

# Optimizing Pump Performance

## GilAir PLUS

Tips to Optimize, Guide to Replace Batteries

Boost  
Reliable  
Results with  
Healthy  
Batteries!

### Follow these Steps for Superior Performance

#### Keep Track of Battery Performance

Sensidyne recommends replacing your GilAir Plus battery pack within 3 years of purchase (check the date code on the battery) or after 500 charging cycles, whichever comes first. For example, if the pump is used more than 2 times/week for 3 years, then it has had more than 300 cycles. Sensidyne highly recommends leaving the pack or pump on the GilAir Plus charging dock until ready for use. If this is not possible, then store the pack(s) partially charged in cool conditions.



#### Reconditioning

Tip: Daily charging on the dock is the BEST method for preserving battery life!

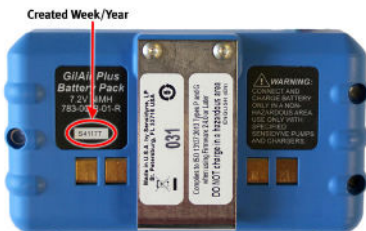
If daily charging on the dock is not performed, then reconditioning of the battery is required. A battery pack that is unused or uncharged for more than 1 month should

be reconditioned by connecting it to the GilAir Plus dock for 12 hours. The dock will *fast charge* the battery and the additional trickle charge time will recondition it for maximum capacity. Remove the pump from the dock and let it rest for at least one hour. Place it on the dock for another charge cycle.

#### End of Life

As the battery goes through charge/discharge cycles and ages, its capacity will diminish. If the battery is reconditioned as described above and actual run time is far less than the Projected Run Time (PRT), then the battery has reached end of life and should be replaced.

#### Purchasing a New GilAir Plus Battery



The date code above **S4117T** indicates creation on week 41 of year 2017. See the Operation's Manual for installation instructions.

Contact your local distributor for discount pricing or, for your convenience, visit [Sensidyne.com](http://Sensidyne.com) and click on the Shop Online icon, then locate the GilAir Plus battery replacement in the pull down menu, and proceed to purchase part no. 783-0012-01-R.

#### General Info About Battery Maintenance

The GilAir Plus uses a removable, rechargeable nickel-metal hydride (NiMH) battery pack. **The most common cause of lower battery life and charging issues is contaminated battery contacts.** If there is bad contact, charging may be reduced or not possible. The battery contacts can be cleaned with a pencil eraser. Never use a hard tool like a screwdriver or knife because the contacts may be damaged.

All rechargeable batteries lose charge over time even if not in use. This is called self-discharge. **The self-discharge rate of the NiMH cells is about 1% per day.**

**It is important to have the pack fully charged when starting a sample. To guarantee full charge, leave the pack or pump on the GilAir Plus charging dock until ready to use.** Once the pump has charged completely, the dock will change to a trickle charge that maintains the battery at maximum capacity.

**The dock will automatically perform a battery evaluation each time the battery pack is charged.** Under certain conditions the dock will perform a one hour reconditioning of the battery cells to optimize the battery. If the dock detects poor battery health, a flashing LED indicates that a problem has been detected.

Tip: Having the latest version of product software ensures maximum battery/pump performance. Check the GilAir Plus product page at [www.sensidyne.com](http://www.sensidyne.com) for the latest!

