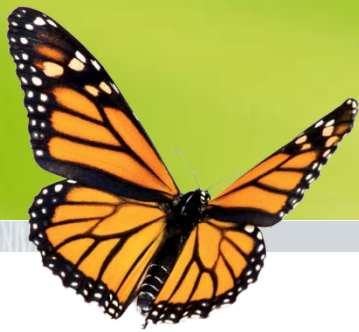


ATMOS S 041 Wound

Negative Pressure Wound Therapy (NPWT)

Battery Technology Information



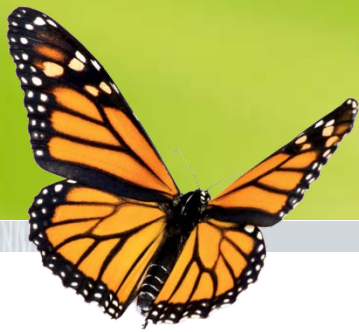
ATMOS S 041 Wound Battery Technology Information



Contents:

1. The New System
2. Intelligent Charge Controller Technology
3. Nickel-Metal Hydride (NiMH) Batteries
4. Battery Care and Operation
5. FAQ





ATMOS S 041 Wound Battery Technology Information

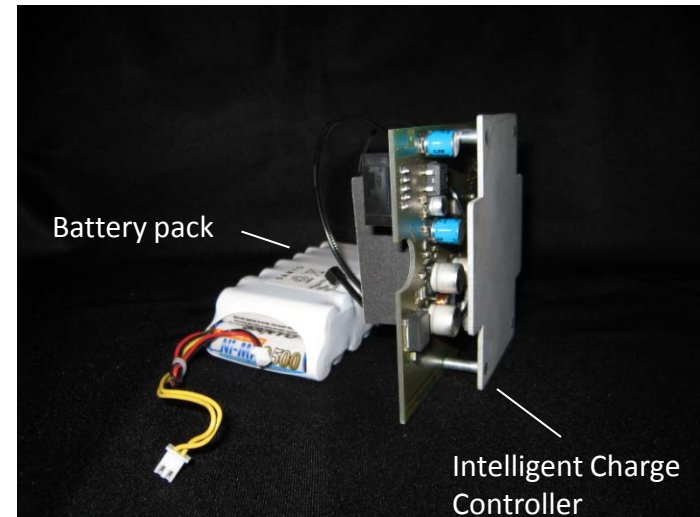


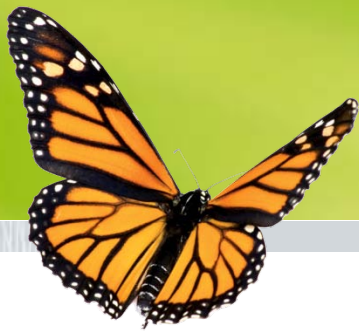
1. The New System

The battery/charging system of the ATMOS S 041 is filled with newly redesigned features and functions. The numerous improvements from its predecessor, the Blue Sky/Smith & Nephew Vista, give this system very different properties.

Improvements:

- A temperature sensor is built into the battery pack for smarter charging and improved safety.
- Battery recharging functions are managed by our **Intelligent Charge Controller** which more effectively charges the battery while sensing temperature and charge of the battery pack.
- Runtime of up to 24 hours, while its predecessor had 4-8 hours.





ATMOS S 041 Wound Battery Technology Information

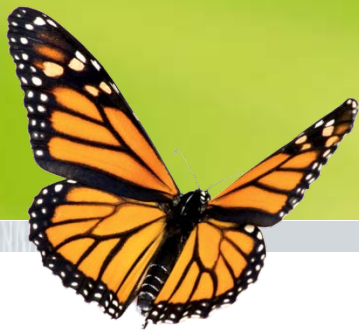


2. Intelligent Charge Controller Technology

This device reads the battery system and makes real-time decisions on the charging preference of the system. This capability due to an advanced processor which is communicating with sensors integrated into battery back. This technology is specifically designed for the ATMOS S 041 and is built directly into the main board of the system. This advanced system is not to be confused with “Smart Chip Technology,” which is a rudimentary generic chip built into the battery pack.

Functions of the Intelligent Charge Controller:

- Continuous reading of the battery current
- Continuous temperature measuring and adjustments during the charging process
- Prevention of battery overheating
- In-depth control of the charging process (3 intelligent phases)
- Estimated calculation of current battery capacity

