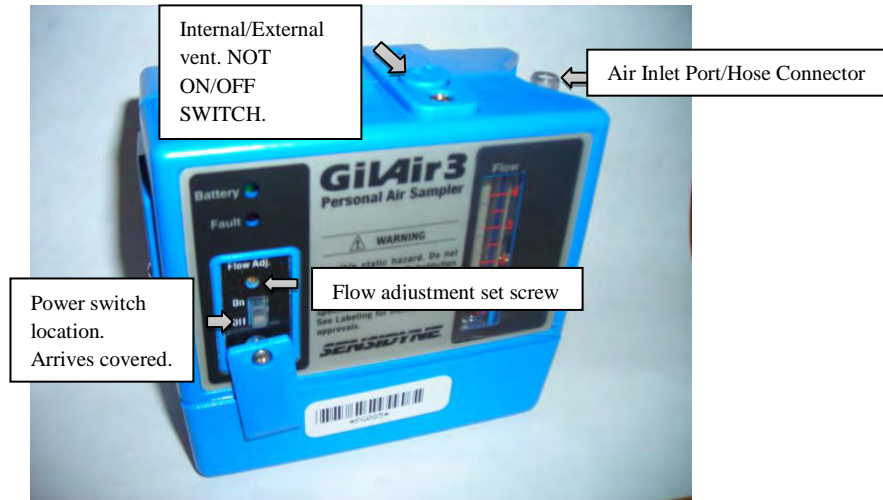




## Gilair Pump Quick Start Guide

### Components to the Gilair Pump



### Setup:

- At the request of the client, pumps are pre-calibrated using a primary calibrator at SGS Galson; field rotameters may be used to verify flow. Do not use rotameter on front of Gilair as it is not calibrated against a primary standard. Use the correction factor on the rotameters prior to any sampling if you plan on changing the preset calibration. This will make sure you sample for the proper amount of time; the formula can be located on the Rotameter Quick Start Guide.
- Connect tubing with sampling media to the Air Inlet Port and turn on the pump. Sampling media will have an air flow arrow, be sure this arrow is pointing towards the pump.
- Begin sampling, note the time that sampling began in case the on/off switch is depressed inadvertently. Turning the pump off then on again will reset the minute counter on the pump.
- Perform sample event and, if desired, perform post calibration with sampling media in line at end of sampling event to verify flow. Do not adjust flow rate, simply record actual.
- If requesting post calibration be performed by SGS please leave tubing connected to the pumps and attach a postcal sticker to the inside of the pump case.
- When complete, turn off pump and record sample stop time and minute counter information. Remove sampling media from tubing and cap/nib both ends.
- Place sampled media in the Media for Laboratory Analysis bag.
- Any unused and calibration media can be placed in the unused media bag provided.
- Pack equipment and samples and ship back to SGS Galson.
- **Low Flow Applications:** When using the pumps for low flow applications, do not adjust the flow adjustment set screw on pump. This will always be set at 1.5lpm to

accommodate the low flow tubing. All flow adjustments are to be made to the adjustment screw on the needle valve where media fits into tubing as seen in "Figure A".

### Pump Charging:

There are two types of 5 station chargers as well as two type of single station chargers for Gilair pumps. One model for each comes ready to plug into the wall, the instructions for the second model is detailed below:

#### 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 the electrical outlet of 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.

#### Activating Gilian Single Pump USB Charger:

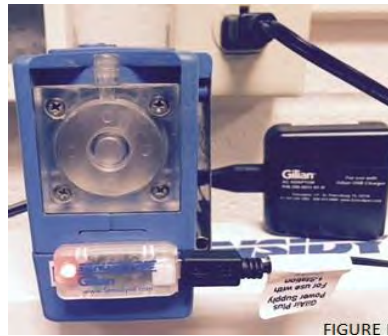
1. Connect the clear USB attachment to the appropriate location on the pump
2. Connect the adapter end of the power cord into the transformer of the Gilian Charger.
3. Plug the power cord into the electrical outlet of a 100 to 200-volt outlet.
4. Connect the USB power supply to the clear USB attachment.



- 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.
- There are two different types of 5 station chargers for the Gilair pump. One will have two red lights on top; the second will have one red light where the charger cords are attached. The light goes to red always for a minimal 30 minutes while pump recognizes battery/charger. For the chargers with two lights, the light closet to the pump is the trickle charge mode indicator. On the single light chargers, the light turns green when trickle charging. Both chargers will automatically switch to trickle mode after anywhere from 15-20 hours of charging.
- 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.

### Trouble Shooting:

- Most common causes and corrective actions of flow faults are:
  - 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 screw, 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 at; 1-888-432-5227 for more trouble shooting assistance.
- 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.



**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)**