of 3 Paediatric inner liners. Latex free and autoclavable.

## REPLACEMENT LINER VALVES

5066 £25.00

Pack of 3 replacement Porter inner liner flapper valves. Latex free.



RA2056



RA2055



Pack of 12

## PORTER DISPOSABLE LINERS

### ADULT LINERS - PACK 12

Porter Adult Unscented disposable liners - (Green)

5053AD12  
£42.00

### ADULT LINERS - BOX 144

Porter Adult Unscented disposable liners box 144 (12 x packs 12) (Green)

5053AD144  
£325.00

### ADULT LINERS - PACK 12

Porter Adult Citrus disposable liners - (White)

5053AD12C  
£42.00

### ADULT LINERS - BOX 144

Porter Adult Citrus disposable liners - box 144 (12 x packs 12) (White)

5053AD144C  
£325.00

### PEDO LINERS - PACK 12

Porter Pedo Unscented disposable liners - (Green)

5053PD12  
£42.00

### PEDO LINERS - BOX 144

Porter Adult Unscented disposable liners - box 144 (12 x packs 12) (Green)

5053PD144  
£325.00

### PEDO LINERS - PACK 12

Porter Pedo Citrus disposable liners - (White)

5053PD12C  
£42.00

### PEDO LINERS - BOX 144

Porter Pedo Citrus disposable liners - box 144 (12 x packs 12) (White)

5053PD144C  
£325.00

## DISPOSABLE ITEMS

### MORE PRODUCTS ON PAGE 12

## DISPOSABLE COAXIAL HOSE

Pack 50 pairs disposable coaxial hose (green)

RA2006 £180.00

## DISPOSABLE COAXIAL HOSE

Pack 100 pairs disposable coaxial hose (green)

RA2007 £320.00

## DISPOSABLE HOOD/HOSE CONNECTORS

Pack 100 disposable hood/hose connectors (clear)

RA2055 £28.00

## DISPOSABLE SLIDE ADJUSTER

Pack 50 disposable slide adjusters (clear)

RA2056 £17.00



5054A



5054-PD



5054-1



5053AD12



5053PD12C



RA2006/7

# PORTER SYSTEM SUNDRIES

## COAXIAL INHALER TUBING

5056 £180.00

Pair Porter coaxial inhaler tubing (grey) autoclavable and latex free.

## TENSION SLIDE ADJUSTER

5057 £26.00

Porter tension slide adjuster for coaxial hose (grey) autoclavable.

## FRESH GAS HOSE Y CONNECTOR

5058 £31.00

Porter fresh gas Y connector (grey) autoclavable.

## 8 FOOT VACUUM HOSE

5059 £52.00

Porter replacement 8 foot vacuum hose (grey) autoclavable.

## 3 FOOT FRESH GAS HOSE

5060-3 £44.00

Porter 3 foot fresh gas hose (white) non-autoclavable.

## 6 FOOT FRESH GAS HOSE

5060-6 £56.00

Porter 6 foot fresh gas hose (white) non-autoclavable.

## MASK TO TUBING CONNECTORS

5061 £44.00

Porter mask to coaxial hose tubing connectors (pair) (grey) autoclavable.

## VACUUM HOSE Y CONNECTOR

5062 £31.00

Porter vacuum hose Y connector (grey) autoclavable.

## VACUUM TUBE HOLDER

5065 £26.00

Porter vacuum hose management clip (grey) non-autoclavable.

## VACUUM CONTROL BLOCK

5501-RK £80.00

Porter vacuum control block (flow limiter) non-autoclavable.

## BLACK VACUUM ADAPTER

A-3679-000 £22.00

## VACUUM HOSE CONNECTOR

RA2010 £12.00

Connector for joining two lengths of vacuum hose (white).

## 1.5M FRESH GAS HOSE

RA2011 £43.00

Optional fresh gas hose (cream) autoclavable.

## VACUUM HOSE REINFORCING LOOP

RA2012 £16.00

Vacuum hose corrugated reinforcing loop.

## AGS/PROBE ADAPTER

RA2013 £55.00

Porter AGS/probe adapter - for use with AGSS terminal.

## 2 LITRE RESERVOIR BAG

RA2014 £35.00

2 Litre latex free reservoir bag (grey) autoclavable.

## 3 LITRE RESERVOIR BAG

RA2015 £35.00

3 Litre latex free reservoir bag (grey) autoclavable.

## BODOK SEALS

RA2017 £13.00

Replacement bodok seals - pack 4.

## CYLINDER CONTENT LABELS

RA2018 £14.00

Cylinder content labels - pack 4. IN-USE / FULL.

