



Aircheck 52 Pump Quick Start Guide





Components to the AirCheck 52 Pump



Setup:

1. Pumps are pre-calibrated using a primary calibrator at SGS Galson.
2. Rotameters may be used to verify the pumps flow.
3. Connect tubing for high flow to sampling media and to inlet found on pump.
4. Before sampling turn on pumps to ensure they run.

High Flow sampling:

5. Place sampling media on opposite end of tubing.
6. Turn the pump on
7. Note the time on the chain of custody. **Turning the pump off then on again will reset the minute counter on the pump.**
8. Turn pump off, note time on chain of custody
9. If desired, you may perform a post calibration. Use sampling media or calibration media in line at end of sampling event to verify flow.
10. If requesting a post calibration use the provided post calibration stickers.
11. Remove media from tubing, cover with nibs or red tube covers for sorbent tubes. Mark Chain of custody. Place sampled media in the Media for Laboratory Analysis bag.
12. Any unused media and calibration media can be placed in the unused media bag provided.

Low Flow Applications/ Sampling:

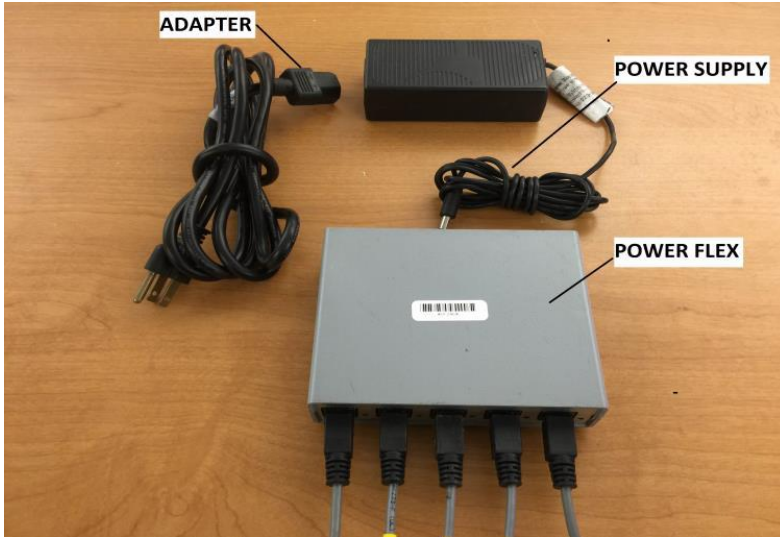


1. Tubing will already be attached when pre-calibrated by SGS Galson
2. Follow steps 2 and 4 from set up directions.
3. If deciding to not use pre-calibrated flows from pumps, be sure to **NOT change the flow on the pump, only use the flow restrictor found on end of sample tubing.**
4. Follow steps 5 through 13 in high flow sampling.
5. **Note: sorbent tubes have an arrow, the arrow should point into the sample tubing before sampling.**

Pump Charging:

Activating a PowerFlex 5 Station Charger:

1. Plug the power supply into the back of the PowerFlex.
2. Plug the adapter end of the power cord into the transformer of the PowerFlex.
3. Plug into the pump(s).
4. Plug the power cord into the electrical outlet of a 100-to-200-volt outlet.



Follow similar process as the SKC single station power flex charger. Plug the power supply into the charger first, then plug the charger into the electrical outlet.

****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.

DO NOT run the pump while plugged into a power source, this will drain the battery cells and you will be responsible for the cost of the damage.

DO NOT bypass the grey charging box by plugging the pump straight into the wall. This will fry the battery cells and add replacement costs to your invoice.

Red light – pumps are charging

Green – fully charged. When the charge is complete it automatically switches to trickle charge.

Note: We recommend recharging prior to any event as the pumps are in a constant state of discharge while not attached to a charger. When a fully charged pump is connected to a charger, the light on the charger will illuminate red for up to 30 minutes while charger recognizes pump.

Trouble Shooting:

- A broken arrow on the LCD display next to the timer indicates a flow fault (Figure B). Most common causes and Corrective Actions of flow faults are.
- Kinked or restricted tubing/ Re-route tubing to ensure unrestricted flow.
- Clogged pump inlet filter/Replace filters with the extra filter provided.
- Overloaded media/If media is overloaded notate stop time and change media.
- Loose pump hose connector/ Ensure hose connector is hand tight.
- Worn or missing hose connector gasket/ Replace pump hose connector and gasket with the spare that was provided.
- Adjusting the flow rate of the pump may result in flow fault. The High Flow pumps provided are built to sample from 1lpm to 2.5lpm depending on the filter media in line.
- A battery with empty cells displayed next to the timer indicates a battery fault. The most common causes of a low battery are.
- Low or improperly charged battery/Re-charge battery.
- Loose connection between pump and battery/ If pump stops when battery is moved, remove battery by unscrewing the two screws on the bottom of the pump. Depress the two détentes on side of battery and remove battery. Re-attach the battery and tighten the screws on the bottom again, turn on (Figure A). If pump still will not start, please contact SGS Galson. See below for our help number.



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)