NB Neither wire should be connected to the earth pin marked E↓

Connect the Brown wire to the terminal marked L or coloured red.

Connect the Blue wire to the terminal marked N or coloured black.

sometimes used to identify the terminals in a plug, proceed as follows:

The wires of the mains lead wires are coloured in accordance

As these colours may not correspond to the coloured markings

For details contact your local authority/recycling centre.

The local (council/authority) environmental waste site,

(in accordance with the European Environmental directive).

disposed of with household waste as they are not bio-degradable in All Nebulisers, including batteries where applicable, should NOT be

or leaking. Replace if necessary.

3. Check driveline tubing is not kinked

2. Wash nebuliser chamber. Replace if

Check inlet filter. Replace if necessary.

2. Check the rechargeable battery pack fuse. Fuse - T3.15AL 20mm long.

and the cigar lighter adaptor on the lead.

3. Check the DC fuse in the control panel.

Check battery/pump switch is on.

mains fuse in the mains inlet socket.

World Traveller fuse - T1AL 20mm long.

4. If battery/pump switch light is off (World

If the green light(s) on the switches are off:

Technical Specifications

4. Check the soldered connections on the plug

Check cigar lighter lead is clean and working.

5. Disconnect unit from electricity supply. Check

Traveller only), check DC fuse in control panel

3. Check mains fuse in the control panel. AC2000 &

For machines with a 3 pin plug (UK) remove and

1. Check mains lead is securely connected each end.

purchase or an authorised person for examination. The machine should be returned to the point of

motor does not function, there is an internal fault.

If the green light in the mains switch is on, yet the

AC2000

220V-240V / 50Hz

1 x T1AL 20mm long

2.8 kg (without starter pack)

375mm x 235mm x 115mm

World Traveller Hi-Flo

110-240V~ or 12V ===

With battery 3.6 kg

60 dbA approx.

375mm x 235mm x 115mm

(use for 60 mins: do not reuse within 60 mins)

11

80VA 350mA-700mA~or 3.0A ===

T1AL 20mm long, T5AL 20mm long, T3.15AL 20mm long (rechargeable battery pack fuse)

AC (mains) Min flow 7 L/min, Max flow 8.5 L/min @ 138 kPa* DC (battery) Min flow 6.5 L/min, Max flow 8.5 L/min @ 138 kPa*

Min flow 7 L/min, Max flow 9 L/min @ 138 kPa*

62VA (260mA)

Class II BF

Continuous

Worldwide

50-60Hz

60 dbA approx

UK/EU

Country

Operating

Consumption

Nominal Flow Weight

Dimensions

Type Rating

Pressure Level

Sound

Country

Operating

Consumption

Nominal Flow

Weight

Sound

Dimensions

Type Rating

Pressure Level

Voltage Frequency

Voltage

Fuse

check the fuse in the plug. Fuse - 3.15AL

3. If the low battery indicator is on, recharge battery

Check battery/pump switch is on and illuminates.

broblem still occurs.

for 16 hours maximum.

.gnol mm0S JAST - 9su7

Fuse - T5AL 20mm long.

.gmm long.

noitoA

or coloured green or yellow and green.

Brown - LIVE

- Neutral

Blue

For safe disposal take to:

andfill sites. They should NOT be incinerated.

Disposal Instructions

with the following code:

TNATRO9MI 1

repulse significantly

prippies or produces

Aebuliser chamber

rechargeable battery

not operate from the

World Traveller will

cigar lighter lead.

not operate from the

World Traveller will

switched on.

Problem

not operate when

Air compressor wiii

Troubleshooting

Time taken to

iffle or no mist.

purchase (please retain original invoice). Carriage costs to be paid by the

purchase (the manufacturer, shop, distributor or outlet where the device

unit properly packed (preferably in the original packaging) to the point of Should it become necessary to make a claim under guarantee, return the

CCI shall not be liable for any third party or consequential loss or damage

maintentance, accident, damage in shipment or unauthorised

of whatever nature arising from or in connection with this equipment.