## RATCHET CYLINDER KEY

RA2019 £42.00

Ratchet cylinder key.

## BULLNOSE CYLINDER KEY

RA2020 £12.00

Bullnose cylinder key (spindle).

## MOBILE STAND COVER

RA2021 £45.00

Mobile 4 cylinder cover. Washable cotton fabric available in various colours/designs. Please call customer services for samples/available designs.

## T HANDLE FOR CYLINDER STAND

A-4060-000 £42.00

Replacement T handle for 4 cylinder stand yoke assembly

## 22MM FRESH GAS CONNECTOR

1751-22 £25.00

Porter 22mm right angled fresh gas connector (white).

## MXR FLOW CONTROL KNOBS

P2400 £142.00

Replacement MXR flow controls (pack of 2)



A-3679-000



P2400



RA2013



1751-22



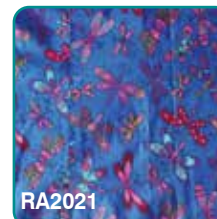
5065



PA-236-001



5501-RK



RA2021



5057



5061



A-4060-000



5058



RA2019



5060-3



5062



RA2014



RA2017



RA2018



# SILHOUETTE™ BREATHING SYSTEM

## FLOWMETER CONNECTION KIT **SIL-CONN-KIT** £68.00

Flowmeter connection kit (order one for each flowmeter) - Includes: cannula adapter, breathing bag cap, 2 metre fresh gas/vacuum tubing, 4 colour coded sizer masks, and clip.



## ADDITIONAL DISPOSABLE ITEMS

### SILHOUETTE SIZER MASKS

**SIL-SIZERS-4** £27.00

Colour coded - 1 for each size (included with SIL-CONN-KIT)

### SILHOUETTE ADAPTER KIT

**SIL-ADPT-KIT** £33.00

3 each cannula adapter, clip with strap and bag tee cap.

### FRESH GAS AND VACUUM

**B-5581-000** £55.00

Fresh gas and vacuum tubing, 3/8" + 1/4" x 2 metres long

### CANNULA ANGLED ADAPTER (5)

**B-5603-005** £22.00

5 pack

### BAG TEE CAP - SINGLE

**62905510W** £5.00

### BAG TEE CAP (WHITE) PACK 5

**62905510W5** £16.00

### 22MM RIGHT ANGLE ADAPTER

**1571-22** £25.00

### VACUUM ADAPTER (BLACK)

**A-3679-00** £22.00

### VACUUM CONTROL BLOCK

**5501-RK** £80.00

## CAPNOGRAPHY CONNECTION



62905510W5



B-5603-005



SIL-SIZER-4

## SILHOUETTE - 12 - PACKS. EACH CODE: £145.00

Variety 12 Pack: 3 Silhouette masks of each size - Paediatric, Adult Small, Medium, Large

12 Pack: Paediatric Silhouette Masks

Adult small 12 pack: Adult Small Silhouette Masks

Medium 12 pack: Medium Silhouette Masks

Large 12 Pack: Large Silhouette Masks

**SIL-VAR-4X3**

**SIL-PEDO-12**

**SIL-SM-12**

**SIL-MED-12**

**SIL-LG 12**

## SILHOUETTE - 24 - PACKS. EACH CODE: £230.00

24 Pack: Paediatric Silhouette Masks

Adult small 24 pack: Adult Small Silhouette Masks

Medium 24 pack: Medium Silhouette Masks

Large 24 Pack: Large Silhouette Masks

**SIL-PEDO-24**

**SIL-SM-24**

**SIL-MED-24**

**SIL-LG 24**



# PORTER SEDATION EQUIPMENT

## SEDATION PACKAGES

### C3000 MXR R A HEAD

C3000 £2,600.00

C3000 MXR R A head with dual seal failsafe, emergency air-intake and 100% oxygen flush button. Maximum 70% Nitrous Oxide.

### SEDATION PACKAGE 1

C3400-RA £5,260.00

Sedation package comprising: C3000 MXR, top mounting 4 cylinder stand w/pair DISS medical gas supply hoses, reservoir bag, pack cylinder labels and scavenger breathing system. (Latex free)

### SEDATION PACKAGE 2

C3400-RA Short £5,260.00

Sedation package comprising: C3000 MXR, low mounting (S Bracket) 4 cylinder stand (allows under cabinet storage), w/pair DISS medical gas supply hoses, reservoir bag, pack cylinder labels and scavenger breathing system. (Latex free)

(head not included)



2045-S3RA

## PORTER MOUNTING OPTIONS

### MOBILE 4 CYLINDER STAND

2045-3RA £2,260.00

Mobile 4 cylinder stand 26" post (5 leg base) w/cylinder restraint and pair oxygen/nitrous oxide DISS/DISS hoses. Top mounting.

