



223-240A Single fast charger for AirChek 3000 pumps

Please read these instructions before using the charger!

Specifications

Model	Input	Output	Battery Pack Specification
223-240A	100-240V ~ 50/60Hz	800mA =	NiMH 4cell 4.8V 2.0Ah

Introduction

The SKC Ltd single fast charger provides intelligent fast charging of AirChek 3000 pump battery packs in up to 3 hours (depending on initial charge state). Battery pack full charge is detected based on the battery pack voltage and battery pack cell temperature. After full charging the charger automatically switches to a trickle charge rate to prevent overcharging.

The charger is supplied with four inter-changeable electrical supply input plugs suitable for use in the United Kingdom, Europe, USA / Canada and Australia / New Zealand.

Warnings

This charger is designed for use specifically with SKC AirChek 3000 pumps and is not intended for use with any other SKC or non-SKC products.

This charger must not be used to charge non-rechargeable batteries.

This charger is for indoor use only, with enclosure rating of IP40, and must therefore be protected against exposure to moisture.

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

Use of a non-SKC charger to charge SKC pump battery packs may cause damage to the battery pack and / or pump and will void the battery pack and / or pump warranty, also the intrinsic safety rating of the pump may be invalidated.

Charger Operation

1. Select the correct electrical supply input plug for your region and fit it to the charger.
2. Plug the charger into an electrical supply socket and switch on the electrical supply. The charger LED indicator will illuminate yellow continuously to indicate that it is in standby mode.
3. Plug the charger output connector into the charging socket on the battery pack. The charger LED indicator will slowly flash yellow to indicate that the charger is in its pre-charge phase.
4. During the pre-charge phase the charger checks the battery pack voltage and temperature. If the temperature is above 50°C the charger goes into standby waiting phase, with the LED indicator alternating yellow/green, until the battery temperature drops below 45°C. If the temperature is below 0°C the charger will

trickle charge, with the LED indicator slowly flashing green, until the battery temperature rises above 0°C.

5. If the battery pack voltage and temperature are outside of acceptable limits or the charger detects a fault of the battery pack temperature sensor, at the end of the pre-charge phase the charger LED indicator will rapidly flash yellow to indicate an error. Disconnect and reconnect the battery pack to the charger. If the error repeats this may indicate a faulty battery pack; contact SKC Ltd customer support.
6. At the end of the 5 minute pre-charge phase the fast charge phase starts with the LED indicator rapidly flashing green.
7. The charger detects that the battery pack is fully charged based on the battery voltage and temperature. At the end of the fast charge phase the charger enters the maintain phase, trickle charging at approximately 5% of the fast charge rate for approximately 1 hour, with the LED indicator slowly flashing green. During this phase the individual battery cells are balanced to the same charge state.
8. At the end of the maintain phase, the charger will switch to the ready phase, trickle charging at approximately 2% of the fast charge rate, with the LED indicator showing green continuously. The battery pack is fully charged and ready for use.
9. It is recommended to disconnect the charger from the battery pack after a period of 24hours to maintain optimum battery life and performance..
10. It is recommended to disconnect the charger from the electrical supply when not in use to save the energy the charger consumes when on standby.

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.

Battery Disposal

SKC battery packs fall within the scope of the EC Directive 2006/66/EC on batteries and accumulators and waste batteries and accumulators and equivalent legislation in other regions. Batteries must be collected and treated separately from other waste, and those containing mercury, cadmium and lead are subject to special treatment.

Please contact your local distributor or SKC Ltd for further details on how to comply with the requirements of the Batteries Directive. SKC Ltd's batteries producer registration number is BPRN00454.

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