To register this guarantee please return the card, supplied with this

Defects arising from misuse, negligence, improper

The disposable nebuliser chamber, driveline, face mask,

Where a rechargeable battery is supplied, a three months guarantee

• servicing is undertaken by CCI approved engineers/agents.

Cleaned and maintained in accordance with the instructions.

• the unit is serviced every 12 months for the first three years.

or workmanship subject to the following terms and conditions:

• only CCI approved parts may be used to service this equipment.

The compressor/motor, excluding serviceable parts, are guaranteed for

undertake to replace or repair any part found to be defective in material

CCI products are carefully designed, manufactured and inspected. CCI

This guarantee is offered to you as an extra benefit and does not affect

n which the device should be used is available at www.clement-clarke.com/

replacement parts for internal components, may result in increased emission or The use of accessories and cables other than those specified by Clement Clarke International Ltd. as International tro. Set see the exception of cables sold by Clement Clarke International Ltd. as International components may result in preseased represent and accessories of the property of the propert

Medical devices manufactured by Clement Clarke International Ltd conform to this

standard defines the levels of immunity to electromagnetic interferences as well as maximum levels of electromagnetic emissions for medical devices.

In order to regulate the requirements for EMC with the sim to prevent unsafe product situations, the EM60601-1-2 standard has been implemented. This

devices in use may be susceptible to electromagnetic interference from the With the increased number of electronic devices such as PC's and mobiles, medical

ZEMC (Electro Magnetic Compatibility) Declaration

potentially unsafe situation. Medical devices should also not interfere with other devices.

devices. Which may result in incorrect operation of the medical device and create a

Further guidance regarding the EMC environment (in accordance with EM60601-1-2)

The medical devices should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is unavoidable, the medical device should be equipment. If adjacent or stacked use is unavoidable, the medical device should be

Regular servicing at 12 monthly intervals.

handbook, within 15 days of purchase.

modification or service.

This guarantee does not apply to:

mouthpiece and filters.

three years on condition that:

your statutory rights.

Guarantee

seen to operate normally as it should in this situation.

Nevertheless, special precautions need to be observed:

ENGORO1-1-2 standard for both immunity and emissions.

Please include name and address, details of problem and proof of date of

cnstomer

- * Do not modify the equipment or its accessories in any way.
- * Not suitable for use with flammable anaesthetic gases. * Store in a clean, dry, dust free environment at room temperature.
- * Avoid using in a room where people smoke.
- fibres can be drawn into the unit when in use. st Position the unit on a clean surface. Do not place on carpet where
- * Always keep electrical leads clear of heated surfaces. * Never block air intake grills on the carrying case.
- Should this happen, switch off at mains and unplug immediately. * Never operate the unit where it may come into contact with water.
- maintenance or cleaning. * Always disconnect from electricity supply before undertaking any

Asfety Precautions

Pressure: 950hPa - 1020hPa %96 - %91:HU

204 - 20

Recommended:

The machine should be stored in a dust and smoke-free area.

Storage

Only nebuliser chambers supplied or approved by CCI should be used. Outlet filter change every 12 months Mouthpiece

Face mask Driveline change every 3 months Inlet filter Nebuliser chamber

cuanged as follows: It is recommended that the following disposable items should be

Replacement

We advise that the tube is disconnected from both the outlet filter outlet from the compressor and running the machine for a couple

and the chamber after each use to prolong the life of the connector.

holes should be blown clear by attaching the chamber to the air warm soapy water. Rinse and allow to dry after each use. The jet Ensure that the medication chamber is taken apart and washed in that the machine and accessories are kept in a clean condition. In order that you benefit fully from your equipment, it is important Cleaning

- 4 If therapy is having no effect, consult physician.
 - 3 Never use more frequently than prescribed.
 - 2 Physician prescribed use only. 1 Do not immerse machine in water.