### MOBILE 4 CYLINDER STAND

2045-S3RA £2,260.00

Mobile 4 cylinder stand as above but with low mounting S bracket. Maximum height 36". Base 13" by 19"

### TALL MOBILE STAND

RA2042 £365.00

5-leg base (no yoke assembly).

### SHORT MOBILE STAND

RA2040 £365.00

5-leg base (no yoke assembly). Flowmeter height adjusts from 24" to 36" maximum.

### REPLACEMENT MXR BAG TEE ASSEMBLY

P1407A £233.00

### REPLACEMENT MXR KNOBS

P2400 £142.00

Porter replacement knobs for MXR (pair) autoclavable.

### PERSPEX COVER FOR C3000

PA-236-001 £60.00

Replacement clear perspex cover for Porter C3000 R A Head



RA2042  
(MXR not included)



C3000

# MATRIX ANS SCAVENGER SYSTEM AND MOUNTINGS

## FLEXIBLE HOSES

### OXYGEN FLEXIBLE MEDICAL GAS HOSE ASSEMBLY

RA2001 £90.00

One metre - DISS to BS probe. Note: to extend hose please call

### NITROUS OXIDE FLEXIBLE MEDICAL GAS HOSE ASSEMBLY

RA2002 £90.00

One metre - DISS to BS probe. Note: to extend hose please call

### OXYGEN FLEXIBLE MEDICAL GAS HOSE ASSEMBLY

RA2003 £90.00

(Flowmeter to stand) one metre DISS to DISS.

### NITROUS OXIDE MEDICAL GAS HOSE ASSEMBLY

RA2004 £90.00

(Flowmeter to stand) one metre DISS to DISS.



## AUTOCCLAVABLE NASAL HOODS

£75.00

Matrix Small Autoclavable Nasal Hood (blue)

9151 5094

Matrix Medium Autoclavable Nasal Hood (blue)

9151 5095

Matrix Large Autoclavable Nasal Hood (blue)

9151 5096

## ACTIVE ANS SCAVENGER SYSTEM

£310.00

Matrix Autoclavable Nitrous Scavenger System with Small Nasal Hood. Latex Free and autoclavable up to 134° C.

9151 5194

Matrix Autoclavable Nitrous Scavenger System with Medium Nasal Hood. Latex Free and autoclavable up to 134° C.

9151 5193

Matrix Autoclavable Nitrous Scavenger System with Large Nasal Hood. Latex Free and autoclavable up to 134° C.

9151 5192

## MATRIX REPLACEMENT SCAVENGING CONE ASSY

9151 5177

£95.00

Matrix ANS replacement scavenging hub



9151 5194

## ARM MOUNT OPTIONS

### SOLID WALL MOUNT

2020 £335.00

Telescoping arm extends to 18"

### CABINET MOUNT

2035-1 £335.00

Slide Away - extends 5" from cabinet. Base plate 9.5" X 3"

### CABINET SLIDE MOUNT

P2036-3 £335.00

Slides out for easy access and retracts for storage. Base plate 10" x 5" - extends 9" from cabinet when in use.



2020



P2035-1



P2036-3



9151 5094



9151 5177 ANS scavenging cone assembly

# ACCUTRON SEDATION EQUIPMENT

## ACCUTRON ULTRA SEDATION PACKAGES

### ULTRA PC™ % FLOWMETER

31975

£2700.00

Single-knob total flow control. Nitrous Oxide ratio control with 70% maximum. Oxygen fail-safe. Oxygen flush; 100 L/min. Oxygen resuscitator connection. Emergency air valve. Directional check valve. Standard ISO model with DISS fittings. Dimensions (WxHxD): 11cm x 27cm x 20cm. Weight: 2 kg.



ULTRA PC™  
FLOWMETER

## ACCUTRON MOUNTING OPTIONS

### MOBILE 4 CYLINDER STAND

44000-INT

£2205.00

Mobile 4 cylinder stand (5 leg base) w/cylinder restraint and pair oxygen/nitrous oxide DISS/DISS hoses. Top mounting.

### MOBILE 4 CYLINDER STAND (S)

28373-INT

£2205.00

Mobile 4 cylinder stand (5 leg base) w/cylinder restraint and pair oxygen/nitrous oxide DISS/DISS hoses. S bracket mounting.

