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2809A, 2809C, 2809D Mechanical Aspirator Instructions

The following instructions and information apply to all 2809 Series aspirators. All three aspirators have the same drive motor and fan. What makes them different is the power source that drives the aspirator. The 2809A is an AC/DC aspirator that runs on 120 VAC or 6 VDC. The 2809C runs at 4.5 VDC. It does not have as much suction as the 2809A or 2809D, which runs at 6 VDC.

Each aspirator is supplied with a drive unit, 3 collecting vials, nozzle and pick-up tubes. To set up the aspirator, insert a collecting vial into the tube holder. Place the nozzle on to the end of the vial. The nozzle can also be installed onto the vial if the vial is not in the holder. Either a straight or bent pick-up tube is then pushed into the end of the nozzle into the collecting vial. It is important that the pick-up tube goes past the fingers of the flap valve. If it does not, the aspirator will not function properly. By pushing the pick-up tube into the vial approximately 25% of the way in, it will be more difficult for trapped specimens to escape when the aspirator is powered off.

After collecting specimens, the nozzle assembly may be removed from the vial to prevent escape. The flaps of the valve should close evenly after the pick-up tube is removed. A new vial is then inserted into the vial holder and the nozzle assembly installed onto the vial.

Notes:

If the pickup tube is left in the vial for prolonged periods of time such as storage, the valve fingers may distort slightly in the open position. The valve may be reversed to counter this condition. During regular operation, the bending or distortion of the valve should not be a problem. Do not store the aspirator with the pick-up tube in the vial.

The fan or blower in these aspirators is made of a light-weight urethane. It is prone to breaking if it is hit with a foreign object while in operation. Care should be taken to keep objects away from fan while in operation. Please do not let the aspirator run when not being used

Avoid long period of operation. The motor tends to produce heat when operated for long periods. This heat is transferred through the motor into the motor shaft. If the connections between the fan and motor gets too hot the connection may fail and the fan can become dislodged.

Repair of these aspirators can be made by BioQuip. Please contact us prior to sending back a unit for repair.