TECHNICAL DATASHEET & SAFETY INFORMATION

CleanAIR®

www.clean-air.cz

Rechargeable Li-ion batteries for CA AerGO

Standard and Heavy Duty variants

Standard Li-ion battery
for CA AerGO

Heavy Duty Li-ion battery
for CA AerGO

Description

Rechargeable Li-ion batteries for CleanAIR® AerGO powered air-purifying respirators (PAPR).

Application

Compatible exclusively with CleanAIR® AerGO PAPR unit.

Images are for illustrative purposes only and may not reflect product labelling.

Malina Safety®

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Revision.: 2026-03-25

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Technical specification	*Standard battery*	*Heavy Duty battery*
Product code	**310013**	**310023**
Weight	0.31 kg	0.55 kg
Voltage / Capacity	14.52 V / 3.2 Ah (46.46 Wh)	14.52 V / 6.4 Ah (92.23 Wh)
Charging time	approx. 4 h	approx. 7 h
Operation time*	Filter P: approx. 12 h Filter A1B1E1K1P: approx. 8 h	Filter P: approx. 20 h Filter A1B1E1K1P: approx. 12 h
Battery lifespan	up to 500 charging cycles	up to 500 charging cycles
Cells	4 × INR18650MH1	8 × INR18650MH1
Chemistry	Lithium-ion (Li-ion)	Lithium-ion (Li-ion)
Materials	Battery case: Polyamide (PA) Cells: Nickel compounds Cobalt compounds Manganese compounds Lithium compounds Electrolyte (proprietary)	Battery case: Polyamide (PA) Cells: Nickel compounds Cobalt compounds Manganese compounds Lithium compounds Electrolyte (proprietary)
Usable extinguishing agent	Water or water-based extinguishing agents (in large amounts for cooling)	Water or water-based extinguishing agents (in large amounts for cooling)
Shelf life	5 years**	5 years**
Storage conditions	–10 °C to +55 °C, 20–95% RH	–10 °C to +55 °C, 20–95 % RH
Operating conditions	0 °C to +60 °C, 20–95 % RH	0 °C to +60 °C, 20–95 % RH
Charging conditions	0 °C to +40 °C, dry indoor environment	0 °C to +40 °C, dry indoor environment

** Measured at 160 l/min with fully charged battery and new filters.*
*** Batteries may self-discharge during storage. To maintain battery condition, it is recommended to charge the battery for at least 1 hour every 3 months. For long-term storage, the optimal battery charge level is between 50% and 70% of its full capacity. After extended storage, perform three full charging cycles to restore the battery to its maximum capacity.*

Safety Certification

The Standard battery complies with the safety requirements of the following standards:
UN 38.3 – transport safety test for lithium-ion cells and batteries
IEC 62133-2 – safety standard for rechargeable lithium batteries used in portable devices

Transport information

Lithium batteries are subject to international transport regulations. Their classification determines the required packaging, labelling, and whether a Dangerous Goods Declaration is required.
Please refer to the following reference information for the specific transport mode:

Proper shipping name	Lithium ion batteries packed with equipment	Lithium ion batteries
UN code	UN 3481	UN 3480
Road	Class 9, code M4, special provision 188 ADR	
Sea	Class 9, code M4, special provision 188 IMDG	
Air	Class 9, Packing instruction 966 Section II, IATA DGR	Class 9, Packing instruction 965 Section IB, IATA DGR

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Handling

- Do not open, dismantle or modify the battery.
- Do not attempt to access internal components.
- Do not mechanically damage the housing (crushing, puncturing, drilling or cutting).
- Do not expose the battery to fire or temperatures exceeding the specified limits.
- Do not use the battery if the housing is cracked, deformed or otherwise damaged.
- Protect electrical contacts from contamination and conductive materials.
- Do not short-circuit the terminals.
- Use only chargers and equipment approved by the manufacturer.
- Do not use the battery in equipment other than the specified PAPR unit.
- Remove the battery from service if overheating, unusual odor, discoloration or abnormal performance occurs.

End-of-Life and Recycling

- **Waste batteries must not be disposed of as unsorted municipal waste.**
- **Waste batteries shall be delivered to designated separate collection points established by producers or producer responsibility organizations, or to collection systems operating in accordance with applicable national legislation.**
- Proper use and correct charging in accordance with relevant PAPR unit manual help extend battery service life and reduce waste generation.
- Avoid deep discharge, improper charging, mechanical damage and exposure to extreme conditions.
- By ensuring proper separate collection, end-users contribute to the safe treatment and recycling of waste batteries.
- Used or damaged batteries shall be handled with care.
- To prevent short-circuit, battery terminals should be insulated before disposal.
- Do not crush, incinerate or expose waste batteries to water or fire.
- Batteries containing lithium may present a fire risk if improperly handled.
- Batteries contain substances which may have adverse effects on the environment or human health if released due to improper disposal.
- Proper collection and recycling allow recovery of valuable materials and reduce environmental impact.

The EU Declaration of Conformity is available at: www.clean-air.cz/doc