### TELESCOPING WALL ARM

32003

£335.00

Telescoping swing arm bracket. Extends 12" to 17".

### BI-FOLD WALL ARM

32001

£335.00

16" Bi-Fold wall arm.

## ACCUTRON SUNDRIES

### PERSPEX ULTRA COVER

24551

£50.00

### E YOKE HANDLE

27302

£43.00

Replacement E yoke handle for Accutron mobile 4 cylinder stand.

### NITROUS OXIDE LOCK KEY

24555

£25.00

Replacement set (2) Nitrous Oxide lock keys.

### VELCRO STRAP

23579

£20.00

Replacement velcro strap for 4 cylinder stand restraint.

## ACCUTRON ULTRA DIGITAL SEDATION PACKAGES

### DIGITAL ULTRA FLOWMETER™

26400-WAUK

£3150.00

Digital and analogue flow indication for each gas. Dimensions: 7 1/2"W x 7"H x 8 3/4"D weight 6.3 lbs DISS fittings. For bracket mounting.

### DIGITAL ULTRA PACKAGE A

56100 - INT

£5350.00

Includes: Digital Ultra flowmeter, Mobile 4 cylinder stand - top mounting inc pair oxygen/nitrous oxide DISS-DISS hoses, 2L reservoir bag, pack cylinder content labels & breathing system of choice.



Digital Ultra flowmeter



Accutron mobile 4 cylinder  
stand



Bi-Fold wall arm



# ACCUTRON CLEARVIEW+™ DISPOSABLE NASAL HOODS

## CLEARVIEW NASAL HOODS

- Hood-in-hood design minimizes ambient nitrous oxide in surgery
- Clear outer hood shows 'breathing through nose' respiration (condensation appears in hood)
- Soft inner hood creates improved facial seal
- Low profile expands clinical field of view
- Appealing colours and scents engage and relax patients
- Single-use minimizes cross-contamination; saves staff time
- Use with other brands of scavenging system
- Latex Free

## CLEARVIEW+™ NASAL HOODS - PACK 12 £71.00

Large Adult Unscented Grey	Single Patient Use Nasal Hoods.	<b>33034-9</b>
Large Adult Outlaw Orange	Single Patient Use Nasal Hoods.	<b>33034-10</b>
Large Adult French Vanilla	Single Patient Use Nasal Hoods.	<b>33034-14</b>
Large Adult Fresh Mint	Single Patient Use Nasal Hoods.	<b>33034-16</b>

Adult Unscented Grey	Single Patient Use Nasal Hoods.	<b>33035-9</b>
Adult Outlaw Orange	Single Patient Use Nasal Hoods.	<b>33035-10</b>
Adult Birthday Bubblegum	Single Patient Use Nasal Hoods.	<b>33035-12</b>
Adult French Vanilla	Single Patient Use Nasal Hoods.	<b>33035-14</b>
Adult Fresh Mint	Single Patient Use Nasal Hoods.	<b>33035-16</b>

Pedo Unscented Grey	Single Patient Use Nasal Hoods.	<b>33037-9</b>
Pedo Outlaw Orange	Single Patient Use Nasal Hoods.	<b>33037-10</b>
Pedo Sassy Strawberry	Single Patient Use Nasal Hoods.	<b>33037-11</b>
Pedo Birthday Bubblegum	Single Patient Use Nasal Hoods.	<b>33037-12</b>
Pedo Groovy Grape	Single Patient Use Nasal Hoods.	<b>33037-17</b>



## ADDITIONAL DISPOSABLE ITEMS

### DISPOSABLE COAXIAL HOSE

RA2006 £180.00

Pack 50 pairs disposable coaxial hose (green)

### DISPOSABLE COAXIAL HOSE

RA2007 £320.00

Pack 100 pairs disposable coaxial hose (green)

### DISPOSABLE HOOD/HOSE CONNECTORS

RA2055 £28.00

Pack 100 disposable hood/hose connectors (clear)

### DISPOSABLE SLIDE ADJUSTER

RA2056 £17.00

Pack 50 disposable slide adjusters (clear)