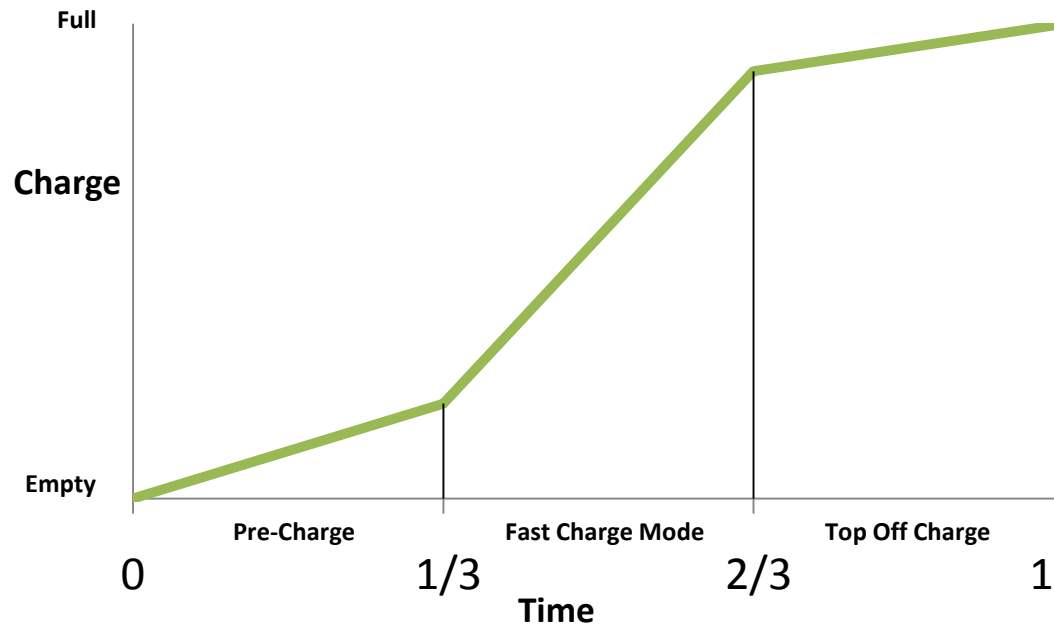


ATMOS S 041 Wound Battery Technology Information

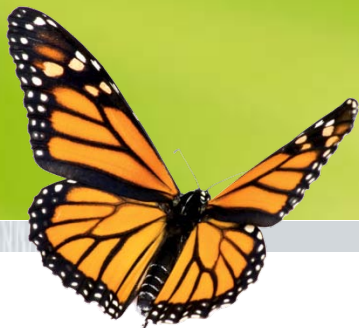


2. Intelligent Charge Controller Technology

The charging process is divided into 3 intelligent phases.



The Intelligent Charge Controller controls the charging process. It measures temperature and current and then decides the best fitting charging current depending on this data.



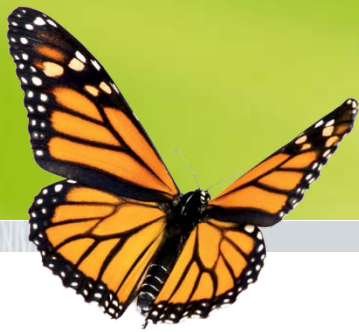
ATMOS S 041 Wound Battery Technology Information



3. Nickel-Metal Hydride (NiMH) Batteries

Benefits Over Nickel Cadmium (NiCd) Batteries	Benefits Over Lithium-Ion (Li-Ion)
No “memory effect”	Safer: No risk of explosion (Lithium-ion batteries can rupture, ignite, or explode when exposed to high-temperature environments)
Lower Toxicity	More Versatile: NiMH batteries are safe up to 140 degrees vs. 113 degrees with Li-Ion batteries.
Intelligent Charge Controller	More economical
At least 500 complete charging cycles	
NiMH has more than twice the capacity of NiCd	

Our battery supplier offers all possible varieties of battery technology and strongly recommends NiMH batteries with our Intelligent Charge Controller technology as the best solution for a portable NPWT device.



ATMOS S 041 Wound Battery Technology Information

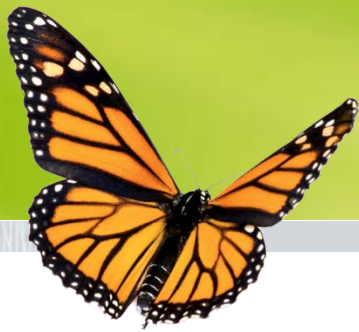


4. Battery Care and Operation

To properly care for NiMH batteries please consider the following:

- Only store this pump within the temperature ranges of:
 - Low: -4° F
 - High: 122° F (<30days), or 104° F (<90days), or 86° F (<1 year)
- Only charge/run the battery within the temperature range of 32° F and 113° F
- Store the pump with the battery at least half full.
- When storing the pump for extended periods of time, run it through one full charging cycle every 2 months. One full charging cycle consists of fully discharging the battery and then completely recharging the battery.

Failure to follow these points may lead to irreparable battery failure.



ATMOS S 041 Wound Battery Technology Information



5. FAQ

What do I do if the battery isn't charging?

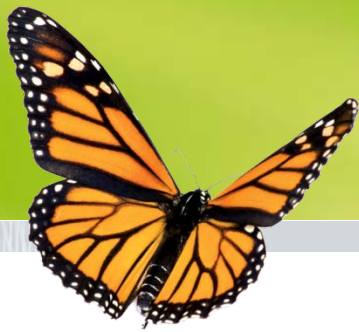
- Check your power supply unit (it may be disconnected)
- Ambient temperature is too high (the Intelligent Charge Controller will not charge the battery when it may cause permanent damage)
- The battery may be irreparably damaged.

How do I recondition the battery?

- Run several charging cycles (complete discharging → recharging)
- If reconditioning is ineffective, the battery system has encountered irreparable damage or the device is having a different technical problem. In this instance, please send the device to ATMOS for inspection and diagnosis.

Does this device use "Smart Chip" technology?

- No. This system uses Intelligent Charge Controller technology. This advanced system measures battery temperature and current then decides the best charging phase depending on this data. Also it provides an estimated reading for current battery capacity.



ATMOS S 041 Wound Battery Technology Information



5. FAQ

How long is the battery runtime?

- The battery runtime of the ATMOS S 041 Wound is 24 hours with a fully charged battery.

What can cause problems with the battery?

- There are several conditions and behaviors which may create problems for the battery system such as high/low temperature exposure or improper storage procedures.

Why do you use Nickel Metal Hydride (NiMH) instead of Nickel Cadmium (NiCd) or Lithium Ion (Li-Ion) batteries?

- Nickel Metal Hydride battery technology has many advantages compared to other current battery technologies. Please refer to Slide 6 for more information.