Battery Eliminator for AirChek 3000 Pump

Operating Instructions

Battery Eliminator models -

- 223-330B Battery Eliminator for AirChek 3000 Pump with EU 2 pin plug
- 223-330C Battery Eliminator for AirChek 3000 Pump with UK 3 pin plug

Please read these instructions before using the battery eliminator!

Specifications

Model	Input	Output	Internal Battery Specification
223-330B	220V ~ 50Hz	6V 500mA ⎓	NiMH 4cell 4.8V 2.0Ah
223-330C	230V ~ 50Hz	6V 500mA ⎓	NiMH 4cell 4.8V 2.0Ah

Introduction

The battery eliminators for the AirChek 3000 pump provide mains power operation of the pump for extended sample periods. The battery eliminators also incorporate a NiMH battery to enable continued operation of the pump and retention of sample program and history data in the event of a mains power loss. The internal battery receives a low trickle charge continuously when the battery eliminator is connected to the mains electrical supply to maintain it at full charge.

Warnings

These battery eliminators are designed for use with the SKC Ltd AirChek 3000 pump only and are not intended for use with any other SKC or non-SKC products.

These battery eliminators are for indoor use only, and must therefore be protected against exposure to moisture.

Operating temperature range - 0°C to +40°C, 95% RH non-condensing.

The battery eliminator output is protected by a 500mA fuse. Do not short circuit the battery eliminator output terminals as this will blow the fuse and render the battery eliminator inoperable.

When the battery eliminator is fitted to the AirChek 3000 pump, the AirChek 3000 pump ATEX and IECEx intrinsic safety certification is invalidated. DO NOT use the AirChek 3000 pump in hazardous locations when the battery eliminator is fitted.

Fitting the battery eliminator

1. If a battery pack is fitted to the pump it must first be removed. Unfasten the two hexagon socket screws securing the battery pack to the pump using the 2mm hexagon Allen key supplied with the pump. Pull the battery pack downwards to disengage from the pump.
2. Before fitting the battery eliminator to the pump check that the two gold plated output pins are straight and have not been bent.

3. Fit the battery eliminator to the pump, ensuring that the output pins are located into the recessed socket on the underside of the pump. Secure the battery eliminator to the pump with the two hexagon socket screws supplied with the battery eliminator, using the 2mm hexagon Allen key supplied with the pump.

Use of the pump and battery eliminator

1. Connect the battery eliminator power supply to the mains electrical supply.
2. Operate the pump as detailed in the pump operating instructions.
3. In the event of a loss of mains electrical power the battery eliminator will automatically switch to operation using its internal battery without affecting the operation of the pump.
4. Whilst operating using the battery eliminator internal battery, the battery status indicator on the pump display screen will indicate the current charge status of the battery, as detailed in the pump operating instructions. If the battery eliminator internal battery becomes fully depleted the pump will automatically shut down due to low battery, and will retain the sample history data in memory, as detailed in the pump operating instructions.
5. A fully depleted internal battery will require continuous connection to the electrical mains supply for at least 200 hours to fully recharge the battery.

Maintenance of the internal battery

When connected to the mains electrical supply the battery eliminator internal battery receives a continuous trickle charge of approximately 10mA to maintain it at full charge.

To ensure optimum service life of the internal battery it is recommended to cycle the battery at least twice a year. Run the pump whilst not connected to the mains electrical supply, to fully deplete the battery. Then connect to the mains electrical supply for at least 200 hours to fully recharge the battery.

The WEEE Directive

This product is marked with the crossed out wheelie bin symbol, which identifies that it falls within the scope of the EC Directive 2002/96/EC on waste electrical and electronic equipment (WEEE). At the end of it's useful life, this product must be disposed of in an environmentally sound way as detailed in the Directive. Please contact your local distributor or SKC Ltd for further details on how to comply with the requirements of the WEEE Directive. SKC Ltd's producer registration number is WEE/KH0054TQ.

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