### VACUUM Y CONNECTOR 10

RA2057 £11.00

Pack of 10 Vacuum Y Connector

### VACUUM Y CONNECTOR 100

RA2058 £96.00

Pack of 100 Vacuum Y Connector

### 22MM DISPOSABLE HOSE 10

RA2080 £28.00

Box 10 800mm 22mm Disposable fresh gas hose

### 22MM DISPOSABLE HOSE 10

RA2081 £33.00

Box 10 1200mm 22mm Disposable fresh gas hose

### FRESH GAS Y CONNECTOR 10

RA2082 £16.00

Pack of 10 Fresh Gas Y Connector

### FRESH GAS Y CONNECTOR 100

RA2083 £146.00

Pack of 100 Fresh Gas Y Connector

## CLEARVIEW™ CO<sub>2</sub> CAPNOGRAPHY PACK 12 £100.00

Pedo Unscented Grey	<b>43037-9</b>
Pedo Birthday Bubblegum	<b>43037-12</b>

Adult Unscented Grey	<b>43035-9</b>
Adult French Vanilla	<b>43035-14</b>

Large Adult Unscented Grey	<b>43034-9</b>
Large Adult Fresh Mint	<b>43034-16</b>

To enable connection to capnography monitor sample line for verification of patient end-tidal CO<sub>2</sub>



# ACCUTRON SCAVENGER SYSTEMS & SCENTED DISPOSABLE MASKS

## ACCUTRON SCAVENGER CIRCUIT

£450.00

Clearview scavenging circuit includes 3 foot fresh gas hose, vacuum control valve and complimentary ClearView single-use nasal hoods. Pack of 9 (3 small, 3 medium, 3 large)

43003

Scavenger circuit including 3 foot fresh gas hose, vacuum control valve and 24 assorted single-use scented hoods.

33010

Scavenger circuit including 3 foot fresh gas hose, vacuum control valve and large multi-use nasal hood.

33011

Scavenger circuit including 3 foot fresh gas hose, vacuum control valve and medium multi-use nasal hood.

33012

Scavenger circuit including 3 foot fresh gas hose, vacuum control valve and small multi-use nasal hood.

33013

## SCAVENGING CIRCUIT COMPONENTS

### SCAVENGING HUB

22099

£45.00

Replacement clear perspex scavenging hub. Autoclavable.

### FRESH GAS Y CONNECTOR

21245

£38.00

Replacement white fresh gas Y connector.

### VACUUM Y CONNECTOR

21246

£38.00

Replacement white vacuum Y connector.

### DOUBLE CONNECTORS

21178

£35.00

Replacement white single nasal hood/tubing connector (Pack 2).

### VACUUM GAUGE

22122

£108.00

Replacement vacuum control gauge.

### TUBE SLIDE

26253

£28.00

Replacement white double tube slide.

### SPIRAL VACUUM TUBE

25592

£51.00

Replacement white spiral vacuum tube - 1 1/2"

### SPIRAL VACUUM TUBE

25591

£58.00

Replacement white spiral vacuum tube - 3 1/2" (Includes single vacuum connector - part no: 26254).

## SCENTED NASAL HOODS - PACK 24

£95.00

Small Unscented Grey	Single Patient Use Nasal Hoods.	33017-9
Small Outlaw Orange	Single Patient Use Nasal Hoods.	33017-10
Small Sassy Strawberry	Single Patient Use Nasal Hoods.	33017-11
Small Birthday Bubblegum	Single Patient Use Nasal Hoods.	33017-12
Small Groovy Grape	Single Patient Use Nasal Hoods.	33017-17
Small Variety Pack (O,B,S)	Single Patient Use Nasal Hoods.	33017-1

Medium Unscented Grey	Single Patient Use Nasal Hoods.	33016-9
Medium Outlaw Orange	Single Patient Use Nasal Hoods.	33016-10
Medium Sassy Strawberry	Single Patient Use Nasal Hoods.	33016-11
Medium Birthday Bubblegum	Single Patient Use Nasal Hoods.	33016-12
Medium Pina Colada	Single Patient Use Nasal Hoods.	33016-13
Medium French Vanilla	Single Patient Use Nasal Hoods.	33016-14
Medium Perfect Peach	Single Patient Use Nasal Hoods.	33016-15
Medium Fresh Mint	Single Patient Use Nasal Hoods.	33016-16
Medium Variety Pack 1 (O,B,S)	Single Patient Use Nasal Hoods.	33016-1
Medium Variety Pack 2 (PC,V,O)	Single Patient Use Nasal Hoods.	33016-2
Medium Variety Pack 3 (P, M,V)	Single Patient Use Nasal Hoods.	33016-3

Large Unscented Grey	Single Patient Use Nasal Hoods.	33015-9
Large French Vanilla	Single Patient Use Nasal Hoods.	33015-14
Large Perfect Peach	Single Patient Use Nasal Hoods.	33015-15
Large Fresh Mint	Single Patient Use Nasal Hoods.	33015-16
Large Variety Pack 3 (P, M,V)	Single Patient Use Nasal Hoods.	33015-3

## PB TO ACCUTRON ADAPTER

35000

£95.00

Porter brown to Accutron nasal hoods adapter. Allows Accutron single nasal hoods -both autoclavable and disposable - to be used with the Porter brown scavenger system.

