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Gilair Pump Quick Start Guide

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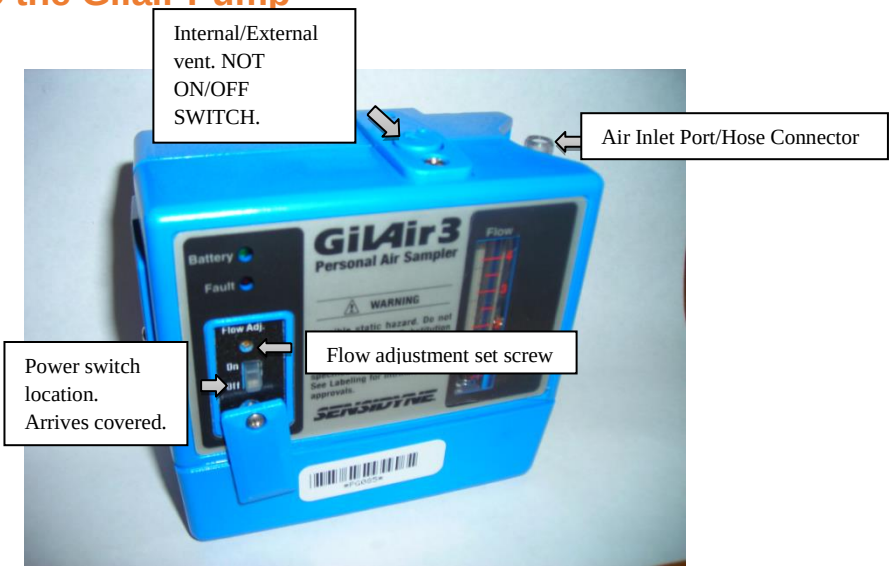
Components to the Gilair Pump



Setup:

1. Pumps are pre-calibrated by SGS Galson, unless otherwise specified when placing an order
2. A rotameter may be used to check flow. See rotameter guide details
3. If using high flow tubing, connect the tubing to the pump inlet.
4. Turn on the pump and let run for a few minutes.

High Flow Sampling:

1. Place the sampling media on opposite end of tubing.
2. Turn the pump on, note time of start on the chain of custody.
3. Place pump on or set in sampling area.
4. After your sampling is complete, turn the pump off and note the time of stop.
5. If desired, you may perform a post calibration. Using the sampling media or calibration media, check the flow per pump.
6. If requesting a post calibration. Use the provided post calibration stickers and place on each pump needing post calibration.
7. Remove media from the tubing. Cover media with nibs or red tube covers provided with sorbent tubes. Mark, your chain of custody. Place sampled media in the media for analysis' bag.
8. Any unused media and calibration media can be placed into the Unused media bag provided.
9. Pack equipment and samples and send back to SGS Galson.

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Low Flow sampling:

1. Tubing will already be attached when pre-calibrated by SGS Galson
2. Follow steps 2 and 4 from set up directions
3. If deciding to not use the pre-calibrated flows be sure to **NOT change the flow on the pump, only change the flow with the restrictor found on the end of the tubing.**
4. Follow steps 1 through 9 in High Flow Sampling section.
5. **Note: sorbent tubes have arrows, the arrow should be pointing into the sample tubing before you begin sampling.**

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Pump Charging:

Activating a Gilian 5 Station Charger:

1. Plug the power supply into the back of the Gilian Charger.
2. Plug the adapter end of the power cord into the transformer of the Gilian Charger power supply.
3. Plug the power cord into a 100 to 200-volt outlet.
4. Plug into the pump.

****WARNING****

Failure to follow this sequence will cause the charger to shut down for protective reasons. If this occurs, unplug the power cord from the outlet and power supply, wait two minutes, and then plug the adapter end of the power cord into the jack on the power supply followed by the end of the power cord into an appropriate outlet.

Pump charging Cont.

Activating Gilian Single Pump USB Charger:

1. Connect the clear USB attachment to the appropriate location on the pump
2. Connect the adapter end of the power cord into the transformer of the Gilian Charger.
3. Plug the power cord into a 100 to 200-volt outlet.
4. Connect the USB power supply to the clear USB attachment.

- For Gilair single station chargers: Ensure the charger is fully connected to the pump. If you have a USB charger, it should look like “Figure B.” When light on the charger is red the pump is connected. The red-light switches to green on a timer **(not a battery level indicator)**. You can check the pumps battery status by disconnecting from charger and turning the pump on. If the light above the on/off switch is green, you have enough charge for an eight-hour shift.
- **Note: We recommend you recharge before your sampling event as the pumps are in a constant state of discharge while not attached to a charging unit.**

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Troubleshooting:

- Kinked or restricted tubing / Re-route tubing to ensure unrestricted flow
- Overloaded sampling media / If media is overloaded annotate stop time and change media
- Insufficiently charged battery / Recharge battery
- Full charge indicated by green light and pump will not turn on/ disconnect battery by the two screws, reattach and try again.
- Adjusting the flow rate of the pump may result in flow fault. The High Flow pumps provided are built to sample from 1lpm up to 2.5lpm with filter media in line.
- If pump still will not start, please contact SGS Galson
- If you do experience a fault while sampling and the pump shuts itself off, annotate time pump has run from LCD on side of pump, address fault cause and restart sampling.

FIGURE A

FIGURE B

<u>If you have had any issues with any equipment please use the Equipment Failure Form and stickers provided. Or call 24/7/365 (1-888-432-5227)</u>