

Instructions to Fill a Nitrogen Bottle Using Cascading

Filling a bottle with the cascade system uses two or more supply bottles to fill the portable bottle. Starting with the supply bottle with the lowest pressure, as the pressure between the supply and portable bottle equalizes, the next supply bottle, with a higher pressure, is used. This process is repeated until the portable bottle is filled.

- 1) Remove the cap from the Nitrogen bottle.



2) Attach the N2 Quick Connect to the portable bottle.



3) Make sure you are filling the portable N2 bottle with Nitrogen from a supply bottle or tank.



- 4) Make sure the pressure gauge needle starts out at zero to ensure you are getting an accurate pressure measurement.



- 5) Making sure the portable bottle nozzle is closed, attach the hose from the supply tank to the portable bottle. Note that Echometer houses supply tanks securely and away from direct sunlight or extreme heat.



6) Slowly open the valve to the supply tank.



7) When the pressure has equalized, read the pressure in the bottle.



8) Open the valve on the portable bottle to fill the bottle to the equalized pressure.



9) When the pressure has equalized, close the valve to the portable bottle and the supply tank. Release the pressure in the hose.



- 10) Remove the hardware from the lower pressure supply tank.



- 11) Attach the hardware to the next highest pressurized, or full, supply tank.



- 12) With the hose still attached to the portable bottle, attach the hose to the second supply tank. Note the current zero pressure.



- 13) Slowly open the valve to the second supply tank.



- 14) Taking a reading from the pressure gauge at equalized pressure shows that the tank is full.



- 15) Open the nozzle to the portable bottle to fill.



- 16) Close the valves on both the portable bottle and the supply tank. Release the pressure in the hose.



- 17) Remove the hose from the portable bottle, remove the filler connector, and replace the cap, or the 3ft hose. The bottle is ready for use.