## AUTOCCLAVABLE NASAL HOODS

£95.00

Multi-use Small autoclavable nasal hood (grey)  
Multi-use Medium autoclavable nasal hood (grey)  
Multi-use Large autoclavable nasal hood (grey)

33020

33019

33018



PB to Accutron Adapter



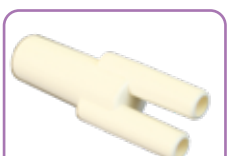
22099



43005



33018, 33019, 33020



21246



21245



Strawberry



Bubblegum



33016-10

# ACCUTRON AXESS SCAVENGER SYSTEM

## ACTIVE SCAVENGING CIRCUIT

### AXESS SCAVENGING CIRCUIT 53005 £182.00

Includes 6' long low profile scavenging circuit with in-line vacuum controller, adapters for connecting non-Accutron vacuum controllers & instructions for use.

## REPLACEMENT ITEMS

### AXESS EXTENSION TUBING 53004 £45.00

Tubing (extends by 32")



Axess low profile nasal masks offer better visibility and easier access with unobstructed view of the oral cavity. They are designed to connect to slender, lightweight scavenger circuit tubing which is autoclavable. The mask itself is single use only to minimize cross-contamination. Available in two scents; Mint & Bubblegum, also Unscented. The masks have a contoured design, providing a good seal to minimize ambient nitrous oxide and gas flow into the patient's eyes. Translucent colours and clear mask design shows the patient is correctly breathing through their nose as the mask fogs upon exhalation. Latex Free.

### AXESS LOW PROFILE NASAL MASK - PACK 24 LARGE £120.00

Large Unscented	Single Patient Use Nasal Hoods.	53034-9
Large Bubblegum	Single Patient Use Nasal Hoods.	53034-12
Large Mint	Single Patient Use Nasal Hoods.	53034-16

### AXESS LOW PROFILE NASAL MASK - PACK 24 MEDIUM £120.00

Medium Unscented	Single Patient Use Nasal Hoods.	53035-9
Medium Bubblegum	Single Patient Use Nasal Hoods.	53035-12
Medium Mint	Single Patient Use Nasal Hoods.	53035-16

### AXESS LOW PROFILE NASAL MASK - PACK 24 SMALL £120.00

Small Unscented	Single Patient Use Nasal Hoods.	53037-9
Small Bubblegum	Single Patient Use Nasal Hoods.	53037-12





# NITROUS OXIDE MONITORING PULSE OXIMETRY & RESUSCITATION

## DIFMLS51 NITROUS OXIDE DIFFUSION TUBE

• Diffusion tubes for personal monitoring of Nitrous Oxide exposure in the workplace. The tube is worn close to the breathing zone for up to 8 hours to determine personal exposure levels.

Supplied product includes laboratory analysis and report.

Tube dimensions: 6.3mm OD x 5.0mm ID x 90mm long.

• Per tube : £90.00

**Important Note:** These items have a very limited shelf life and must be used and returned to the laboratory immediately following use to facilitate efficient analysis. If not used within 5 weeks of receipt, for whatever reasons, the tubes must be returned and a new order placed. No refund can be offered in this circumstance.

If tubes are not returned within 6 weeks of issue, there will be an additional charge levied of £70.00 per pen.

There will be a £18 outward carriage charge per pen or multiple pens.



## PULSE OXIMETERS

### CREATIVE MEDICAL CR - PC900P-30

CR - PC900P-30 £900.00

Vital signs monitor SP02 analogue, PR & NIBP w/adult soft sensor



CR - PC900P-30

## PULSE OXIMETERS

### NONIN 7500

7500

£900.00

Avant benchtop unit. 12 hours use with 4 hour recharge or AC/DC power. Includes Adult finger sensor, power cord & charger. 3 year warranty on main unit and one year warranty on battery pack.

Nonin 7500



### NONIN PROSTAND

CR - PROSTAND2 £260.00

Rolling PRO stand with mounting plate for Creative PC - 900 - Pro Monitor



Nonin 7500 prostand  
(7500 not included)



# MEDICAL GASES EQUIPMENT AND REGULATORS

## OXYGEN THERAPY REGULATORS

### OXYGEN DIALREG - BN

R1403

£140.00

Oxygen dialreg - bullnose fitting. 0-15 L/min. This regulator is the most suitable one for emergency oxygen use when using an F size cylinder (capacity 1360 litres).