/i/Caution

Notes on Mebuliser Care

Operating Instructions for the

AC2000

Econoneb

Refer to the colour coded pages,

applicable to your machine

Turboneb 2

following four nebuliser systems

World Traveller

	Econoneb	Turboneb 2
Country	UK/EU	UK/EU
Operating Voltage	220V-240V / 50Hz	230V / 50Hz
Power Consumption	64VA (270mA)	68VA (296mA)
Fuse	1 x T1AL 20mm long	1 x T1AL 20mm long
Nominal Flow	Min flow 7 L/min, Max flow 9 L/min @ 138 kPa*	Min flow 9.5 L/min Max flow 10.5 L/min @ 138 kPa
Weight	2.7 kg	2.7 kg
Dimensions	210mm x 185mm x 185mm	210mm x 185mm x 185mm
Type Rating	Class II BF Continuous	Class II BF Continuous
Sound Pressure Level	63 dbA approx.	63 dbA approx.

*1 kPa = 0.01bar or 0.145psi

	Econoneb	Turboneb 2
Country	UK/EU	UK/EU
Operating Voltage	220V-240V / 50Hz	230V / 50Hz
Power Consumption	64VA (270mA)	68VA (296mA)
Fuse	1 x T1AL 20mm long	1 x T1AL 20mm long
Nominal Flow	Min flow 7 L/min, Max flow 9 L/min @ 138 kPa*	Min flow 9.5 L/min Max flow 10.5 L/min @ 138 kPa ²
Weight	2.7 kg	2.7 kg
Dimensions	210mm x 185mm x 185mm	210mm x 185mm x 185mm
Type Rating	Class II BF Continuous	Class II BF Continuous
Sound Pressure Level	63 dbA approx.	63 dbA approx.

Items for World Traveller

Spares and Accessories

DC cigar lighter lead	3605290
Items for AC2000 Fuse Pack (2 x T1AL)	
Items for Econoneb and Turboneb 2 Fuse Pack (2 x T1AL)	3605534
Year Pack for World Traveller, AC2000, Econoneb & Tu Adult Year pack	L3605122 ace masks
Year Pack for AC2000 (2012)	

Fuse pack for World Traveller (2 x T1AL, 1 x T5AL, 1 x T3.15AL) 3605535

Contents: as above but with child size face masks and no outlet filter. Please note: All our masks are made from a strong plastic with

anti-microbial and low static properties, and are phthalate free.

Adult Year pack (2012)

Contents: as above but with no outlet filter.

~ denotes AC === denotes DC

Clement Clarke International Limited, Edinburgh Way, Harlow, Essex CM20 2TT UK

Catalogue no: 1902328 Issue no: 9 01/12

Technical Specifications - cont.

	Econoneb	Turboneb 2
Country	UK/EU	UK/EU
Operating Voltage	220V-240V / 50Hz	230V / 50Hz
Power Consumption	64VA (270mA)	68VA (296mA)
Fuse	1 x T1AL 20mm long	1 x T1AL 20mm long
Nominal Flow	Min flow 7 L/min, Max flow 9 L/min @ 138 kPa*	Min flow 9.5 L/min Max flow 10.5 L/min @ 138 kPa
Weight	2.7 kg	2.7 kg
Dimensions	210mm x 185mm x 185mm	210mm x 185mm x 185mm
Type Rating	Class II BF Continuous	Class II BF Continuous
Sound Pressure Level	63 dbA approx.	63 dbA approx.

Part no.

Please read these instructions before using the equipment

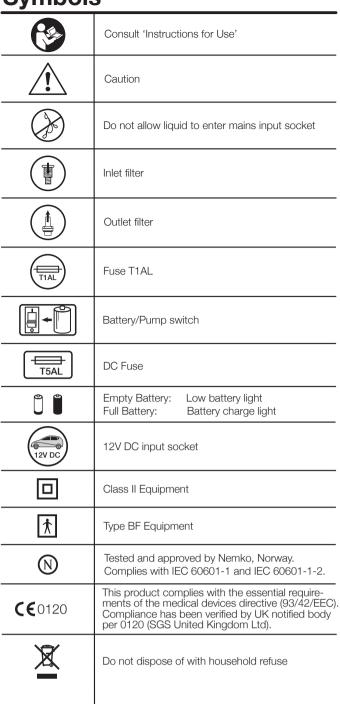
Purchase your nebuliser and consumables at: www.clement-clarke.com

C€0120



Telephone: +44 (0)1279 414969 Fax: +44 (0)1279 456300 www.clement-clarke.com e-mail: resp@clement-clarke.com

Symbols



Introduction

These nebuliser systems are designed to deliver a fine aerosol mist from the liquid medication prescribed by your doctor to treat your respiratory condition. Use according to the instructions given by your doctor or physician Please read the instructions carefully to obtain the maximum benefit from the nebuliser systems.

