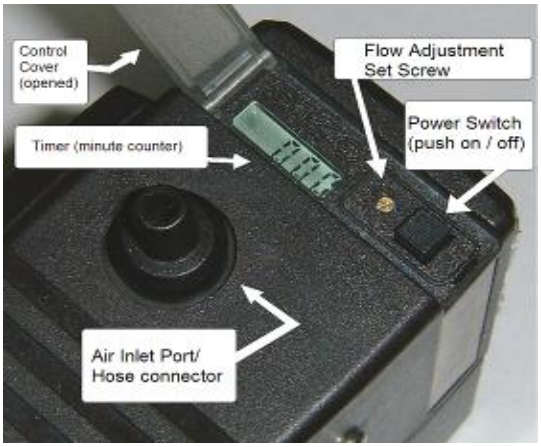
Aircheck 52 Pump Quick Start Guide

Components to the AirCheck 52 Pump



Setup:

- At the request of the client, pumps are pre-calibrated using a primary calibrator at SGS Galson; rotameters may be used to verify flow. 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, be sure the arrow is pointing towards the pump.
- Begin sampling, note the time that sampling began in case the on/off switch is pressed inadvertently. Turning the pump off then on again will reset the minute counter on the pump.
- If desired, perform sample event and post calibration. Use sampling media in line at end of sampling event to verify flow.
- If requesting post calibration please leave tubing connected to the pumps, attach the provided post calibration stickers to the inside of the pump case.
- When complete turn off the pump, record the sample stop time and minute counter information. Remove media from sample tubing and cap/nib both ends.
- Place sampled media in the Media for Laboratory Analysis.
- Any unused media and calibration media can be place in the unused media bag provided.
- Pack equipment and samples and ship back to SGS Galson.

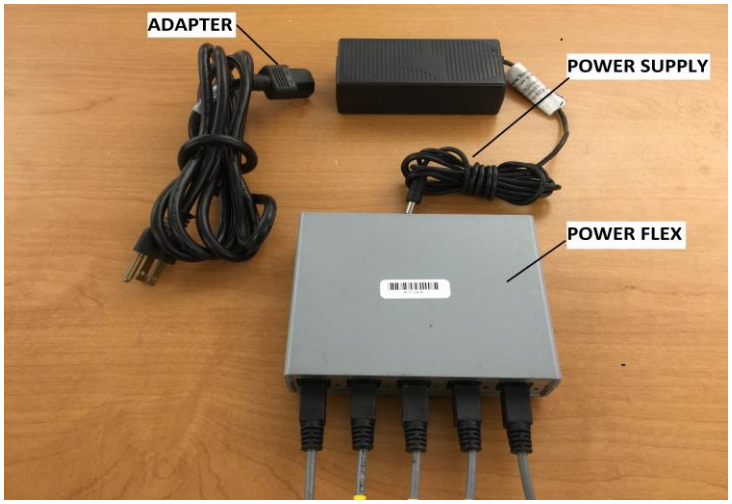
Low Flow Applications

- When using the pumps for low flow applications, do not adjust the flow adjustment set screw on pump. The pump 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.

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.



Activating an SKC Single Station Charger is a very similar process to the PowerFlex 5 Station. 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.

- When the light on the charger is red the pumps are charging.
- When the light on the charger turns green, the charge is complete and automatically switches to trickle charge.
- Note: We recommend you 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 at;
    1-888-432-5227 for more trouble shooting assistance.

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>