### OXYGEN DIALREG - PI

R14035

£160.00

Oxygen dialreg - pin Index fitting. 0-15 L/min. This regulator is the most suitable one for emergency oxygen use with a E size cylinder (680 litres capacity)

## MEDICAL GAS SIGNS

### GAS SIGNAGE

RA2032

£10.00

Compressed gases sign - green diamond (adhesive for internal use only)

### GAS RIGID SIGNAGE

RA2033

£22.00

Compressed gases sign - rigid plastic (for internal or external use)

## MEDICAL GAS REGULATORS

### OXYGEN - BULLNOSE

R1610

£110.00

Oxygen single stage regulator - bullnose fitting. 3/8bsp Outlet Male

### OXYGEN - BULLNOSE PIPELINE

R1601

£155.00

Oxygen Bullnose Pipeline regulator with self sealing valve.

### OXYGEN PIN INDEX PIPELINE

R16105

£160.00

Oxygen single stage regulator - Pin Index Fitting 3/8bsp Outlet Male

### NITROUS BULLNOSE PIPELINE

R1610N

£144.00

Nitrous single stage regulator - Bullnose fitting with 11/16" nut & tail.

### NITROUS OXIDE REGULATOR

R16105N

£170.00

Pin Index Nitrous Oxide single stage regulator. 11/16" Nut outlet male

### NITROUS NUT & TAIL PIPELINE

R1601N

£144.00

Nitrous Oxide Regulator with nut & tail



R1610



R16105N

## CYLINDER MANAGEMENT OPTIONS

### WALL BRACKET D/E SIZE

CYB/DE2

£65.00

Twin wall mounting bracket - holds two D or E cylinders. W 36cm x D 11cm

### WALL BRACKET F SIZE

CYB/F2

£65.00

Twin wall mounting bracket - holds two F size cylinders. W 43.6cm x D 12.5cm

### WALL BRACKET G SIZE

CYB/G2

£65.00

Twin wall mounting bracket - holds two G size cylinders. W 51.1cm x D 14.6cm

### WALL BRACKET J SIZE

CYB/J2

£65.00

Twin wall mounting bracket - holds two J size cylinders. W 61.4cm x D 17cm

### PORTER OXYGEN TROLLEY

1538

£170.00

Mobile Oxygen trolley size E. With adjustable handle and equipment hook.

### CYLINDER RATCHET KEY PIN INDEX

RA2019

£42.00

### CYLINDER KEY - BULLNOSE

RA2020

£14.00



1538



R1610N



R1601



RA2032/33



R2410



CYB/DE2



RA2019

# MEDICAL GASES INFORMATION

## MEDICAL GAS CYLINDER ADVICE

**Oxygen Cylinders:** The colour coding of the shoulders of compressed medical oxygen cylinders is white (RAL 9101). The colour coding of the cylinder body is now also white (RAL 9101). In addition, cylinders will carry the oxygen name on the body. For a limited period, some cylinders in circulation may still have black bodies, as shown in the box opposite. The programme to convert all compressed medical oxygen cylinders to white bodies will be completed by 2025.

**Nitrous Oxide Cylinders:** No change to colour coding anticipated.

**Cylinder Bar Pressure:** Please be aware that only oxygen medical gas cylinders filled to a maximum of 137 Bar should be used with Inhalation Sedation Equipment. **Important Notice:** There are some cylinders in circulation which have been pressurised to 200 Bar - these are not suitable and should not be used. **Any use of these 200 Bar cylinders will invalidate service or equipment warranty in place.** For further information please contact Customer Services.

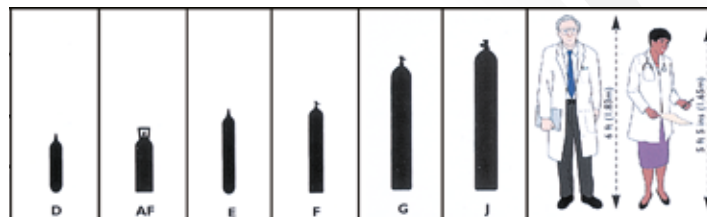
## MEDICAL GAS CYLINDER CARE & STORAGE

1. Cylinders should be stored in a secure, weatherproof and well-ventilated area.
2. Cylinders should be secured by means of brackets or chains. E or D size cylinders may be stored horizontally.
3. The store should have an adequate means of access, to facilitate delivery and collection of cylinders.
4. The storage area should be clearly identified i.e. by use of compressed gases warning signage. The emergency services should be informed of cylinder store location.
5. So far as is practical, lighting and electrical equipment should be sited in a safe position, remote from the cylinder storage.
6. Lubricants should be avoided. Only lubricants that are especially made for oxygen service and specified by the equipment supplier should be used.
7. When handling Oxygen cylinders, always ensure that hands are clean and free from oil or grease. Alternatively, use clean gloves.
8. Medical gas pressure reducing regulators should be handled with care and replaced every 6 years - sooner if worn or damaged.
9. Separate or identify full, empty and faulty cylinders.