AC2000

This mains only nebuliser has been designed to operate from $\scriptstyle\sim$ mains voltage, 220V-240V $\scriptstyle\sim$ 50 Hz.

World Traveller Hi-Flo

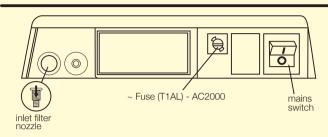
This portable nebuliser system has been designed for use anywhere in the world. It will automatically operate from all ~ mains voltages in the range 110-240V 50-60Hz without any adjustments to the machine. This model will also operate from a 12V DC battery using the DC lead supplied when connected to a car cigar lighter attachment. An optional built-in rechargeable battery pack is also available

The World Traveller is intermittently rated and is fitted with thermal cut-outs to protect the equipment. It can be used for continuous treatment for up to 60mins.

A safety feature has been fitted to the battery to prevent it from overheating. Should you use your World Traveller immediately after charging the Battery Pack you may notice the battery does not give maximum ouput and may run

Please switch off and allow the battery to cool for at least an hour before use.

AC2000



Operating Instructions

Mains ~ Operation

- Carefully withdraw nebuliser from the box
- Connect mains lead to a mains power supply. Connect driveline to outlet filter nozzle.
- Connect nebuliser chamber, followed by mouthpiece or face mask, to the driveline.
- Press mains switch on (I). The switch will illuminate and the equipment can now operate

To Replace Fuse

- Switch off at mains Using a screwdriver or a coin push and twist fuse in an anti-clockwise
- direction to extract fuse.

The AC2000 and World Traveller are supplied with a starter kit consisting of:

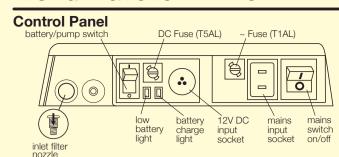
- 1 x nebuliser chamber 1 x inlet filter
- 1 x mouthpiece
- 1 x adult face mask
- 1 x filter spanner

1 x driveline

1 x child face mask

3

World Traveller Hi-Flo



AC Mains Operation

- Connect mains lead to the mains input socket shown above and to mains power supply.
- Connect driveline to outlet filter nozzle
- Connect nebuliser chamber, followed by mouthpiece or face mask, to the driveline and press mains switch on (I).
- Press battery/pump switch on (I) to operate
- To switch unit off, first press battery/pump switch to (O), then press mains switch off. Disconnect from mains.

Note: The machine is supplied with a mains plug. When using it in overseas countries, a universal adaptor may be required to suit the local socket.

DC Operation

Connect cigar lighter lead to 12V === input socket on control panel. 2. Connect the other end of the lead to the cigar lighter socket in the car. Press battery/pump switch on (I) to operate.

Battery Operation

Note: From new, batteries are not connected in World Travellers. Follow connection instructions detailed under 'Installing New Battery Pack'

- 1. The machine operates direct from the built-in rechargeable battery pack by pressing battery/pump switch on (I).
- 2. When fully charged the battery pack will operate the compressor for about 35 minutes. Recharge when the red 'low battery' light illuminates.

Recharging Battery Pack

When the red 'low battery' light illuminates recharge as follows:

- 1. Connect mains lead to the mains input socket on the control panel and to the mains power supply. Press mains switch on (I).
- The green battery charge light should now illuminate. The battery pack is being recharged. Note: The battery/pump switch MUST be at the off (O) position.
- 3. After recharging for 16 hours maximum press mains switch off (O) Disconnect mains lead.

Note: To obtain the maximum life from your battery pack always store battery in a fully charged condition, as follows:

- 1. Every three months charge for 16 hrs maximum. Discharge by using from battery until red light appears, recharge for 16 hrs maximum
- 2. If battery pack is completely discharged, red light will not illuminate.

To Replace 'inline' Battery Fuse

- Twist and pull fuse casing in an anti-clockwise direction.
 Replace fuse, T3.15AL fuse.

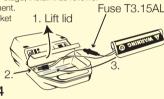
Installing New Battery Pack

If you have purchased a battery pack at a later stage, install it as follows:-Lift inner lid to the battery pack compartment.

2. Connect plug on battery pack lead to socket

on left hand side of battery compartment.

3. Fit battery pack into compartment so velcro strips meet to fix in position.



Introduction

These nebuliser systems are designed to deliver a fine aerosol mist from the liquid medication prescribed by your doctor to treat your respiratory condition. Use according to the instructions given by your doctor or physician. Please read the instructions carefully to obtain the maximum benefit from the nebuliser systems.

Econoneb

The Econoneb is supplied with a starter kit consisting of:

- 1 x nebuliser chamber
- 1 x adult face mask
- 1 x driveline 1 x mouthpiece
- 1 x inlet filter
- 1 x child face mask
- 1 x filter spanner

Turboneb 2

The Turboneb 2 supplies the highest flow rate for nebulising viscous antibiotics and has been designed to operate from ~ mains voltage. Two versions are available, UK and EURO, (i.e. plug type) both 220-240V ~ 50Hz.

This compressor-only unit provides flexibility for the user to choose the most appropriate accessories for demanding applications

The Turboneb 2 is not supplied with a starter kit.

Note: Both machines are continuously rated for repeat use.

Please refer to the information label on the base of the machine to establish that you have the correct voltage for your mains supply.

Econoneb/Turboneb 2

Operating Instructions

Mains ~ Operation

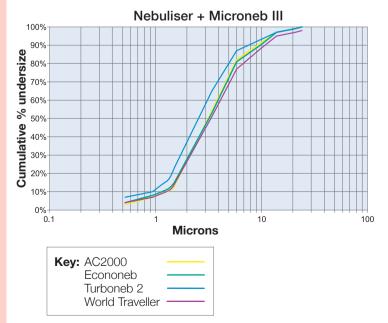
- 1 Connect mains lead to mains power supply. 2 Connect driveline to outlet filter nozzle (see page 7).
- 3 Connect nebuliser chamber, followed by mouthpiece or face
- mask, to the driveline (see page 7). 4 Press mains switch on (I). The switch will illuminate and the equipment can now operate.

To Replace Fuse

- Switch off at mains.
- 2. Using a screwdriver or a coin push and twist fuse in an anti-clockwise direction to extract fuse.
- 3. Replace fuse.

Turboneb 2/Econoneb hard-wired (Hard-wired) 0 On/Off Switch

Particle Size Distribution



Note:

The performance information provided is in accordance with standard EN 13544-1 but may not apply to drugs supplied in suspension or high viscosity form. In these cases, information should be sought from the

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Filling the Nebuliser Chamber

For Single Patient Use

- 1 Connect one end of the driveline to the outlet filter on your compressor.
- 2 Connect the other end of the driveline to the bottom of the blue nebuliser cup.





- 4. Screw the top back onto the cup.
- 5. Connect either the face mask or mouthpiece to the nebuliser top.

All accessories must comply with EN 13544-1

Administering the Medication

Switch the compressor unit on. Sitting in an upright relaxed position, place mouthpiece into the mouth (or face mask over the nose and mouth) and start breathing slowly and deeply. Do not try to breathe quickly. If you have any problems seek instruction from your doctor or physiotherapy department at your hospital. Switch off the compressor when the misting has stopped. Unplug the mains lead.

Servicing

In order to maintain your warranty, your unit is required to be serviced by an approved service agent every 12 months. Please contact the manufacturer or distributor for details of your nearest authorised

Warning: Disconnect power supply before servicing. When servicing, use only identical replacement parts. Not suitable for use with flammable anaesthetics.

Caution: Do not immerse in water.

Please Note:

When returning your nebuliser for servicing at Clement Clarke International please contact customer services for an authorized

Please do not return your consumables when returning your nebuliser for servicing.

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The nebuliser case should be wiped clean with an alcohol wipe or similar, before returning for service.
Please ensure wipe solution is compatible with ABS plastics.