References: Take care with oxygen HSE (Rev 2) & HTM 02-01.

## CYLINDER SIZING & IDENTIFICATION

OXYGEN			BODY SHOULDER	WHITE WHITE
NITROUS OXIDE			BODY SHOULDER	20D45 20D45



Customer Services:  
tel: 0800 637 737  
fax: 01675 467022  
email: medical.aluk@airliquide.com



Air Liquide Medical  
Station Road,  
Coleshill  
Birmingham  
B46 1JY



Customer Services:  
tel: 0800 111 333  
fax: 0800 111 555  
email: bochealthcare-uk@boc.com

BOC Medical  
Priestley Road  
Worsley  
Manchester  
M28 2UT

Cylinder Size	D	E	F	G	J
Approx Dimensions Inc Valve	490 x 102	830 x 102	890 x 140	1290 x 178	1600 x 230
Approx Weight Empty kg	3.8	6.6	13	30.6	68.7
Oxygen Valve Type	Pin-Index	Pin-Index	Bullnose	Bullnose	Pin-Index
Oxygen Gaseous Litres	0.34 (340)	0.68 (680)	1.36 (1360)	3.4 (3400)	10.6 (10600)
Nitrous Oxide Valve Type	Pin-Index	Pin-Index	Handwheel	Handwheel	Handwheel
Nitrous Oxide Gaseous Litres	0.5 (500)	1.8 (1800)	3.6 (3600)	9 (9000)	18 (18000)

# PAYMENT TERMS, CONDITIONS OF SALE & HOW TO PAY

## CONDITIONS OF SALE

**Minimum Order Charge:** £20.00.

All prices quoted are exclusive of VAT, carriage and packaging. Prices charged will be those ruling at the date of receipt of order. Occasionally, it may be necessary to raise prices from list and the customer will be informed of any change prior to goods being despatched.

Orders will be accepted by post, fax, email or telephone but must be accompanied by a named person or purchase order number.

R A Medical Services must be notified within 3 working days of any shortages, damaged or incorrect goods.

The right is reserved to charge up to 50% of the total invoice inclusive of carriage charges for orders cancelled or returned for any of the following reasons:

1. Once an order has been received and progression has commenced.
2. Once an order has been despatched.
3. If the goods have been received and subsequently it is determined they are not required and are returned to R A Medical Services.
4. If the wrong description or order code has been given and goods are despatched.

Please Note: R A Medical Services reserve the right to change pricing at our own discretion without any period of notification.

## PAYMENT TERMS:

**For Initial Orders:** Payment is required by Pro Forma Payment.

**Account Customers:** Payment must be made within the stated terms. Statements are only issued by request, so payment should be made on the original invoice. Failure to do so may result in interest being charged.

All goods and services remain the property of R A Medical Services Ltd until paid for in full.

R A Medical Services reserve the right to change or alter product design and/or specification without prior notice or warning.

## HOW TO ORDER

**Orders will be accepted by the following methods:**

Solely by Email: [info@ramedical.com](mailto:info@ramedical.com)

## HOW TO PAY

**BACS\*** (R A Medical Services Ltd)  
Barclays Bank, Keighley Branch,  
Sort Code: 20-45-14  
Account no: 40691666  
IBAN: GB95BARC20-451440691666  
SWIFT Code: BARCGB22

**Cheque:** Please make cheques payable to:  
R A Medical Services Ltd  
and write invoice number on the reverse

**Credit Card:** This service is now available. Please ring Customer Services for further details.

\* BACS is the preferred method of payment.





**HOLMES HOUSE  
SKIPTON ROAD  
STEETON  
WEST YORKSHIRE  
BD20 6SD**

**T: +44 (0)1535 652444  
F: +44 (0)1535 653333  
E. [INFO@RAMEDICAL.COM](mailto:INFO@RAMEDICAL.COM)  
WEBSITE: [RAMEDICAL.COM](http://RAMEDICAL.COM)**